

micro plastics, inc.

**THE WORLD'S LARGEST
MANUFACTURER OF
THREADED NYLON FASTENERS.**



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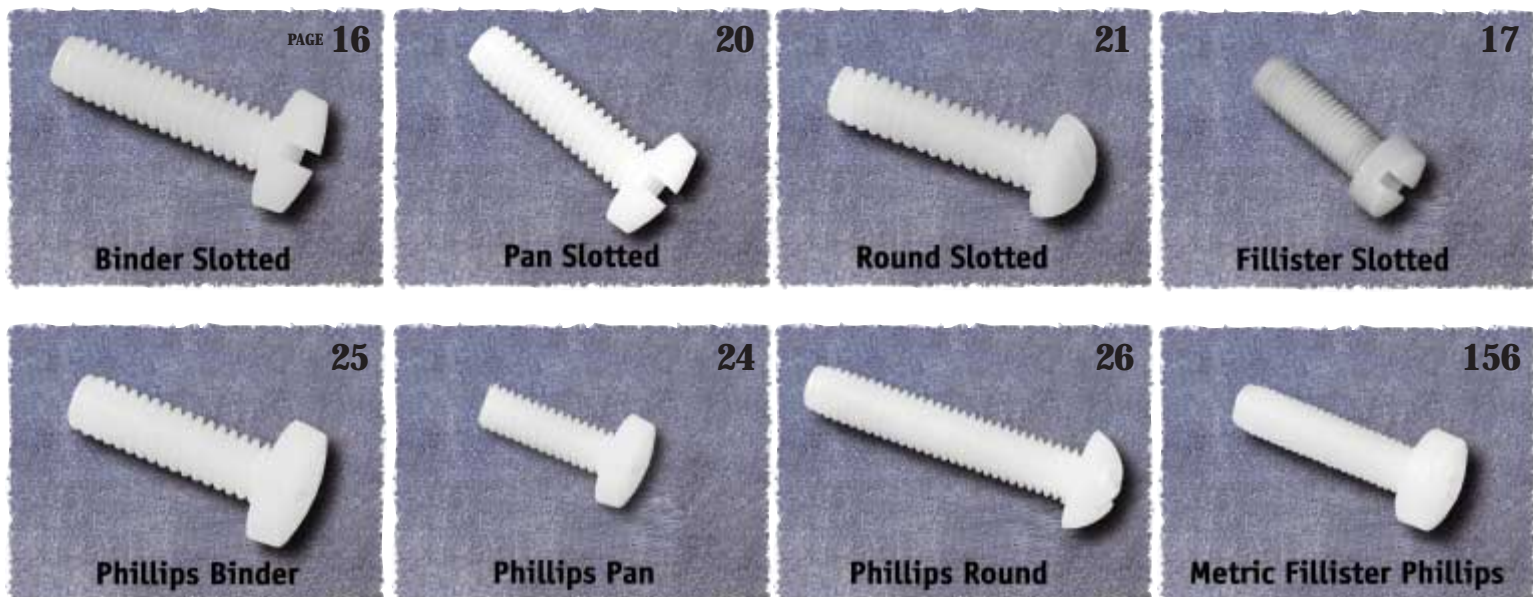


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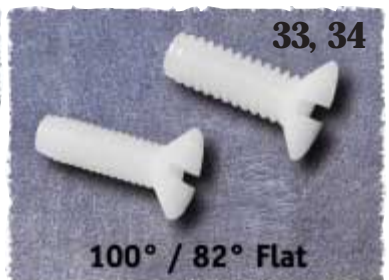


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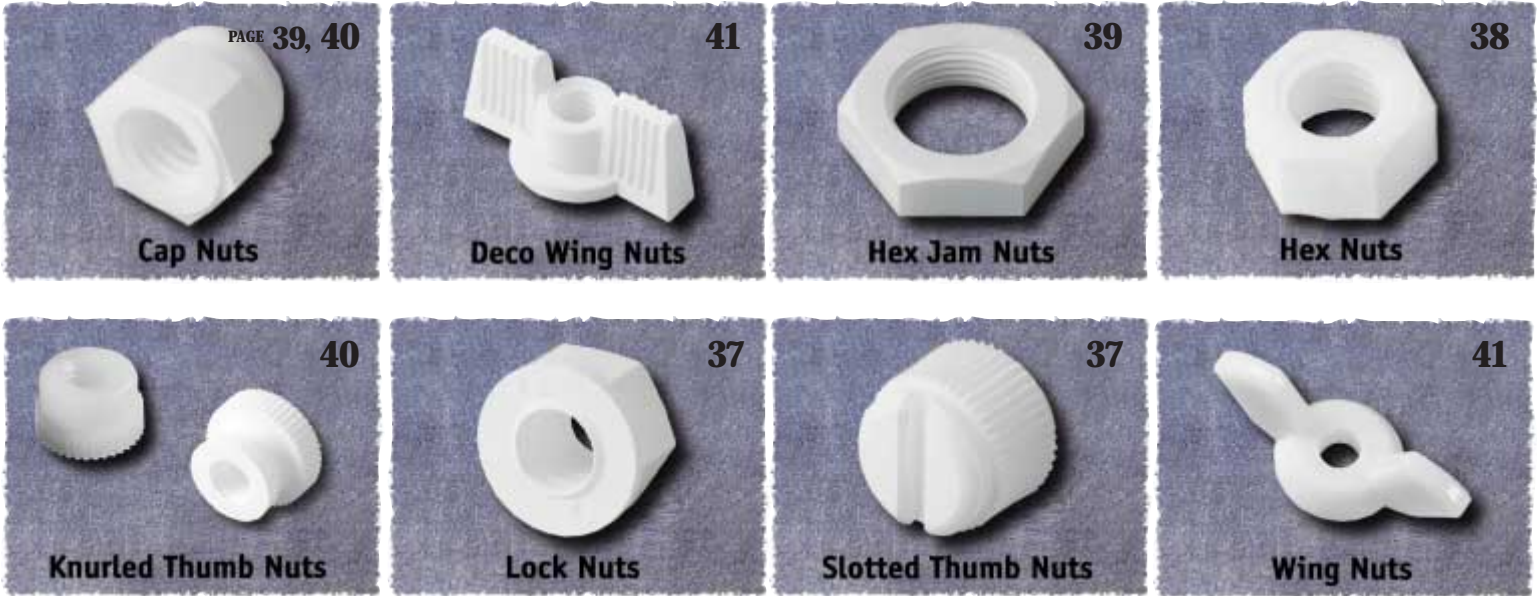
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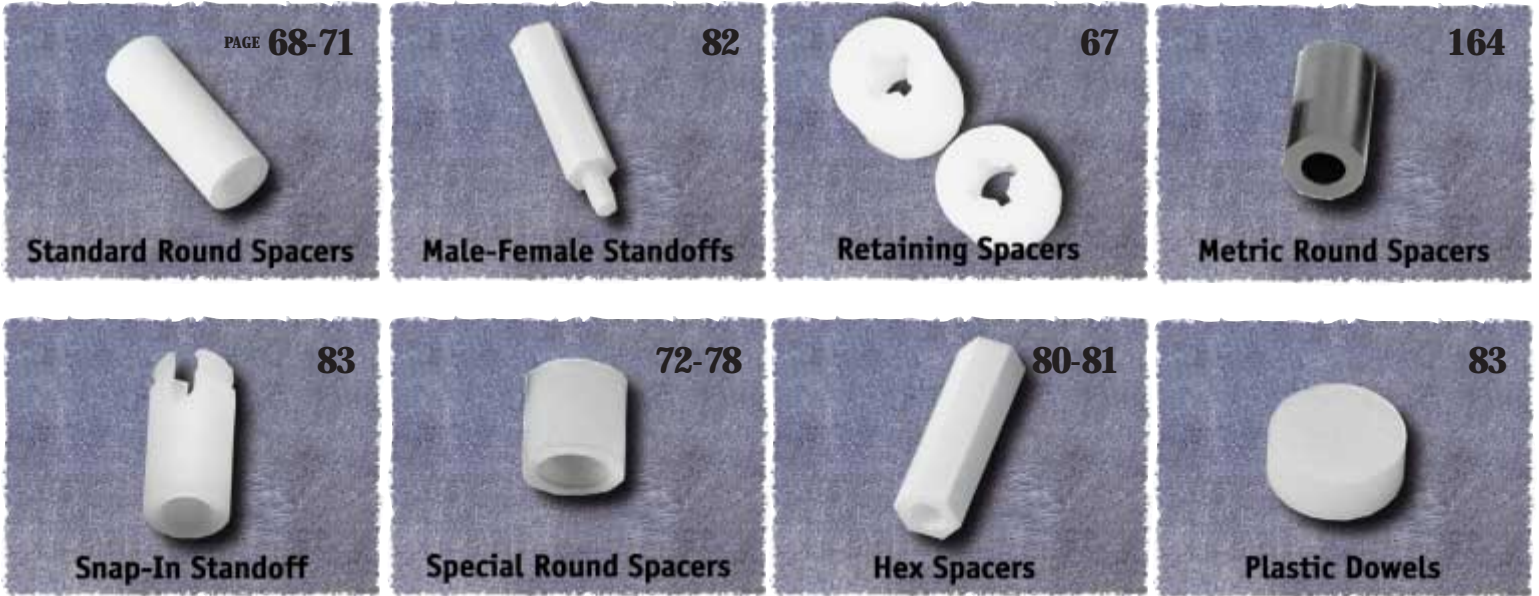
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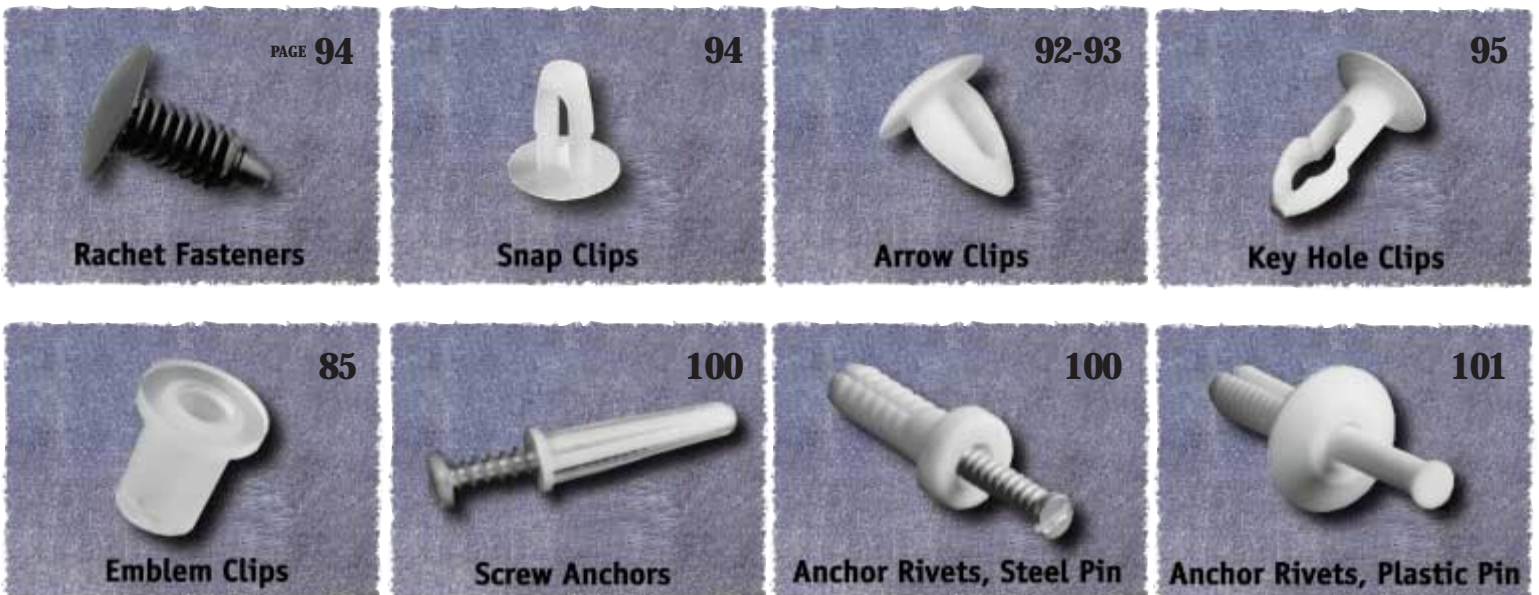


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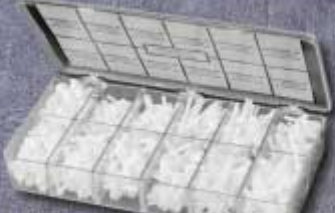

 Snap Rivet	 Mini Rivets	 Two Piece Screw Rivets	 2 Pc. Removable Rivets
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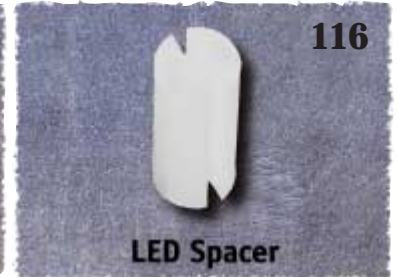
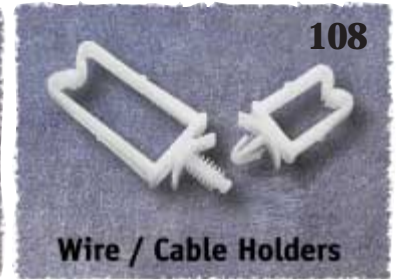


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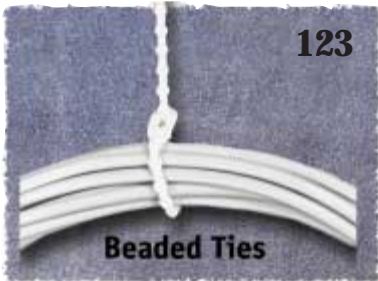


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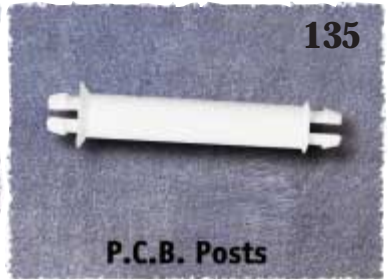


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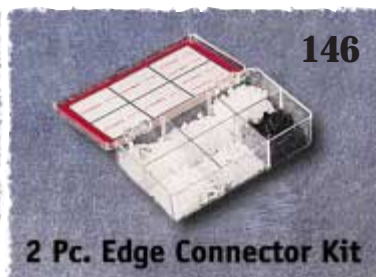
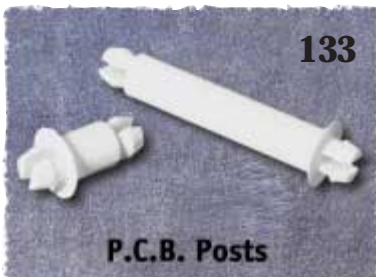
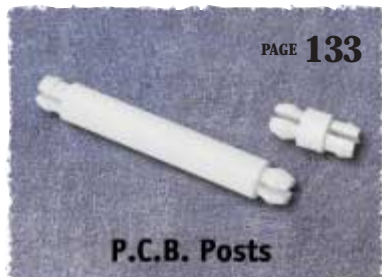
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Clip Mounts

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Cable Tie Installation Tool

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Cable Tie Installation Tool

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Cable Tie Installation Tool

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Clip Mounts

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Screw Tab #8

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Screw Tab 1/4"

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Cradle Mount Adhesive

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Cradle Mount Screw

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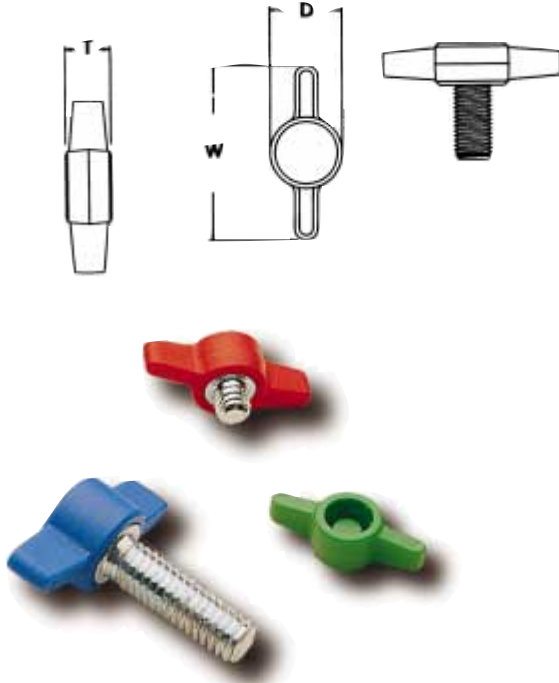
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PRESS-LOC THUMB SCREW KNOBS

SECTION

I

PLASTIC HEADS ARE MOLDED ONTO ZINC PLATED STEEL ALLOY SOCKET HEAD CAP SCREWS.



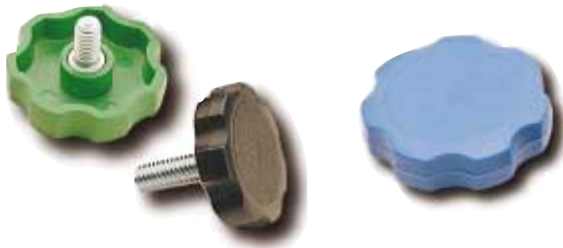
WING HEAD - KNOBS PRESSES ONTO ANY STD. SOCKET HEX CAP SCREW.

ITEM NUMBER	FITS SCREW	SPECIFICATIONS		
		W	T	D
29W010	#10	1"	1/4"	7/16"
29W014	1/4	1-17/64"	11/32"	17/32"
29W516	5/16	1-1/2"	13/32"	5/8"
29W038	3/8	1-25/32"	31/64"	47/64"

WING HEAD - SCREW MOLDED ONTO ZINC PLATED STEEL ALLOY SOCKET HEAD CAP SCREW.

ITEM NUMBER	SCREW SIZE	SCREW LENGTH	HEAD DIA.
29W010S037	10-32	3/8"	1"
29W010S050	10-32	1/2"	1"
29W010S075	10-32	3/4"	1"
29W010S100	10-32	1"	1"
29W010S150	10-32	1-1/2"	1"
29W014S050	1/4-20	1/2"	1-1/4"
29W014S075	1/4-20	3/4"	1-1/4"
29W014S100	1/4-20	1"	1-1/4"
29W014S150	1/4-20	1-1/2"	1-1/4"
29W516S050	5/16-18	1/2"	1-1/2"
29W516S075	5/16-18	3/4"	1-1/2"
29W516S100	5/16-18	1"	1-1/2"
29W516S150	5/16-18	1-1/2"	1-1/2"
29W038S075	3/8-16	3/4"	1-3/4"
29W038S100	3/8-16	1"	1-3/4"
29W038S150	3/8-16	1-1/2"	1-3/4"

COLOR CODES MUST BE INCLUDED WITH THE ITEM NUMBER WHEN ORDERING!
B - BLACK RD - RED WT - WHITE
BL - BLUE GR - GREEN

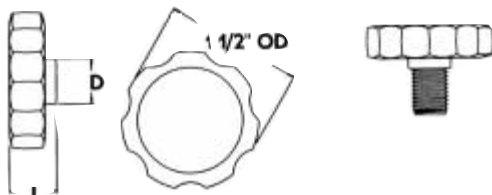


FLOWERETTE - KNOBS PRESSES ONTO ANY STD. SOCKET HEX CAP SCREW.

ITEM NUMBER	FITS SCREW	SPECIFICATIONS	
		T	D
29F014	1/4	3/8"	1/2"
29F516	5/16	5/16"	19/32"
29F038	3/8	3/8"	45/64"

FLOWERETTE - SCREW MOLDED ONTO ZINC PLATED STEEL ALLOY SOCKET HEAD CAP SCREW.

ITEM NUMBER	SCREW SIZE	SCREW LENGTH	HEAD DIA.
29F014S050	1/4-20	1/2"	1-1/2"
29F014S075	1/4-20	3/4"	1-1/2"
29F014S100	1/4-20	1"	1-1/2"
29F014S150	1/4-20	1-1/2"	1-1/2"
29F516S050	5/16-18	1/2"	1-1/2"
29F516S075	5/16-18	3/4"	1-1/2"
29F516S100	5/16-18	1"	1-1/2"
29F516S150	5/16-18	1-1/2"	1-1/2"
29F038S075	3/8-16	3/4"	1-1/2"
29F038S100	3/8-16	1"	1-1/2"
29F038S150	3/8-16	1-1/2"	1-1/2"



PRESS-LOC THUMB SCREW KNOBS

STANDARD - ROUND HEAD - KNOB

PRESSES ONTO ANY STD. SOCKET HEX CAP SCREW.

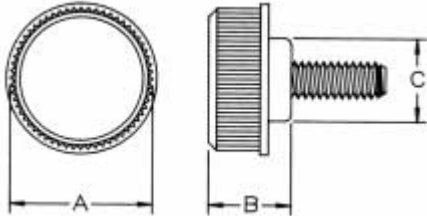
ITEM NUMBER	FITS SCREW	SPECIFICATIONS		
		A	B	C
29R004	#4	5/16"	11/64"	9/32"
29R006	#6	3/8"	13/64"	21/64"
29R008	#8	1/2"	7/32"	3/8"
29R010	#10	21/32"	1/4"	27/64"
29R147	1/4	3/4"	5/16"	1/2"
29R141	1/4	1"	21/64"	1/2"
29R516	5/16	1"	25/64"	19/32"

METRIC - ROUND HEAD - KNOB

PRESSES ONTO ANY STD. SOCKET HEX CAP SCREW.

ITEM NUMBER	FITS SCREW	SPECIFICATIONS		
		A	B	C
29M300R	M 3	9,53	5,16	8,33
29M400R	M 4	12,70	5,56	9,53
29M500R	M 5	15,88	6,35	10,72
29M600R	M 6	19,05	7,93	12,70
29M601R	M 6	25,40	8,33	12,70
29M801R	M 8	25,40	9,92	15,08

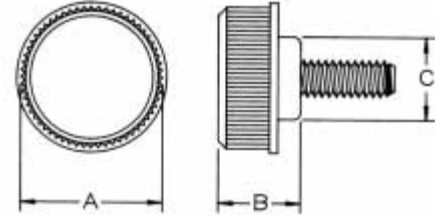
SECTION
I



ROUND HEAD DRAWING FOR:

STANDARD HEAD DIA.
5/16" THROUGH 3/4"

METRIC HEAD DIA.
9,53 THROUGH 19,05



ROUND HEAD DRAWING FOR:

STANDARD HEAD DIA.
1"

METRIC HEAD DIA.
25,40

STANDARD - ROUND HEAD - SCREW

MOLDED ONTO ZINC PLATED STEEL ALLOY SOCKET HEAD CAP SCREW.

ITEM NUMBER	SCREW SIZE	SCREW LENGTH	HEAD DIA.
29R004S025	4-40	1/4"	5/16"
29R004S050	4-40	1/2"	5/16"
29R004S075	4-40	3/4"	5/16"
29R006S025	6-32	1/4"	3/8"
29R006S050	6-32	1/2"	3/8"
29R006S075	6-32	3/4"	3/8"
29R008S037	8-32	3/8"	1/2"
29R008S050	8-32	1/2"	1/2"
29R008S075	8-32	3/4"	1/2"
29R008S100	8-32	1"	1/2"
29R010S037	10-32	3/8"	5/8"
29R010S050	10-32	1/2"	5/8"
29R010S075	10-32	3/4"	5/8"
29R010S100	10-32	1"	5/8"
29R010S150	10-32	1-1/2"	5/8"
29R147S050	1/4-20	1/2"	3/4"
29R147S075	1/4-20	3/4"	3/4"
29R147S100	1/4-20	1"	3/4"
29R147S150	1/4-20	1-1/2"	3/4"
29R141S050	1/4-20	1/2"	1"
29R141S075	1/4-20	3/4"	1"
29R141S100	1/4-20	1"	1"
29R141S150	1/4-20	1-1/2"	1"
29R516S050	5/16-18	1/2"	1"
29R516S075	5/16-18	3/4"	1"
29R516S100	5/16-18	1"	1"
29R516S150	5/16-18	1-1/2"	1"

METRIC - ROUND HEAD - SCREW

MOLDED ONTO ZINC PLATED STEEL ALLOY SOCKET HEAD CAP SCREW.

ITEM NUMBER	SCREW SIZE	SCREW LENGTH	HEAD DIA.
29M30050R008	M 3	M 8	9,53
29M30050R0010	M 3	M 10	9,53
29M30050R012	M 3	M 12	9,53
29M30050R016	M 3	M 16	9,53
29M40070R010	M 4	M 10	12,70
29M40070R012	M 4	M 12	12,70
29M40070R016	M 4	M 16	12,70
29M40070R020	M 4	M 20	12,70
29M40070R025	M 4	M 25	12,70
29M50080R012	M 5	M 12	15,88
29M50080R016	M 5	M 16	15,88
29M50080R020	M 5	M 20	15,88
29M50080R025	M 5	M 25	15,88
29M50080R040	M 5	M 40	15,88
29M60100R012	M 6	M 12	19,05
29M60100R016	M 6	M 16	19,05
29M60100R020	M 6	M 20	19,05
29M60100R025	M 6	M 25	19,05
29M60100R040	M 6	M 40	19,05
29M61100R012	M 6	M 12	25,40
29M61100R016	M 6	M 16	25,40
29M61100R020	M 6	M 20	25,40
29M61100R025	M 6	M 25	25,40
29M61100R040	M 6	M 40	25,40
29M80125R012	M 8	M 12	25,40
29M80125R016	M 8	M 16	25,40
29M80125R020	M 8	M 20	25,40
29M80125R025	M 8	M 25	25,40
29M80125R040	M 8	M 40	25,40

NOTE: PRESS LOC THUMB SCREWS ARE DESIGNED TO BE HAND TIGHTENED.

PRESS-LOC THUMB SCREW KNOB ASSORTMENT KITS

SECTION I



FLOWERETTE 144 PIECE

ASSORTMENT CONSISTS OF APPROX:

48 - 1/4"
48 - 5/16"
48 - 3/8"

Assorted Colors

04AS0144FPL

WING 312 PIECE

ASSORTMENT CONSISTS OF APPROX:

72 - 1/4"
78 - 5/16"
72 - 3/8"
90 - #10

Assorted Colors

04AS0312WPL

ROUND 704 PIECE

ASSORTMENT CONSISTS OF APPROX:

102 - 5/16"
102 - 1/4 X 1"
100 - 1/4 X 3/4"
100 - #10
100 - # 8
100 - # 6
100 - # 4

Assorted Colors

04AS0704RPL

ROUND 380 PIECE

ASSORTMENT CONSISTS OF APPROX:

40 - 5/16"
40 - 1/4 X 1"
75 - 1/4 X 3/4"
75 - #10
50 - # 8
50 - # 6
50 - # 4

Assorted Colors

04AS0380RPL



EASY TO ASSEMBLE INSTANT THUMB SCREWS

MICRO PLASTICS' PRESS-LOC THUMB SCREW KNOBS CAN BE ASSEMBLED TO THE APPROPRIATE SIZE SOCKET HEXAGON HEAD CAP SCREW IN VARIOUS WAYS DEPENDING ON THE VOLUME OF PARTS TO BE ASSEMBLED.

ANY DEVICE THAT PROVIDES A POSITIVE CLAMPING FORCE, SUCH AS A BENCH VISE, ARBOR PRESS, OR EVEN VISE GRIP TYPE PLIERS, FOR SMALL QUANTITIES WILL PERFORM THE ASSEMBLY.

SIMPLY ALIGN THE SOCKET CAP SCREW WITH THE MATCHING COUNTERBORE PROVIDED IN THE PRESS-LOC KNOB, PLACE THIS ASSEMBLY BETWEEN THE CLAMPING JAWS OF THE ASSEMBLY DEVICE AND PROVIDE ENOUGH FORCE TO PRESS THE KNOB COMPLETELY OVER THE HEAD OF THE SCREW.

A SMALL SECTION OF THIN CARDBOARD OR SMOOTH PLASTIC PLACED BETWEEN THE TOP SURFACE OF THE PRESS-LOC KNOB AND THE CLAMPING JAW IS RECOMMENDED TO PREVENT MARING OF THE KNOB SURFACE.

SCREWS, BOLTS, AND THREADED ROD

SECTION
II

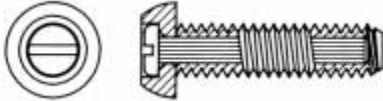
PROTECT

INSULATE

ISOLATE

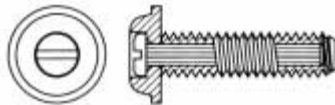
ROUND - CODE "R"

Thread Size	632	832	1032	1/4-20
Head diameter	.255	.300	.340	.450
Head height	.095	.120	.130	.165



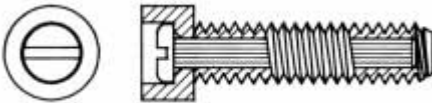
ROUND WASHER - CODE "W"

Thread Size	632	832	1032	1/4-20
Head diameter	.230	.265	.315	.460
Head height	.100	.110	.130	.175
Washer thickness	.025	.032	.036	.056
Washer diameter	.300	.370	.425	.550



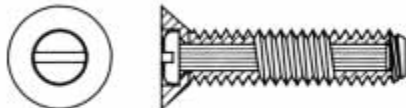
FILLISTER - CODE "F"

Thread Size	632	832	1032	1/4-20
Head diameter	.225	.260	.300	.400
Head height	.135	.140	.160	.220



82° FLAT - CODE "A"

Thread Size	632	832	1032	1/4-20
Head diameter	.265	.305	.365	.510
Head height	.085	.100	.120	.155



**NOTE: SPECIFY HEAD
STYLE CODE LETTER.**

**EXAMPLE: 632 X 1/2" ROUND
HEAD=390632R050**

**The shear strength of heat-treated steel.
The Dielectric insulation, corrosion resistance
and vibration resistance of nylon.**

A perfect combination to replace:

- *costly brass and stainless steel fasteners.
- *costly multiple component insulated screw assemblies.
- *costly sleeved and clad screws.
- *marginal standard nylon fastener applications.

Metal Core Screws are recommended in applications requiring electrical, thermal and vibration insulation in shear or double shear connections.

These reinforced screws will provide up to 4 times strength of standard nylon fasteners.

NYLON SHELL

Nylon 66 Natural
High dielectric resistance
Corrosion resistant
Vibration, abrasion resistant

REINFORCING CORE

*High strength, high carbon C.H.Q. steel.
*Precision cold formed and knurled.
*Electro zinc or cadmium plated.

The reinforcing core incorporates a recessed metal head that permits tightening with high speed, high torque automatic drives.

Due to the corrosion resistant nature of the nylon, the Metal core Screws can, in certain applications, replace expensive stainless steel, brass and Monel fasteners at a substantial cost savings.

The insulating quality of the nylon shell makes the Metal Core Screws an ideal choice for areas where cathodic or thermal transfer is a problem.

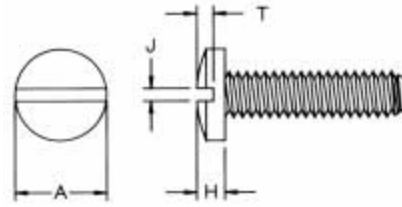
ITEM NUMBER	SIZE	DESCRIPTION
390632 025	632 1/4 (6,35)	Metal Core
390632 037	632 3/8 (9,53)	Metal Core
390632 050	632 1/2 (12,70)	Metal Core
390832 037	832 3/8 (9,53)	Metal Core
390832 050	832 1/2 (12,70)	Metal Core
391032 037	1032 3/8 (9,53)	Metal Core
391032 050	1032 1/2 (12,70)	Metal Core
391032 075	1032 3/4 (19,05)	Metal Core
391032 100	1032 1 (25,40)	Metal Core
392520 037	1/4-20 3/8 (9,53)	Metal Core
392520 050	1/4-20 1/2 (12,70)	Metal Core
392520 062	1/4-20 5/8 (15,88)	Metal Core
392520 075	1/4-20 3/4 (19,05)	Metal Core
392520 100	1/4-20 1 (25,40)	Metal Core

METRIC SIZES AVAILABLE ON APPLICATION

SIZE	MAX TORQUE		TENSILE TEST		DOUBLE SHEAR	
	BEFORE DEFORMATION	ULTIMATE TORQUE	YIELD LBS.	BREAK LBS.	YIELD LBS.	BREAK LBS.
632	1 In. Lbs.	1.5 In. Lbs.	24	32	200	240
832	3 In. Lbs.	4 In. Lbs.	66	72	300	360
1032	5 In. Lbs.	6 In. Lbs.	96	104	600	640
1/4-20	12 In. Lbs.	13 In. Lbs.	120	174	1400	1600

SCREWS, BOLTS, AND THREADED ROD

SECTION II



BINDER SLOTTED HEADSTYLE

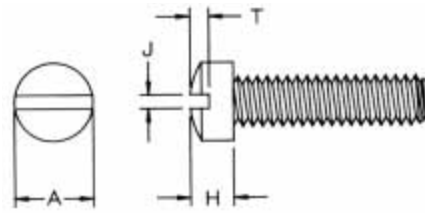
THREAD SIZE	A	H	J	T
2	.171-.181	.043-.050	.023-.031	.020-.030
4	.223-.235	.061-.068	.031-.039	.030-.042
6	.275-.290	.078-.087	.039-.048	.040-.053
8	.326-.344	.095-.105	.045-.054	.050-.065
10	.378-.399	.112-.123	.050-.060	.060-.077
12	.430-.454	.130-.141	.056-.067	.070-.089
1/4	.498-.525	.152-.165	.064-.075	.084-.105

Nominal Screw Size	0000 thru 00	0 thru 12	1/4 thru 3/4
Nominal Screw Length	Tolerance on Length		
Up to 1/2 in., incl	-0.01	-0.02	-0.03
Over 1/2 to 1 in., incl	-0.02	-0.03	-0.03
Over 1 to 2 in., incl	-	-0.06	-0.06
Over 2 in.	-	-0.09	-0.09

PART NUMBER	THREAD	LENGTH	PART NUMBER	THREAD	LENGTH	PART NUMBER	THREAD	LENGTH	PART NUMBER	THREAD	LENGTH
010256B009	256	3/32	010440B137	440	1 3/8	010832B050	832	1/2	011032B200	1032	2
010256B012	256	1/8	010440B150	440	1 1/2	010832B062	832	5/8	012520B025	1/4-20	1/4
010256B015	256	5/32	010440B162	440	1 5/8	010832B075	832	3/4	012520B031	1/4-20	5/16
010256B018	256	3/16	010440B175	440	1 3/4	010832B087	832	7/8	012520B037	1/4-20	3/8
010256B025	256	1/4	010448B025	448	1/4	010832B100	832	1	012520B050	1/4-20	1/2
010256B028	256	9/32	010632B009	632	3/32	010832B112	832	1 1/8	012520B062	1/4-20	5/8
010256B031	256	5/16	010632B012	632	1/8	010832B125	832	1 1/4	012520B075	1/4-20	3/4
010256B037	256	3/8	010632B015	632	5/32	010832B137	832	1 3/8	012520B087	1/4-20	7/8
010256B039	256	25/64	010632B018	632	3/16	010832B150	832	1 1/2	012520B100	1/4-20	1
010256B043	256	7/16	010632B025	632	1/4	010832B175	832	1 3/4	012520B125	1/4-20	1 1/4
010256B050	256	1/2	010632B031	632	5/16	010832B187	832	1 7/8	012520B150	1/4-20	1 1/2
010256B056	256	9/16	010632B037	632	3/8	010832B200	832	2	012520B175	1/4-20	1 3/4
010256B062	256	5/8	010632B043	632	7/16	011024B012	1024	1/8	012520B200	1/4-20	2
010256B075	256	3/4	010632B050	632	1/2	011024B018	1024	3/16	012520B250	1/4-20	2 1/2
010256B087	256	7/8	010632B056	632	9/16	011024B025	1024	1/4	012528B018	1/4-28	3/16
010256B100	256	1	010632B062	632	5/8	011024B031	1024	5/16	012528B025	1/4-28	1/4
010256B112	256	1 1/8	010632B068	632	11/16	011024B037	1024	3/8	012528B037	1/4-28	3/8
010264B018	264	3/16	010632B075	632	3/4	011024B050	1024	1/2	012528B062	1/4-28	5/8
010264B037	264	3/8	010632B087	632	7/8	011024B062	1024	5/8	012528B075	1/4-28	3/4
010436B050	436	1/2	010632B100	632	1	011024B075	1024	3/4	012528B100	1/4-28	1
010440B009	440	3/32	010632B112	632	1 1/8	011024B100	1024	1			
010440B012	440	1/8	010632B125	632	1 1/4	011024B125	1024	1 1/4			
010440B014	440	9/64	010632B150	632	1 1/2	011024B150	1024	1 1/2			
010440B018	440	3/16	010632B162	632	1 5/8	011032B012	1032	1/8			
010440B025	440	1/4	010632B175	632	1 3/4	011032B018	1032	3/16			
010440B028	440	9/32	010632B187	632	1 7/8	011032B025	1032	1/4			
010440B031	440	5/16	010632B200	632	2	011032B031	1032	5/16			
010440B037	440	3/8	010632B225	632	2 1/4	011032B037	1032	3/8			
010440B043	440	7/16	010640B025	640	1/4	011032B043	1032	7/16			
010440B050	440	1/2	010640B037	640	3/8	011032B050	1032	1/2			
010440B056	440	9/16	010640B075	640	3/4	011032B062	1032	5/8			
010440B062	440	5/8	010640B100	640	1	011032B075	1032	3/4			
010440B068	440	11/16	010832B012	832	1/8	011032B081	1032	13/16			
010440B075	440	3/4	010832B018	832	3/16	011032B087	1032	7/8			
010440B087	440	7/8	010832B025	832	1/4	011032B100	1032	1			
010440B100	440	1	010832B028	832	9/32	011032B106	1032	1-1/16			
010440B112	440	1 1/8	010832B031	832	5/16	011032B125	1032	1 1/4			
010440B118	440	1 3/16	010832B037	832	3/8	011032B150	1032	1 1/2			
010440B125	440	1 1/4	010832B043	832	7/16	011032B175	1032	1 3/4			



SCREWS, BOLTS, AND THREADED ROD



FILLISTER SLOTTED HEADSTYLE

THREAD SIZE	A	H	J	T
2	.124-.140	.066-.083	.023-.031	.025-.037
3	.145-.161	.077-.095	.027-.035	.030-.043
4	.166-.183	.088-.107	.031-.039	.035-.048
6	.208-.226	.111-.132	.039-.048	.045-.060
8	.250-.270	.133-.156	.045-.054	.054-.071
10	.292-.313	.156-.180	.050-.060	.064-.083
12	.334-.357	.134-.148	.056-.067	.074-.094
1/4	.389-.414	.207-.237	.064-.075	.087-.109

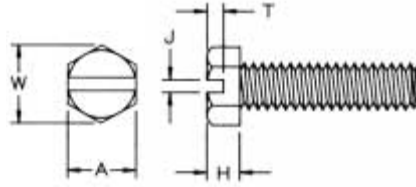
Nominal Screw Size	0000 thru 00	0 thru 12	1/4 thru 3/4
Nominal Screw Length	Tolerance on Length		
Up to 1/2 in., incl	-0.01	-0.02	-0.03
Over 1/2 to 1 in., incl	-0.02	-0.03	-0.03
Over 1 to 2 in., incl	-	-0.06	-0.06
Over 2 in.	-	-0.09	-0.09

PART NUMBER	THREAD	LENGTH	PART NUMBER	THREAD	LENGTH	PART NUMBER	THREAD	LENGTH	PART NUMBER	THREAD	LENGTH
010256F009	256	3/32	010440F056	440	9/16	010640F037	640	3/8	011032F050	1032	1/2
010256F012	256	1/8	010440F062	440	5/8	010640F075	640	3/4	011032F062	1032	5/8
010256F015	256	5/32	010440F068	440	11/16	010640F100	640	1	011032F075	1032	3/4
010256F018	256	3/16	010440F075	440	3/4	010832F012	832	1/8	011032F081	1032	13/16
010256F025	256	1/4	010440F087	440	7/8	010832F018	832	3/16	011032F087	1032	7/8
010256F028	256	9/32	010440F100	440	1	010832F025	832	1/4	011032F100	1032	1
010256F031	256	5/16	010440F112	440	1 1/8	010832F028	832	9/32	011032F106	1032	1 1/16
010256F037	256	3/8	010440F118	440	1 3/16	010832F031	832	5/16	011032F125	1032	1 1/4
010256F039	256	25/64	010440F125	440	1 1/4	010832F037	832	3/8	011032F150	1032	1 1/2
010256F043	256	7/16	010440F137	440	1 3/8	010832F043	832	7/16	011032F175	1032	1 3/4
010256F050	256	1/2	010440F150	440	1 1/2	010832F050	832	1/2	011032F200	1032	2
010256F056	256	9/16	010440F162	440	1 5/8	010832F062	832	5/8	012520F025	1/4-20	1/4
010256F062	256	5/8	010440F175	440	1 3/4	010832F075	832	3/4	012520F031	1/4-20	5/16
010256F075	256	3/4	010448F025	448	1/4	010832F087	832	7/8	012520F037	1/4-20	3/8
010256F087	256	7/8	010540F037	540	3/8	010832F100	832	1	012520F050	1/4-20	1/2
010256F100	256	1	010632F009	632	3/32	010832F112	832	1 1/8	012520F062	1/4-20	5/8
010256F112	256	1 1/8	010632F012	632	1/8	010832F125	832	1 1/4	012520F075	1/4-20	3/4
010264F018	264	3/16	010632F015	632	5/32	010832F137	832	1 3/8	012520F087	1/4-20	7/8
010264F037	264	3/8	010632F018	632	3/16	010832F150	832	1 1/2	012520F100	1/4-20	1
010348F012	348	1/8	010632F025	632	1/4	010832F175	832	1 3/4	012520F125	1/4-20	1 1/4
010348F018	348	3/16	010632F031	632	5/16	010832F187	832	1 7/8	012520F150	1/4-20	1 1/2
010348F025	348	1/4	010632F037	632	3/8	010832F200	832	2	012520F175	1/4-20	1 3/4
010348F031	348	5/16	010632F043	632	7/16	011024F012	1024	1/8	012520F200	1/4-20	2
010348F037	348	3/8	010632F050	632	1/2	011024F018	1024	3/16	012520F250	1/4-20	2 1/2
010348F043	348	7/16	010632F056	632	9/16	011024F025	1024	1/4	012528F018	1/4-28	3/16
010348F050	348	1/2	010632F062	632	5/8	011024F031	1024	5/16	012528F025	1/4-28	1/4
010348F075	348	3/4	010632F068	632	11/16	011024F037	1024	3/8	012528F037	1/4-28	3/8
010356F031	356	5/16	010632F075	632	3/4	011024F050	1024	1/2	012528F062	1/4-28	5/8
010436F050	436	1/2	010632F087	632	7/8	011024F062	1024	5/8	012528F075	1/4-28	3/4
010440F009	440	3/32	010632F100	632	1	011024F075	1024	3/4	012528F100	1/4-28	1
010440F012	440	1/8	010632F112	632	1 1/8	011024F100	1024	1			
010440F014	440	9/64	010632F125	632	1 1/4	011024F125	1024	1 1/4			
010440F018	440	3/16	010632F150	632	1 1/2	011024F150	1024	1 1/2			
010440F025	440	1/4	010632F162	632	1 5/8	011032F012	1032	1/8			
010440F028	440	9/32	010632F175	632	1 3/4	011032F018	1032	3/16			
010440F031	440	5/16	010632F187	632	1 7/8	011032F025	1032	1/4			
010440F037	440	3/8	010632F200	632	2	011032F031	1032	5/16			
010440F043	440	7/16	010632F225	632	2 1/4	011032F037	1032	3/8			
010440F050	440	1/2	010640F025	640	1/4	011032F043	1032	7/16			



SCREWS, BOLTS, AND THREADED ROD

SECTION II



THREAD SIZE	A	W	H	J	T
2	.120-.125	.134 MIN	.040-.050	.024-.032	.021-.029
4	.181-.188	.202 MIN	.049-.060	.031-.039	.025-.036
6	.244-.250	.272 MIN	.080-.093	.039-.048	.033-.046
8	.244-.250	.272 MIN	.096-.110	.045-.054	.052-.066
10	.305-.312	.340 MIN	.105-.120	.050-.060	.057-.072
12	.305-.312	.340 MIN	.139-.155	.056-.067	.077-.093
1/4	.367-.375	.409 MIN	.172-.190	.064-.075	.083-.101

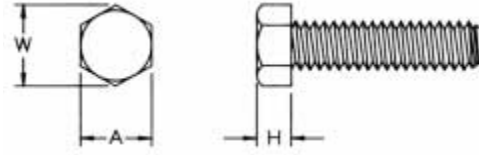
Nominal Screw Size	0000 thru 00	0 thru 12	1/4 thru 3/4
Nominal Screw Length	Tolerance on Length		
Up to 1/2 in., incl	-0.01	-0.02	-0.03
Over 1/2 to 1 in., incl	-0.02	-0.03	-0.03
Over 1 to 2 in., incl	-	-0.06	-0.06
Over 2 in.	-	-0.09	-0.09

HEX SLOTTED HEADSTYLE

PART NUMBER	THREAD	LENGTH	PART NUMBER	THREAD	LENGTH	PART NUMBER	THREAD	LENGTH	PART NUMBER	THREAD	LENGTH
010256X009	256	3/32	010440X137	440	1 3/8	010832X050	832	1/2	011032X200	1032	2
010256X012	256	1/8	010440X150	440	1 1/2	010832X062	832	5/8	012520X025	1/4-20	1/4
010256X015	256	5/32	010440X162	440	1 5/8	010832X075	832	3/4	012520X031	1/4-20	5/16
010256X018	256	3/16	010440X175	440	1 3/4	010832X087	832	7/8	012520X037	1/4-20	3/8
010256X025	256	1/4	010448X025	448	1/4	010832X100	832	1	012520X050	1/4-20	1/2
010256X028	256	9/32	010632X009	632	3/32	010832X112	832	1 1/8	012520X062	1/4-20	5/8
010256X031	256	5/16	010632X012	632	1/8	010832X125	832	1 1/4	012520X075	1/4-20	3/4
010256X037	256	3/8	010632X015	632	5/32	010832X137	832	1 3/8	012520X087	1/4-20	7/8
010256X039	256	25/64	010632X018	632	3/16	010832X150	832	1 1/2	012520X100	1/4-20	1
010256X043	256	7/16	010632X025	632	1/4	010832X175	832	1 3/4	012520X125	1/4-20	1 1/4
010256X050	256	1/2	010632X031	632	5/16	010832X187	832	1 7/8	012520X150	1/4-20	1 1/2
010256X056	256	9/16	010632X037	632	3/8	010832X200	832	2	012520X175	1/4-20	1 3/4
010256X062	256	5/8	010632X043	632	7/16	011024X012	1024	1/8	012520X200	1/4-20	2
010256X075	256	3/4	010632X050	632	1/2	011024X018	1024	3/16	012520X250	1/4-20	2 1/2
010256X087	256	7/8	010632X056	632	9/16	011024X025	1024	1/4	012528X018	1/4-28	3/16
010256X100	256	1	010632X062	632	5/8	011024X031	1024	5/16	012528X025	1/4-28	1/4
010256X112	256	1 1/8	010632X068	632	11/16	011024X037	1024	3/8	012528X037	1/4-28	3/8
010264X018	264	3/16	010632X075	632	3/4	011024X050	1024	1/2	012528X050	1/4-28	1/2
010264X037	264	3/8	010632X087	632	7/8	011024X062	1024	5/8	012528X062	1/4-28	5/8
010436X050	436	1/2	010632X100	632	1	011024X075	1024	3/4	012528X075	1/4-28	3/4
010440X009	440	3/32	010632X112	632	1 1/8	011024X100	1024	1	012528X100	1/4-28	1
010440X012	440	1/8	010632X125	632	1 1/4	011024X125	1024	1 1/4			
010440X014	440	9/64	010632X150	632	1 1/2	011024X150	1024	1 1/2			
010440X018	440	3/16	010632X162	632	1 5/8	011032X012	1032	1/8			
010440X025	440	1/4	010632X175	632	1 3/4	011032X018	1032	3/16			
010440X028	440	9/32	010632X187	632	1 7/8	011032X025	1032	1/4			
010440X031	440	5/16	010632X200	632	2	011032X031	1032	5/16			
010440X037	440	3/8	010632X225	632	2 1/4	011032X037	1032	3/8			
010440X043	440	7/16	010640X025	640	1/4	011032X043	1032	7/16			
010440X050	440	1/2	010640X037	640	3/8	011032X050	1032	1/2			
010440X056	440	9/16	010640X075	640	3/4	011032X062	1032	5/8			
010440X062	440	5/8	010640X100	640	1	011032X075	1032	3/4			
010440X068	440	11/16	010832X012	832	1/8	011032X081	1032	13/16			
010440X075	440	3/4	010832X018	832	3/16	011032X087	1032	7/8			
010440X087	440	7/8	010832X025	832	1/4	011032X100	1032	1			
010440X100	440	1	010832X028	832	9/32	011032X106	1032	1 1/16			
010440X112	440	1 1/8	010832X031	832	5/16	011032X125	1032	1 1/4			
010440X118	440	1 3/16	010832X037	832	3/8	011032X150	1032	1 1/2			
010440X125	440	1 1/4	010832X043	832	7/16	011032X175	1032	1 3/4			



SCREWS, BOLTS, AND THREADED ROD



HEX UNSLOTTED HEADSTYLE

THREAD SIZE	A	W	H
2	.120-.125	.134 min.	.040-.050
3	.181-.188	.202 min.	.044-.055
4	.181-.188	.202 min.	.049-.060
6	.244-.250	.272 min.	.080-.093
8	.244-.250	.272 min.	.096-.110
10	.305-.312	.340 min.	.105-.120
12	.305-.312	.340 min.	.139-.155
1/4	.367-.375	.409 min.	.172-.190

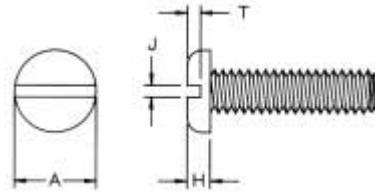
Nominal Screw Size	0000 thru 00	0 thru 12	1/4 thru 3/4
Nominal Screw Length	Tolerance on Length		
Up to 1/2 in., incl	-0.01	-0.02	-0.03
Over 1/2 to 1 in., incl	-0.02	-0.03	-0.03
Over 1 to 2 in., incl	-	-0.06	-0.06
Over 2 in.	-	-0.09	-0.09

PART NUMBER	THREAD	LENGTH	PART NUMBER	THREAD	LENGTH	PART NUMBER	THREAD	LENGTH	PART NUMBER	THREAD	LENGTH
010256H009	256	3/32	010440H056	440	9/16	010640H075	640	3/4	011032H062	1032	5/8
010256H012	256	1/8	010440H062	440	5/8	010640H100	640	1	011032H075	1032	3/4
010256H015	256	5/32	010440H068	440	11/16	010832H012	832	1/8	011032H081	1032	13/16
010256H018	256	3/16	010440H075	440	3/4	010832H018	832	3/16	011032H087	1032	7/8
010256H025	256	1/4	010440H087	440	7/8	010832H025	832	1/4	011032H100	1032	1
010256H028	256	9/32	010440H100	440	1	010832H028	832	9/32	011032H106	1032	1 1/16
010256H031	256	5/16	010440H112	440	1 1/8	010832H031	832	5/16	011032H125	1032	1 1/4
010256H037	256	3/8	010440H118	440	1 3/16	010832H037	832	3/8	011032H150	1032	1 1/2
010256H039	256	25/64	010440H125	440	1 1/4	010832H043	832	7/16	011032H175	1032	1 3/4
010256H043	256	7/16	010440H137	440	1 3/8	010832H050	832	1/2	011032H200	1032	2
010256H050	256	1/2	010440H150	440	1 1/2	010832H062	832	5/8	012520H025	1/4-20	1/4
010256H056	256	9/16	010440H162	440	1 5/8	010832H075	832	3/4	012520H031	1/4-20	5/16
010256H062	256	5/8	010440H175	440	1 3/4	010832H087	832	7/8	012520H037	1/4-20	3/8
010256H075	256	3/4	010448H025	448	1/4	010832H100	832	1	012520H050	1/4-20	1/2
010256H087	256	7/8	010632H009	632	3/32	010832H112	832	1 1/8	012520H062	1/4-20	5/8
010256H100	256	1	010632H012	632	1/8	010832H125	832	1 1/4	012520H075	1/4-20	3/4
010256H112	256	1 1/8	010632H015	632	5/32	010832H137	832	1 3/8	012520H087	1/4-20	7/8
010264H018	264	3/16	010632H018	632	3/16	010832H150	832	1 1/2	012520H100	1/4-20	1
010264H037	264	3/8	010632H025	632	1/4	010832H175	832	1 3/4	012520H125	1/4-20	1 1/4
010348H012	348	1/8	010632H031	632	5/16	010832H187	832	1 7/8	012520H150	1/4-20	1 1/2
010348H018	348	3/16	010632H037	632	3/8	010832H200	832	2	012520H175	1/4-20	1 3/4
010348H025	348	1/4	010632H043	632	7/16	011024H012	1024	1/8	012520H200	1/4-20	2
010348H031	348	5/16	010632H050	632	1/2	011024H018	1024	3/16	012520H250	1/4-20	2 1/2
010348H037	348	3/8	010632H056	632	9/16	011024H025	1024	1/4	012528H018	1/4-28	3/16
010348H043	348	7/16	010632H062	632	5/8	011024H031	1024	5/16	012528H025	1/4-28	1/4
010348H050	348	1/2	010632H068	632	11/16	011024H037	1024	3/8	012528H037	1/4-28	3/8
010348H075	348	3/4	010632H075	632	3/4	011024H050	1024	1/2	012528H062	1/4-28	5/8
010356H031	356	5/16	010632H087	632	7/8	011024H062	1024	5/8	012528H075	1/4-28	3/4
010436H050	436	1/2	010632H100	632	1	011024H075	1024	3/4	012528H100	1/4-28	1
010440H009	440	3/32	010632H112	632	1 1/8	011024H100	1024	1			
010440H012	440	1/8	010632H125	632	1 1/4	011024H125	1024	1 1/4			
010440H014	440	9/64	010632H150	632	1 1/2	011024H150	1024	1 1/2			
010440H018	440	3/16	010632H162	632	1 5/8	011032H012	1032	1/8			
010440H025	440	1/4	010632H175	632	1 3/4	011032H018	1032	3/16			
010440H028	440	9/32	010632H187	632	1 7/8	011032H025	1032	1/4			
010440H031	440	5/16	010632H200	632	2	011032H031	1032	5/16			
010440H037	440	3/8	010632H225	632	2 1/4	011032H037	1032	3/8			
010440H043	440	7/16	010640H025	640	1/4	011032H043	1032	7/16			
010440H050	440	1/2	010640H037	640	3/8	011032H050	1032	1/2			



SCREWS, BOLTS, AND THREADED ROD

SECTION II



THREAD SIZE	A	H	J	T
1	.130-.142	.038-.046	.019-.026	.018-.027
2	.155-.167	.045-.053	.023-.031	.022-.031
4	.205-.219	.058-.068	.031-.039	.030-.040
6	.256-.270	.072-.082	.039-.048	.037-.050
8	.306-.322	.085-.096	.045-.054	.045-.058
10	.357-.373	.099-.110	.050-.060	.053-.068
12	.407-.425	.112-.125	.056-.067	.061-.077
1/4	.473-.492	.130-.144	.064-.075	.070-.087
5/16	.594-.615	.162-.178	.072-.084	.085-.106

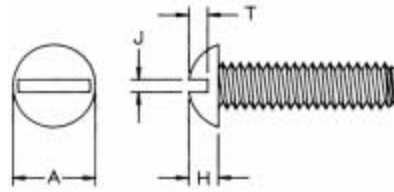
Nominal Screw Size	0000 thru 00	0 thru 12	1/4 thru 3/4
	Tolerance on Length		
Up to 1/2 in., incl	-0.01	-0.02	-0.03
Over 1/2 to 1 in., incl	-0.02	-0.03	-0.03
Over 1 to 2 in., incl	-	-0.06	-0.06
Over 2 in.	-	-0.09	-0.09

PAN SLOTTED HEADSTYLE

PART NUMBER	THREAD	LENGTH	PART NUMBER	THREAD	LENGTH	PART NUMBER	THREAD	LENGTH	PART NUMBER	THREAD	LENGTH
010164P025	164	1/4	010440P087	440	7/8	010832P025	832	1/4	011032P100	1032	1
010164P075	164	3/4	010440P100	440	1	010832P028	832	9/32	011032P106	1032	1 1/16
010172P025	172	1/4	010440P112	440	1 1/8	010832P031	832	5/16	011032P125	1032	1 1/4
010172P050	172	1/2	010440P118	440	1 3/16	010832P037	832	3/8	011032P150	1032	1 1/2
010256P006	256	1/16	010440P125	440	1 1/4	010832P043	832	7/16	011032P175	1032	1 3/4
010256P009	256	3/32	010440P137	440	1 3/8	010832P050	832	1/2	011032P200	1032	2
010256P012	256	1/8	010440P150	440	1 1/2	010832P062	832	5/8	012520P025	1/4-20	1/4
010256P015	256	5/32	010440P162	440	1 5/8	010832P075	832	3/4	012520P031	1/4-20	5/16
010256P018	256	3/16	010440P175	440	1 3/4	010832P087	832	7/8	012520P037	1/4-20	3/8
010256P025	256	1/4	010448P025	448	1/4	010832P100	832	1	012520P050	1/4-20	1/2
010256P028	256	9/32	010632P009	632	3/32	010832P112	832	1 1/8	012520P062	1/4-20	5/8
010256P031	256	5/16	010632P012	632	1/8	010832P125	832	1 1/4	012520P075	1/4-20	3/4
010256P037	256	3/8	010632P015	632	5/32	010832P137	832	1 3/8	012520P087	1/4-20	7/8
010256P039	256	25/64	010632P018	632	3/16	010832P150	832	1 1/2	012520P100	1/4-20	1
010256P043	256	7/16	010632P025	632	1/4	010832P175	832	1 3/4	012520P125	1/4-20	1 1/4
010256P050	256	1/2	010632P031	632	5/16	010832P187	832	1 7/8	012520P150	1/4-20	1 1/2
010256P056	256	9/16	010632P037	632	3/8	010832P200	832	2	012520P175	1/4-20	1 3/4
010256P062	256	5/8	010632P043	632	7/16	011024P012	1024	1/8	012520P200	1/4-20	2
010256P075	256	3/4	010632P050	632	1/2	011024P018	1024	3/16	012520P250	1/4-20	2 1/2
010256P087	256	7/8	010632P056	632	9/16	011024P025	1024	1/4	012528P018	1/4-28	3/16
010256P100	256	1	010632P062	632	5/8	011024P031	1024	5/16	012528P025	1/4-28	1/4
010256P112	256	1 1/8	010632P068	632	11/16	011024P037	1024	3/8	012528P037	1/4-28	3/8
010264P018	264	3/16	010632P075	632	3/4	011024P050	1024	1/2	012528P062	1/4-28	5/8
010264P037	264	3/8	010632P087	632	7/8	011024P062	1024	5/8	012528P075	1/4-28	3/4
010436P050	436	1/2	010632P100	632	1	011024P075	1024	3/4	012528P100	1/4-28	1
010440P009	440	3/32	010632P112	632	1 1/8	011024P100	1024	1	0131218P087	5/16-18	7/8
010440P012	440	1/8	010632P125	632	1 1/4	011024P125	1024	1 1/4			
010440P014	440	9/64	010632P150	632	1 1/2	011024P150	1024	1 1/2			
010440P018	440	3/16	010632P162	632	1 5/8	011032P012	1032	1/8			
010440P025	440	1/4	010632P175	632	1 3/4	011032P018	1032	3/16			
010440P028	440	9/32	001632P187	632	1 7/8	011032P025	1032	1/4			
010440P031	440	5/16	010632P200	632	2	011032P031	1032	5/16			
010440P037	440	3/8	010632P225	632	2 1/4	011032P037	1032	3/8			
010440P043	440	7/16	010640P025	640	1/4	011032P043	1032	7/16			
010440P050	440	1/2	010640P037	640	3/8	011032P050	1032	1/2			
010440P056	440	9/16	010640P075	640	3/4	011032P062	1032	5/8			
010440P062	440	5/8	010640P100	640	1	011032P075	1032	3/4			
010440P068	440	11/16	010832P012	832	1/8	011032P081	1032	3/16			
010440P075	440	3/4	010832P018	832	3/16	011032P087	1032	7/8			



SCREWS, BOLTS, AND THREADED ROD



ROUND SLOTTED HEADSTYLE

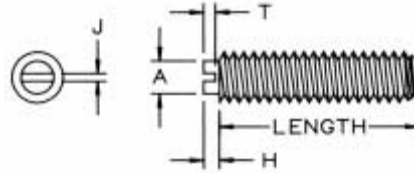
THREAD SIZE	A	H	J	T
1	.122-.138	.051-.061	.019-.026	.033-.044
2	.146-.162	.059-.069	.023-.031	.037-.048
3	.169-.187	.067-.078	.027-.035	.040-.053
4	.193-.211	.075-.086	.031-.039	.044-.058
5	.217-.236	.083-.095	.035-.043	.047-.063
6	.240-.260	.091-.103	.039-.048	.051-.068
8	.287-.309	.107-.120	.045-.054	.058-.077
10	.334-.359	.123-.137	.050-.060	.065-.087
12	.382-.408	.139-.153	.056-.067	.073-.096
1/4	.443-.472	.160-.175	.064-.075	.082-.109

Nominal Screw Size	0000 thru 00	0 thru 12	1/4 thru 3/4
Nominal Screw Length	Tolerance on Length		
Up to 1/2 in., incl	-0.01	-0.02	-0.03
Over 1/2 to 1 in., incl	-0.02	-0.03	-0.03
Over 1 to 2 in., incl	-	-0.06	-0.06
Over 2 in.	-	-0.09	-0.09

PART NUMBER	THREAD	LENGTH	PART NUMBER	THREAD	LENGTH	PART NUMBER	THREAD	LENGTH	PART NUMBER	THREAD	LENGTH
010164R025	164	1/4	010440R031	440	5/16	010632R187	632	1 7/8	011032R025	1032	1/4
010164R075	164	3/4	010440R037	440	3/8	010632R200	632	2	011032R031	1032	5/16
010172R025	172	1/4	010440R043	440	7/16	010632R225	632	2 1/4	011032R037	1032	3/8
010172R050	172	1/2	010440R050	440	1/2	010640R025	640	1/4	011032R043	1032	7/16
010256R006	256	1/16	010440R056	440	9/16	010640R037	640	3/8	011032R050	1032	1/2
010256R009	256	3/32	010440R062	440	5/8	010640R075	640	3/4	011032R062	1032	5/8
010256R012	256	1/8	010440R068	440	11/16	010640R100	640	1	011032R075	1032	3/4
010256R015	256	5/32	010440R075	440	3/4	010832R012	832	1/8	011032R081	1032	13/16
010256R018	256	3/16	010440R087	440	7/8	010832R018	832	3/16	011032R087	1032	7/8
010256R025	256	1/4	010440R100	440	1	010832R025	832	1/4	011032R100	1032	1
010256R028	256	9/32	010440R112	440	1 1/8	010832R028	832	9/32	011032R106	1032	1 1/16
010256R031	256	5/16	010440R118	440	1 3/16	010832R031	832	5/16	011032R125	1032	1 1/4
010256R037	256	3/8	010440R125	440	1 1/4	010832R037	832	3/8	011032R150	1032	1 1/2
010256R043	256	7/16	010440R137	440	1 3/8	010832R043	832	7/16	011032R175	1032	1 3/4
010256R050	256	1/2	010440R150	440	1 1/2	010832R050	832	1/2	011032R200	1032	2
010256R056	256	9/16	010440R162	440	1 5/8	010832R062	832	5/8	012520R025	1/4-20	1/4
010256R062	256	5/8	010440R175	440	1 3/4	010832R075	832	3/4	012520R031	1/4-20	5/16
010256R075	256	3/4	010448R025	448	1/4	010832R087	832	7/8	012520R037	1/4-20	3/8
010256R087	256	7/8	010540R050	540	1/2	010832R100	832	1	012520R050	1/4-20	1/2
010256R100	256	1	010632R009	632	3/32	010832R112	832	1 1/8	012520R062	1/4-20	5/8
010256R112	256	1 1/8	010632R012	632	1/8	010832R125	832	1 1/4	012520R075	1/4-20	3/4
010264R018	264	3/16	010632R015	632	5/32	010832R137	832	1 3/8	012520R087	1/4-20	7/8
010264R037	264	3/8	010632R018	632	3/16	010832R150	832	1 1/2	012520R100	1/4-20	1
010348R012	348	1/8	010632R025	632	1/4	010832R175	832	1 3/4	012520R125	1/4-20	1 1/4
010348R018	348	3/16	010632R031	632	5/16	010832R187	832	1 7/8	012520R150	1/4-20	1 1/2
010348R025	348	1/4	010632R037	632	3/8	010832R200	832	2	012520R175	1/4-20	1 3/4
010348R031	348	5/16	010632R043	632	7/16	011024R012	1024	1/8	012520R200	1/4-20	2
010348R037	348	3/8	010632R050	632	1/2	011024R018	1024	3/16	012520R250	1/4-20	2 1/2
010348R043	348	7/16	010632R056	632	9/16	011024R025	1024	1/4	012520R300	1/4-20	3
010348R050	348	1/2	010632R062	632	5/8	011024R031	1024	5/16	012528R018	1/4-28	3/16
010348R075	348	3/4	010632R068	632	11/16	011024R037	1024	3/8	012528R025	1/4-28	1/4
010356R031	356	5/16	010632R075	632	3/4	011024R050	1024	1/2	012528R037	1/4-28	3/8
010436P050	436	1/2	010632R087	632	7/8	011024R062	1024	5/8	012528R062	1/4-28	5/8
010440R009	440	3/32	010632R100	632	1	011024R075	1024	3/4	012528R075	1/4-28	3/4
010440R012	440	1/8	010632R112	632	1 1/8	011024R100	1024	1	012528R100	1/4-28	1
010440R014	440	9/64	010632R125	632	1 1/4	011024R125	1024	1 1/4			
010440R018	440	3/16	010632R150	632	1 1/2	011024R150	1024	1 1/2			
010440R025	440	1/4	010632R162	632	1 5/8	011032R012	1032	1/8			
010440R028	440	9/32	010632R175	632	1 3/4	011032R018	1032	3/16			

SCREWS, BOLTS, AND THREADED ROD

SECTION II



SET SLOTTED HEADSTYLE

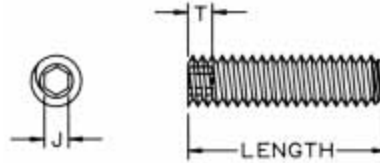
THREAD SIZE	A	H	J	T
2	.055	.035	.018	.020
4	.075	.045	.020	.025
6	.100	.055	.025	.030
8	.120	.055	.028	.035
10	.150	.060	.035	.050
1/4	.175	.080	.040	.060
5/16	.246	.078	.051	.078

Nominal Screw Size	0000 thru 00	0 thru 12	1/4 thru 3/4
Nominal Screw Length	Tolerance on Length		
Up to 1/2 in., incl	-0.01	-0.02	-0.03
Over 1/2 to 1 in., incl	-0.02	-0.03	-0.03
Over 1 to 2 in., incl	-	-0.06	-0.06
Over 2 in.	-	-0.09	-0.09

PART NUMBER	THREAD	LENGTH	PART NUMBER	THREAD	LENGTH	PART NUMBER	THREAD	LENGTH	PART NUMBER	THREAD	LENGTH
010256S006	256	1/16	010440S125	440	1 1/4	010832S043	832	7/16	011032S200	1032	2
010256S009	256	3/32	010440S137	440	1 3/8	010832S050	832	1/2	012520S025	1/4-20	1/4
010256S012	256	1/8	010440S150	440	1 1/2	010832S062	832	5/8	012520S031	1/4-20	5/16
010256S015	256	5/32	010440S162	440	1 5/8	010832S075	832	3/4	012520S037	1/4-20	3/8
010256S018	256	3/16	010440S175	440	1 3/4	010832S087	832	7/8	012520S050	1/4-20	1/2
010256S025	256	1/4	010448S025	448	1/4	010832S100	832	1	012520S062	1/4-20	5/8
010256S028	256	9/32	010632S009	632	3/32	010832S112	832	1 1/8	012520S075	1/4-20	3/4
010256S031	256	5/16	010632S012	632	1/8	010832S125	832	1 1/4	012520S087	1/4-20	7/8
010256S037	256	3/8	010632S015	632	5/32	010832S137	832	1 3/8	012520S100	1/4-20	1
010256S043	256	7/16	010632S018	632	3/16	010832S150	832	1 1/2	012520S125	1/4-20	1 1/4
010256S050	256	1/2	010632S025	632	1/4	010832S175	832	1 3/4	012520S150	1/4-20	1 1/2
010256S056	256	9/16	010632S031	632	5/16	010832S187	832	1 7/8	012520S175	1/4-20	1 3/4
010256S062	256	5/8	010632S037	632	3/8	010832S200	832	2	012520S200	1/4-20	2
010256S075	256	3/4	010632S043	632	7/16	011024S012	1024	1/8	012520S250	1/4-20	2 1/2
010256S087	256	7/8	010632S050	632	1/2	011024S018	1024	3/16	012528S018	1/4-28	3/16
010256S100	256	1	010632S056	632	9/16	011024S025	1024	1/4	012528S025	1/4-28	1/4
010256S112	256	1 1/8	010632S062	632	5/8	011024S031	1024	5/16	012528S037	1/4-28	3/8
010264S018	264	3/16	010632S068	632	11/16	011024S037	1024	3/8	012528S062	1/4-28	5/8
010264S037	264	3/8	010632S075	632	3/4	011024S050	1024	1/2	012528S075	1/4-28	3/4
010436B050	436	1/2	010632S087	632	7/8	011024S062	1024	5/8	012528S100	1/4-28	1
010440S009	440	3/32	010632S100	632	1	011024S075	1024	3/4	0137524S031*	3/8-24	5/16
010440S012	440	1/8	010632S112	632	1 1/8	011024S100	1024	1	0131224S081	5/16-24	13/16
010440S014	440	9/64	010632S125	632	1 1/4	011024S125	1024	1 1/4	*SLOT IS IN THREADS		
010440S015	440	5/32	010632S150	632	1 1/2	011024S150	1024	1 1/2			
010440S018	440	3/16	010632S162	632	1 5/8	011032S012	1032	1/8			
010440S025	440	1/4	010632S175	632	1 3/4	011032S018	1032	3/16			
010440S028	440	9/32	010632S187	632	1 7/8	011032S025	1032	1/4			
010440S031	440	5/16	010632S200	632	2	011032S031	1032	5/16			
010440S038	440	3/8	016932S255	632	2 1/4	011032S037	1032	3/8			
010440S043	440	7/16	010640S025	640	1/4	011032S050	1032	1/2			
010440S050	440	1/2	010640S037	640	3/8	011032S062	1032	5/8			
010440S056	440	9/16	010640S075	640	3/4	011032S075	1032	3/4			
010440S062	440	5/8	010640S100	640	1	011032S081	1032	13/16			
010440S068	440	11/16	010832S012	832	1/8	011032S087	1032	7/8			
010440S075	440	3/4	010832S018	832	3/16	011032S100	1032	1			
010440S087	440	7/8	010832S025	832	1/4	011032S106	1032	1 1/16			
010440S100	440	1	010832S028	832	9/32	011032S125	1032	1 1/4			
010440S112	440	1 1/8	010832S031	832	5/16	011032S150	1032	1 1/2			
010440S118	440	1 3/16	010832S037	832	3/8	011032S175	1032	1 3/4			



SCREWS, BOLTS, AND THREADED ROD



SOCKET SET

HEADSTYLE

THREAD SIZE	J	T	THREAD SIZE	J	T
4	.050	.070	5/16	.156	.156
6	.062	.080	3/8	.188	.188
8	.078	.090	1/2	.250	.250
10	.094	.100	5/8	.312	.312
1/4	.125	.125	3/4	.370	.185

Nominal Screw Length, in.	Tolerance on Length
Up to 0.63, incl	+/- 0.01
Over 0.63 to 2.00, incl	+/- 0.02
Over 2.00 to 6.00, incl	+/- 0.03
Over 6.00	+/- 0.06

PART NUMBER	THREAD	LENGTH	PART NUMBER	THREAD	LENGTH	PART NUMBER	THREAD	LENGTH	PART NUMBER	THREAD	LENGTH
010436T050	436	1/2	010632T087	632	7/8	011024T062	1024	5/8	012528T075	1/4-28	3/4
010440T009	440	3/32	010632T100	632	1	011024T075	1024	3/4	012528T100	1/4-28	1
010440T012	440	1/8	010632T112	632	1 1/8	011024T100	1024	1	0131218T050	5/16-18	1/2
010440T014	440	9/64	010632T125	632	1 1/4	011024T125	1024	1 1/4	0131218T075	5/16-18	3/4
010440T015	440	5/32	010632T150	632	1 1/2	011024T150	1024	1 1/2	0131218T100	5/16-18	1
010440T018	440	3/16	010632T162	632	1 5/8	011032T012	1032	1/8	0137516T050	3/8-16	1/2
010440T025	440	1/4	010632T175	632	1 3/4	011032T018	1032	3/16	0137516T075	3/8-16	3/4
010440T028	440	9/32	010632T187	632	1 7/8	011032T025	1032	1/4	0137516T100	3/8-16	1
010440T031	440	5/16	010632T200	632	2	011032T031	1032	5/16	0150013T050	1/2-13	1/2
010440T037	440	3/8	010632T225	632	2 1/4	011032T037	1032	3/8	0150013T075	1/2-13	3/4
010440T043	440	7/16	010640T025	640	1/4	011032T043	1032	7/16	0150013T100	1/2-13	1
010440T050	440	1/2	010640T037	640	3/8	011032T050	1032	1/2	0150013T125	1/2-13	1 1/4
010440T056	440	9/16	010640T075	640	3/4	011032T062	1032	5/8	0162511T050	5/8-11	1/2
010440T062	440	5/8	010640T100	640	1	011032T075	1032	3/4	0162511T075	5/8-11	3/4
010440T068	440	11/16	010832T012	832	1/8	011032T081	1032	13/16	0162511T100	5/8-11	1
010440T075	440	3/4	010832T018	832	3/16	011032T087	1032	7/8	0162511T150	5/8-11	1 1/2
010440T087	440	7/8	010832T025	832	1/4	011032T100	1032	1	0175010T025	3/4-10	1/4
010440T100	440	1	010832T028	832	9/32	011032T106	1032	1 1/16			
010440T112	440	1 1/8	010832T031	832	5/16	011032T125	1032	1 1/4			
010440T118	440	1 3/16	010832T037	832	3/8	011032T150	1032	1 1/2			
010440T125	440	1 1/4	010832T043	832	7/16	011032T175	1032	1 3/4			
010440T137	440	1 3/8	010832T050	832	1/2	011032T200	1032	2			
010440T150	440	1 1/2	010832T062	832	5/8	012520T025	1/4-20	1/4			
010440T162	440	1 5/8	010832T075	832	3/4	012520T031	1/4-20	5/16			
010440T175	440	1 3/4	010832T087	832	7/8	012520T037	1/4-20	3/8			
010448T025	448	1/4	010832T100	832	1	012520T050	1/4-20	1/2			
010632T009	632	3/32	010832T112	832	1 1/8	012520T062	1/4-20	5/8			
010632T012	632	1/8	010832T125	832	1 1/4	012520T075	1/4-20	3/4			
010632T015	632	5/32	010832T137	832	1 3/8	012520T087	1/4-20	7/8			
010632T018	632	3/16	010832T150	832	1/2	012520T100	1/4-20	1			
010632T025	632	1/4	010832T175	832	1 3/4	012520T125	1/4-20	1 1/4			
010632T031	632	5/16	010832T187	832	1 7/8	012520T150	1/4-20	1 1/2			
010632T037	632	3/8	010832T200	832	2	012520T175	1/4-20	1 3/4			
010632T043	632	7/16	011024T012	1024	1/8	012520T200	1/4-20	2			
010632T050	632	1/2	011024T018	1024	3/16	012520T250	1/4-20	2 1/2			
010632T056	632	9/16	011024T025	1024	1/4	012528T018	1/4-28	3/16			
010632T062	632	5/8	011024T031	1024	5/16	012528T025	1/4-28	1/4			
010632T068	632	11/16	011024T037	1024	3/8	012528T037	1/4-28	3/8			
010632T075	632	3/4	011024T050	1024	1/2	012528T062	1/4-28	5/8			

Due to the small head style, the longer lengths offered may not support the normal torque required for a Set Screw.

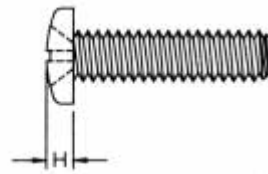
We recommend that you test samples prior to production purchases.

NOTE: LONG SLOTTED SET SCREWS
256-632 OVER 1/2"
832-1/4-20 OVER 3/4"



SCREWS, BOLTS, AND THREADED ROD

SECTION II



THREAD SIZE	A	H
2	.155 - .167	.053 - .062
4	.205 - .219	.070 - .080
6	.256 - .270	.087 - .097
8	.306 - .322	.105 - .115
10	.357 - .373	.122 - .133
12	.407 - .425	.139 - .151
1/4	.473 - .492	.162 - .175

Nominal Screw Size	0000 thru 00	0 thru 12	1/4 thru 3/4
Nominal Screw Length	Tolerance on Length		
Up to 1/2 in., incl	-0.01	-0.02	-0.03
Over 1/2 in., incl	-0.02	-0.03	-0.03
Over 1 to 2 in., incl	-	-0.06	-0.06
Over 2 in.	-	-0.09	-0.09

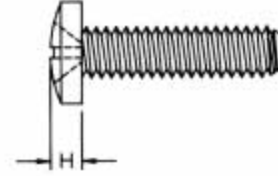
PHILLIPS PAN

HEADSTYLE

PART NUMBER	THREAD	LENGTH	PART NUMBER	THREAD	LENGTH	PART NUMBER	THREAD	LENGTH	PART NUMBER	THREAD	LENGTH
010256W006	256	1/16	010440W125	440	1 1/4	010832W037	832	3/8	011032W150	1032	1 1/2
010256W009	256	3/32	010440W137	440	1 3/8	010832W043	832	7/16	011032W175	1032	1 3/4
010256W012	256	1/8	010440W150	440	1 1/2	010832W050	832	1/2	011032W200	1032	2
010256W015	256	5/32	010440W162	440	1 5/8	010832W062	832	5/8			
010256W018	256	3/16	010440W175	440	1 3/4	010832W075	832	3/4			
010256W025	256	1/4	010448W015	448	5/32	010832W087	832	7/8			
010256W028	256	9/32	010448W025	448	1/4	010832W100	832	1			
010256W031	256	5/16	010448W031	448	5/16	010832W112	832	1 1/8			
010256W037	256	3/8	010632W009	632	3/32	010832W125	832	1 1/4			
010256W039	256	25/64	010632W012	632	1/8	010832W137	832	1 3/8			
010256W043	256	7/16	010632W015	632	5/32	010832W150	832	1 1/2			
010256W050	256	1/2	010632W018	632	3/16	010832W175	832	1 3/4			
010256W056	256	9/16	010632W025	632	1/4	010832W187	832	1 7/8			
010256W062	256	5/8	010632W031	632	5/16	010832W200	832	2			
010256W075	256	3/4	010632W037	632	3/8	011024W012	1024	1/8			
010256W087	256	7/8	010632W043	632	7/16	011024W018	1024	3/16			
010256W100	256	1	010632W050	632	1/2	011024W025	1024	1/4			
010256W112	256	1 1/8	010632W056	632	9/16	011024W031	1024	5/16			
010264W018	264	3/16	010632W062	632	5/8	011024W037	1024	3/8			
010264W037	264	3/8	010632W068	632	11/16	011024W050	1024	1/2			
010436W050	436	1/2	010632W075	632	3/4	011024W062	1024	5/8			
010440W009	440	3/32	010632W087	632	7/8	011024W075	1024	3/4			
010440W012	440	1/8	010632W100	632	1	011024W100	1024	1			
010440W014	440	9/64	010632W112	632	1 1/8	011024W125	1024	1 1/4			
010440W018	440	3/16	010632W125	632	1 1/4	011024W150	1024	1 1/2			
010440W025	440	1/4	010632W150	632	1 1/2	011032W012	1032	1/8			
010440W028	440	9/32	010632W162	632	1 5/8	011032W018	1032	3/16			
010440W031	440	5/16	010632W175	632	1 3/4	011032W025	1032	1/4			
010440W037	440	3/8	010632W187	632	1 7/8	011032W031	1032	5/16			
010440W043	440	7/16	010632W200	632	2	011032W037	1032	3/8			
010440W050	440	1/2	010640W025	640	1/4	011032W043	1032	7/16			
010440W056	440	9/16	010640W037	640	3/8	011032W050	1032	1/2			
010440W062	440	5/8	010640W075	640	3/4	011032W062	1032	5/8			
010440W068	440	11/16	010640W100	640	1	011032W075	1032	3/4			
010440W075	440	3/4	010832W012	832	1/8	011032W081	1032	13/16			
010440W087	440	7/8	010832W018	832	3/16	011032W087	1032	7/8			
010440W100	440	1	010832W025	832	1/4	011032W100	1032	1			
010440W112	440	1 1/8	010832W028	832	9/32	011032W106	1032	1 1/16			
010440W118	440	1 3/16	010832W031	832	5/16	011032W125	1032	1 1/4			



SCREWS, BOLTS, AND THREADED ROD



PHILLIPS BINDER HEADSTYLE

THREAD SIZE	A	H
2	.171 - .181	.043 - .050
4	.223 - .235	.061 - .068
6	.275 - .290	.078 - .087
8	.326 - .344	.095 - .105
10	.378 - .399	.112 - .123
12	.430 - .454	.130 - .141
1/4	.498 - .525	.152 - .165

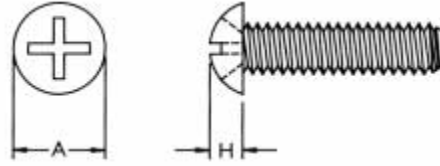
Nominal Screw Size	0000	0	1/4
	thru 00	thru 12	thru 3/4
Nominal Screw Length	Tolerance on Length		
Up to 1/2 in., incl	-0.01	-0.02	-0.03
Over 1/2 TO 1 in., incl	-0.02	-0.03	-0.03
Over 1 to 2 in., incl	-	-0.06	-0.06
Over 2 in.	-	-0.09	-0.09

PART NUMBER	THREAD	LENGTH	PART NUMBER	THREAD	LENGTH	PART NUMBER	THREAD	LENGTH
010436WB050	436	1/2	010832WB125	832	1 1/4	012520WB075	1/4-20	3/4
010440WB009	440	3/32	010832WB137	832	1 3/8	012520WB087	1/4-20	7/8
010440WB012	440	1/8	010832WB150	832	1 1/2	012520WB100	1/4-20	1
010440WB014	440	9/64	010832WB175	832	1 3/4	012520WB125	1/4-20	1 1/4
010440WB018	440	3/16	010832WB187	832	1 7/8	012520WB150	1/4-20	1 1/2
010440WB025	440	1/4	010832WB200	832	2	012520WB175	1/4-20	1 3/4
010440WB028	440	9/32	011024WB012	1024	1/8	012520WB200	1/4-20	2
010440WB031	440	5/16	011024WB018	1024	3/16	012520WB250	1/4-20	2 1/2
010440WB037	440	3/8	011024WB025	1024	1/4	012528WB018	1/4-28	3/16
010440WB043	440	7/16	011024WB031	1024	5/16	012528WB037	1/4-28	3/8
010440WB050	440	1/2	011024WB037	1024	3/8	012528WB062	1/4-28	5/8
010440WB056	440	9/16	011024WB050	1024	1/2	012528WB075	1/4-28	3/4
010440WB062	440	5/8	011024WB062	1024	5/8	012528WB100	1/4-28	1
010440WB068	440	11/16	011024WB075	1024	3/4			
010440WB075	440	3/4	011024WB100	1024	1			
010440WB087	440	7/8	011024WB125	1024	1 1/4			
010440WB100	440	1	011024WB150	1024	1 1/2			
010440WB112	440	1 1/8	011032WB012	1032	1/8			
010440WB118	440	1 3/16	011032WB018	1032	3/16			
010440WB125	440	1 1/4	011032WB025	1032	1/4			
010440WB137	440	1 3/8	011032WB031	1032	5/16			
010440WB150	440	1 1/2	011032WB037	1032	3/8			
010440WB162	440	1 5/8	011032WB043	1032	7/16			
010440WB175	440	1 3/4	011032WB050	1032	1/2			
010448WB015	448	5/32	011032WB062	1032	5/8			
010448WB025	448	1/4	011032WB075	1032	3/4			
010832WB012	832	1/8	011032WB081	1032	13/16			
010832WB018	832	3/16	011032WB087	1032	7/8			
010832WB025	832	1/4	011032WB100	1032	1			
010832WB028	832	9/32	011032WB106	1032	1/16			
010832WB031	832	5/16	011032WB125	1032	1/4			
010832WB037	832	3/8	011032WB150	1032	1 1/2			
010832WB043	832	7/16	011032WB175	1032	1 3/4			
010832WB050	832	1/2	011032WB200	1032	2			
010832WB062	832	5/8	012520WB025	1/4-20	1/4			
010832WB075	832	3/4	012520WB031	1/4-20	5/16			
010832WB087	832	7/8	012520WB037	1/4-20	3/8			
010832WB100	832	1	012520WB050	1/4-20	1/2			
010832WB112	832	1 1/8	012520WB062	1/4-20	5/8			



SCREWS, BOLTS, AND THREADED ROD

SECTION
II



THREAD SIZE	A	H
1	.122-.138	.051-.061
2	.146-.162	.059-.069
3	.169-.187	.067-.078
4	.193-.211	.075-.086
6	.240-.260	.091-.103
8	.287-.309	.107-.120
10	.334-.359	.123-.137
12	.382-.408	.139-.153
1/4	.443-.472	.160-.175

Nominal Screw Size	0000 thru 00	0 thru 12	1/4 thru 3/4
Nominal Screw Length	Tolerance on Length		
Up to 1/2 in., incl	-0.01	-0.02	-0.03
Over 1/2 to 1 in., incl	-0.02	-0.03	-0.03
Over 1 to 2 in., incl	-	-0.06	-0.06
Over 2 in.	-	-0.09	-0.06

PHILLIPS ROUND HEADSTYLE

PART NUMBER	THREAD	LENGTH	PART NUMBER	THREAD	LENGTH	PART NUMBER	THREAD	LENGTH	PART NUMBER	THREAD	LENGTH
010632WR009	632	3/32	010632WR068	632	11/16	010632WR225	632	2 1/4	011024WR062	1024	5/8
010632WR012	632	1/8	010632WR075	632	3/4	010640WR025	640	1/4	011024WR075	1024	3/4
010632WR015	632	5/32	010632WR087	632	7/8	010640WR037	640	3/8	011024WR100	1024	1
010632WR018	632	3/16	010632WR100	632	1	010640WR075	640	3/4	011024WR125	1024	1 1/4
010632WR025	632	1/4	010632WR112	632	1 1/8	010640WR100	640	1	011024WR150	1024	1 1/2
010632WR031	632	5/16	010632WR125	632	1 1/4	011024WR012	1024	1/8	011032WR012	1032	1/8
010632WR037	632	3/8	010632WR150	632	1 1/2	011024WR018	1024	3/16	011032WR018	1032	3/16
010632WR043	632	7/16	010632WR162	632	1 5/8	011024WR02	1024	1/4	011032WR025	1032	1/4
010632WR050	632	1/2	010632WR175	632	1 3/4	011024WR031	1024	5/16	011032WR031	1032	5/16
010632WR056	632	9/16	010632WR187	632	1 7/8	011024WR037	1024	3/8	011032WR037	1032	3/8
010632WR062	632	5/8	010632WR200	632	2	011024WR050	1024	1/2	011032WR043	1032	7/16

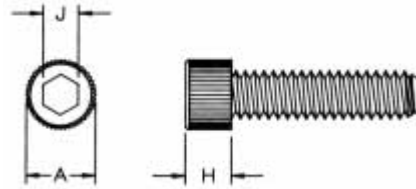


ITEM NUMBER - 04AS0750MSN
Machine Screw and Nut Assortment



ITEM NUMBER - 04AS0305MCS
Metal Core Screw Assortment

SCREWS, BOLTS, AND THREADED ROD



HEX SOCKET CAP

THREAD SIZE	A	H	J	Key Engagement Min.
2	.134-.140	.083-.086	5/64"	.038
4	.176-.183	.108-.112	3/32"	.051
6	.218-.226	.134-.138	7/64"	.064
8	.262-.270	.159-.164	9/64"	.077
10	.303-.312	.185-.190	5/32"	.090
1/4	.365-.375	.244-.250	3/16"	.120
5/16	.457-.469	.306-.312	1/4"	.151
3/8	.550-.562	.368-.375	5/16"	.182
1/2	.735-.750	.492-.500	3/8"	.245
5/8	.921-.938	.616-.625	1/2"	.307

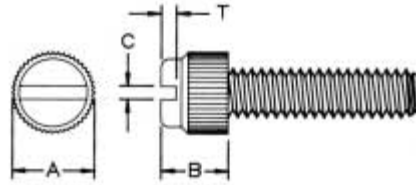
Nominal Screw Size	0 thru 3/8	7/16 thru 3/4	7/8 thru 1 1/2	Over 1 1/2
	incl	incl	incl	
Nominal Screw Length, in		Tolerance on Length		
Up to 1.00, incl	-0.03	-0.03	-0.05	. . .
Over 1.00 to 2.50, incl	-0.04	-0.06	-0.10	-0.18
Over 2.50 to 6.00, incl	-0.06	-0.08	-0.14	-0.20
Over 6.00	-0.12	-0.12	-0.20	-0.24

PART NUMBER	THREAD	LENGTH	PART NUMBER	THREAD	LENGTH	PART NUMBER	THREAD	LENGTH	PART NUMBER	THREAD	LENGTH
3404360050	436	1/2	3406320187	632	1 7/8	3410320037	1032	3/8	3431218300	5/16-18	3 *
3404400009	440	3/32	3406320225	632	2 1/4	3410320050	1032	1/2	3437516050	3/8-16	1/2
3404400012	440	1/8	3406400025	640	1/4	3410320062	1032	5/8	3437516075	3/8-16	3/4
3404400014	440	9/64	3406400037	640	3/8	3410320075	1032	3/4	3437516100	3/8-16	1
3404400018	440	3/16	3406400075	640	3/4	3410320081	1032	13/16	3437516125	3/8-16	1 1/4 *
3404400025	440	1/4	3406400100	640	1	3410320087	1032	7/8	3437516150	3/8-16	1 1/2 *
3404400028	440	9/32	3408320012	832	1/8	3410320100	1032	1	3437516200	3/8-16	2 *
3404400031	440	5/16	3408320018	832	3/16	3410320106	1032	1 1/16	3437516250	3/8-16	2 1/2 *
3404400037	440	3/8	3408320028	832	9/32	3410320125	1032	1 1/4	3437516300	3/8-16	3 *
3404400043	440	7/16	3408320025	832	1/4	3410320150	1032	1 1/2	3450013050	1/2-13	1/2
3404400050	440	1/2	3408320031	832	5/16	3410320200	1032	2	3450013075	1/2-13	3/4
3404400056	440	9/16	3408320037	832	3/8	3425200018	1/4-20	3/16	3450013100	1/2-13	1
3404400062	440	5/8	3408320043	832	7/16	3425200031	1/4-20	5/16	3450013125	1/2-13	1 1/4 *
3404400068	440	11/16	3408320050	832	1/2	3425200037	1/4-20	3/8	3450013150	1/2-13	1 1/2 *
3404400075	440	3/4	3408320062	832	5/8	3425200050	1/4-20	1/2	3450013200	1/2-13	2 *
3404400087	440	7/8	3408320075	832	3/4	3425200062	1/4-20	5/8	3450013250	1/2-13	2 1/2 *
3404400100	440	1	3408320087	832	7/8	3425200075	1/4-20	3/4	3450013300	1/2-13	3 *
3404400112	440	1 1/8	3408320100	832	1	3425200087	1/4-20	7/8	3462511050	5/8-11	1/2
3404400125	440	1 1/4	3408320112	832	1 1/8	3425200100	1/4-20	1	3462511075	5/8-11	3/4
3404400137	440	1 3/8	3408320125	832	1 1/4	3425200125	1/4-20	1 1/4	3462511100	5/8-11	1
3404400150	440	1 1/2	3408320137	832	1 3/8	3425200150	1/4-20	1 1/2	3462511150	5/8-11	1 1/2
3406320009	632	3/32	3408320150	832	1 1/2	3425200175	1/4-20	1 3/4	3462511200	5/8-11	2
3406320012	632	1/8	3408320175	832	1 3/4	3425200200	1/4-20	2	3462511250	5/8-11	2 1/2
3406320015	632	5/32	3408320200	832	2	3425200225	1/4-20	2 1/4 *	3462511300	5/8-11	3
3406320018	632	3/16	3410240012	1024	1/8	3425200250	1/4-20	2 1/2 *	*NOT FULL THREAD		
3406320025	632	1/4	3410240018	1024	3/16	3425200250FT	1/4-20	2 1/2			
3406320031	632	5/16	3410240025	1024	1/4	3425280018	1/4-28	3/16			
3406320037	632	3/8	3410240031	1024	5/16	3425280025	1/4-28	1/4			
3406320043	632	7/16	3410240037	1024	3/8	3425280037	1/4-28	3/8			
3406320050	632	1/2	3410240050	1024	1/2	3425280075	1/4-28	3/4			
3406320062	632	5/8	3410240062	1024	5/8	3425280100	1/4-28	1			
3406320068	632	11/16	3410240075	1024	3/4	3425280150	1/4-28	1			
3406320075	632	3/4	3410240100	1024	1	3431218050	5/16-18	1/2			
3406320087	632	7/8	3410240125	1024	1 1/4	3431218075	5/16-18	3/4			
3406320100	632	1	3410240150	1024	1 1/2	3431218100	5/16-18	1			
3406320112	632	1 1/8	3410320012	1032	1/8	3431218125	5/16-18	1 1/4 *			
3406320125	632	1 1/4	3410320018	1032	3/16	3431218150	5/16-18	1 1/2 *			
3406320150	632	1 1/2	3410320025	1032	1/4	3431218200	5/16-18	2 *			
3406320175	632	1 3/4	3410320031	1032	5/16	3431218250	5/16-18	2 1/2 *			



SCREWS, BOLTS, AND THREADED ROD

SECTION II



THREAD SIZE	A	H	J	T
4	.317	.216	.039	.045
6	.336	.243	.035	.051
8	.381	.280	.049	.040
10	.395	.305	.040	.060
1/4	.480	.305	.045	.060

Nominal Screw Length	Tolerance on Length
Up to 1 including	+/-0.03
Over 1 to 2 including	+/-0.06
Over 2	+/-0.09

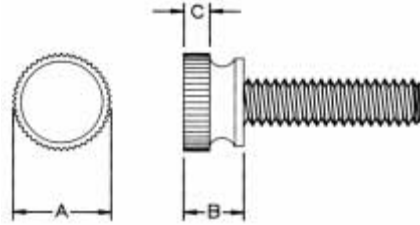
ECONOMY GRADE THUMB SCREWS

PART NUMBER	THREAD	LENGTH	PART NUMBER	THREAD	LENGTH	PART NUMBER	THREAD	LENGTH	PART NUMBER	THREAD	LENGTH
090440009TEG	440	3/32	090632125TEG	632	1 1/4	091024150TEG	1024	1 1/2	092520025TEG	1/4-20	1/4
090440012TEG	440	1/8	090632150TEG	632	1 1/2	091032012TEG	1032	1/8	092520031TEG	1/4-20	5/16
090440014TEG	440	9/64	090632162TEG	632	1 5/8	091032018TEG	1032	3/16	092520037TEG	1/4-20	3/8
090440018TEG	440	3/16	090632175TEG	632	1 3/4	091032025TEG	1032	1/4	092520050TEG	1/4-20	1/2
090440025TEG	440	1/4	090632187TEG	632	1 7/8	091032031TEG	1032	5/16	092520062TEG	1/4-20	5/8
090440028TEG	440	9/32	090632225TEG	632	2 1/4	091032037TEG	1032	3/8	092520075TEG	1/4-20	3/4
090440031TEG	440	5/16	090640025TEG	640	1/4	091032043TEG	1032	7/16	092520087TEG	1/4-20	7/8
090440037TEG	440	3/8	090640037TEG	640	3/8	091032050TEG	1032	1/2	092520100TEG	1/4-20	1
090440043TEG	440	7/16	090640075TEG	640	3/4	091032062TEG	1032	5/8	092520125TEG	1/4-20	1 1/4
090440050TEG	440	1/2	090640100TEG	640	1	091032075TEG	1032	3/4	092520150TEG	1/4-20	1 1/2
090440056TEG	440	9/16	090832012TEG	832	1/8	091032081TEG	1032	13/16	092520175TEG	1/4-20	1 3/4
090440062TEG	440	5/8	090832018TEG	832	3/16	091032087TEG	1032	7/8	092520200TEG	1/4-20	2
090440068TEG	440	11/16	090832025TEG	832	1/4	091032100TEG	1032	1	092520250TEG	1/4-20	2 1/2
090440075TEG	440	3/4	090832028TEG	832	9/32	091032106TEG	1032	1 1/16	092528018TEG	1/4-28	3/16
090440087TEG	440	7/8	090832031TEG	832	5/16	091032112TEG	1032	1 1/4	092528025TEG	1/4-28	1/4
090440100TEG	440	1	090832037TEG	832	3/8	091032150TEG	1032	1 1/2	092528037TEG	1/4-28	3/8
090440112TEG	440	1 1/8	090832043TEG	832	7/16	091032175TEG	1032	1 3/4	092528050TEG	1/4-28	1/2
090440118TEG	440	1 3/16	090832050TEG	832	1/2	091032200TEG	1032	2	092528075TEG	1/4-28	3/4
090440125TEG	440	1 1/4	090832062TEG	832	5/8				092528100TEG	1/4-28	1
090440137TEG	440	1 3/8	090832075TEG	832	3/4						
090440150TEG	440	1 1/2	090832087TEG	832	7/8						
090440175TEG	440	1 3/4	090832100TEG	832	1						
090448025TEG	448	1/4	090832112TEG	832	1 1/8						
090632009TEG	632	3/32	090832125TEG	832	1 1/4						
090632012TEG	632	1/8	090832137TEG	832	1 3/8						
090632015TEG	632	5/32	090832150TEG	832	1 1/2						
090632018TEG	632	3/16	090832175TEG	832	1 3/4						
090632025TEG	632	1/4	090832187TEG	832	1 7/8						
090632031TEG	632	5/16	090832200TEG	832	2						
090632037TEG	632	3/8	091024012TEG	1024	1/8						
090632043TEG	632	7/16	091024018TEG	1024	3/16						
090632050TEG	632	1/2	091024025TEG	1024	1/4						
090632056TEG	632	9/16	091024031TEG	1024	5/16						
090632062TEG	632	5/8	091024037TEG	1024	3/8						
090632068TEG	632	11/16	091024050TEG	1024	1/2						
090632075TEG	632	3/4	091024062TEG	1024	5/8						
090632087TEG	632	7/8	091024075TEG	1024	3/4						
090632100TEG	632	1	091024100TEG	1024	1						
090632112TEG	632	1 1/8	091024125TEG	1024	1 1/4						



SCREWS, BOLTS, AND THREADED ROD

SECTION
II



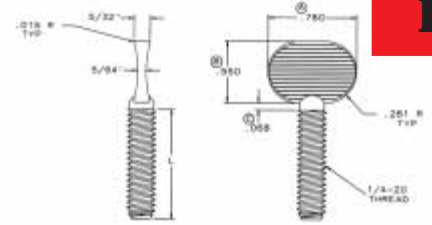
KNURLED HEAD THUMB SCREWS

PART NUMBER	THREAD	LENGTH
090440018T	440	3/16 (4,57)
090440025T	440	1/4 (6,35)
090440037T	440	3/8 (9,53)
090440050T	440	1/2 (12,70)
090440075T	440	3/4 (19,05)
090632025T	632	1/4 (6,35)
090632037T	632	3/8 (9,53)
090632050T	632	1/2 (12,70)
090632075T	632	3/4 (19,05)
090632100T	632	1 (25,40)
090832018T	832	3/16 (4,76)
090832037T	832	3/8 (9,53)
090832050T	832	1/2 (12,70)
090832075T	832	3/4 (19,05)
090832100T	832	1 (25,40)
091024050T	1024	1/2 (12,70)
091024075T	1024	3/4 (19,05)
091024100T	1024	1 (25,40)
091024125T	1024	1 1/4 (31,75)
091024200T	1024	2 (50,80)
091032037T	1032	3/8 (9,53)
091032050T	1032	1/2 (12,70)
091032075T	1032	3/4 (19,05)
091032100T	1032	1 (25,40)
091032106T	1032	1 1/16 (26,99)
091032150T	1032	1 1/2 (38,10)
091032200T	1032	2 (50,80)
092520050T	1/4-20	1/2 (12,70)
092520075T	1/4-20	3/4 (19,05)
092520100T	1/4-20	1 (25,40)
092520125T	1/4-20	1 1/4 (31,75)
092520150T	1/4-20	1 1/2 (38,10)
0931218050T	5/16-18	1/2 (12,70)
0931218100T	5/16-18	1 (25,40)
0931218150T	5/16-18	1 1/2 (38,10)
0931218200T	5/16-18	2 (50,80)
0937516050T	3/8-16	1/2 (12,70)
0937516100T	3/8-16	1 (25,40)
0937516150T	3/8-16	1 1/2 (38,10)
0937516200T	3/8-16	2 (50,80)
0950013050T	1/2-13	1/2 (12,70)
0950013100T	1/2-13	1 (25,40)
0950013150T	1/2-13	1 1/2 (38,10)
0950013200T	1/2-13	2 (50,80)

THREAD SIZE	A *	B *	C
4	.300 (7,62)	.280 (7,11)	.125 (3,17)
6	.360 (9,14)	.275 (6,99)	.125 (3,18)
8	.425 (10,80)	.305 (7,75)	.140 (3,56)
10	.425 (10,80)	.325 (8,26)	.140 (3,56)
1/4	.540 (13,72)	.365 (9,27)	.155 (3,94)
5/16	.615 (15,62)	.385 (9,78)	.171 (4,34)
3/8	.687 (17,45)	.430 (10,92)	.187 (4,75)
1/2	.750 (19,05)	.468 (11,89)	.203 (5,16)

* +/- .010 on A and B Dimensions

Nominal Screw Length	Tolerance on Length
Up to 1 including	+/-0.03
Over 1 to 2 including	+/-0.06
Over 2	+/-0.09



OVAL HEAD THUMB SCREWS

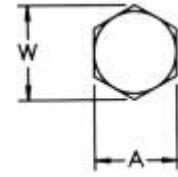
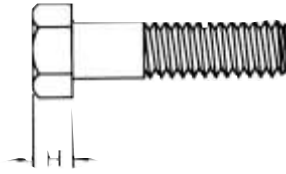
PART NUMBER	THREAD	LENGTH
092502037V	1/4-20	3/8
092502050V	1/4-20	1/2
092502062V	1/4-20	5/8
092502100V	1/4-20	1
092502150V	1/4-20	1 1/2
092502175V	1/4-20	1 3/4
092502200V	1/4-20	2
092502250V	1/4-20	2 1/2



THREAD SIZE	HD WIDTH	HD HEIGHT	HD THICKNESS
1/4	.780	.550	5/32

SCREWS, BOLTS, AND THREADED ROD

SECTION II



THREAD SIZE	A	W	H
1/4	.425-.438	.484-.505	.150-.188
5/16	.484-.500	.552-.577	.195-.235
3/8	.544-.562	.620-.650	.226-.268
1/2	.725-.750	.826-.866	.302-.364
5/8	.906-.938	1.033-1.083	.378-.444
3/4	1.088-1.125	1.240-1.299	.455-.524
7/8	1.269-1.312	1.447-1.516	.531-.604

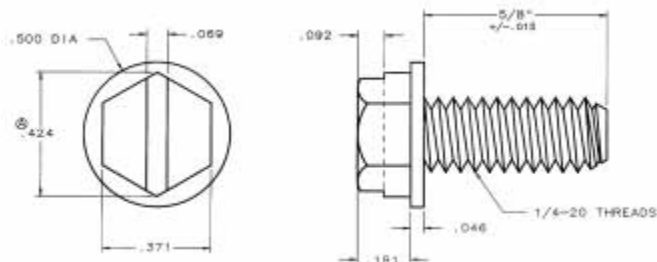
Nominal Length	1/4 to 3/8	7/16 to 1/2	9/16 to 3/4	7/8 to 1	1 1/8 to 1 1/8	over 1-1/2
Up to 1 in., incl.	+0.02 -0.03	+0.02 -0.03	+0.02 -0.03	----	----	----
Over 1 in. to 2-1.2 in., incl.	+0.02 -0.04	+0.04 -0.06	+0.06 -0.08	+0.08 -0.10	+0.12 -0.12	+0.18 -0.18
Over 2-1/2 in. to 4 in., incl.	+0.04 -0.06	+0.06 -0.08	+0.08 -0.10	+0.10 -0.14	+0.16 -0.16	+0.20 -0.20
Over 4 in. to 6 in., incl.	+0.06 -0.10	+0.08 -0.10	+0.10 -0.10	+0.12 -0.16	+0.18 -0.18	+0.22 -0.22
Longer than 6 in.	+0.10 -0.18	+0.12 -0.18	+0.14 -0.18	+0.16 -0.20	+0.22 -0.22	+0.24 -0.24

HEX CAP SCREWS

PART NUMBER	THREAD	LENGTH	PART NUMBER	THREAD	LENGTH	PART NUMBER	THREAD	LENGTH	PART NUMBER	THREAD	LENGTH
0325020037	1/4-20	3/8	0331218150	5/16-18	1 1/2	0337516400	3/8-16	4	0350013600	1/2-13	6
0325020050	1/4-20	1/2	0331218200	5/16-18	2	0337516450	3/8-16	4 1/2	0362511050	5/8-11	1/2
0325020062	1/4-20	5/8	0331218250	5/16-18	2 1/2	0337516500	3/8-16	5	0362511075	5/8-11	3/4
0325020075	1/4-20	3/4	0331218300	5/16-18	3	0337516550	3/8-16	5 1/2	0362511100	5/8-11	1
0325020100	1/4-20	1	0331218350	5/16-18	3 1/2	0337516600	3/8-16	6	0362511150	5/8-11	1 1/2
0325020125	1/4-20	1 1/4	0331218400	5/16-18	4	0337524050	3/8-24	1/2	0362511200	5/8-11	2
0325020150	1/4-20	1 1/2	0331218450	5/16-18	4 1/2	0350013050	1/2-13	1/2	0362511250	5/8-11	2 1/2
0325020200	1/4-20	2	0331218500	5/16-18	5	0350013075	1/2-13	3/4	0362511300	5/8-11	3
0325020250	1/4-20	2 1/2	0331218550	5/16-18	5 1/2	0350013087	1/2-13	7/8	0362511350	5/8-11	3 1/2
0325020300	1/4-20	3	0331218600	5/16-18	6	0350013100	1/2-13	1	0362511400	5/8-11	4
0325020350	1/4-20	3 1/2	0331224050	5/16-24	1/2	0350013125	1/2-13	1 1/4	0362511400FT	5/8-11	4
0325020400	1/4-20	4	0337516050	3/8-16	1/2	0350013150	1/2-13	1 1/2	0362511450	5/8-11	4 1/2
0325020450	1/4-20	4 1/2	0337516075	3/8-16	3/4	0350013175	1/2-13	1 3/4	0362511500	5/8-11	5
0325020500	1/4-20	5	0337516100	3/8-16	1	0350013200	1/2-13	2	0362511550	5/8-11	5 1/2
0325020550	1/4-20	5 1/2	0337516125	3/8-16	1 1/4	0350013250	1/2-13	2 1/2	0362511600	5/8-11	6
0325020600	1/4-20	6	0337516150	3/8-16	1 1/2	0350013300	1/2-13	3	0375010075	3/4-10	3/4
0331218050	5/16-18	1/2	0337516200	3/8-16	2	0350013350	1/2-13	3 1/2	0375010400FT	3/4-10	4
0331218075	5/16-18	3/4	0337516200FT	3/8-16	2	0350013400	1/2-13	4	0375010550	3/4-10	5 1/2
0331218100	5/16-18	1	0337516250	3/8-16	2 1/2	0350013450	1/2-13	4 1/2	0387509075	7/8-9	3/4
0331218125	5/16-18	1 1/4	0337516300	3/8-16	3	0350013500	1/2-13	5	0387509450FT	7/8-9	4 1/2
0331218137	5/16-18	1 3/8	0337516350	3/8-16	3 1/2	0350013550	1/2-13	5 1/2			

ALL PARTS UP TO 1" LONG ARE FULLY THREADED

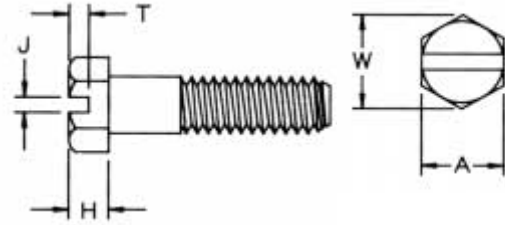
"SPECIAL ITEM" SLOTTED HEX WASHER CAP



ITEM NUMBER	-----	DESCRIPTION	-----
401017	1/4-20 3/8	Slotted Hex Washer Cap	
401016	1/4-20 5/8	Slotted Hex Washer Cap	

SCREWS, BOLTS, AND THREADED ROD

SECTION
II



THREAD SIZE	A	W	H	J	T
1/4	.425-.438	.484-.505	.150-.188	.070	.090
5/16	.484-.500	.552-.577	.195-.235	.080	.110
3/8	.544-.562	.620-.650	.226-.268	.090	.140
1/2	.725-.750	.826-.866	.302-.364	.100	.160
5/8	.906-.938	1.033-1.083	.378-.444	.110	.170

Nominal Length	1/4 to 3/8	7/16 to 1/2	9/16 to 3/4	7/8 to 1	1 1/8 to 1 1/8	over 1-1/2
Up to 1 in., incl.	+0.02 -0.03	+0.02 -0.03	+0.02 -0.03	----	----	----
Over 1 in. to 2-1.2 in., incl.	+0.02 -0.04	+0.04 -0.06	+0.06 -0.08	+0.08 -0.10	+0.12 -0.16	+0.18 -0.18
Over 2-1/2 in. to 4 in., incl.	+0.04 -0.06	+0.06 -0.08	+0.08 -0.10	+0.10 -0.14	+0.16 -0.16	+0.20 -0.20
Over 4 in. to 6 in., incl.	+0.06 -0.10	+0.08 -0.10	+0.10 -0.10	+0.12 -0.16	+0.18 -0.18	+0.22 -0.22
Longer than 6 in.	+0.10 -0.18	+0.12 -0.18	+0.14 -0.18	+0.16 -0.20	+0.22 -0.22	+0.24 -0.24

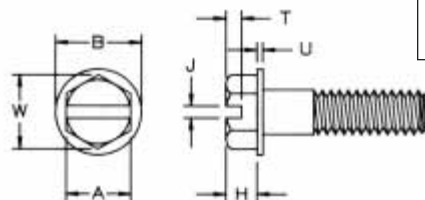
SLOTTED HEX CAP SCREWS

PART NUMBER	THREAD	LENGTH	PART NUMBER	THREAD	LENGTH	PART NUMBER	THREAD	LENGTH	PART NUMBER	THREAD	LENGTH
3225020037	1/4-20	3/8	3231218150	5/16-18	1 1/2	3237516450	3/8-16	4 1/2	3262511075	5/8-11	3/4
3225020050	1/4-20	1/2	3231218200	5/16-18	2	3237516500	3/8-16	5	3262511100	5/8-11	1
3225020062	1/4-20	5/8	3131218250	5/16-18	2 1/2	3237516550	3/8-16	5 1/2	3262511150	5/8-11	1 1/2
3225020075	1/4-20	3/4	3231218300	5/16-18	3	3237516600	3/8-16	6	3262511200	5/8-11	2
3225020100	1/4-20	1	3231218350	5/16-18	3 1/2	3237524050	3/8-24	1/2	3262511250	5/8-11	2 1/2
3225020125	1/4-20	1 1/4	3231218400	5/16-18	4	3250013050	1/2-13	1/2	3262511300	5/8-11	3
3225020150	1/4-20	1 1/2	3231218450	5/16-18	4 1/2	3250013075	1/2-13	3/4	3262511350	5/8-11	3 1/2
3225020200	1/4-20	2	3231218500	5/16-18	5	3250013087	1/2-13	7/8	3262511400	5/8-11	4
3225020250	1/4-20	2 1/2	3231218550	5/16-18	5 1/2	3250013100	1/2-13	1	3262511400FT	5/8-11	4
3225020300	1/4-20	3	3231218600	5/16-18	6	3250013125	1/2-13	1 1/4	3262511450	5/8-11	4 1/2
3225020350	1/4-20	3 1/2	3231224050	5/16-24	1/2	3250013150	1/2-13	1 1/2	3262511500	5/8-11	5
3225020400	1/4-20	4	3237516050	3/8-16	1/2	3250013200	1/2-13	2	3262511550	5/8-11	5 1/2
3225020450	1/4-20	4 1/2	3237516075	3/8-16	3/4	3250013250	1/2-13	2 1/2	3262511600	5/8-11	6
3225020500	1/4-20	5	3237516100	3/8-16	1	3250013300	1/2-13	3			
3225020550	1/4-20	5 1/2	3237516125	3/8-16	1 1/4	3250013350	1/2-13	3 1/2			
3225020600	1/4-20	6	3237516150	3/8-16	1 1/2	3250013400	1/2-13	4			
3231218050	5/16-18	1/2	3237516200	3/8-16	2	3250013450	1/2-13	4 1/2			
3231218075	5/16-18	3/4	3237516250	3/8-16	2 1/2	3250013500	1/2-13	5			
3231218100	5/16-18	1	3237516300	3/8-16	3	3250013550	1/2-13	5 1/2			
3231218125	5/16-18	1 1/4	3237516350	3/8-16	3 1/2	3250013600	1/2-13	6			
3231218137	5/16-18	1 3/8	3237516400	3/8-16	4	3262511050	5/8-11	1/2			

ALL PARTS UP TO 1" LONG ARE FULLY THREADED

SLOTTED HEX WASHER CAP

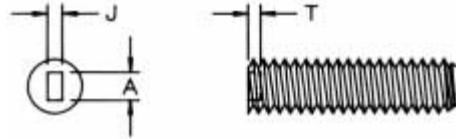
PART NUMBER	THREAD	LENGTH
32W37516050	3/8-16	1/2
32W37516075	3/8-16	3/4
32W37516100	3/8-16	1
32W37516125	3/8-16	1 1/4
32W37516150	3/8-16	1 1/2
32W37516200	3/8-16	2
32W37516250	3/8-16	2 1/2
32W37516300	3/8-16	3



A	B	H	U	J	T	W
.557	.750	.282	.050	.087	.149	.643

SCREWS, BOLTS, AND THREADED ROD

SECTION II

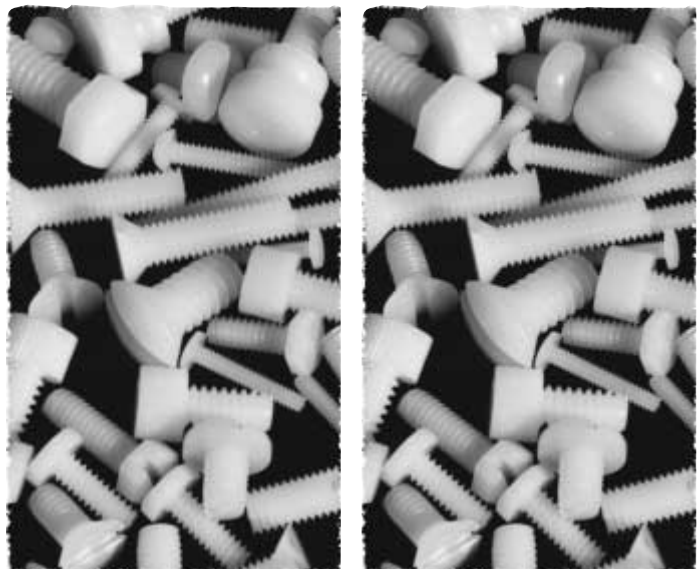


GRUB SLOTTED HEADSTYLE

THREAD SIZE	T	A	J
6	.030	.080	.025
8	.035	.080	.028
10	.050	.130	.035
1/4	.060	.160	.040
1/2	.130	.350	.075
1	.178	.115	.516

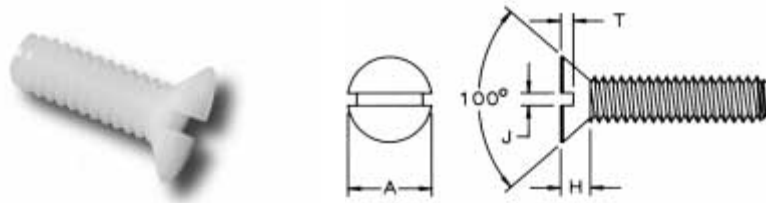


PART NUMBER	THREAD	LENGTH	PART NUMBER	THREAD	LENGTH	PART NUMBER	THREAD	LENGTH	PART NUMBER	THREAD	LENGTH
010632G009	632	3/32	010832G100	832	1	012520G025	1/4-20	1/4	012520G250	1/4-20	2 1/2
010632G012	632	1/8	010832G112	832	1 1/8	012520G031	1/4-20	5/16	012528G018	1/4-28	3/16
010632G015	632	5/32	010832G125	832	1 1/4	012520G037	1/4-20	3/8	012528G025	1/4-28	1/4
010632G018	632	3/16	010832G137	832	1 3/8	012520G050	1/4-20	1/2	012528G037	1/4-28	3/8
010632G025	632	1/4	010832G150	832	1 1/2	012520G062	1/4-20	5/8	012528G062	1/4-28	5/8
010632G031	632	5/16	010832G175	832	1 3/4	012520G075	1/4-20	3/4	012528G075	1/4-28	3/4
010632G037	632	3/8	010832G187	832	1 7/8	012520G087	1/4-20	7/8	012528G100	1/4-28	1
010632G043	632	7/16	010832G200	832	2	012520G100	1/4-20	1	0150013G050	1/2-13	1/2
010632G050	632	1/2	011024G012	1024	1/8	012520G125	1/4-20	1 1/4	0150013G075	1/2-13	3/4
010632G056	632	9/16	011024G018	1024	3/16	012520G150	1/4-20	1 1/2	0150013G100	1/2-13	1
010632G062	632	5/8	011024G025	1024	1/4	012520G175	1/4-20	1 3/4	0110008G062	1 - 8	5/8
010632G068	632	11/16	011024G031	1024	5/16	012520G200	1/4-20	2			
010632G075	632	3/4	011024G037	1024	3/8						
010632G087	632	7/8	011024G050	1024	1/2						
010632G100	632	1	011024G062	1024	5/8						
010632G112	632	1 1/8	011024G075	1024	3/4						
010632G125	632	1 1/4	011024G100	1024	1						
010632G150	632	1 1/2	011024G125	1024	1 1/4						
010632G162	632	1 5/8	011024G150	1024	1 1/2						
010632G175	632	1 3/4	011032G012	1032	1/8						
010632G187	632	1 7/8	011032G018	1032	3/16						
010640G025	640	1/4	011032G025	1032	1/4						
010640G037	640	3/8	011032G031	1032	5/16						
010640G075	640	3/4	011032G037	1032	3/8						
010640G100	640	1	011032G043	1032	7/16						
010832G012	832	1/8	011032G050	1032	1/2						
010832G018	832	3/16	011032G062	1032	5/8						
010832G025	832	1/4	011032G075	1032	3/4						
010832G028	832	9/32	011032G081	1032	13/16						
010832G031	832	5/16	011032G087	1032	7/8						
010832G037	832	3/8	011032G100	1032	1						
010832G043	832	7/16	011032G106	1032	1 1/16						
010832G050	832	1/2	011032G125	1032	1 1/4						
010832G062	832	5/8	011032G150	1032	1 1/2						
010832G075	832	3/4	011032G175	1032	1 3/4						
010832G087	832	7/8	011032G200	1032	2						



SCREWS, BOLTS, AND THREADED ROD

SECTION
II



THREAD SIZE	A	* REF ONLY * H	J	T
2	.143-.172	.037	.023-.031	.012-.019
4	.193-.225	.049	.031-.039	.017-.024
6	.238-.279	.060	.039-.048	.022-.030
8	.285-.332	.072	.045-.054	.027-.036
10	.333-.385	.083	.050-.060	.031-.042
1/4	.442-.507	.110	.064-.075	.042-.055

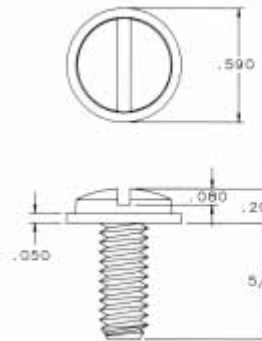


100° FLAT HEADSTYLE

PART NUMBER	THREAD	LENGTH	PART NUMBER	THREAD	LENGTH	PART NUMBER	THREAD	LENGTH	PART NUMBER	THREAD	LENGTH
020256B012	256	1/8	020440B037	440	3/8	020632B050	632	1/2	021032B050	1032	1/2
020256B018	256	3/16	020440B0150	440	1/2	020632B062	632	5/8	021032B068	1032	11/16
020256B031	256	5/16	020440B053	40	17/32	020632B100	632	1	022520B037	1/4-20	3/8
020256B050	256	1/2	020440B062	440	5/8	020632B112	632	1 1/8	022520B075	1/4-20	3/4
020256B062	256	5/8	020440B100	440	1	020832B037	832	3/8	022520B087	1/4-20	7/8
020440B018	440	3/16	020632B018	440	3/16	020832B053	832	17/32	022520B100	1/4-20	1
020440B025	440	1/4	020632B025	632	1/4	020832B100	832	1	022520B106	1/4-20	1-1/16
020440B031	440	5/16	020632B037	632	3/8	021024B081	1024	3/16	022520B112	1/4-20	1-1/8

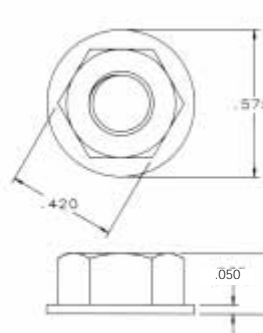
LICENSE PLATE FASTENERS

STANDARD



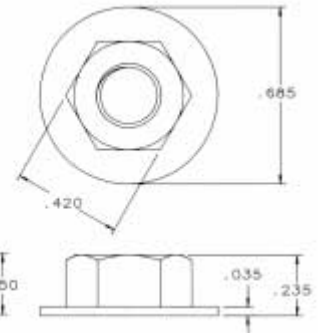
ITEM NUMBER
012520LP062

STANDARD BOLT



ITEM NUMBER
0425020LPN

STANDARD NUT



ITEM NUMBER
0425020LPNS

SPEC. STANDARD NUT



ITEM NUMBER
011032W062ZP

METAL SCREW
10-32 X 5/8" PHIL PAN



ITEM NUMBER
60SGN01010

GROMMET



ITEM NUMBER
60SGN01010LPS

FOUR PIECE SET

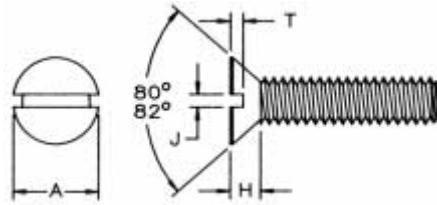
DELUXE



Part Number 60SGN01010LPS is a set of deluxe license plate fasteners packaged in a clear poly bag. Set includes two each of part number 60SGN01010 (grommet) and 011032W062ZP (zinc plated screw).

SCREWS, BOLTS, AND THREADED ROD

SECTION II



THREAD SIZE	A	H *Ref. Only	J	T
2	.147-.172	.051	.023-.031	.015-.023
4	.195-.225	.067	.031-.039	.020-.030
6	.244-.279	.083	.039-.048	.024-.038
8	.292-.332	.100	.045-.054	.029-.045
10	.340-.385	.116	.050-.060	.034-.053
12	.389-.438	.132	.056-.067	.039-.060
1/4	.452-.507	.153	.064-.075	.046-.070
5/16	.568-.635	.191	.072-.084	.058-.088
3/8	.685-.762	.230	.081-.094	.070-.106

82° FLAT HEADSTYLE

PART NUMBER	THREAD	LENGTH
020256A018	256	3/16
020256A025	256	1/4
020256A031	256	5/16
020256A037	256	3/8
020256A043	256	7/16
020256A050	256	1/2
020256A056	256	9/16
020256A075	256	3/4
020440A012	440	1/8
020440A015	440	5/32
020440A018	440	3/16
020440A025	440	1/4
020440A031	440	5/16
020440A037	440	3/8
020440A050	440	1/2
020440A056	440	9/16
020440A062	440	5/8
020440A075	440	3/4
020440A100	440	1
020440A112	440	1 1/8
020440A118	440	1 3/16
020440A125	440	1 1/4
020440A137	440	1 3/8
020440A150	440	1 1/2
020440A175	440	1 3/4
020448A015	448	5/32
020448A025	448	1/4

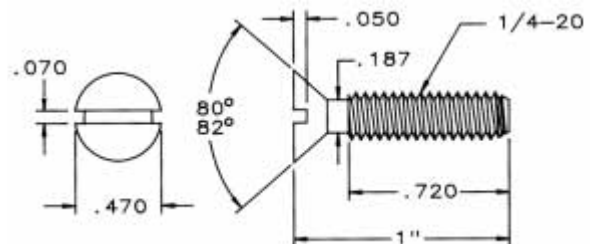
PART NUMBER	THREAD	LENGTH
020632A018	632	3/16
020632A025	632	1/4
020632A031	632	5/16
020632A037	632	3/8
020632A050	632	1/2
020632A062	632	5/8
020632A075	632	3/4
020632A100	632	1
020632A112	632	1 1/8
020632A125	632	1 1/4
020832A012	832	1/8
020832A025	832	1/4
020832A031	832	5/16
020832A037	832	3/8
020832A043	832	7/16
020832A050	832	1/2
020832A056	832	9/16
020832A062	832	5/8
020832A075	832	3/4
020832A100	832	1
020832A125	832	1 1/4
021024A050	1024	1/2
021024A075	1024	3/4
021024A100	1024	1
021032A025	1032	1/4
021032A031	1032	5/16
021032A037	1032	3/8

PART NUMBER	THREAD	LENGTH
021032A050	1032	1/2
021032A075	1032	3/4
021032A087	1032	7/8
021032A100	1032	1
021032A125	1032	1 1/4
021032A150	1032	1 1/2
022520A025	1/4-20	1/4
022520A050	1/4-20	1/2
022520A062	1/4-20	5/8
022520A075	1/4-20	3/4
022520A087	1/4-20	7/8
022520A100	1/4-20	1
022520A125	1/4-20	1 1/4
022520A150	1/4-20	1 1/2
022520A175	1/4-20	1 3/4
022520A200	1/4-20	2
022520A250	1/4-20	2 1/2
0231218A100	5/16-18	1
0237516A175	3/8-16	1 3/4

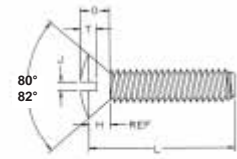
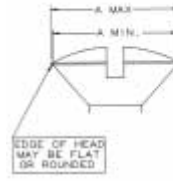


SPECIAL ITEM 82° FLAT

ITEM NUMBER	401004
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SCREWS, BOLTS, AND THREADED ROD



EDGE OF HEAD
MAY BE FLAT
OR BOUNDED

THREAD SIZE	A	* REF ONLY * H	O	J	T
2	.147-.172	.051	.063-.080	.023-.031	.037-.045
4	.195-.225	.067	.084-.104	.031-.039	.049-.059
6	.244-.279	.083	.105-.128	.039-.048	.060-.074
8	.292-.332	.100	.126-.152	.045-.054	.072-.088
10	.340-.385	.116	.148-.176	.050-.060	.084-.103
12	.389-.438	.132	.169-.200	.056-.067	.096-.117
1/4	.452-.507	.153	.197-.232	.064-.075	.112-.136

82° OVAL HEADSTYLE

PART NUMBER	THREAD	LENGTH
330256A018	256	3/16
330256A025	256	1/4
330256A031	256	5/16
330256A037	256	3/8
330256A043	256	7/16
330256A050	256	1/2
330256A056	256	9/16
330256A075	256	3/4
330440A012	440	1/8
330440A015	440	5/32
330440A018	440	3/16
330440A025	440	1/4
330440A031	440	5/16
330440A037	440	3/8
330440A050	440	1/2
330440A056	440	9/16
330440A062	440	5/8
330440A075	440	3/4
330440A100	440	1
330440A112	440	1 1/8
330440A118	440	1 3/16
330440A125	440	1 1/4
330440A137	440	1 3/8
330440A150	440	1 1/2
330440A175	440	1 3/4
330448A015	448	5/32
330448A025	448	1/4

PART NUMBER	THREAD	LENGTH
330632A025	632	1/4
330632A031	632	5/16
330632A037	632	3/8
330632A050	632	1/2
330632A062	632	5/8
330632A075	632	3/4
330632A100	632	1
330632A112	632	1 1/8
330632A125	632	1 1/4
330632A175	632	1 3/4
330832A012	832	1/8
330832A025	832	1/4
330832A031	832	5/16
330832A037	832	3/8
330832A043	832	7/16
330832A050	832	1/2
330832A056	832	9/16
330832A062	832	5/8
330832A075	832	3/4
330832A100	832	1
330832A125	832	1 1/4
331024A050	1024	1/2
331024A075	1024	3/4
331024A100	1024	1
331024A125	1024	1 1/4
331032A025	1032	1/4
331032A031	1032	5/16

PART NUMBER	THREAD	LENGTH
331032A037	1032	3/8
331032A050	1032	1/2
331032A075	1032	3/4
331032A087	1032	7/8
331032A100	1032	1
331032A125	1032	1 1/4
331032A150	1032	1 1/2
332520A025	1/4-20	1/4
332520A050	1/4-20	1/2

PART NUMBER	THREAD	LENGTH
332520A062	1/4-20	5/8
332520A075	1/4-20	3/4
332520A087	1/4-20	7/8
332520A100	1/4-20	1
332520A125	1/4-20	1 1/4
332520A150	1/4-20	1 1/2
332520A175	1/4-20	1 3/4
332520A200	1/4-20	2
332520A250	1/4-20	2 1/2



SCREWS, BOLTS, AND THREADED ROD

SECTION II

This versatile threaded rod stock is easily cut to size, resistant to most chemicals, electrically insulating, non-magnetic, lightweight, low thermal conductivity, vibration and abrasion resistant. Stock length is 2 feet. Longer lengths up to 8 feet available on special order.

We can furnish cut to your length with a nominal cutting charge.

Other plastic materials can be furnished on special order. Request quote.

THREADED RODS



ITEM NUMBER	DESCRIPTION	
3800440TR	440	Threaded Rod
3800632TR	632	Threaded Rod
3800832TR	832	Threaded Rod
3801024TR	1024	Threaded Rod
3801032TR	1032	Threaded Rod
3825020TR	1/4-20	Threaded Rod
3831218TR	5/16-18	Threaded Rod
3837516TR	3/8-16	Threaded Rod
3850013TR	1/2-13	Threaded Rod
3862511TR	5/8-11	Threaded Rod
3875010TR	3/4-10	Threaded Rod
3887509TR	7/8-9	Threaded Rod
3810008TR	1-8	Threaded Rod

THREADED STUDS

Injection molded threaded studs with chamfer on both ends are available in several of the most popular sizes and lengths. Threaded studs are molded in natural Nylon 6/6 UL 94V2. These studs are resistant to most chemicals, electrically insulating, non magnetic, lightweight, low thermal conductivity, vibration and abrasion resistant.

LENGTH	TOLERANCE
3/4 " to 1"	+0 / -.03
1-1/2" to 2"	+0 / -.06
2 1/2" to 5"	+0 / -.09

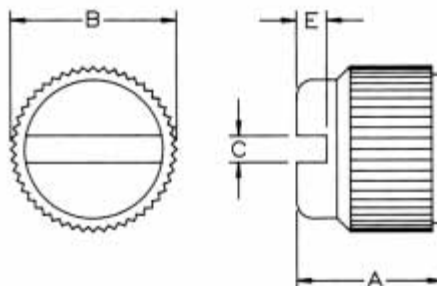


ITEM NUMBER	DESCRIPTION		
3801032075SD	10-32	3/4	Threaded Studs
3801032100SD	10-32	1	Threaded Studs
3801032150SD	10-32	1 1/2	Threaded Studs
3801032200SD	10-32	2	Threaded Studs
3801032250SD	10-32	2 1/2	Threaded Studs
3825020075SD	1/4-20	3/4	Threaded Studs
3825020100SD	1/4-20	1	Threaded Studs
3825020150SD	1/4-20	1 1/2	Threaded Studs
3825020200SD	1/4-20	2	Threaded Studs
3825020250SD	1/4-20	2 1/2	Threaded Studs
3825020300SD	1/4-20	3	Threaded Studs
3831218100SD	5/16-18	1	Threaded Studs
3831218150SD	5/16-18	1 1/2	Threaded Studs
3831218200SD	5/16-18	2	Threaded Studs
3831218250SD	5/16-18	2 1/2	Threaded Studs
3831218300SD	5/16-18	3	Threaded Studs
3837516100SD	3/8-16	1	Threaded Studs
3837516150SD	3/8-16	1 1/2	Threaded Studs
3837516200SD	3/8-16	2	Threaded Studs
3837516250SD	3/8-16	2 1/2	Threaded Studs
3837516300SD	3/8-16	3	Threaded Studs
3837516400SD	3/8-16	4	Threaded Studs
3850013150SD	1/2-13	1 1/2	Threaded Studs
3850013200SD	1/2-13	2	Threaded Studs
3850013250SD	1/2-13	2 1/2	Threaded Studs
3850013300SD	1/2-13	3	Threaded Studs
3850013400SD	1/2-13	4	Threaded Studs
3850013500SD	1/2-13	5	Threaded Studs

UNIVERSAL NUTS

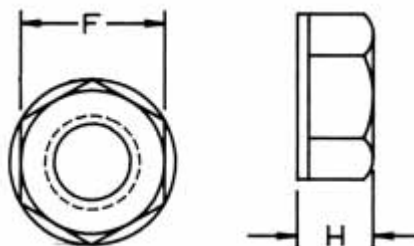
STOCKED IN NYLON 6/6 UL 94V2 - CAN BE FURNISHED IN: ACETAL RESIN CELANESE CELCON M270 UL 94 HB

SECTION
III



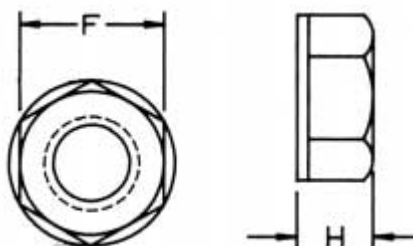
NYLON SLOTTED THUMB NUTS

ITEM NUMBER	DESCRIPTION	A Ref.	* +/- .010 tolerance column B			
			* B	C	E	
0500440SCN	440 SLOTTED THUMB NUT	.295 (7,49)	.317 (8,05)	.039 (9,91)	.070 (1,78)	
0500632SCN	632 SLOTTED THUMB NUT	.334 (8,48)	.348 (8,84)	.044 (1,12)	.051 (1,30)	
0500832SCN	832 SLOTTED THUMB NUT	.378 (9,60)	.381 (9,68)	.049 (1,25)	.059 (1,50)	
0501024SCN	1024 SLOTTED THUMB NUT	23/64 (9,12)	.400 (10,16)	.056 (1,43)	.068 (1,73)	
0501032SCN	1032 SLOTTED THUMB NUT	23/64 (9,12)	.400 (10,16)	.056 (1,43)	.068 (1,73)	
0525020SCN	1/4-20 SLOTTED THUMB NUT	.370 (9,40)	.478 (12,14)	.070 (1,78)	.088 (2,24)	



NYLON LOCK NUTS DESIGNED FOR STEEL SCREWS

ITEM NUMBER	DESCRIPTION	F	H
0700256LN	256 LOCK NUT	.180 (4,57)	.140 (3,56)
0700440LN	440 LOCK NUT	.250 (6,35)	.200 (5,08)
0700632LN	632 LOCK NUT	.305 (7,75)	.200 (5,08)
0700832LN	832 LOCK NUT	.335 (8,51)	.230 (5,84)
0701024LN	1024 LOCK NUT	.365 (9,27)	.250 (6,35)
0701032LN	1032 LOCK NUT	.365 (9,27)	.250 (6,35)
0725020LN	1/4-20 LOCK NUT	.425 (10,80)	.275 (6,99)



NYLON SELF - THREADING LOCK NUTS

DESIGNED FOR STEEL SCREWS

ITEM NUMBER	DESCRIPTION	F	H
0700256SLN	256 SELF - THREAD	.180 (4,57)	.140 (3,56)
0700440SLN	440 SELF - THREAD	.250 (6,35)	.200 (5,08)
0700632SLN	632 SELF - THREAD	.305 (7,75)	.200 (5,08)
0700832SLN	832 SELF - THREAD	.335 (8,51)	.230 (5,84)
0701024SLN	1024 SELF - THREAD	.365 (9,27)	.250 (6,35)
0701032SLN	1032 SELF - THREAD	.365 (9,27)	.250 (6,35)
0725020SLN	1/4-20 SELF - THREAD	.425 (10,80)	.275 (6,99)

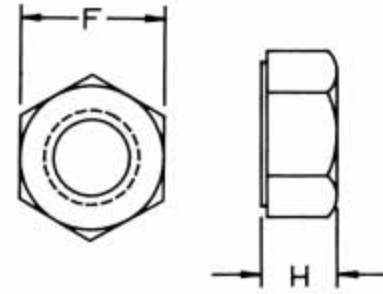


ALL TOLERANCES ARE +/- .010

UNIVERSAL NUTS

SECTION
III

STOCKED IN NYLON 6/6 UL 94V2 - CAN BE FURNISHED IN: ACETAL RESIN CELANESE CELCON M270 UL 94 HB

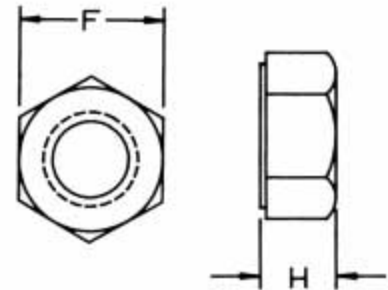


NYLON HEX NUTS

ITEM NUMBER	DESCRIPTION	F	H
0400256HN	256 HEX NUT	.180 (4,57)	.070 (1,78)
0400348HN	348 HEX NUT	.180 (4,57)	.070 (1,78)
0400440HN	440 HEX NUT	.250 (6,35)	.100 (2,54)
0400632HN	632 HEX NUT	.305 (7,75)	.120 (3,05)
0400640HN	640 HEX NUT	.305 (7,75)	.120 (3,05)
0400832HN	832 HEX NUT	.335 (8,51)	.130 (3,30)
0401024HN	1024 HEX NUT	.365 (9,27)	.135 (3,43)
0401032HN	1032 HEX NUT	.365 (9,27)	.135 (3,43)
0401224HN	1224 HEX NUT	.425 (10,80)	.207 (5,26)
0425020HN	1/4-20 HEX NUT	.433 (11,00)	.233 (5,92)
0425028HN	1/4-28 HEX NUT	.433 (11,00)	.235 (5,97)
0431218HN	5/16-18 HEX NUT	.500 (12,70)	.270 (6,86)
0431224HN	5/16-24 HEX NUT	.500 (12,70)	.270 (6,86)
0437516HN	3/8-16 HEX NUT	.560 (14,22)	.330 (8,38)
0437524HN	3/8-24 HEX NUT	.560 (14,22)	.330 (8,38)
0437532HN	3/8-32 HEX NUT	.560 (14,22)	.330 (8,38)
0443714HN	7/16-14 HEX NUT	.685 (17,40)	.380 (9,65)
0443720HN	7/16-20 HEX NUT	.685 (17,40)	.380 (9,65)
0450013HN	1/2-13 HEX NUT	.750 (19,05)	.430 (10,92)
0450020HN	1/2-20 HEX NUT	.750 (19,05)	.430 (10,92)
0462511HN	5/8-11 HEX NUT	.925 (23,40)	.550 (13,97)
0462518HN	5/8-18 HEX NUT	.925 (23,50)	.550 (13,97)
0468727HN	11/16-27 HEX NUT	1.00 (25,40)	.250 (6,35)
0475010HN	3/4-10 HEX NUT	1.10 (27,94)	.640 (16,26)
0487509HN	7/8-9 HEX NUT	1.28 (32,51)	.750 (19,05)
0410008HN	1-8 HEX NUT	1.47 (37,34)	.870 (22,10)



NYLON SPECIAL HEX NUTS



ITEM NUMBER	DESCRIPTION	F	H
0400256HNS	256 SPECIAL HEX NUT	.180 (4,57)	.090 (2,29)
0400440HNS	440 SPECIAL HEX NUT	.250 (6,35)	.124 (3,15)
0400632HNS	632 SPECIAL HEX NUT	.305 (7,75)	.146 (3,71)
0400832HNS	832 SPECIAL HEX NUT	.340 (8,64)	.170 (4,32)
0401024HNS	1024 SPECIAL HEX NUT	.365 (9,27)	.196 (4,98)
0401032HNS	1032 SPECIAL HEX NUT	.365 (9,37)	.196 (4,98)
0425020HNS	1/4-20 SPECIAL HEX NUT	.425 (10,80)	.258 (6,55)



ALL TOLERANCES ARE +/- .010

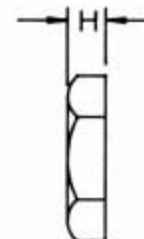
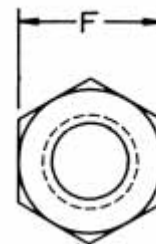
UNIVERSAL NUTS

STOCKED IN NYLON 6/6 UL 94V2 - CAN BE FURNISHED IN: ACETAL RESIN CELANESE CELCON M270 UL 94 HB

SECTION
III

NYLON HEX JAM NUTS

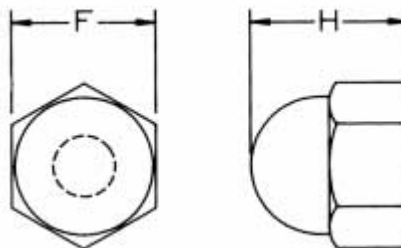
ITEM NUMBER	DESCRIPTION	F	H
0431218HJN	5/16-18 HEX JAM NUT	.500 (12,70)	.190 (4,83)
0431224HJN	5/16-24 HEX JAM NUT	.500 (12,70)	.190 (4,83)
0437516HJN	3/8-16 HEX JAM NUT	.500 (12,70)	.125 (3,18)
0437524HJN	3/8-24 HEX JAM NUT	.500 (12,70)	.125 (3,18)
0437532HJN	3/8-32 HEX JAM NUT	.500 (12,70)	.125 (3,18)
0437516HHJN	3/8-16 HEX JAM NUT SPEC.	.670 (17,02)	7/32 (5,56)
0443714HJN	7/16-14 HEX JAM NUT	.687 (17,45)	.375 (9,53)
0443720HJN	7/16-20 HEX JAM NUT	.687 (17,45)	.250 (6,35)
0446832HJN	15/32-32 HEX JAM NUT	.625 (15,88)	.125 (3,18)
0450013HJN	1/2-13 HEX JAM NUT	.687 (17,45)	.220 (5,59)
0450024HJN	1/2-24 HEX JAM NUT	.687 (17,45)	.220 (5,59)
0450028HJN	1/2-28 HEX JAM NUT	.660 (16,76)	.125 (3,18)
0456218HJN	9/16-18 HEX JAM NUT	.750 (19,05)	.250 (6,35)
0462511HJN	5/8-11 HEX JAM NUT	.930 (23,62)	.375 (9,53)
0462518HJN	5/8-18 HEX JAM NUT	.937 (23,80)	.375 (9,53)
0475010HJN	3/4-10 HEX JAM NUT	1.12 (28,50)	.250 (6,35)
0475016HJN	3/4-16 HEX JAM NUT	1.12 (28,50)	.250 (6,35)
0475027HJN	3/4-27 HEX JAM NUT	1.00 (25,40)	.125 (3,18)
0487514HJN	7/8-14 HEX JAM NUT	1.25 (31,75)	.340 (8,64)
0410008HJN	1-8 HEX JAM NUT	1.48 (37,59)	.410 (10,41)
0412527PJN	1/8-27 HEX JAM NUT	.56 (14,22)	.11 (2,79)
0425018PJN	1/4-18 HEX JAM NUT NPT	.740 (18,80)	.187 (4,75)
0437518PJN	3/8-18 HEX JAM NUT NPT	1.00 (25,40)	.280 (7,11)
0450014PJN	1/2-14 HEX JAM NUT NPT	1.25 (31,75)	.340 (8,64)
0475014PJN	3/4-14 HEX JAM NUT NPT	1.48 (37,59)	.410 (10,41)
0475014SJN	3/4-14 HEX JAM NUT NPS	1.48 (37,59)	.410 (10,41)
0425018SJN	1/4-18 HEX JAM NUT NPS	.687 (17,45)	.225 (5,72)
0437518SJN	3/8-18 HEX JAM NUT NPS	1.00 (25,40)	.280 (7,11)
0450014SJN	1/2-14 HEX JAM NUT NPS	1.25 (31,75)	.340 (8,64)
0475014SJN	3/4-14 HEX JAM NUT NPS	1.48 (37,59)	.410 (10,41)



TOLERANCES ARE +/- .010 ON "F" and "H" DIMENSIONS

NYLON LOCKING CAP NUTS

Similar to our standard cap nut, except with a molded-in locking thread. Use for applications which require higher torque, vibration resistance or a more secure assembly.



ITEM NUMBER	DESCRIPTION	F	H * REE
0500440LCN	440 LOCKING CAP NUT	.250 (6,35)	.280 (7,11)
0500632LCN	632 LOCKING CAP NUT	.305 (7,75)	.345 (8,76)
0500832LCN	832 LOCKING CAP NUT	.330 (8,38)	.375 (9,53)
0501024LCN	1024 LOCKING CAP NUT	.365 (9,27)	.400 (10,16)
0501032LCN	1032 LOCKING CAP NUT	.365 (9,27)	.400 (10,16)
0525020LCN	1/4-20 LOCKING CAP NUT	.425 (10,80)	.475 (12,07)
0531218LCN	5/16-18 LOCKING CAP NUT	.500 (12,70)	.530 (13,46)



TOLERANCES ARE +/- .010 ON "F" and "H" DIMENSIONS

UNIVERSAL NUTS

SECTION

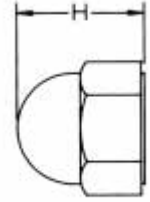
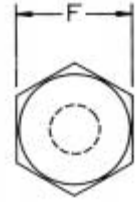
III

STOCKED IN NYLON 6/6 UL 94V2 - CAN BE FURNISHED IN: ACETAL RESIN CELANESE CELCON M270 UL 94 HB

NYLON CAP NUTS

"F" AND "H" TOLERANCES +/- .010

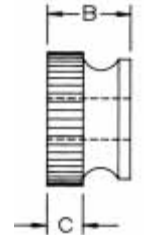
ITEM NUMBER	DESCRIPTION	F	H * REE
0500440CN	440 CAP NUT	.250 (6,35)	.280 (7,11)
0500632CN	632 CAP NUT	.305 (7,75)	.345 (8,76)
0500832CN	832 CAP NUT	.330 (8,38)	.375 (9,53)
0501024CN	1024 CAP NUT	.365 (9,27)	.400 (10,16)
0501032CN	1032 CAP NUT	.365 (9,27)	.400 (10,16)
0525020CN	1/4-20 CAP NUT	.425 (10,80)	.475 (12,07)
0525028CN	1/4-28 CAP NUT	.425 (10,80)	.475 (12,07)
0531218CN	5/16-18 CAP NUT	.500 (12,70)	.530 (13,46)
0531224CN	5/16-24 CAP NUT	.500 (12,70)	.530 (13,46)
0537516CN	3/8-16 CAP NUT	.560 (14,22)	.620 (15,75)
0537524CN	3/8-24 CAP NUT	.560 (14,22)	.620 (15,75)
0550013CN	1/2-13 CAP NUT	.750 (19,05)	.810 (20,57)
0562511CN	5/8-11 CAP NUT	.935 (23,75)	.970 (24,64)



NYLON KNURLED THUMB NUTS

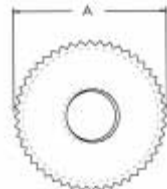
"A" AND "B" TOLERANCES +/- .010

ITEM NUMBER	DESCRIPTION	A	B	C
0800440TN	440 THUMB NUT	.300 (7,62)	.280 (7,11)	.120 (3,05)
0800632TN	632 THUMB NUT	.360 (9,14)	.275 (6,99)	.125 (3,18)
0800832TN	832 THUMB NUT	.425 (10,80)	.305 (7,75)	.140 (3,56)
0801024TN	1024 THUMB NUT	.425 (10,80)	.325 (8,26)	.140 (3,56)
0801032TN	1032 THUMB NUT	.425 (10,80)	.325 (8,26)	.140 (3,56)
0825020TN	1/4-20 THUMB NUT	.540 (13,72)	.365 (9,27)	.155 (3,94)
0831218TN	5/16-18 THUMB NUT	.612 (15,54)	.400 (10,16)	.170 (4,33)



NYLON KNURLED THUMB NUTS "A"

ITEM NUMBER	DESCRIPTION	A	B	C
0800440TNA	440 THUMB NUT "A"	.300 (7,62)	.280 (7,11)	.120 (3,05)
0800632TNA	632 THUMB NUT "A"	.360 (9,14)	.275 (6,99)	.125 (3,18)
0800832TNA	832 THUMB NUT "A"	.425 (10,80)	.305 (7,75)	.140 (3,56)
0801024TNA	1024 THUMB NUT "A"	.425 (10,80)	.325 (8,26)	.140 (3,56)
0801032TNA	1032 THUMB NUT "A"	.425 (10,80)	.325 (8,26)	.140 (3,56)
0825020TNA	1/4-20 THUMB NUT "A"	.540 (13,72)	.365 (9,27)	.155 (3,94)
0831218TNA	5/16-18 THUMB NUT "A"	.615 (15,62)	.385 (9,78)	.171 (4,34)
0837516TNA	3/8-16 THUMB NUT "A"	.687 (17,45)	.430 (10,92)	.187 (4,75)
0850013TNA	1/2-13 THUMB NUT "A"	.750 (19,05)	.468 (11,89)	.203 (5,16)



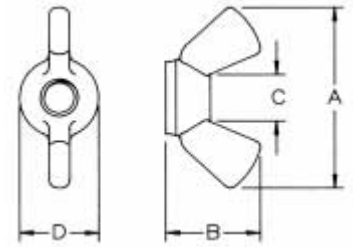
UNIVERSAL NUTS

STOCKED IN NYLON 6/6 UL 94V2 - CAN BE FURNISHED IN: ACETAL RESIN CELANESE CELCON M270 UL 94 HB

SECTION
III

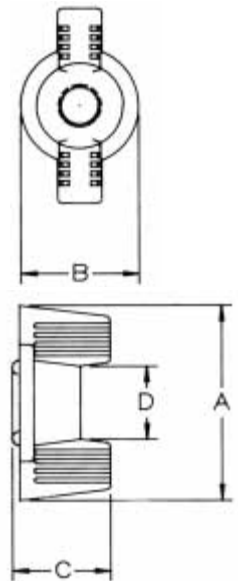
NYLON WING NUTS

ITEM NUMBER	DESCRIPTION	A		B		C		D	
0600440WN	440 WING NUT	.90	(22,86)	.48	(12,19)	.23	(5,84)	.40	(10,16)
0600632WN	632 WING NUT	.90	(22,86)	.48	(12,19)	.23	(5,84)	.40	(10,16)
0600832WN	832 WING NUT	.90	(22,86)	.48	(12,19)	.23	(5,84)	.40	(10,16)
0601024WN	1024 WING NUT	.90	(22,86)	.48	(12,19)	.23	(5,84)	.40	(10,16)
0601032WN	1032 WING NUT	.90	(22,86)	.48	(12,19)	.23	(5,84)	.40	(10,16)
0601024WNA	1024 WING NUT-A	1.10	(27,94)	.63	(16,00)	.30	(7,62)	.56	(14,22)
0601032WNA	1032 WING NUT-A	1.10	(27,94)	.63	(16,00)	.30	(7,62)	.56	(14,22)
0625020WNA	1/4-20 WING NUT-A	1.10	(27,94)	.63	(16,00)	.30	(7,62)	.56	(14,22)
0625028WNA	1/4-28 WING NUT-A	1.10	(27,94)	.63	(16,00)	.30	(7,62)	.56	(14,22)
0625020WN	1/4-20 WING NUT	1.36	(34,54)	.70	(17,78)	.36	(9,14)	.65	(16,51)
0625028WN	1/4-28 WING NUT	1.38	(35,05)	.72	(18,29)	.36	(9,14)	.65	(16,51)
0631218WN	5/16-18 WING NUT	1.38	(35,05)	.72	(18,29)	.36	(9,14)	.65	(16,51)
0637516WN	3/8-16 WING NUT	1.38	(35,05)	.72	(18,29)	.36	(9,14)	.65	(16,51)
0637524WN	3/8-24 WING NUT	.140	(35,56)	.72	(18,29)	.36	(9,14)	.64	(16,26)
0643714WN	7/16-14 WING NUT	1.76	(44,70)	.90	(22,86)	.56	(14,22)	.85	(21,59)
0650013WN	1/2-13 WING NUT	1.76	(44,70)	.90	(22,86)	.56	(14,22)	.85	(21,59)
0656212WN	9/16-12 WING NUT	1.76	(44,70)	.90	(22,86)	.56	(14,22)	.85	(21,59)



NYLON DECO WING NUTS

ITEM NUMBER	DESCRIPTION	A		B		C		D	
0600440DECOWN	440 DECO WING NUT	5/8"	(15,88)	3/8"	(9,53)	5/16"	(7,94)	15/64"	(5,94)
0600632DECOWN	632 DECO WING NUT	5/8"	(15,88)	3/8"	(9,53)	5/16"	(7,94)	15/64"	(5,94)
0600832DECOWN	832 DECO WING NUT	5/8"	(15,88)	3/8"	(9,53)	5/16"	(7,94)	15/64"	(5,94)
0601024DECOWN	1024 DECO WING NUT	7/8"	(22,23)	1/2"	(12,70)	7/16"	(11,10)	5/16"	(7,93)
0601032DECOWN	1032 DECO WING NUT	7/8"	(22,23)	1/2"	(12,70)	7/16"	(11,10)	5/16"	(7,93)
0625020DECOWN	1/4-20 DECO WING NUT	1-11/64"	(29,74)	5/8"	(15,88)	17/32"	(13,49)	3/8"	(9,53)
0637524DECOWN	3/8-24 DECO WING NUT	1-9/16"	(39,67)	63/64"	(25,0)	29/64"	(11,51)	21/32"	(16,66)



NYLON LOCKING DECO WING NUTS

Similar to our standard cap nut, except with a molded-in locking thread. Use for applications which require higher torque, vibration resistance or a more secure assembly.

ITEM NUMBER	DESCRIPTION	A		B		C		D	
0600440DLWN	440 LOCKING DECO WING NUT	5/8"	(15,88)	3/8"	(9,53)	5/16"	(7,94)	15/64"	(5,94)
0600632DLWN	632 LOCKING DECO WING NUT	5/8"	(15,88)	3/8"	(9,53)	5/16"	(7,94)	15/64"	(5,94)
0600832DLWN	832 LOCKING DECO WING NUT	5/8"	(15,88)	3/8"	(9,53)	5/16"	(7,94)	15/64"	(5,94)
0601024DLWN	1024 LOCKING DECO WING NUT	7/8"	(22,23)	1/2"	(12,70)	7/16"	(11,10)	5/16"	(7,93)
0601032DLWN	1032 LOCKING DECO WING NUT	7/8"	(22,23)	1/2"	(12,70)	7/16"	(11,10)	5/16"	(7,93)
0625020DLWN	1/4-20 LOCKING DECO WING NUT	1-11/64"	(29,74)	5/8"	(15,88)	17/32"	(13,49)	3/8"	(9,53)
*0631218DLWN	5/16-18 LOCKING DECO WING NUT	1-9/16"	(39,69)	63/64"	(25,00)	29/64"	(11,51)	39/64"	(15,48)



*Part is flush across wings

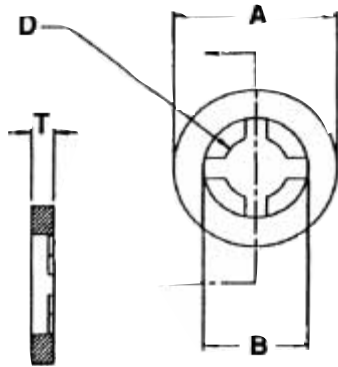
WASHERS, SHOULDER WASHERS AND SCREW INSULATORS

SECTION IV

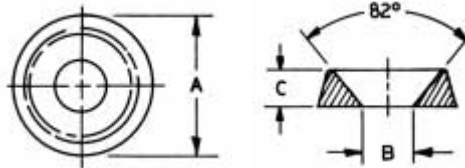


Similar to our standard flat washers, but with a specially configured I.D. designed to grip the outside of the screw shank. The washer slides on the screw easily, but is retained on the screw. For use in applications requiring pre-assembly of the screw and washer, to reduce final assembly cost. Other sizes will be tooled on request.

NYLON RETAINING WASHERS



ITEM NUMBER	DESCRIPTION	A	B	D	T
16FWRT002032	FWRT 2-032	13/64 (5,16)	.115 (2,92)	.078 (1,98)	.031 (0,79)
16FWRT002062	FWRT 2-062	13/64 (5,16)	.115 (2,92)	.078 (1,98)	.062 (1,58)
16FWRT004032	FWRT 4-032	17/64 (6,75)	.156 (3,96)	.102 (2,59)	.031 (0,79)
16FWRT004062	FWRT 4-062	17/64 (6,75)	.156 (3,96)	.102 (2,59)	.062 (1,58)
16FWRT004125	FWRT 4-125	17/64 (6,75)	.156 (3,96)	.102 (2,59)	.125 (3,18)
16FWRT006032	FWRT 6-032	21/64 (8,33)	.198 (5,03)	.128 (3,25)	.031 (0,79)
16FWRT006062	FWRT 6-062	21/64 (8,33)	.198 (5,03)	.128 (3,25)	.062 (1,58)
16FWRT008032	FWRT 8-032	25/64 (9,92)	.235 (5,97)	.152 (3,86)	.031 (0,79)
16FWRT008062	FWRT 8-062	25/64 (9,92)	.235 (5,97)	.152 (3,86)	.062 (1,58)
16FWRT010032	FWRT 10-032	29/64 (11,51)	.277 (7,04)	.177 (4,50)	.031 (0,79)
16FWRT010062	FWRT 10-062	29/64 (11,51)	.277 (7,04)	.177 (4,50)	.062 (1,58)
16FWRT250032	FWRT 250-032	19/32 (15,08)	.375 (9,53)	.234 (5,94)	.031 (0,79)
16FWRT250062	FWRT 250-062	19/32 (15,08)	.375 (9,53)	.234 (5,94)	.062 (1,58)
16FWRT312032	FWRT 312-032	47/64 (18,65)	.470 (11,94)	.292 (7,42)	.031 (0,79)
16FWRT312062	FWRT 312-062	47/64 (18,65)	.470 (11,94)	.292 (7,42)	.062 (1,58)
16FWRT375032	FWRT 375-032	57/64 (22,62)	.564 (14,33)	.350 (8,89)	.031 (0,79)
16FWRT375062	FWRT 375-062	57/64 (22,62)	.564 (14,33)	.350 (8,89)	.062 (1,58)
16FWRT437032	FWRT 437-032	1-1/34 (26,19)	.570 (14,48)	.410 (10,41)	.031 (0,79)
16FWRT437062	FWRT 437-062	1-1/32 (26,19)	.570 (14,48)	.410 (10,41)	.062 (1,58)
16FWRT500032	FWRT 500-032	1-1/8 (28,58)	.690 (17,53)	.468 (11,89)	.031 (0,79)
16FWRT500062	FWRT 500-062	1-1/8 (28,58)	.690 (17,53)	.468 (11,89)	.062 (1,58)



Available in natural or black nylon, these molded washers protect cabinets from scratching, cover misaligned holes, etc. May also be used as glides, bumpers, feet, and spacers.

NYLON FINISHING WASHERS

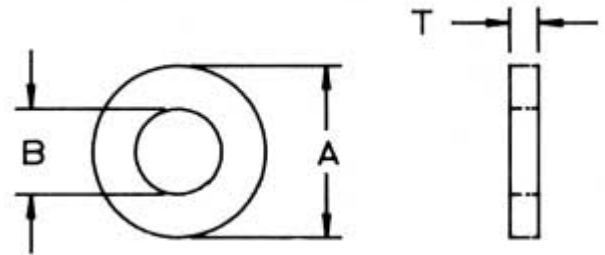
ITEM NUMBER	DESCRIPTION	A	B	C
11SFW0006	SFW 6	.437 (11,10)	.143 (3,63)	.100 (2,54)
11SFW0008	SFW 8	.510 (12,95)	.171 (4,34)	.115 (2,92)
11SFW0010	SFW 10	.575 (14,61)	.196 (4,98)	.152 (3,86)
11SFW0012	SFW 12	.609 (15,47)	.225 (5,75)	.160 (4,06)
11SFW0025	SFW 25	.683 (17,35)	.260 (6,61)	.180 (4,57)



WASHERS, SHOULDER WASHERS AND SCREW INSULATORS

SECTION
IV

We will also tool custom flatwashers for a nominal engineering charge .
Size range up to 3" O.D. Minimum thickness 1/32"



NYLON STANDARD FLAT WASHERS

ITEM NUMBER	DESCRIPTION	A	B	T
16FW002032	FW 2-032	1/4 (6,35)	.090 (2,29)	.032 (0,81)
16FW002062	FW 2-062	1/4 (6,35)	.090 (2,29)	.062 (1,58)
16FW002093	FW 2-093	1/4 (6,35)	.090 (2,29)	.093 (2,36)
16FW002125	FW 2-125	1/4 (6,35)	.090 (2,29)	.125 (3,18)
16FW004032	FW 4-032	1/4 (6,35)	.115 (2,92)	.032 (0,81)
16FW004062	FW 4-062	1/4 (6,35)	.115 (2,92)	.062 (1,58)
16FW004093	FW 4-093	1/4 (6,35)	.115 (2,92)	.093 (2,36)
16FW004125	FW 4-125	1/4 (6,35)	.115 (2,92)	.125 (3,18)
16FW006032	FW 6-032	5/16 (7,94)	.140 (3,56)	.032 (0,81)
16FW006062	FW 6-062	5/16 (7,94)	.140 (3,56)	.062 (1,58)
16FW006093	FW 6-093	5/16 (7,94)	.140 (3,56)	.093 (2,36)
16FW006125	FW 6-125	5/16 (7,94)	.140 (3,56)	.125 (3,18)
16FW008032	FW 8-032	3/8 (9,53)	.171 (4,34)	.032 (0,81)
16FW008062	FW 8-062	3/8 (9,53)	.171 (4,34)	.062 (1,58)
16FW008093	FW 8-093	3/8 (9,53)	.171 (4,34)	.093 (2,36)
16FW008125	FW 8-125	3/8 (9,53)	.171 (4,34)	.125 (3,18)
16FW010032	FW 10-032	3/8 (9,53)	.194 (4,93)	.032 (0,81)
16FW010062	FW 10-062	3/8 (9,53)	.194 (4,93)	.062 (1,58)
16FW010093	FW 10-093	3/8 (9,53)	.194 (4,93)	.093 (2,36)
16FW010125	FW 10-125	3/8 (9,53)	.194 (4,93)	.125 (3,18)
16FW250032	FW 250-032	1/2 (12,70)	.257 (6,53)	.032 (0,81)
16FW250062	FW 250-062	1/2 (12,70)	.257 (6,53)	.062 (1,58)
16FW250093	FW 250-093	1/2 (12,70)	.257 (6,53)	.093 (2,36)
16FW250125	FW 250-125	1/2 (12,70)	.257 (6,53)	.125 (3,18)
16FW312032	FW 312-032	1/2 (12,70)	.317 (8,05)	.032 (0,81)
16FW312062	FW 312-062	1/2 (12,70)	.317 (8,05)	.062 (1,58)
16FW312093	FW 312-093	1/2 (12,70)	.317 (8,05)	.093 (2,36)
16FW312125	FW 312-125	1/2 (12,70)	.317 (8,05)	.125 (3,18)
16FW375032	FW 375-032	5/8 (15,88)	.375 (9,53)	.032 (0,81)
16FW375062	FW 375-062	5/8 (15,88)	.380 (9,65)	.062 (1,58)
16FW375093	FW 375-093	5/8 (15,88)	.380 (9,65)	.093 (2,36)
16FW375125	FW 375-125	5/8 (15,88)	.380 (9,65)	.125 (3,18)
16FW437032	FW 437-032	3/4 (19,05)	.443 (11,25)	.032 (0,81)
16FW437062	FW 437-062	3/4 (19,05)	.443 (11,25)	.062 (1,58)
16FW437093	FW 437-093	3/4 (19,05)	.443 (11,25)	.093 (2,36)
16FW437125	FW 437-125	3/4 (19,05)	.443 (11,25)	.125 (3,18)
16FW500032	FW 500-032	3/4 (19,05)	.505 (12,83)	.032 (0,81)
16FW500062	FW 500-062	3/4 (19,05)	.505 (12,83)	.062 (1,58)
16FW500093	FW 500-093	3/4 (19,05)	.505 (12,83)	.093 (2,36)
16FW500125	FW 500-125	3/4 (19,05)	.505 (12,83)	.125 (3,18)



WASHERS, SHOULDER WASHERS AND SCREW INSULATORS

SECTION IV

NYLON SPECIAL FLAT WASHERS

ITEM NUMBER	DESCRIPTION	A		B		T	
17W00901	W 901	.090	(2,29)	.031	(0,79)	.031	(0,79)
17W01001	W 1001	.100	(2,54)	.035	(0,89)	.020	(0,51)
17W01011	W 1011	.125	(3,18)	.032	(0,81)	.060	(1,57)
17W01012	W 1012	.120	(3,05)	.063	(1,60)	.180	(4,57)
17W01013	W 1013	.120	(3,05)	.045	(1,14)	.130	(3,30)
17W01045	W 1045	.153	(3,89)	.031	(0,79)	.062	(1,57)
17W01381	W 1381	.138	(3,51)	.040	(1,02)	.033	(0,84)
17W01560	W 1560	.156	(3,96)	.050	(2,00)	.200	(5,08)
17W01566	W 1566	.156	(3,96)	.076	(1,93)	.062	(1,57)
17W01581	W 1581	.158	(4,01)	.110	(2,79)	.070	(1,79)
17W01701	W 1701	.170	(4,32)	.038	(0,97)	.060	(1,52)
17W01702	W 1702	.182	(4,62)	.120	(3,05)	.125	(3,17)
17W01784	W 1784	.178	(4,52)	.098	(2,49)	.045	(1,14)
17W01791	W 1791	.179	(4,55)	.065	(1,65)	.078	(1,98)
17W01802	W 1802	.180	(4,57)	.139	(3,53)	.064	(1,63)
17W01803	W 1803	.186	(4,72)	.098	(2,49)	.030	(1,02)
17W01804	W 1804	.187	(4,75)	.120	(3,05)	.060	(1,52)
17W01805	W 1805	.187	(4,75)	.086	(2,18)	.130	(3,30)
17W01809	W 1809	.187	(4,75)	.141	(3,58)	.125	(3,18)
17W01815	W 1815	.188	(4,78)	.094	(2,39)	.020	(0,51)
17W01825	W 1825	.196	(4,98)	.085	(2,16)	.031	(0,79)
17W01870	W 1870	.187	(4,75)	.120	(3,05)	.062	(1,57)
17W01871	W 1871	.185	(4,70)	.051	(1,30)	.132	(3,35)
17W01875	W 1875	.187	(4,75)	.130	(3,30)	.150	(3,81)
17W01900	W 1900	.199	(5,05)	.115	(2,95)	.050	(1,27)
17W01906	W 1906	.206	(5,23)	.112	(2,84)	.053	(1,35)
17W01910	W 1910	.190	(4,83)	.120	(3,05)	.100	(2,54)
17W01950	W 1950	.197	(5,00)	.115	(2,92)	.030	(0,76)
17W01970	W 1970	.197	(5,00)	.100	(2,54)	.156	(3,96)
17W01994	W 1994	.199	(5,05)	.125	(3,18)	.045	(1,14)
17W02181	W 2181	.218	(5,54)	.120	(3,05)	.037	(0,94)
17W02190	W 2190	.220	(5,59)	.104	(2,64)	.031	(0,79)
17W02191	W 2191	.219	(5,56)	.094	(2,39)	.100	(2,54)
17W02245	W 2245	.225	(5,72)	.150	(3,81)	.045	(1,14)
17W02251	W 2251	.225	(5,72)	.125	(3,18)	.100	(2,54)
17W02349	W 2349	.234	(5,94)	.141	(3,58)	.090	(2,29)
17W02350	W 2350	.235	(5,97)	.125	(3,18)	.040	(1,02)
17W02401	W 2401	.240	(6,10)	.113	(2,87)	.040	(1,02)
17W02450	W 2450	.245	(6,22)	.195	(4,95)	.125	(3,18)
17W02451	W 2451	.245	(6,22)	.128	(3,25)	.093	(2,36)
17W02460	W 2460	.246	(6,25)	.171	(4,34)	.100	(2,54)
17W02501	W 2501	.250	(6,35)	.160	(4,07)	.062	(1,57)
17W02502	W 2502	.250	(6,35)	.126	(3,20)	.025	(0,64)
17W02503	W 2503	.250	(6,35)	.090	(2,29)	.055	(1,40)
17W02504	W 2504	.250	(6,35)	.141	(3,58)	.062	(1,57)
17W02505	W 2505	.260	(6,60)	.140	(3,56)	.080	(2,03)
17W02506	W 2506	.250	(6,35)	.125	(3,18)	.095	(2,41)
17W02507	W 2507	.250	(6,35)	.140	(3,56)	.094	(2,39)
17W02508	W 2508	.250	(6,35)	.125	(3,18)	.062	(1,57)



NYLON SPECIAL FLAT WASHERS

ITEM NUMBER	DESCRIPTION	A	B	T
17W02509	W 2509	.250 (6,35)	.171 (4,34)	.100 (2,54)
17W02510	W 2510	.250 (6,35)	.187 (4,75)	.130 (3,30)
17W02511	W 2511	.250 (6,35)	.142 (3,61)	.110 (2,79)
17W02512	W 2512	.250 (6,35)	.147 (3,73)	.125 (3,18)
17W02515	W 2515	.250 (6,35)	.140 (3,56)	.150 (3,81)
17W02516	W 2516	.251 (6,38)	.151 (3,84)	.035 (0,88)
17W02517	W 2517	.250 (6,35)	.156 (3,96)	.100 (2,54)
17W02518	W 2518	.250 (6,35)	.125 (3,18)	.150 (3,81)
17W02564	W 2564	.256 (6,50)	.187 (4,75)	.045 (1,14)
17W02591	W 2591	.259 (6,58)	.081 (2,06)	.062 (1,57)
17W02595	W 2595	.295 (7,49)	.135 (3,43)	.127 (3,23)
17W02751	W 2751	.275 (6,99)	.120 (3,05)	.062 (1,57)
17W02752	W 2752	.270 (6,86)	.207 (5,26)	.05 (1,27)
17W02780	W 2780	.278 (7,06)	.122 (3,10)	.050 (1,27)
17W02781	W 2781	.280 (7,11)	.210 (5,33)	.125 (3,18)
17W02811	W 2811	.288 (7,32)	.120 (3,05)	.040 (1,02)
17W02812	W 2812	.290 (7,38)	.115 (2,92)	.047 (1,19)
17W02813	W 2813	.280 (7,11)	.120 (3,05)	.030 (0,76)
17W02814	W 2814	.281 (7,14)	.120 (3,05)	.020 (0,51)
17W02815	W 2815	.281 (7,14)	.120 (3,05)	.040 (1,02)
17W02816	W 2816	.281 (7,14)	.120 (3,05)	.060 (1,52)
17W02817	W 2817	.280 (7,11)	.155 (3,94)	.160 (4,06)
17W02818	W 2818	.281 (7,14)	.140 (3,56)	.020 (0,51)
17W02851	W 2851	.285 (7,84)	.130 (3,30)	.060 (1,52)
17W02852	W 2852	.285 (7,24)	.160 (4,06)	.032 (0,81)
17W02862	W 2862	.282 (7,16)	.190 (4,83)	.065 (1,65)
17W02951	W 2951	.295 (7,49)	.220 (5,59)	.127 (3,23)
17W02952	W 2952	.310 (7,87)	.138 (3,50)	.030 (7,62)
17W02953	W 2953	.310 (7,87)	.190 (4,83)	.032 (0,81)
17W03121	W 3121	.312 (7,92)	.187 (4,75)	.050 (1,27)
17W03122	W 3122	.312 (7,92)	.095 (2,41)	.062 (1,57)
17W03123	W 3123	.318 (8,08)	.130 (3,30)	.062 (1,57)
17W03124	W 3124	.312 (7,92)	.110 (2,79)	.125 (3,18)
17W03125	W 3125	.312 (7,92)	.062 (1,57)	.125 (3,18)
17W03126	W 3126	.312 (7,92)	.115 (2,92)	.140 (3,56)
17W03127	W 3127	.312 (7,92)	.140 (3,56)	.047 (1,19)
17W03128	W 3128	.320 (8,13)	.156 (3,96)	.031 (0,79)
17W03129	W 3129	.312 (7,92)	.228 (5,79)	.250 (6,35)
17W03130	W 3130	.312 (7,92)	.162 (4,11)	.062 (1,57)
17W03131	W 3131	.312 (7,92)	.150 (3,81)	.020 (0,51)
17W03132	W 3132	.312 (7,92)	.125 (3,18)	.032 (0,81)
17W03133	W 3133	.312 (7,92)	.260 (6,60)	.127 (3,23)
17W03134	W 3134	.312 (7,92)	.150 (3,81)	.030 (0,76)
17W03135	W 3135	.312 (7,92)	.192 (4,88)	.110 (2,79)
17W03136	W 3136	.313 (7,95)	.217 (5,51)	.125 (3,18)
17W03137	W 3137	.312 (7,92)	.150 (3,81)	.040 (1,02)
17W03138	W 3138	.312 (7,92)	.150 (3,81)	.050 (1,27)
17W03139	W 3139	.312 (7,92)	.150 (3,81)	.060 (1,52)
17W03141	W 3141	.314 (7,98)	.110 (2,79)	.062 (1,57)



WASHERS, SHOULDER WASHERS AND SCREW INSULATORS

SECTION IV

NYLON SPECIAL FLAT WASHERS

ITEM NUMBER	DESCRIPTION	A		B		T	
17W03142	W 3142	.312	(7,92)	.260	(6,60)	.070	(0,78)
17W03145	W 3145	.312	(7,92)	.063	(1,60)	.090	(2,29)
17W03148	W 3148	.315	(8,00)	.125	(3,18)	.031	(0,79)
17W03150	W 3150	.315	(8,00)	.157	(3,98)	.197	(5,00)
17W03221	W 3221	.322	(8,18)	.128	(3,25)	.062	(1,57)
17W03280	W 3280	.329	(8,36)	.150	(3,81)	.060	(1,52)
17W03281	W 3281	.335	(8,51)	.280	(7,11)	.195	(4,95)
17W03351	W 3351	.335	(8,51)	.190	(4,83)	.032	(0,81)
17W03412	W 3412	.434	(11,02)	.190	(4,83)	.125	(3,18)
17W03501	W 3501	.350	(8,89)	.240	(6,10)	.040	(1,02)
17W03505	W 3505	.355	(9,02)	.130	(3,30)	.062	(1,57)
17W03510	W 3510	.350	(8,89)	.260	(6,60)	.062	(1,57)
17W03540	W 3540	.354	(8,99)	.169	(4,29)	.031	(0,79)
17W03541	W 3541	.353	(8,97)	.197	(5,00)	.157	(3,99)
17W03601	W 3601	.374	(9,50)	.220	(5,59)	.062	(1,57)
17W03750	W 3750	.375	(9,53)	.150	(3,81)	.030	(0,76)
17W03751	W 3751	.375	(9,53)	.172	(4,37)	.060	(1,52)
17W03752	W 3752	.375	(9,53)	.190	(4,83)	.065	(1,65)
17W03753	W 3753	.375	(9,53)	.131	(3,33)	.093	(2,36)
17W03754	W 3754	.375	(9,53)	.250	(6,35)	.093	(2,36)
17W03755	W 3755	.375	(9,53)	.218	(5,54)	.032	(0,81)
17W03756	W 3756	.375	(9,53)	.253	(6,43)	.084	(2,13)
17W03757	W 3757	.375	(9,53)	.141	(3,58)	.031	(0,79)
17W03758	W 3758	.375	(9,53)	.125	(3,18)	.040	(1,02)
17W03759	W 3759	.375	(9,53)	.094	(2,39)	.281	(7,14)
17W03760	W 3760	.375	(9,53)	.242	(6,15)	.062	(1,57)
17W03761	W 3761	.375	(9,53)	.210	(5,33)	.160	(4,06)
17W03762	W 3762	.375	(9,53)	.170	(4,32)	.040	(1,02)
17W03763	W 3763	.375	(9,53)	.170	(4,32)	.050	(1,27)
17W03765	W 3765	.375	(9,53)	.140	(3,56)	.080	(2,03)
17W03766	W 3766	.375	(9,53)	.153	(3,89)	.063	(1,60)
17W03767	W 3767	.377	(9,58)	.221	(5,61)	.095	(2,41)
17W03768	W 3768	.375	(9,53)	.250	(6,35)	.150	(1,27)
17W03769	W 3769	.375	(9,53)	.210	(5,33)	.152	(3,86)
17W03772	W 3772	.375	(9,53)	.125	(3,18)	.072	(1,83)
17W03801	W 3801	.380	(9,65)	.200	(5,08)	.030	(0,76)
17W03802	W 3802	.380	(9,65)	.187	(4,75)	.155	(3,94)
17W03820	W 3820	.382	(9,70)	.255	(6,48)	.195	(4,95)
17W03901	W 3901	.390	(9,91)	.200	(5,08)	.031	(0,79)
17W03902	W 3902	.389	(9,88)	.251	(6,37)	.125	(3,17)
17W03903	W 3903	.390	(9,91)	.328	(8,33)	.079	(2,01)
17W04061	W 4061	.406	(10,31)	.234	(5,94)	.062	(1,57)
17W04081	W 4081	.408	(10,36)	.177	(4,50)	.062	(1,57)
17W04250	W 4250	.425	(10,79)	.235	(5,97)	.130	(3,30)
17W04330	W 4330	.435	(11,05)	.209	(5,31)	.039	(0,99)
17W04350	W 4350	.435	(11,05)	.202	(5,13)	.187	(4,75)
17W04351	W 4351	.435	(11,05)	.250	(6,35)	.094	(2,39)
17W04352	W 4352	.435	(11,05)	.196	(4,98)	.046	(1,17)
17W04353	W 4353	.438	(11,13)	.218	(5,54)	.156	(3,96)
17W04371	W 4371	.437	(11,10)	.200	(5,08)	.062	(1,57)
17W04372	W 4372	.437	(11,10)	.260	(6,60)	.047	(1,19)
17W04372	W 4372	7/16"	(11,10)	11/32"	(8,74)	1/16"	(0,81)
17W04373	W 4373	.437	(11,10)	.195	(4,95)	.031	(0,79)



NYLON SPECIAL FLAT WASHERS

ITEM NUMBER	DESCRIPTION	A		B		T	
17W04374	W 4374	.437	(11,10)	.200	(5,08)	.115	(2,92)
17W04375	W 4375	.437	(11,10)	.200	(5,08)	.090	(2,29)
17W04376	W 4376	.437	(11,10)	.195	(4,95)	.020	(0,51)
17W04377	W 4377	.437	(11,10)	.195	(4,95)	.040	(1,02)
17W04378	W 4378	.437	(11,10)	.195	(4,95)	.050	(1,27)
17W04379	W 4379	.437	(11,10)	.195	(4,95)	.060	(1,27)
17W04380	W 4380	7/16	(11,10)	11/32	(8,74)	1/16	(0,81)
17W04386	W 4386	.438	(11,13)	.156	(3,96)	.062	(1,57)
17W04400	W 4400	.440	(11,18)	.156	(3,96)	.032	(0,81)
17W04401	W 4401	.445	(11,30)	.290	(7,37)	.033	(0,84)
17W04402	W 4402	.440	(11,18)	.187	(4,75)	.093	(2,36)
17W04430	W 4430	.443	(11,25)	.253	(6,43)	.125	(3,18)
17W04450	W 4450	.450	(11,43)	.225	(5,72)	.048	(1,22)
17W04451	W 4451	.453	(11,51)	.375	(9,52)	.062	(1,57)
17W04501	W 4501	.450	(11,43)	.200	(5,08)	.048	(1,22)
17W04502	W 4502	.465	(11,81)	.250	(6,35)	.015	(0,38)
17W04719	W 4719	.492	(12,50)	.209	(5,31)	.020	(0,51)
17W04720	W 4720	.472	(11,99)	.252	(6,40)	.059	(1,50)
17W04721	W 4721	.505	(12,83)	.375	(9,53)	.050	(1,27)
17W04725	W 4725	.495	(12,57)	.310	(7,87)	.095	(2,41)
17W04950	W 4950	.490	(12,45)	.260	(6,60)	.245	(6,22)
17W05000	W 5000	.500	(12,70)	.165	(4,19)	.075	(1,91)
17W05001	W 5001	.500	(12,70)	.343	(8,71)	.109	(2,77)
17W05002	W 5002	.500	(12,70)	.385	(9,78)	.160	(4,06)
17W05003	W 5003	.490	(12,45)	.281	(7,14)	.030	(0,76)
17W05004	W 5004	.500	(12,70)	.317	(8,05)	.032	(0,81)
17W05005	W 5005	.500	(12,70)	.375	(9,53)	.087	(2,21)
17W05006	W 5006	.500	(12,70)	.312	(7,92)	.156	(3,96)
17W05007	W 5007	.500	(12,70)	.250	(6,35)	.150	(3,81)
17W05008	W 5008	.500	(12,70)	.188	(4,78)	.032	(0,81)
17W05009	W 5009	.500	(12,70)	.255	(6,48)	.075	(1,91)
17W05010	W 5010	.500	(12,70)	.312	(7,92)	.125	(3,18)
17W05012	W 5012	.50	(12,70)	.125	(3,18)	.125	(3,18)
17W05013	W 5013	.500	(12,70)	.320	(8,13)	.170	(4,32)
17W05015	W 5015	.500	(12,70)	.144	(3,66)	.125	(3,18)
17W05016	W 5016	.500	(12,70)	.219	(5,54)	.156	(3,90)
17W05017	W 5017	.50	(12,70)	.262	(6,65)	.15	(3,81)
17W05020	W 5020	.500	(12,70)	.320	(8,13)	.200	(5,08)
17W05027	W 5027	1/2	(12,70)	.320	(8,13)	.250	(6,35)
17W05028	W 5028	.500	(12,70)	.320	(8,13)	.281	(7,14)
17W05120	W 5120	.510	(12,95)	.193	(4,90)	.050	(1,27)
17W05230	W 5230	.523	(13,28)	.463	(11,76)	.060	(1,52)
17W05251	W 5251	.530	(13,46)	.375	(9,53)	.093	(2,36)
17W05252	W 5252	.528	(13,41)	.402	(10,21)	.039	(0,99)
17W05253	W 5253	.525	(13,34)	.475	(12,07)	.070	(1,78)
17W05254	W 5254	.525	(13,34)	.194	(4,93)	.032	(0,81)
17W05310	W 5310	.531	(13,49)	.313	(7,95)	.031	(0,79)
17W05400	W 5400	.540	(13,72)	.405	(10,29)	.112	(2,84)
17W05451	W 5451	.547	(13,89)	.363	(9,22)	.062	(1,57)
17W05461	W 5461	.554	(14,07)	.481	(12,22)	.030	(0,76)
17W05552	W 5552	.555	(14,10)	.255	(6,48)	.047	(1,19)
17W05601	W 5601	.560	(14,22)	.265	(6,73)	.030	(0,76)
17W05602	W 5602	.560	(14,22)	.260	(6,60)	.125	(3,18)



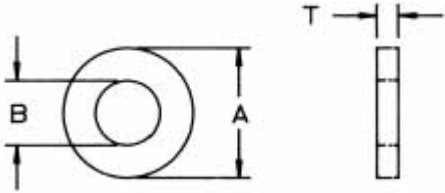
WASHERS, SHOULDER WASHERS AND SCREW INSULATORS

SECTION IV

NYLON SPECIAL FLAT WASHERS

ITEM NUMBER	DESCRIPTION	A	B	T
17W05603	W 5603	.560 (14,22)	.320 (8,13)	.187 (4,75)
17W05605	W 5605	.560 (14,22)	.373 (9,47)	.031 (0,79)
17W05620	W 5620	.562 (14,27)	.141 (3,58)	.062 (1,57)
17W05621	W 5621	.562 (14,27)	.250 (6,35)	.031 (0,79)
17W05622	W 5622	.562 (14,27)	.260 (6,60)	.062 (1,57)
17W05623	W 5623	.562 (14,27)	.203 (5,16)	.062 (1,57)
17W05624	W 5624	.562 (14,27)	.320 (8,13)	.020 (0,51)
17W05629	W 5629	.562 (14,27)	.328 (8,33)	.095 (2,41)
17W05630	W 5630	.565 (14,35)	.317 (8,05)	.095 (2,41)
17W05650	W 5650	.565 (14,35)	.254 (6,45)	.094 (2,39)
17W05700	W 5700	.578 (14,68)	.307 (7,80)	.125 (3,18)
17W05980	W 5980	.598 (15,19)	.396 (10,03)	.175 (4,45)
17W05981	W 5981	.562 (14,27)	.320 (8,13)	.125 (3,18)
17W05982	W 5982	.590 (14,99)	.328 (8,33)	.147 (3,73)
17W06150	W 6150	.615 (15,62)	.260 (6,60)	.100 (2,54)
17W06151	W 6151	.625 (15,88)	.500 (12,70)	.132 (3,35)
17W06152	W 6152	.615 (15,62)	.340 (8,64)	.125 (3,18)
17W06153	W 6153	.625 (15,88)	.406 (10,31)	.120 (3,05)
17W06201	W 6201	.620 (15,75)	.265 (6,73)	.192 (4,89)
17W06203	W 6203	.620 (15,75)	.209 (5,31)	.187 (4,75)
17W06204	W 6204	.620 (15,75)	.350 (8,89)	.188 (4,78)
17W06205	W 6205	.625 (15,88)	.410 (10,41)	.033 (8,38)
17W06206	W 6206	.625 (15,88)	.260 (6,60)	.140 (3,56)
17W06221	W 6221	.622 (15,80)	.252 (6,40)	.060 (1,52)
17W06222	W 6222	.625 (15,88)	.250 (6,35)	.190 (4,83)
17W06240	W 6240	.625 (15,88)	.505 (12,83)	.092 (2,34)
17W06250	W 6250	.625 (15,88)	.165 (4,19)	.250 (6,35)
17W06251*	W 6251	.620 (15,87)	.301 (7,64)	.039 (0,99)
17W06252	W 6252	.625 (15,88)	.194 (4,93)	.125 (3,18)
17W06253	W 6253	.625 (15,88)	.187 (4,75)	.062 (1,57)
17W06254	W 6254	.625 (15,88)	.218 (5,54)	.062 (1,57)
17W06255	W 6255	.625 (15,88)	.250 (6,35)	.062 (1,57)
17W06256	W 6256	.625 (15,88)	.437 (11,10)	.093 (2,36)
17W06257	W 6257	.625 (15,88)	.125 (3,18)	.062 (1,57)
17W06258	W 6258	.625 (15,88)	.218 (5,54)	.125 (3,18)
17W06259	W 6259	.625 (15,88)	.218 (5,54)	.500 (12,70)
17W06260	W 6260	.625 (15,88)	.218 (5,54)	.250 (6,35)
17W06261	W 6261	.625 (15,88)	.390 (9,91)	.265 (6,73)
17W06262	W 6262	.625 (15,88)	.257 (6,53)	.020 (0,51)
17W06263	W 6263	.625 (15,88)	.281 (7,14)	.110 (2,79)
17W06264	W 6264	.625 (15,88)	.315 (8,00)	.031 (0,79)
17W06265	W 6265	.625 (15,88)	.422 (10,72)	.203 (5,16)
17W06266	W 6266	.625 (15,88)	.315 (8,00)	.125 (3,18)
17W06267	W 6267	.625 (15,88)	.218 (5,54)	.031 (0,79)
17W06268	W 6268	.625 (15,88)	.437 (11,10)	.250 (6,35)
17W06269	W 6269	5/8 (15,87)	.281 (7,14)	.210 (5,33)
17W06270	W 6270	.618 (15,70)	.270 (6,86)	.220 (5,59)
17W06271	W 6271	.630 (16,00)	.327 (8,31)	.075 (1,91)
17W06272	W 6272	.625 (15,88)	.385 (9,78)	.185 (4,70)
17W06273	W 6273	.625 (15,88)	.312 (7,92)	.250 (6,35)
17W06289	W 6289	.625 (15,88)	.265 (6,73)	.093 (2,36)
17W06302	W 6302	.630 (16,00)	.171 (4,34)	.060 (1,52)
17W06303	W 6303	.638 (16,20)	.283 (7,19)	.077 (1,96)

* ID IS CHAMFERED



NYLON SPECIAL FLAT WASHERS

ITEM NUMBER	DESCRIPTION	A	B	T
17W06310	W 6310	.630 (16,00)	.280 (7,11)	.030 (0,76)
17W06500	W 6500	.650 (16,51)	.440 (11,18)	.125 (3,18)
17W06711	W 6711	.671 (17,04)	.481 (12,22)	.031 (0,79)
17W06820	W 6820	.682 (17,32)	.170 (4,32)	.062 (1,57)
17W06830	W 6830	.683 (17,35)	.337 (8,56)	.063 (1,60)
17W06851	W 6851	.685 (17,40)	.260 (6,60)	.032 (0,81)
17W06855	W 6855	.685 (17,40)	.295 (7,49)	.062 (1,57)
17W06856	W 6856	.695 (17,65)	.388 (9,85)	.059 (1,50)
17W06867	W 6867	.687 (17,45)	.343 (8,71)	.031 (0,79)
17W06868	W 6868	.687 (17,45)	.260 (6,60)	.020 (0,51)
17W06869	W 6869	.687 (17,45)	.260 (6,60)	.050 (1,27)
17W06870	W 6870	.687 (17,45)	.344 (8,79)	.064 (1,63)
17W06871	W 6871	.687 (17,45)	.260 (6,60)	.060 (1,52)
17W06872	W 6872	.687 (17,45)	.260 (6,60)	.040 (1,02)
17W06873	W 6873	.692 (17,58)	.421 (10,69)	.031 (0,79)
17W06874	W 6874	.687 (17,45)	.421 (10,69)	.062 (1,57)
17W06875	W 6875	.692 (17,58)	.507 (12,88)	.042 (1,07)
17W06876	W 6876	.687 (17,45)	.568 (14,43)	.062 (1,57)
17W06877	W 6877	.680 (17,27)	.390 (9,91)	.125 (3,18)
17W06878	W 6878	.687 (17,45)	.156 (3,96)	.135 (3,43)
17W06879	W 6879	.687 (17,45)	.280 (7,11)	.031 (0,79)
17W06880	W 6880	.680 (17,27)	.318 (8,08)	.187 (4,75)
17W06881	W 6881	.688 (17,48)	.390 (9,91)	.031 (0,79)
17W06882	W 6882	.688 (17,48)	.318 (8,08)	.190 (4,83)
17W06934	W 6934	.695 (17,65)	.082 (2,08)	.184 (4,67)
17W07001	W 7001	.700 (17,78)	.565 (14,35)	.062 (1,57)
17W07051	W 7051	.715 (18,16)	.570 (14,48)	.100 (2,54)
17W07090	W 7090	.709 (18,01)	.336 (8,53)	.079 (2,01)
17W07091	W 7091	.709 (18,01)	.461 (11,71)	.110 (2,79)
17W07092	W 7092	.697 (17,70)	.531 (13,49)	.158 (4,01)
17W07093	W 7093	.71 (18,03)	.49 (12,45)	.125 (3,17)
17W07120	W 7120	.712 (18,08)	.522 (13,30)	.062 (1,57)
17W07130	W 7130	.713 (18,11)	.463 (11,76)	.065 (1,65)
17W07181	W 7181	.718 (18,24)	.526 (13,36)	.219 (5,56)
17W07182	W 7182	.718 (18,24)	.526 (13,36)	.281 (7,14)
17W07191	W 7191	.719 (18,26)	.250 (6,35)	.062 (1,57)
17W07192	W 7192	.719 (18,26)	.281 (7,14)	.062 (1,57)
17W07301	W 7301	.720 (18,29)	.390 (9,91)	.300 (7,62)
17W07302	W 7302	.731 (18,57)	.266 (6,76)	.118 (3,00)
17W07381	W 7381	.740 (18,80)	.220 (5,59)	.120 (3,05)
17W07401	W 7401	.740 (18,80)	.340 (8,64)	.062 (1,57)
17W07402	W 7402	.750 (19,05)	.375 (9,53)	.062 (1,57)
17W07403	W 7403	.748 (19,00)	.395 (10,03)	.093 (2,36)
17W07491	W 7491	.750 (19,05)	.191 (4,85)	.100 (2,54)
17W07493	W 7493	.738 (18,75)	.220 (5,59)	.155 (3,94)
17W07500	W 7500	.750 (19,05)	.261 (6,63)	.095 (2,41)
17W07501	W 7501	.750 (19,05)	.187 (4,75)	.156 (3,96)
17W07502	W 7502	.735 (18,67)	.360 (9,14)	.160 (4,06)
17W07503	W 7503	.750 (19,05)	.323 (8,20)	.125 (3,18)
17W07504	W 7504	.738 (18,75)	.382 (9,70)	.160 (4,06)
17W07505	W 7505	.740 (18,79)	.531 (13,49)	.187 (4,75)
17W07506	W 7506	.750 (19,05)	.390 (9,91)	.062 (1,57)
17W07507	W 7507	.750 (19,05)	.352 (8,94)	.031 (0,79)



WASHERS, SHOULDER WASHERS AND SCREW INSULATORS

SECTION IV

NYLON SPECIAL FLAT WASHERS



ITEM NUMBER	DESCRIPTION	A	B	T
17W07508	W 7508	.750 (19,05)	.390 (9,91)	.050 (1,27)
17W07509	W 7509	.750 (19,05)	.390 (9,91)	.140 (3,56)
17W07510	W 7510	.750 (19,05)	.530 (13,46)	.230 (5,84)
17W07511	W 7511	.750 (19,05)	.625 (15,88)	.170 (4,32)
17W07512	W 7512	.750 (19,05)	.385 (9,78)	.200 (5,08)
17W07513	W 7513	.750 (19,05)	.317 (8,05)	.062 (1,57)
17W07514	W 7514	.750 (19,05)	.193 (4,90)	.040 (1,02)
17W07516	W 7516	.750 (19,05)	.382 (9,70)	.066 (1,68)
17W07517	W 7517	.750 (19,05)	.406 (10,31)	.032 (0,81)
17W07518	W 7518	.745 (18,92)	.443 (11,25)	.095 (2,41)
17W07519	W 7519	.750 (19,05)	.218 (5,54)	.187 (4,75)
17W07520	W 7520	.745 (18,92)	.260 (6,60)	.066 (1,68)
17W07521	W 7521	.750 (19,05)	.320 (8,13)	.250 (6,35)
17W07523	W 7523	.745 (18,92)	.260 (6,60)	.125 (3,18)
17W07524	W 7524	.743 (18,87)	.514 (13,06)	.093 (2,36)
17W07525	W 7525	.750 (19,05)	.406 (10,31)	.200 (5,08)
17W07527	W 7527	.750 (19,05)	.375 (9,53)	.125 (3,18)
17W07528	W 7528	.750 (19,05)	.385 (9,78)	.020 (0,51)
17W07529	W 7529	.75 (19,05)	.31 (7,87)	.375 (9,53)
17W07530	W 7530	.750 (19,05)	.257 (6,53)	.062 (1,57)
17W07531	W 7531	.755 (19,18)	.558 (14,17)	.030 (0,76)
17W07532	W 7532	.750 (19,05)	.150 (3,81)	.055 (1,40)
17W07533	W 7533	.750 (19,05)	.47 (11,94)	.200 (5,08)
17W07534	W 7534	.685 (17,40)	.473 (12,01)	.190 (4,83)
17W07535	W 7535	.75 (19,05)	.30 (7,62)	.125 (3,17)
17W07560	W 7560	.756 (19,20)	.578 (14,68)	.110 (2,79)
17W07565	W 7565	.745 (18,92)	.509 (12,93)	.150 (3,81)
17W07625	W 7625	.75 (19,05)	.274 (6,96)	.25 (6,35)
17W07716	W 7716	.750 (19,05)	.296 (7,52)	.032 (0,81)
17W07717	W 7717	.750 (19,05)	.328 (8,33)	.032 (0,81)
17W07718	W 7718	.757 (19,23)	.394 (10,01)	.125 (3,18)
17W07719	W 7719	.748 (19,00)	.400 (10,16)	.089 (2,26)
17W07720	W 7720	.753 (19,13)	.282 (7,16)	.123 (3,12)
17W07721	W 7721	.740 (18,80)	.215 (5,46)	.095 (2,41)
17W07750	W 7750	.775 (19,69)	.515 (13,08)	.250 (6,35)
17W07751	W 7751	.775 (19,69)	.500 (12,70)	.120 (3,05)
17W07811	W 7811	.781 (19,84)	.640 (16,26)	.031 (0,79)
17W07820	W 7820	.782 (19,86)	.633 (16,08)	.125 (3,18)
17W07821	W 7821	.778 (19,76)	.590 (14,99)	.032 (0,81)
17W07850	W 7850	.785 (19,94)	.394 (10,01)	.080 (2,03)
17W08049	W 8049	.805 (20,45)	.418 (10,62)	.062 (1,57)
17W08050	W 8050	.805 (20,45)	.510 (12,95)	.220 (5,59)
17W08051	W 8051	.805 (20,45)	.621 (15,77)	.125 (3,18)
17W08070	W 8070	.807 (20,50)	.402 (10,21)	.065 (1,65)
17W08090	W 8090	.809 (20,55)	.495 (12,57)	.059 (1,50)
17W08100	W 8100	.810 (20,57)	.435 (11,05)	.060 (1,52)
17W08110	W 8110	.817 (20,75)	.544 (13,82)	.140 (3,56)
17W08121	W 8121	.812 (20,67)	.695 (17,65)	.093 (2,36)
17W08122	W 8122	.812 (20,62)	.630 (16,00)	.100 (2,56)
17W08123	W 8123	.812 (20,62)	.312 (7,92)	.125 (3,18)
17W08125	W 8125	.812 (20,62)	.630 (16,00)	.220 (5,59)
17W08126	W 8126	.812 (20,62)	.386 (9,80)	.187 (4,75)
17W08251	W 8251	.825 (20,96)	.480 (12,19)	.100 (2,54)

NYLON SPECIAL FLAT WASHERS

ITEM NUMBER	DESCRIPTION	A	B	T
17W08400	W 8400	.840 (21,34)	.730 (18,54)	.125 (3,18)
17W08430	W 8430	.844 (21,44)	.656 (16,66)	.060 (1,52)
17W08452	W 8452	.825 (20,96)	.375 (9,53)	.100 (2,54)
17W08650	W 8650	.865 (21,97)	.531 (13,49)	.200 (5,08)
17W08651	W 8651	.865 (21,97)	.688 (17,48)	.155 (3,94)
17W08660	W 8660	.866 (21,97)	.413 (10,49)	.098 (2,49)
17W08661	W 8661	.876 (22,25)	.437 (11,10)	.502 (12,75)
17W08751	W 8751	.875 (22,23)	.312 (7,92)	.125 (3,18)
17W08752	W 8752	.875 (22,23)	.408 (10,36)	.060 (1,52)
17W08753	W 8753	.875 (22,23)	.257 (6,53)	.031 (0,79)
17W08754	W 8754	.885 (22,48)	.343 (8,71)	.062 (1,57)
17W08755	W 8755	.855 (21,72)	.312 (7,92)	.125 (3,18)
17W08756	W 8756	.875 (22,23)	.500 (12,70)	.125 (3,18)
17W08757	W 8757	.875 (22,23)	.312 (7,92)	.187 (4,75)
17W08758	W 8758	.865 (21,97)	.340 (8,64)	.187 (4,75)
17W08759	W 8759	.875 (22,23)	.377 (9,58)	.062 (1,57)
17W08760	W 8760	.875 (22,23)	.380 (9,65)	.093 (2,36)
17W08761	W 8761	.875 (22,23)	.390 (9,91)	.093 (2,36)
17W08762	W 8762	.875 (22,23)	.257 (6,53)	.062 (1,57)
17W08763	W 8763	.875 (22,23)	.627 (15,93)	.114 (2,90)
17W08764	W 8764	7/8 (22,23)	.265 (6,73)	.093 (2,36)
17W08765	W 8765	.870 (22,10)	.531 (13,49)	.187 (4,75)
17W08800	W 8800	.880 (22,35)	.390 (9,91)	.062 (1,57)
17W08801	W 8801	.872 (22,15)	.315 (8,00)	.062 (1,57)
17W08803	W 8803	.882 (22,40)	.589 (14,96)	.085 (2,16)
17W08806	W 8806	.885 (22,48)	.385 (9,78)	.062 (1,57)
17W08810	W 8810	.880 (22,35)	.500 (12,70)	.065 (1,65)
17W08812	W 8812	.880 (22,86)	.385 (9,78)	.125 (3,18)
17W08950	W 8950	.900 (22,86)	.255 (6,48)	.125 (3,18)
17W08951	W 8951	.890 (22,61)	.317 (8,05)	.245 (6,22)
17W09000	W 9000	.900 (22,86)	.375 (9,53)	.055 (1,40)
17W09001	W 9001	.900 (22,86)	.500 (12,70)	.075 (1,91)
17W09002	W 9002	.900 (22,86)	.515 (13,08)	.060 (1,52)
17W09282	W 9282	.970 (24,64)	.230 (5,84)	.125 (3,18)
17W09290	W 9290	.929 (23,60)	.472 (11,99)	.126 (3,20)
17W09320	W 9320	.932 (23,67)	.381 (9,68)	.031 (0,79)
17W09371	W 9371	.937 (23,80)	.625 (15,88)	.093 (2,36)
17W09376	W 9376	.937 (23,80)	.583 (14,81)	.062 (1,57)
17W09378	W 9378	.937 (23,80)	.580 (14,73)	.082 (2,08)
17W09381	W 9381	.938 (23,83)	.453 (11,51)	.155 (3,94)
17W09400	W 9400	.944 (23,98)	.331 (8,41)	.098 (2,49)
17W09406	W 9406	.940 (23,88)	.506 (12,85)	.064 (1,63)
17W09806	W 9806	.980 (24,89)	.343 (8,71)	.065 (1,65)
17W09841	W 9841	.984 (24,99)	.406 (10,31)	.125 (3,18)
17W09851	W 9851	.983 (24,97)	.360 (9,14)	.120 (3,05)
17W09900	W 9900	1.000 (25,40)	.375 (9,53)	.062 (1,57)
17W09901	W 9901	1 (25,40)	.76 (19,30)	.062 (1,57)
17W09930	W 9930	.993 (25,22)	.771 (19,58)	.124 (3,15)
17W10000	W 10000	1.000 (25,40)	.156 (3,96)	.062 (1,57)
17W10001	W 10001	1.000 (25,40)	.450 (11,43)	.125 (3,18)
17W10002	W 10002	1.000 (25,40)	.406 (10,31)	.062 (1,57)
17W10003	W 10003	1.00 (25,40)	.562 (14,27)	.125 (3,18)
17W10005	W 10005	1.000 (25,40)	.632 (16,05)	.185 (4,70)

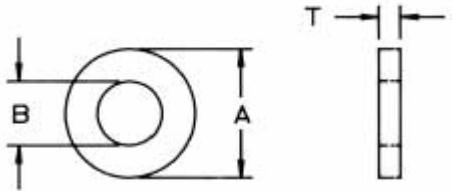


WASHERS, SHOULDER WASHERS AND SCREW INSULATORS

SECTION IV

NYLON SPECIAL FLAT WASHERS

ITEM NUMBER	DESCRIPTION	A	B	T
17W10006	W 10006	1.000 (25,40)	.518 (13,16)	.080 (2,03)
17W10007	W 10007	1.000 (25,40)	.730 (18,54)	.062 (1,57)
17W10008	W 10008	1.000 (25,40)	.631 (16,03)	.128 (3,25)
17W10009	W 10009	1.000 (25,40)	.320 (8,13)	.375 (9,53)
17W10010	W 10010	1.000 (25,40)	.505 (12,83)	.125 (3,18)
17W10011	W 10011	1.004 (25,40)	.631 (16,03)	.065 (1,65)
17W10012	W 10012	1.000 (25,40)	.254 (6,45)	.325 (8,26)
17W10013	W 10013	1 (25,40)	.312 (7,92)	.032 (0,81)
17W10014	W 10014	1 (25,40)	5/16 (7,94)	3/16 (4,76)
17W10015	W 10015	1 (25,40)	17/64 (6,74)	5/16 (7,94)
17W10016	W 10016	1.000 (25,40)	.500 (12,70)	.100 (2,54)
17W10017	W 10017	1.000 (25,40)	.755 (19,18)	.175 (4,45)
17W10025	W 10025	.995 (25,27)	.635 (16,13)	.250 (6,35)
17W10042	W 10042	.750 (19,05)	.515 (13,08)	.250 (6,35)
17W10060	W 10060	1.006 (25,52)	.189 (4,80)	.064 (1,63)
17W10100	W 10100	1.010 (25,65)	.410 (10,41)	.100 (2,54)
17W10311	W 10311	1.031 (26,19)	.844 (21,44)	.040 (1,02)
17W10570	W 10570	1.057 (26,85)	.812 (20,62)	.125 (3,18)
17W10571	W 10571	1 (25,40)	.844 (21,44)	.125 (3,18)
17W10620	W 10620	1.060 (26,92)	.740 (18,80)	.10 (2,54)
17W10622	W 10622	1.062 (26,97)	.740 (18,80)	.225 (5,72)
17W10625	W 10625	1.055 (26,80)	.406 (10,31)	1/4 (6,35)
17W11000	W 11000	1.128 (28,65)	.605 (15,37)	.239 (6,07)
17W11001	W 11001	1.181 (30,00)	.413 (10,49)	.098 (2,49)
17W11002	W 11002	1.117 (28,37)	.875 (22,23)	.195 (4,95)
17W11202	W 11202	1.120 (28,45)	.390 (9,91)	.125 (3,18)
17W11203	W 11203	1.120 (28,45)	.503 (12,78)	.033 (0,84)
17W11204	W 11204	1.120 (28,45)	.635 (16,13)	.140 (3,56)
17W11211	W 11211	1.121 (28,47)	.316 (8,03)	.034 (0,86)
17W11212	W 11212	1.13 (28,70)	.63 (16,00)	.06 (1,52)
17W11251	W 11251	1.120 (28,45)	.540 (13,72)	.125 (3,18)
17W11256	W 11256	1.125 (28,58)	.889 (22,58)	.060 (1,52)
17W11257	W 11257	1.125 (28,58)	.500 (12,70)	.062 (1,57)
17W11720	W 11720	1.17 (29,72)	.377 (9,58)	.125 (3,18)
17W11750	W 11750	1.175 (29,85)	.310 (7,87)	.125 (3,18)
17W11800	W 11800	1.184 (30,07)	.477 (12,12)	.079 (2,01)
17W12031	W 12031	1.203 (30,56)	.984 (24,99)	.050 (1,27)
17W12032	W 12032	1.28 (32,57)	.88 (22,35)	.062 (1,57)
17W12181	W 12181	1.218 (30,94)	1.031 (26,19)	.040 (1,02)
17W12250	W 12250	1.225 (31,12)	.643 (16,33)	.100 (2,54)
17W12251	W 12251	1.245 (31,62)	1.001 (25,43)	.031 (0,79)
17W12501	W 12501	1.235 (31,37)	.365 (9,27)	.110 (2,79)
17W12502	W 12502	1.250 (31,75)	.875 (22,23)	.125 (3,18)
17W12503	W 12503	1.250 (31,75)	.765 (19,43)	.080 (2,03)
17W12504	W 12504	1.250 (31,75)	.516 (13,11)	.062 (1,57)
17W12505	W 12505	1.267 (32,18)	.390 (9,91)	.045 (1,14)
17W12506	W 12506	1.250 (31,75)	.250 (6,35)	.255 (6,48)
17W12507	W 12507	1.250 (31,75)	.805 (20,45)	.060 (1,52)
17W12508	W 12508	1.250 (31,75)	.281 (7,14)	.063 (1,60)
17W12509	W 12509	1 1/4 (31,75)	9/16 (14,29)	1/32 (0,79)
17W12510	W 12510	1.250 (31,75)	.812 (20,62)	.080 (2,03)
17W12511	W 12511	1 17/64 (32,13)	.390 (9,90)	.156 (3,96)
17W12512	W 12512	1.250 (31,75)	.380 (9,71)	.125 (3,18)



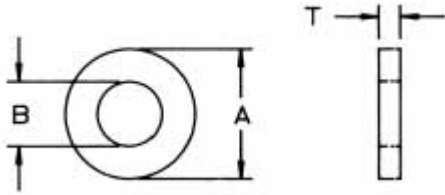
NYLON SPECIAL FLAT WASHERS

ITEM NUMBER	DESCRIPTION	A	B	T
17W12513	W 12513	1.250 (31,75)	.310 (7,87)	.120 (3,05)
17W12525	W 12525	1.260 (32,00)	.340 (8,64)	.250 (6,35)
17W12527	W 12527	1.250 (31,75)	.257 (6,53)	.255 (6,48)
17W12562	W 12562	1 1/4 (31,75)	.250 (6,35)	.062 (1,57)
17W12580	W 12580	1.258 (31,95)	.226 (5,74)	.065 (1,65)
17W12593	W 12593	1.250 (31,75)	.100 (2,54)	.060 (1,52)
17W12604	W 12604	1.27 (32,36)	.400 (10,16)	.062 (1,57)
17W13101	W 13101	1.310 (33,27)	.645 (16,38)	.120 (3,05)
17W13120	W 13120	1.312 (33,32)	1.000 (25,40)	.191 (4,85)
17W13121	W 13121	1.312 (33,32)	1.088 (27,36)	.062 (1,57)
17W13122	W 13122	1.312 (33,32)	1.000 (25,40)	.125 (3,18)
17W13125	W 13125	1.312 (33,32)	1.026 (26,06)	.191 (4,85)
17W13749	W 13749	1.370 (34,80)	.380 (9,65)	.125 (3,18)
17W13750	W 13750	1.375 (34,93)	.250 (6,35)	.064 (1,63)
17W13751	W 13751	1.375 (34,93)	.525 (13,34)	.125 (3,18)
17W13752	W 13752	1.375 (34,93)	.510 (12,95)	.062 (1,57)
17W13753	W 13753	1.375 (34,93)	.656 (16,66)	.125 (3,18)
17W13754	W 13754	1.375 (34,93)	.330 (8,32)	.125 (3,18)
17W13755	W 13755	1.31 (33,27)	.938 (23,82)	.040 (1,02)
17W13756	W 13756	1.363 (34,62)	.523 (13,28)	.051 (1,30)
17W13757	W 13757	1.375 (34,93)	.450 (11,43)	.090 (2,29)
17W13758	W 13758	1.375 (34,93)	.530 (13,46)	.173 (4,39)
17W13759	W 13759	1.375 (34,93)	1.015 (25,78)	.125 (3,18)
17W14250	W 14250	1.420 (36,07)	.760 (19,30)	.100 (2,54)
17W14251	W 14251	1.395 (35,43)	.250 (6,35)	.118 (3,00)
17W14371	W 14371	1.437 (36,50)	1.000 (25,40)	.069 (1,75)
17W14501	W 14501	1.450 (36,83)	1.000 (25,40)	.063 (1,65)
17W14610	W 14610	1.458 (37,03)	1.180 (29,97)	.100 (2,54)
17W14681	W 14681	1.468 (37,29)	.515 (13,08)	.050 (1,27)
17W14930	W 14930	1.500 (38,10)	.437 (11,10)	.130 (3,30)
17W15000	W 15000	1.500 (38,10)	.188 (4,75)	.068 (1,72)
17W15001	W 15001	1.500 (38,10)	.665 (16,89)	.094 (2,39)
17W15002	W 15002	1.500 (38,10)	.500 (12,70)	.125 (3,18)
17W15003	W 15003	1.500 (38,10)	.375 (9,53)	.375 (9,53)
17W15004	W 15004	1.500 (38,10)	.755 (19,18)	.125 (3,18)
17W15005	W 15005	1.500 (38,10)	.696 (17,68)	.120 (3,05)
17W15006	W 15006	1.490 (37,85)	.521 (13,23)	.120 (3,05)
17W15007	W 15007	1.575 (40,01)	.659 (16,74)	.118 (3,00)
17W15008	W 15008	1.500 (38,10)	1.015 (25,78)	.080 (2,03)
17W15012	W 15012	1.500 (38,10)	.505 (12,83)	.130 (3,30)
17W15031	W 15031	1.500 (38,10)	.515 (13,08)	.437 (11,10)
17W15050	W 15050	1.505 (38,23)	.750 (19,05)	.053 (1,35)
17W15051	W 15051	1.49 (37,85)	.81 (20,57)	.062 (1,57)
17W15052	W 15052	1.57 (39,87)	.512 (13,00)	.118 (3,00)
17W15620	W 15620	1.563 (39,70)	1.000 (25,40)	.062 (1,57)
17W15625	W 15625	1-9/16 (39,70)	.630 (16,00)	.062 (1,57)
17W16240	W 16240	1.619 (41,12)	1.495 (37,97)	.245 (6,22)
17W16250	W 16250	1.625 (41,28)	.531 (13,49)	.312 (7,92)
17W16251	W 16251	1.625 (41,28)	1.375 (34,93)	.110 (2,79)
17W16252	W 16252	1.625 (41,28)	1.0 (25,40)	.187 (4,75)
17W16300	W 16300	1.635 (41,53)	1.405 (35,69)	.093 (2,36)
17W16514	W 16514	1.650 (41,91)	1.395 (35,43)	.140 (3,56)
17W16900	W 16900	1.695 (43,05)	1.255 (31,88)	.065 (1,65)



WASHERS, SHOULDER WASHERS AND SCREW INSULATORS

SECTION IV



NYLON SPECIAL FLAT WASHERS

ITEM NUMBER	DESCRIPTION	A	B	T
17W17181	W 17181	1.718 (43,64)	.625 (15,88)	.050 (1,27)
17W17241	W 17241	1.724 (43,79)	1.500 (38,10)	.032 (0,81)
17W17251	W 17251	1.425 (36,90)	.697 (17,70)	.100 (2,54)
17W17252	W 17252	1.490 (37,85)	.765 (19,43)	.100 (2,54)
17W17500	W 17500	1.750 (44,45)	.928 (23,57)	.275 (6,99)
17W18001	W 18001	1.800 (45,72)	.948 (24,08)	.057 (1,45)
17W18500	W 18500	1.850 (46,99)	1.028 (26,11)	.120 (3,05)
17W19060	W 19060	1.906 (48,41)	1.500 (38,10)	.093 (2,36)
17W20001	W 20001	2.01 (51,05)	1.28 (32,51)	.135 (3,43)
17W20002	W 20002	2.000 (50,80)	.510 (12,95)	.060 (1,52)
17W20003	W 20003	2.000 (50,80)	1.525 (38,75)	.060 (1,52)
17W20004	W 20004	2.000 (50,80)	1.080 (27,43)	.160 (4,06)
17W20006	W 20006	2.000 (50,80)	.630 (16,00)	.125 (3,18)
17W20012	W 20012	1.985 (50,42)	1.525 (38,75)	.125 (3,18)
17W20013	W 20013	2.000 (50,80)	1.325 (33,66)	.310 (7,87)
17W20062	W 20062	2 (50,80)	.805 (20,45)	.062 (1,57)
17W20600	W 20600	2.060 (52,32)	1.800 (45,72)	.055 (1,40)
17W21350	W 21350	29/64 (54,36)	1.760 (44,70)	.130 (3,30)
17W21850	W 21850	2.180 (55,37)	1.420 (36,07)	.050 (1,27)
17W22005	W 22005	2.205 (56,01)	1.720 (43,69)	.050 (1,27)
17W22500	W 22500	2.260 (57,40)	1.010 (25,65)	.075 (1,91)
17W22800	W 22800	2.275 (57,79)	1.275 (32,39)	.120 (3,05)
17W25001	W 25001	2.500 (63,50)	1.075 (27,31)	.125 (3,18)
17W25003	W 25003	2.500 (63,50)	1.750 (44,45)	.125 (3,18)
17W26802	W 26802	2.69 (68,33)	1.93 (49,02)	.125 (3,18)
17W29300	W 29300	2.930 (74,42)	.632 (16,05)	.150 (3,81)
17W29503	W 29503	2.935 (74,93)	1.125 (29,21)	.093 (2,54)
17W30000	W 30000	3.000 (76,20)	1.270 (32,26)	.093 (2,36)
17W30002	W 30002	2.970 (75,44)	1.490 (37,85)	.125 (3,18)
17W30073	W 30073	3.016 (76,61)	2.80 (71,12)	.072 (1,83)
17W30093	W 30093	2.995 (76,07)	1.625 (41,28)	.093 (2,36)
17W31250	W 31250	3.132 (79,55)	.812 (20,62)	.125 (3,18)
17W32600	W 32600	3.260 (82,80)	2.620 (66,55)	.062 (1,57)



NYLON SCREW INSULATORS ARE DESIGNED TO :

- * PROTECT THE HEAD OF A METAL SCREW FROM ELECTRICAL CONTACT.
- * ACCOMMODATE THE MOST COMMON SCREW HEAD-STYLES INCLUDING: CHEESE, PAN AND FILLISTER, IN SIZES FROM #4 TO 1/4".

CUP WASHERS ARE MOLDED FROM TOUGH, ELECTRICALLY INSULATING NYLON 6/6.

NYLON CUP WASHERS

ITEM NUMBER	A	B	C	D	E
16CW004040	.305 (7,76)	.245 (6,22)	.115 (2,92)	.117 (2,97)	.157 (3,99)
16CW006040	.360 (9,14)	.300 (7,62)	.140 (3,56)	.142 (3,61)	.182 (4,62)
16CW008040	.414 (10,52)	.354 (8,99)	.171 (4,34)	.166 (4,22)	.206 (5,23)
16CW010040	.470 (11,94)	.410 (10,41)	.194 (4,93)	.190 (4,83)	.230 (5,85)
16CW250040	.595 (15,11)	.535 (13,59)	.257 (6,53)	.247 (6,27)	.287 (7,29)



NYLON SCREW INSULATORS

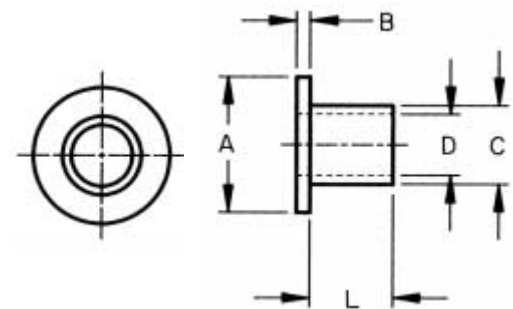
ITEM NUMBER	DESCRIPTION	L	A	B	C	D
10SC002012	SC 2 1/8 (3,18)	.181 (4,60)	3/64 (1,19)	.120 (3,05)	.090 (2,29)	
10SC002018	SC 2 3/16 (4,76)	.181 (4,60)	3/64 (1,19)	.120 (3,05)	.090 (2,29)	
10SC002025	SC 2 1/4 (6,35)	.181 (4,60)	3/64 (1,19)	.120 (3,05)	.090 (2,29)	
10SC002037	SC 2 3/8 (9,53)	.181 (4,60)	3/64 (1,19)	.120 (3,05)	.090 (2,29)	
10SC004003	SC 4 1/32 (0,79)	.235 (5,97)	3/64 (1,19)	.145 (3,68)	.115 (2,92)	
10SC004004	SC 4 3/64 (1,19)	.235 (5,97)	3/64 (1,19)	.145 (3,68)	.115 (2,92)	
10SC004006	SC 4 1/16 (1,59)	.235 (5,97)	3/64 (1,19)	.145 (3,68)	.115 (2,92)	
10SC004009	SC 4 3/32 (2,38)	.235 (5,97)	3/64 (1,19)	.145 (3,68)	.115 (2,92)	
10SC004012	SC 4 1/8 (3,18)	.235 (5,97)	3/64 (1,19)	.145 (3,68)	.115 (2,92)	
10SC004015	SC 4 5/32 (3,97)	.235 (5,97)	3/64 (1,19)	.145 (3,68)	.115 (2,92)	
10SC004018	SC 4 3/16 (4,76)	.235 (5,97)	3/64 (1,19)	.145 (3,68)	.115 (2,92)	
10SC004025	SC 4 1/4 (6,35)	.235 (5,97)	3/64 (1,19)	.145 (3,68)	.115 (2,92)	
10SC004037	SC 4 3/8 (9,53)	.235 (5,97)	3/64 (1,19)	.145 (3,68)	.115 (2,92)	
10SC004050	SC 4 1/2 (12,70)	.235 (5,97)	3/64 (1,19)	.145 (3,68)	.115 (2,92)	
10SC006004	SC 6 3/64 (1,19)	.290 (7,37)	3/64 (1,19)	.170 (4,32)	.140 (3,56)	
10SC006006	SC 6 1/16 (1,59)	.290 (7,37)	3/64 (1,19)	.170 (4,32)	.140 (3,56)	
10SC006009	SC 6 3/32 (2,38)	.290 (7,37)	3/64 (1,19)	.170 (4,32)	.140 (3,56)	
10SC006012	SC 6 1/8 (3,18)	.290 (7,37)	3/64 (1,19)	.170 (4,32)	.140 (3,56)	
10SC006015	SC 6 5/32 (3,97)	.290 (7,37)	3/64 (1,19)	.170 (4,32)	.140 (3,56)	
10SC006018	SC 6 3/16 (4,76)	.290 (7,37)	3/64 (1,19)	.170 (4,32)	.140 (3,56)	
10SC006025	SC 6 1/4 (6,35)	.290 (7,37)	3/64 (1,19)	.170 (4,32)	.140 (3,56)	
10SC006037	SC 6 3/8 (9,53)	.290 (7,37)	3/64 (1,19)	.170 (4,32)	.140 (3,56)	
10SC006050	SC 6 1/2 (12,70)	.290 (7,37)	3/64 (1,19)	.170 (4,32)	.140 (3,56)	
10SC008012	SC 8 1/8 (3,18)	.344 (8,74)	1/16 (1,59)	.205 (5,21)	.173 (4,39)	
10SC008014	SC 8 9/64 (3,58)	.344 (8,74)	1/16 (1,59)	.205 (5,21)	.173 (4,39)	
10SC008025	SC 8 1/4 (6,35)	.344 (8,74)	1/16 (1,59)	.205 (5,21)	.173 (4,39)	
10SC008037	SC 8 3/8 (9,53)	.344 (8,74)	1/16 (1,59)	.205 (5,21)	.173 (4,39)	
10SC008050	SC 8 1/2 (12,70)	.344 (8,74)	1/16 (1,59)	.205 (5,21)	.173 (4,39)	
10SC008062	SC 8 5/8 (15,88)	.344 (8,74)	1/16 (1,59)	.205 (5,21)	.173 (4,39)	
10SC008075	SC 8 3/4 (19,05)	.344 (8,74)	1/16 (1,59)	.205 (5,21)	.173 (4,39)	
10SC010006	SC 10 1/16 (1,59)	.399 (10,13)	1/16 (1,59)	.260 (6,60)	.200 (5,08)	
10SC010014	SC 10 9/64 (3,58)	.399 (10,13)	1/16 (1,59)	.260 (6,60)	.200 (5,08)	
10SC010018	SC 10 3/16 (4,76)	.399 (10,13)	1/16 (1,59)	.260 (6,60)	.200 (5,08)	
10SC010025	SC 10 1/4 (6,35)	.399 (10,13)	1/16 (1,59)	.260 (6,60)	.200 (5,08)	
10SC010037	SC 10 3/8 (9,53)	.399 (10,13)	1/16 (1,59)	.260 (6,60)	.200 (5,08)	
10SC010050	SC 10 1/2 (12,70)	.399 (10,13)	1/16 (1,59)	.260 (6,60)	.200 (5,08)	
10SC010056	SC 10 9/16 (14,29)	.399 (10,13)	1/16 (1,59)	.260 (6,60)	.200 (5,08)	
10SC010062	SC 10 5/8 (15,88)	.399 (10,13)	1/16 (1,59)	.260 (6,60)	.200 (5,08)	
10SC010075	SC 10 3/4 (19,05)	.399 (10,13)	1/16 (1,59)	.260 (6,60)	.200 (5,08)	
10SC250012	SC 250 1/8 (3,18)	.513 (13,03)	1/16 (1,59)	.312 (7,92)	.260 (6,60)	
10SC250014	SC 250 9/64 (3,58)	.513 (13,03)	1/16 (1,59)	.312 (7,92)	.260 (6,60)	
10SC250018	SC 250 3/16 (4,76)	.513 (13,03)	1/16 (1,59)	.312 (7,92)	.260 (6,60)	
10SC250025	SC 250 1/4 (6,35)	.513 (13,03)	1/16 (1,59)	.312 (7,92)	.260 (6,60)	
10SC250037	SC 250 3/8 (9,53)	.513 (13,03)	1/16 (1,59)	.312 (7,92)	.260 (6,60)	
10SC250050	SC 250 1/2 (12,70)	.513 (13,03)	1/16 (1,59)	.312 (7,92)	.260 (6,60)	
10SC250062	SC 250 5/8 (15,88)	.513 (13,03)	1/16 (1,59)	.312 (7,92)	.260 (6,60)	
10SC250075	SC 250 3/4 (19,05)	.513 (13,03)	1/16 (1,59)	.312 (7,92)	.260 (6,60)	
10SC312012	SC 312 1/8 (3,18)	.620 (15,75)	1/16 (1,59)	.360 (9,14)	.320 (8,13)	
10SC312025	SC 312 1/4 (6,35)	.620 (15,75)	1/16 (1,59)	.360 (9,14)	.320 (8,13)	
10SC312037	SC 312 3/8 (9,53)	.620 (15,75)	1/16 (1,59)	.360 (9,14)	.320 (8,13)	
10SC312050	SC 312 1/2 (12,70)	.620 (15,75)	1/16 (1,59)	.360 (9,14)	.320 (8,13)	
10SC312062	SC 312 5/8 (15,88)	.620 (15,75)	1/16 (1,59)	.360 (9,14)	.320 (8,13)	

NYLON SCREW INSULATORS ARE USED TO :

- * ISOLATE METAL SCREWS ELECTRICALLY
- * REDUCE CORROSION

SCREW INSULATORS MAY ALSO BE USED AS LIGHT LOAD BEARINGS IN MANY APPLICATIONS.

SPECIFY SCREW SIZE AND LENGTH WHEN ORDERING. SPECIALS CAN BE MADE TO ORDER FOR A SMALL TOOLING CHARGE



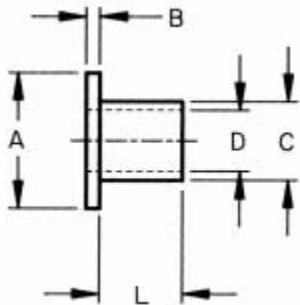
WASHERS, SHOULDER WASHERS AND SCREW INSULATORS

SECTION IV

NYLON SHOULDER WASHERS

NYLON SHOULDER WASHERS ARE SUITABLE FOR A LARGE VARIETY OF INSULATION AND MECHANICAL APPLICATIONS.

- * THEY SEAL
- * REDUCE VIBRATION
- * ACT AS SPACERS AND GUIDES
- * STRONG AND CORROSION RESISTANT



ITEM NUMBER	DESCRIPTION	L	A	B	C	D
12SWS0152	SWS 152	3/64 (1,19)	.105 (2,67)	3/64 (1,19)	.084 (2,13)	.061 (1,55)
12SWS0155	SWS 155	.060 (1,52)	.125 (3,18)	.030 (0,76)	.080 (2,03)	.055 (1,40)
12SWS0156	SWS 156	1/32 (0,79)	.228 (5,79)	1/32 (0,79)	.122 (3,10)	.093 (2,36)
12SWS0157	SWS 157	.035 (0,89)	.235 (5,97)	.095 (2,41)	.147 (3,73)	.115 (2,92)
12SWS0180	SWS 180	.075 (1,91)	.181 (4,60)	3/64 (1,19)	.120 (3,05)	.045 (1,14)
12SWS0182	SWS 182	1/32 (0,79)	.182 (4,75)	1/16 (1,59)	.131 (3,33)	.085 (2,16)
12SWS0183	SWS 183	1/32 (0,79)	.182 (4,62)	5/64 (1,98)	.125 (3,18)	.085 (2,16)
12SWS0184	SWS 184	1/32 (0,79)	.189 (4,80)	1/16 (1,59)	.119 (3,02)	.095 (2,41)
12SWS0187	SWS 187	1/64 (0,41)	.187 (4,75)	1/32 (0,79)	.119 (3,02)	.089 (2,26)
12SWS0188	SWS 188	.030 (0,76)	.187 (4,75)	.030 (0,76)	.131 (3,33)	.090 (2,29)
12SWS0189	SWS 189	.20 (0,51)	.187 (4,75)	.030 (0,76)	.119 (3,02)	.090 (2,29)
12SWS0190	SWS 190	9/32 (7,14)	.197 (5,00)	1/32 (0,79)	.118 (3,00)	.075 (1,91)
12SWS0191	SWS 191	.100 (2,54)	.350 (8,89)	.090 (2,29)	.200 (5,08)	.140 (3,56)
12SWS0195	SWS 195	1/16 (1,59)	.195 (4,95)	1/32 (0,79)	.120 (3,05)	.093 (2,36)
12SWS0196	SWS 196	3/64 (1,19)	.240 (6,09)	1/16 (1,59)	.135 (3,42)	.114 (2,89)
12SWS0197	SWS 197	1/32 (0,79)	.216 (5,48)	3/64 (1,19)	.135 (3,42)	.115 (2,92)
12SWS0198	SWS 198	1/32 (0,79)	.200 (5,08)	1/32 (0,79)	.140 (3,56)	.115 (2,92)
12SWS0199	SWS 199	5/64 (1,98)	.187 (4,75)	1/32 (0,79)	.119 (3,02)	.063 (1,60)
12SWS0200	SWS 200	1/32 (0,79)	.200 (5,08)	5/64 (1,98)	.135 (3,43)	.116 (2,95)
12SWS0201	SWS 201	3/16 (4,76)	.187 (4,75)	1/32 (0,79)	.119 (3,02)	.063 (1,60)
12SWS0202	SWS 202	5/64 (1,98)	.205 (5,21)	1/32 (0,79)	.125 (3,18)	.093 (2,36)
12SWS0203	SWS 203	7/64 (2,77)	.205 (5,21)	1/32 (0,79)	.125 (3,18)	.093 (2,36)
12SWS0204	SWS 204	3/16 (4,76)	.205 (5,21)	1/32 (0,79)	.125 (3,18)	.093 (2,36)
12SWS0205	SWS 205	3/64 (1,19)	.202 (5,13)	1/64 (0,41)	.145 (3,68)	.120 (3,05)
12SWS0206	SWS 206	1/16 (1,59)	.224 (5,69)	1/32 (0,79)	.154 (3,91)	.120 (3,05)
12SWS0207	SWS 207	5/32 (3,97)	.235 (5,97)	3/64 (1,19)	.135 (3,43)	.110 (2,79)
12SWS0208	SWS 208	1/16 (1,59)	.200 (5,08)	1/32 (0,79)	.120 (3,05)	.093 (2,36)
12SWS0209	SWS 209	3/64 (1,19)	.210 (5,33)	1/64 (0,41)	.145 (3,68)	.120 (3,05)
12SWS0210	SWS 210	3/64 (1,19)	.230 (5,84)	1/64 (0,41)	.142 (3,61)	.122 (3,10)
12SWS0211	SWS 211	1/32 (0,79)	.218 (5,54)	3/64 (1,19)	.135 (3,43)	.115 (2,92)
12SWS0212	SWS 212	7/16 (11,11)	.224 (5,69)	1/32 (0,79)	.154 (3,91)	.120 (3,05)
12SWS0213	SWS 213	3/64 (1,19)	.200 (5,08)	1/32 (0,79)	.138 (3,51)	.109 (2,77)
12SWS0214	SWS 214	1/32 (0,79)	.235 (5,97)	3/64 (1,19)	.137 (3,48)	.115 (2,77)
12SWS0215	SWS 215	7/32 (5,55)	.250 (6,35)	11/64 (4,37)	.150 (3,81)	.115 (2,92)
12SWS0216	SWS 216	1/32 (0,79)	.240 (6,10)	1/32 (0,79)	.150 (3,81)	.098 (2,49)
12SWS0217	SWS 217	1/32 (0,79)	.228 (5,79)	3/64 (1,19)	.138 (3,51)	.100 (2,54)
12SWS0218	SWS 218	1/8 (3,18)	.242 (6,15)	3/64 (1,19)	.140 (3,56)	.115 (2,92)
12SWS0219	SWS 219	1/8 (3,18)	.290 (7,37)	1/64 (0,41)	.250 (6,35)	.193 (4,90)
12SWS0220	SWS 220	3/64 (1,19)	.234 (5,94)	3/64 (1,19)	.147 (3,73)	.115 (2,92)
12SWS0221	SWS 221	3/32 (2,38)	.235 (5,97)	3/64 (1,19)	.145 (3,68)	.115 (2,92)
12SWS0222	SWS 222	1/8 (3,18)	.235 (5,97)	3/64 (1,19)	.145 (3,68)	.115 (2,92)
12SWS0223	SWS 223	1/32 (0,79)	.250 (6,35)	1/16 (1,59)	.187 (4,75)	.140 (3,56)
12SWS0224	SWS 224	3/64 (1,19)	.260 (6,60)	1/16 (1,59)	.190 (4,83)	.140 (3,56)
12SWS0225	SWS 225	43/64 (17,02)	.250 (6,35)	3/64 (1,19)	.187 (4,75)	.095 (2,41)
12SWS0226	SWS 226	1/16 (1,59)	.250 (6,35)	1/32 (0,79)	.143 (3,63)	.118 (3,00)
12SWS0227	SWS 227	1/32 (0,79)	.257 (6,53)	1/16 (1,59)	.187 (4,75)	.141 (3,58)
12SWS0228	SWS 228	1/64 (0,41)	.260 (6,60)	1/64 (0,41)	.154 (3,91)	.095 (2,41)
12SWS0229	SWS 229	1/8 (3,18)	.250 (6,35)	3/64 (1,19)	.139 (3,53)	.118 (3,00)
12SWS0230	SWS 230	5/32 (3,97)	.265 (6,73)	1/32 (0,79)	.205 (5,21)	.142 (3,61)
12SWS0232	SWS 232	5/64 (1,98)	.253 (6,42)	3/64 (1,19)	.136 (3,45)	.120 (3,05)
12SWS0233	SWS 233	1/32 (0,79)	.203 (5,16)	3/64 (1,19)	.140 (3,56)	.115 (2,92)
12SWS0234	SWS 234	.050 (1,40)	.239 (6,07)	.020 (0,51)	.139 (3,53)	.116 (2,95)
12SWS0235	SWS 235	.033 (0,84)	.210 (5,33)	.042 (1,07)	.143 (3,63)	.116 (2,95)

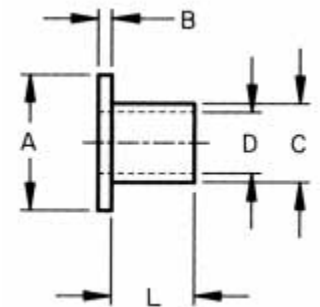


NYLON SHOULDER WASHERS

ITEM NUMBER	DESCRIPTION	L	A	B	C	D
12SWS0236	SWS 236	.020 (0,51)	.250 (6,35)	.030 (0,76)	.150 (3,81)	.116 (2,96)
12SWS0237	SWS 237	.040 (1,02)	.235 (5,97)	.047 (1,19)	.147 (3,73)	.115 (2,92)
12SWS0238	SWS 238	.030 (0,76)	.230 (5,84)	.040 (1,02)	.150 (3,81)	.125 (3,18)
12SWS0239	SWS 239	.090 (2,29)	.224 (5,69)	.028 (0,71)	.154 (3,91)	.120 (3,05)
12SWS0240	SWS 240	.100 (2,54)	.230 (5,84)	.025 (0,64)	.190 (4,83)	.150 (3,81)
12SWS0241	SWS 241	.155 (3,94)	.224 (5,69)	.028 (0,71)	.154 (3,91)	.120 (3,05)
12SWS0242	SWS 242	3/32 (2,38)	.635 (16,13)	9/64 (3,57)	.425 (10,80)	.201 (5,11)
12SWS0243	SWS 243	.063 (1,60)	15/64 (5,94)	.025 (0,64)	.164 (4,17)	.130 (3,30)
12SWS0244	SWS 244	.031 (0,79)	.234 (5,94)	.025 (0,64)	.145 (3,68)	.115 (2,92)
12SWS0245	SWS 245	.093 (2,36)	.235 (5,97)	.250 (6,35)	.145 (3,68)	.115 (2,92)
12SWS0246	SWS 246	.027 (0,69)	.240 (6,10)	.047 (1,19)	.134 (3,40)	.115 (2,92)
12SWS0250	SWS 250	.156 (3,96)	.265 (6,73)	.118 (3,00)	.205 (5,21)	.142 (3,61)
12SWS0255	SWS 255	1/8 (2,94)	.500 (12,70)	1/8 (2,94)	.375 (9,53)	.285 (7,14)
12SWS0290	SWS 290	1/32 (0,79)	.290 (7,37)	3/64 (1,19)	.170 (4,32)	.140 (3,56)
12SWS0291	SWS 291	.375 (9,53)	.290 (7,37)	.234 (5,94)	.170 (4,32)	.140 (3,56)
12SWS0296	SWS 296	.375 (9,53)	.499 (12,67)	.125 (3,18)	.295 (7,49)	.187 (4,75)
12SWS0300	SWS 300	.090 (2,29)	.250 (6,35)	.050 (1,27)	.150 (3,81)	.120 (3,05)
12SWS0305	SWS 305	.120 (3,05)	.250 (6,35)	.050 (1,27)	.135 (3,43)	.118 (3,00)
12SWS0310	SWS 310	.250 (6,35)	.250 (6,35)	.047 (1,19)	.156 (3,96)	.125 (3,18)
12SWS0395	SWS 395	.025 (0,64)	.250 (6,35)	.031 (0,79)	.122 (3,10)	.093 (2,36)
12SWS0396	SWS 396	.040 (1,02)	.250 (6,35)	.047 (1,19)	.140 (3,56)	.102 (2,59)
12SWS0400	SWS 400	3/32 (2,38)	.235 (5,97)	3/64 (1,19)	.140 (3,56)	.115 (2,92)
12SWS0401	SWS 401	1/4 (6,35)	.235 (5,97)	3/64 (1,19)	.145 (3,68)	.115 (2,92)
12SWS0402	SWS 402	3/64 (1,19)	.240 (6,09)	1/16 (1,59)	.138 (3,50)	.114 (2,89)
12SWS0403	SWS 403	1/16 (1,59)	.312 (7,93)	1/16 (1,59)	.149 (3,79)	.115 (2,92)
12SWS0404	SWS 404	3/32 (2,38)	.312 (7,93)	1/16 (1,59)	.149 (3,79)	.115 (2,92)
12SWS0405	SWS 405	1/64 (0,41)	.250 (6,35)	3/64 (1,19)	.124 (3,15)	.111 (2,82)
12SWS0406	SWS 406	1/32 (0,79)	.252 (6,40)	1/32 (0,79)	.186 (4,72)	.140 (3,56)
12SWS0407	SWS 407	1/32 (0,79)	.250 (6,35)	1/32 (0,79)	.186 (4,72)	.139 (3,53)
12SWS0408	SWS 408	.250 (6,35)	.235 (5,97)	.032 (0,81)	.120 (3,05)	.090 (2,29)
12SWS0409	SWS 409	1/8 (3,18)	.250 (6,35)	1/32 (0,79)	.195 (4,95)	.130 (3,30)
12SWS0410	SWS 410	1/32 (0,79)	.250 (6,35)	3/64 (1,19)	.114 (2,90)	.100 (2,54)
12SWS0411	SWS 411	1/16 (1,59)	.250 (6,35)	1/32 (0,79)	.143 (3,63)	.115 (2,92)
12SWS0412	SWS 412	1/16 (1,59)	.250 (6,35)	1/32 (0,79)	.169 (4,29)	.102 (2,59)
12SWS0413	SWS 413	3/32 (2,38)	.250 (6,35)	3/64 (1,19)	.114 (2,90)	.100 (2,54)
12SWS0414	SWS 414	1/8 (3,18)	.281 (7,14)	3/32 (2,38)	.158 (4,01)	.093 (2,36)
12SWS0415	SWS 415	3/16 (4,76)	.293 (7,44)	3/64 (1,19)	.218 (5,53)	.138 (3,51)
12SWS0416	SWS 416	11/64 (4,37)	.250 (6,35)	3/64 (1,19)	.186 (4,72)	.126 (3,20)
12SWS0417	SWS 417	1/64 (0,41)	.310 (7,87)	1/16 (1,59)	.183 (4,65)	.139 (3,53)
12SWS0418	SWS 418	1/64 (0,41)	.312 (7,93)	1/16 (1,59)	.187 (4,75)	.115 (2,92)
12SWS0419	SWS 419	1/32 (0,79)	.312 (7,93)	1/32 (0,79)	.185 (4,70)	.140 (3,56)
12SWS0420	SWS 420	1/16 (1,59)	.312 (7,93)	1/16 (1,59)	.170 (4,32)	.120 (3,05)
12SWS0421	SWS 421	3/64 (1,19)	.312 (7,93)	1/16 (1,59)	.170 (4,32)	.127 (3,23)
12SWS0422	SWS 422	1/8 (3,18)	.312 (7,93)	3/64 (1,19)	.234 (5,94)	.144 (3,66)
12SWS0423	SWS 423	1/64 (0,41)	.250 (6,35)	1/32 (0,79)	.150 (3,81)	.116 (2,95)
12SWS0424	SWS 424	7/32 (5,55)	.295 (7,49)	1/32 (0,79)	.234 (5,94)	.140 (3,56)
12SWS0425	SWS 425	1/32 (0,79)	.312 (7,93)	1/16 (1,59)	.250 (6,35)	.196 (4,98)
12SWS0426	SWS 426	11/64 (4,37)	.250 (6,35)	3/64 (1,19)	.145 (3,68)	.115 (2,92)
12SWS0427	SWS 427	3/64 (1,19)	.250 (6,35)	1/32 (0,79)	.185 (4,70)	.116 (2,95)
12SWS0428	SWS 428	7/64 (2,77)	.242 (6,15)	3/64 (1,19)	.140 (3,56)	.115 (2,92)
12SWS0429	SWS 429	9/64 (3,58)	.250 (6,35)	3/64 (1,19)	.145 (3,68)	.115 (2,92)
12SWS0430	SWS 430	3/16 (4,76)	.312 (7,93)	1/16 (1,59)	.250 (6,35)	.156 (3,96)
12SWS0431	SWS 431	3/32 (2,38)	.240 (6,10)	1/32 (0,79)	.185 (4,70)	.125 (3,18)

NYLON SHOULDER WASHERS ARE SUITABLE FOR A LARGE VARIETY OF INSULATION AND MECHANICAL APPLICATIONS.

- * THEY SEAL
- * REDUCE VIBRATION
- * ACT AS SPACERS AND GUIDES
- * STRONG AND CORROSION RESISTANT



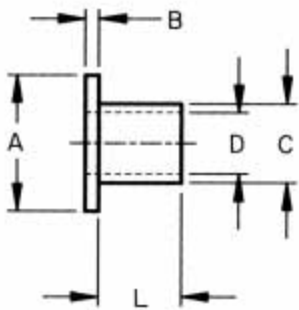
WASHERS, SHOULDER WASHERS AND SCREW INSULATORS

SECTION IV

NYLON SHOULDER WASHERS

NYLON SHOULDER WASHERS ARE SUITABLE FOR A LARGE VARIETY OF INSULATION AND MECHANICAL APPLICATIONS.

- * THEY SEAL
- * REDUCE VIBRATION
- * ACT AS SPACERS AND GUIDES
- * STRONG AND CORROSION RESISTANT



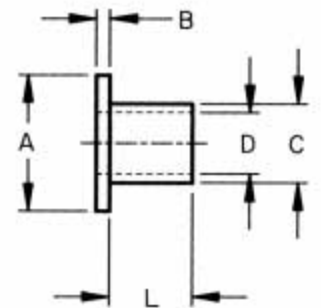
ITEM NUMBER	DESCRIPTION	L	A	B	C	D
12SWS0432	SWS 432 3/64	(1,19)	.250 (6,35)	3/64 (1,19)	.143 (3,63)	.113 (2,87)
12SWS0433	SWS 433 7/64	(2,77)	.250 (6,35)	3/64 (1,19)	.145 (3,68)	.115 (2,92)
12SWS0434	SWS 434 1/16	(1,59)	.312 (7,93)	3/64 (1,19)	.170 (4,32)	.140 (3,56)
12SWS0435	SWS 435 3/64	(1,19)	.250 (6,35)	1/16 (1,59)	.185 (4,70)	.116 (2,95)
12SWS0436	SWS 436 1/32	(0,79)	.240 (6,10)	3/64 (1,19)	.139 (3,53)	.115 (2,92)
12SWS0437	SWS 437 1/32	(0,79)	.265 (6,73)	1/32 (0,79)	.157 (3,99)	.126 (3,20)
12SWS0438	SWS 438 1/32	(0,79)	.312 (7,93)	1/16 (1,59)	.187 (4,75)	.141 (3,58)
12SWS0439	SWS 439 1/16	(1,59)	.250 (6,35)	3/64 (1,19)	.138 (3,50)	.120 (3,05)
12SWS0440	SWS 440 5/16	(7,94)	.312 (7,93)	1/32 (0,79)	.154 (3,91)	.130 (3,30)
12SWS0441	SWS 441 3/16	(4,76)	.312 (7,93)	1/32 (0,79)	.234 (5,94)	.184 (4,67)
12SWS0442	SWS 442 7/32	(5,54)	.296 (7,52)	1/32 (0,79)	.235 (5,97)	.135 (3,43)
12SWS0443	SWS 443 .156	(3,96)	.252 (6,40)	.047 (1,19)	.140 (3,56)	.115 (2,92)
12SWS0444	SWS 444 1/16	(1,59)	.300 (7,62)	3/64 (1,19)	.194 (4,93)	.160 (4,06)
12SWS0445	SWS 445 1/32	(0,79)	.313 (7,95)	1/32 (0,79)	.175 (4,45)	.143 (3,63)
12SWS0446	SWS 446 1/64	(0,41)	.312 (7,93)	3/64 (1,19)	.160 (4,06)	.097 (2,46)
12SWS0448	SWS 448 3/32	(2,38)	.312 (7,93)	3/64 (1,19)	.187 (4,75)	.128 (3,25)
12SWS0449	SWS 449 1/32	(0,79)	.313 (7,95)	1/32 (0,79)	.219 (5,56)	.124 (3,15)
12SWS0450	SWS 450 1/16	(1,59)	.312 (7,93)	3/64 (1,19)	.234 (5,94)	.144 (3,66)
12SWS0451	SWS 451 1/32	(0,79)	.315 (8,00)	.030 (0,76)	.150 (3,81)	.115 (2,92)
12SWS0452	SWS 452 1/32	(0,79)	.312 (7,93)	3/64 (1,19)	.203 (5,16)	.120 (3,05)
12SWS0453	SWS 453 .027	(0,69)	.312 (7,93)	.035 (0,89)	.187 (4,75)	.140 (3,56)
12SWS0454	SWS 454 1/32	(0,79)	.313 (7,95)	1/32 (0,79)	.219 (5,56)	.136 (3,45)
12SWS0455	SWS 455 3/64	(1,19)	.312 (7,93)	1/32 (0,79)	.185 (4,70)	.126 (3,20)
12SWS0456	SWS 456 3/64	(1,19)	.250 (6,35)	3/64 (1,19)	.156 (3,96)	.115 (2,92)
12SWS0457	SWS 457 .031	(0,79)	.250 (6,35)	.031 (0,79)	.187 (4,75)	.120 (3,05)
12SWS0459	SWS 459 15/64	(5,94)	.291 (7,39)	1/16 (1,59)	.154 (3,91)	.120 (3,05)
12SWS0460	SWS 460 .125	(3,18)	.290 (7,37)	.047 (1,19)	.170 (4,32)	.140 (3,56)
12SWS0462	SWS 462 .031	(0,79)	.312 (7,93)	.063 (1,60)	.187 (4,75)	.123 (3,12)
12SWS0463	SWS 463 .050	(1,27)	.312 (7,93)	.046 (1,17)	.229 (5,82)	.163 (4,13)
12SWS0464	SWS 464 19/64	(7,52)	.250 (6,35)	3/64 (1,19)	.145 (3,68)	.115 (2,92)
12SWS0465	SWS 465 .060	(1,52)	.312 (7,93)	.030 (0,76)	.189 (4,80)	.144 (3,66)
12SWS0467	SWS 467 .062	(1,57)	.312 (7,93)	.063 (1,60)	.126 (3,20)	.091 (0,23)
12SWS0468	SWS 468 .250	(6,35)	.312 (7,93)	.060 (1,52)	.210 (5,33)	.142 (3,61)
12SWS0469	SWS 469 .122	(3,10)	.388 (9,85)	.187 (4,75)	.207 (5,26)	.160 (4,06)
12SWS0470	SWS 470 .165	(0,79)	.290 (7,37)	.047 (1,19)	.200 (5,08)	.145 (3,68)
12SWS0475	SWS 475 .100	(2,54)	.312 (7,93)	.045 (1,14)	.150 (3,81)	.114 (2,90)
12SWS0601	SWS 601 1/4	(6,35)	.290 (7,37)	3/64 (1,19)	.170 (4,32)	.140 (3,56)
12SWS0602	SWS 602 1/32	(0,79)	.330 (8,38)	1/16 (1,59)	.206 (5,23)	.141 (3,58)
12SWS0603	SWS 603 .062	(1,57)	.300 (7,62)	.050 (1,27)	.180 (4,57)	.150 (3,81)
12SWS0605	SWS 605 3/64	(1,19)	.328 (8,33)	3/64 (1,19)	.218 (5,54)	.146 (3,71)
12SWS0606	SWS 606 3/64	(1,19)	.340 (8,64)	5/64 (1,98)	.250 (6,35)	.140 (3,56)
12SWS0607	SWS 607 1/16	(1,59)	.289 (7,34)	1/16 (1,59)	.215 (5,46)	.093 (2,36)
12SWS0608	SWS 608 3/64	(1,19)	.290 (7,37)	3/64 (1,19)	.170 (4,32)	.140 (3,56)
12SWS0609	SWS 609 3/64	(1,19)	.312 (7,93)	1/32 (0,79)	.185 (4,70)	.116 (2,95)
12SWS0610	SWS 610 1/16	(1,59)	.348 (8,83)	1/32 (0,79)	.290 (7,36)	.256 (6,50)
12SWS0612	SWS 612 3/32	(2,38)	.316 (8,03)	3/64 (1,19)	.158 (4,01)	.116 (2,95)
12SWS0614	SWS 614 1/32	(0,79)	.324 (8,23)	1/16 (1,59)	.204 (5,18)	.140 (3,56)
12SWS0615	SWS 615 .065	(1,65)	.320 (8,13)	.050 (1,27)	.182 (4,62)	.141 (3,58)
12SWS0621	SWS 621 3/32	(2,38)	.340 (8,64)	1/16 (1,59)	.220 (5,59)	.175 (4,45)
12SWS0628	SWS 628 3/8	(9,53)	.345 (8,76)	1/16 (1,59)	.205 (5,21)	.173 (4,39)
12SWS0629	SWS 629 3/64	(1,19)	.345 (8,76)	1/16 (1,59)	.209 (5,30)	.171 (4,34)
12SWS0630	SWS 630 13/64	(5,16)	.368 (9,34)	5/64 (1,98)	.146 (3,70)	.115 (2,92)
12SWS0632	SWS 632 1/16	(1,59)	.349 (8,87)	3/64 (1,19)	.248 (6,30)	.140 (3,56)

NYLON SHOULDER WASHERS

ITEM NUMBER	DESCRIPTION	L	A	B	C	D
12SWS0633	SWS 633	.060 (1,52)	.349 (8,87)	.050 (1,27)	.260 (6,60)	.133 (3,38)
12SWS0634	SWS 634	11/64 (4,37)	.350 (8,89)	1/64 (0,41)	.300 (7,62)	.112 (2,84)
12SWS0798	SWS 798	.080 (2,03)	.344 (8,74)	.063 (1,60)	.235 (5,97)	.175 (4,45)
12SWS0799	SWS 799	3/64 (1,19)	.344 (8,74)	7/64 (2,77)	.189 (4,80)	.141 (3,58)
12SWS0800	SWS 800	9/64 (3,58)	.344 (8,74)	1/16 (1,59)	.210 (5,33)	.170 (4,32)
12SWS0801	SWS 801	3/8 (9,53)	.344 (8,74)	1/16 (1,59)	.205 (5,21)	.173 (4,39)
12SWS0802	SWS 802	1/16 (1,59)	.375 (9,53)	1/32 (0,79)	.195 (4,95)	.171 (4,34)
12SWS0803	SWS 803	13/32 (10,32)	.510 (12,95)	1/16 (1,59)	.250 (6,35)	.171 (4,34)
12SWS0804	SWS 804	.177 (4,50)	.355 (9,02)	.020 (0,51)	.315 (8,00)	.236 (5,99)
12SWS0805	SWS 805	.283 (7,19)	.370 (9,40)	.067 (1,70)	.242 (6,15)	.195 (4,95)
12SWS0806	SWS 806	.250 (6,35)	.344 (8,74)	.032 (0,81)	.205 (5,21)	.173 (4,39)
12SWS0807	SWS 807	.046 (1,17)	.359 (9,12)	.060 (1,52)	.300 (7,62)	.227 (5,77)
12SWS0808	SWS 808	1/8 (3,18)	.375 (9,53)	1/16 (1,59)	.280 (7,11)	.201 (5,10)
12SWS0809	SWS 809	5/32 (3,97)	.378 (9,60)	5/64 (1,98)	.194 (4,92)	.116 (2,94)
12SWS0810	SWS 810	1/32 (0,79)	.375 (9,53)	1/16 (1,59)	.250 (6,35)	.171 (4,34)
12SWS0811	SWS 811	3/64 (1,19)	.375 (9,53)	3/64 (1,19)	.245 (6,22)	.192 (4,88)
12SWS0812	SWS 812	3/32 (2,38)	.375 (9,53)	1/32 (0,79)	.260 (6,60)	.220 (5,59)
12SWS0813	SWS 813	7/64 (2,77)	.375 (9,53)	3/64 (1,19)	.195 (4,95)	.136 (3,45)
12SWS0814	SWS 814	3/64 (1,19)	.375 (9,53)	5/64 (1,98)	.244 (6,20)	.150 (3,81)
12SWS0815	SWS 815	3/32 (2,38)	.375 (9,53)	1/32 (0,79)	.185 (4,70)	.140 (3,56)
12SWS0816	SWS 816	1/32 (0,79)	.375 (9,53)	1/32 (0,79)	.250 (6,35)	.169 (4,29)
12SWS0817	SWS 817	3/64 (1,19)	.375 (9,53)	1/16 (1,59)	.218 (5,54)	.140 (3,56)
12SWS0818	SWS 818	1/32 (0,79)	.375 (9,53)	1/16 (1,59)	.246 (6,25)	.167 (4,24)
12SWS0819	SWS 819	1/16 (1,59)	.437 (11,10)	1/16 (1,59)	.313 (7,95)	.188 (4,78)
12SWS0820	SWS 820	1/32 (0,79)	.375 (9,53)	1/16 (1,59)	.185 (4,70)	.140 (3,56)
12SWS0821	SWS 821	1/32 (0,79)	.381 (9,68)	1/16 (1,59)	.308 (7,82)	.196 (4,98)
12SWS0822	SWS 822	1/32 (0,79)	.374 (9,50)	1/32 (0,79)	.246 (6,24)	.141 (3,58)
12SWS0823	SWS 823	.099 (2,51)	.375 (9,53)	.040 (1,02)	.250 (6,35)	.171 (4,34)
12SWS0824	SWS 824	.05 (1,27)	3/8 (9,53)	.06 (1,52)	.245 (6,22)	.140 (3,56)
12SWS0825	SWS 825	.060 (1,52)	.375 (9,53)	.030 (0,76)	.245 (6,22)	.145 (3,68)
12SWS0826	SWS 826	.062 (1,57)	.500 (12,70)	1/16 (1,59)	.308 (7,82)	.196 (4,98)
12SWS0827	SWS 827	.046 (1,17)	.375 (9,53)	.040 (1,02)	.250 (6,35)	.171 (4,34)
12SWS0828	SWS 828	.125 (3,18)	.380 (9,65)	.065 (1,65)	.254 (6,45)	.196 (4,98)
12SWS0829	SWS 829	1/8 (3,18)	.370 (9,40)	.110 (2,79)	.307 (7,80)	.255 (6,48)
12SWS0830	SWS 830	.032 (0,81)	.375 (9,53)	.062 (1,57)	.187 (4,75)	.147 (3,73)
12SWS0831	SWS 831	.250 (6,35)	.375 (9,53)	.040 (1,02)	.250 (6,35)	.171 (4,34)
12SWS0832	SWS 832	.043 (1,09)	.375 (9,53)	.035 (0,76)	.257 (6,53)	.193 (4,90)
12SWS0833	SWS 833	.050 (1,27)	.375 (9,53)	.031 (0,79)	.243 (6,17)	.199 (5,05)
12SWS0834	SWS 834	.015 (0,38)	.375 (9,53)	.057 (1,45)	.304 (7,72)	.200 (5,08)
12SWS0835	SWS 835	.050 (1,27)	.377 (9,58)	.050 (1,27)	.245 (6,22)	.155 (3,94)
12SWS0837	SWS 837	.031 (0,79)	.375 (9,53)	.062 (1,57)	.187 (4,75)	.093 (2,36)
12SWS0839	SWS 839	.050 (1,27)	.385 (9,78)	.030 (0,76)	.250 (6,35)	.169 (4,29)
12SWS0840	SWS 840	13/64 (5,16)	.370 (9,40)	5/64 (1,98)	.145 (3,68)	.115 (2,92)
12SWS0841	SWS 841	1/8" (3,17)	3/8" (9,52)	.035 (0,89)	.242 (6,15)	.185 (4,70)
12SWS0842	SWS 842	5/64 (1,98)	.375 (9,53)	7/32 (5,55)	.199 (5,05)	.140 (3,56)
12SWS0844	SWS 844	3/64 (1,19)	.381 (9,68)	1/16 (1,59)	.185 (4,70)	.140 (3,56)
12SWS0846	SWS 846	1/16 (1,59)	.375 (9,53)	3/32 (2,38)	.250 (6,35)	.140 (3,56)
12SWS0847	SWS 847	.213 (5,14)	.375 (9,53)	1/16 (1,59)	.250 (6,35)	.197 (5,00)
12SWS0848	SWS 848	1/32 (0,79)	.385 (9,78)	1/16 (1,59)	.240 (6,10)	.145 (3,68)
12SWS0850	SWS 850	1/16 (1,59)	.375 (9,53)	3/32 (2,38)	.250 (6,35)	.138 (3,51)
12SWS0852	SWS 852	3/32 (2,38)	.375 (9,53)	1/16 (1,59)	.248 (6,30)	.136 (3,45)
12SWS0854	SWS 854	3/64 (1,19)	.375 (9,53)	1/16 (1,59)	.240 (6,10)	.194 (4,93)
12SWS0855	SWS 855	7/64 (2,77)	.375 (9,53)	1/16 (1,59)	.240 (6,10)	.138 (3,51)

NYLON SHOULDER WASHERS ARE SUITABLE FOR A LARGE VARIETY OF INSULATION AND MECHANICAL APPLICATIONS.

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- * STRONG AND CORROSION RESISTANT

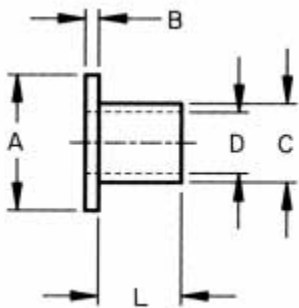


WASHERS, SHOULDER WASHERS AND SCREW INSULATORS

SECTION IV

NYLON SHOULDER WASHERS ARE SUITABLE FOR A LARGE VARIETY OF INSULATION AND MECHANICAL APPLICATIONS.

- * THEY SEAL
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- * ACT AS SPACERS AND GUIDES
- * STRONG AND CORROSION RESISTANT



NYLON SHOULDER WASHERS

ITEM NUMBER	DESCRIPTION	L	A	B	C	D
12SWS0856	SWS 856 3/32 (2,38)	.375 (9,53)	1/64 (0,41)	.185 (4,70)	.140 (3,56)	
12SWS0857	SWS 857 5/32 (3,97)	.375 (9,53)	5/64 (1,98)	.193 (4,90)	.116 (2,95)	
12SWS0858	SWS 858 1/16 (1,59)	.375 (9,53)	1/16 (1,59)	.250 (6,35)	.145 (3,68)	
12SWS0859	SWS 859 9/64 (3,58)	.375 (9,53)	1/32 (0,79)	.245 (6,22)	.187 (4,75)	
12SWS0860	SWS 860 13/64 (5,16)	.380 (9,65)	1/16 (1,59)	.220 (5,59)	.148 (3,76)	
12SWS0861	SWS 861 1/8 (3,18)	.378 (9,60)	1/32 (0,79)	.255 (6,48)	.116 (2,94)	
12SWS0862	SWS 862 3/16 (4,76)	.390 (9,91)	5/64 (1,98)	.287 (7,29)	.196 (4,98)	
12SWS0863	SWS 863 5/64 (1,98)	.390 (9,91)	5/64 (1,98)	.313 (7,95)	.203 (5,16)	
12SWS0864	SWS 864 7/64 (2,77)	.395 (10,03)	5/64 (1,98)	.299 (7,59)	.230 (5,84)	
12SWS0865	SWS 865 .055 (1,44)	.380 (9,65)	.065 (1,65)	.254 (6,45)	.196 (4,98)	
12SWS0867	SWS 867 .046 (1,17)	.375 (9,53)	.040 (1,02)	.214 (5,44)	.141 (3,58)	
12SWS0868	SWS 868 .031 (0,79)	.375 (9,53)	.062 (1,57)	.312 (7,92)	.253 (6,43)	
12SWS0869	SWS 869 .207 (5,26)	.390 (9,91)	.062 (1,57)	.348 (8,84)	.312 (7,92)	
12SWS0870	SWS 870 1/8 (3,18)	.433 (10,99)	1/16 (1,59)	.312 (7,92)	.199 (5,05)	
12SWS0871	SWS 871 .130 (3,30)	.390 (9,91)	.062 (1,57)	.260 (6,60)	.200 (5,08)	
12SWS0872	SWS 872 .160 (4,06)	27/64(10,72)	.050 (1,27)	9/32 (7,15)	.200 (5,08)	
12SWS0873	SWS 873 .126 (3,20)	.394 (10,01)	.039 (0,99)	.256 (6,50)	.221 (5,61)	
12SWS0874	SWS 874 .139 (3,53)	.390 (9,91)	.025 (0,63)	.303 (7,70)	.223 (5,66)	
12SWS0875	SWS 875 .300 (7,62)	.375 (9,53)	.050 (1,27)	.253 (6,43)	.125 (3,18)	
12SWS0876	SWS 876 .075 (1,91)	.390 (9,91)	.062 (1,57)	.260 (6,60)	.200 (5,08)	
12SWS0880	SWS 880 1/8 (3,18)	.400 (10,16)	1/8 (3,18)	.275 (6,99)	.140 (3,56)	
12SWS0882	SWS 882 9/32 (7,14)	.470 (11,93)	5/64 (1,98)	.312 (7,92)	.140 (3,56)	
12SWS0885	SWS 885 .100 (1,54)	.400 (10,16)	1/8 (3,18)	.275 (6,99)	.140 (3,56)	
12SWS0887	SWS 887 .187 (4,75)	.408 (10,36)	.062 (1,57)	.240 (6,10)	.197 (5,00)	
12SWS0888	SWS 888 3/64 (1,19)	.400 (10,16)	3/64 (1,19)	.243 (6,17)	.156 (3,96)	
12SWS0890	SWS 890 3/64 (1,19)	.415 (10,54)	5/32 (3,97)	.243 (6,17)	.141 (3,58)	
12SWS0891	SWS 891 .058 (1,47)	.445 (11,30)	.077 (1,96)	.343 (8,71)	.308 (7,82)	
12SWS0894	SWS 894 1/16 (1,59)	.418 (10,62)	7/64 (2,77)	.243 (6,17)	.141 (3,58)	
12SWS0896	SWS 896 3/16 (4,76)	.408 (10,36)	1/16 (1,59)	.240 (6,10)	.220 (5,59)	
12SWS0900	SWS 900 1/32 (0,79)	.428 (10,87)	1/16 (1,59)	.245 (6,22)	.156 (3,96)	
12SWS0901	SWS 901 .093 (2,36)	.437 (11,10)	.040 (1,02)	.375 (9,53)	.194 (4,93)	
12SWS0902	SWS 902 1/32 (0,79)	.437 (11,10)	1/16 (1,59)	.245 (6,22)	.156 (3,96)	
12SWS0903	SWS 903 .115 (2,92)	.432 (10,97)	.065 (1,65)	.256 (6,50)	.196 (4,98)	
12SWS0904	SWS 904 3/8 (9,53)	.437 (11,10)	1/16 (1,59)	.282 (7,16)	.225 (5,72)	
12SWS0905	SWS 905 1/16 (1,59)	.425 (10,78)	1/16 (1,59)	.310 (7,87)	.250 (6,35)	
12SWS0906	SWS 906 .035 (0,89)	.625 (15,87)	.050 (1,27)	.427 (10,84)	.170 (4,32)	
12SWS0907	SWS 907 .026 (0,66)	.438 (11,13)	.094 (2,39)	.307 (7,80)	.253 (6,43)	
12SWS0908	SWS 908 3/32 (2,38)	.438 (11,13)	1/32 (0,79)	.267 (6,78)	.203 (5,16)	
12SWS0909	SWS 909 13/32 (10,32)	.493 (12,52)	3/32 (2,38)	.376 (9,55)	.176 (4,47)	
12SWS0910	SWS 910 .070 (1,78)	.443 (11,25)	.048 (1,22)	.285 (7,24)	.191 (4,85)	
12SWS0912	SWS 912 9/64 (3,58)	.432 (10,97)	1/32 (0,79)	.303 (7,70)	.196 (4,98)	
12SWS0914	SWS 914 .043 (1,09)	.440 (11,18)	.094 (2,39)	.312 (7,92)	.193 (4,90)	
12SWS0915	SWS 915 .138 (3,51)	.413 (10,49)	.315 (8,00)	.244 (6,20)	.217 (5,51)	
12SWS0916	SWS 916 3/16 (4,76)	.743 (18,87)	1/16 (1,59)	.437 (11,10)	.376 (9,55)	
12SWS0917	SWS 917 3/64 (1,19)	.428 (10,87)	1/8 (3,18)	.350 (8,89)	.308 (7,82)	
12SWS0918	SWS 918 3/64 (1,19)	.450 (11,43)	1/64 (0,41)	.310 (7,87)	.230 (5,84)	
12SWS0919	SWS 919 .060 (1,52)	.460 (11,68)	.030 (0,76)	.370 (9,40)	.260 (6,60)	

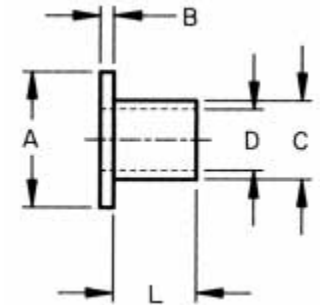
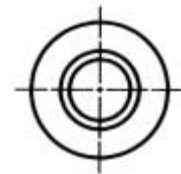


NYLON SHOULDER WASHERS

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ITEM NUMBER	DESCRIPTION	L	A	B	C	D
12SWS0920	SWS 920	.138 (3,51)	.413 (18,87)	.118 (3,00)	.244 (6,20)	.217 (5,51)
12SWS0921	SWS 921	.236 (5,99)	.480 (12,19)	.079 (2,01)	.315 (8,00)	.240 (6,10)
12SWS0925	SWS 925	3/64 (1,19)	.468 (11,89)	1/16 (1,59)	.248 (6,30)	.140 (3,56)
12SWS0926	SWS 926	11/16 (17,53)	.498 (12,64)	1/16 (1,59)	.375 (9,53)	.254 (6,45)
12SWS0930	SWS 930	7/32 (5,55)	.468 (11,89)	3/64 (1,19)	.375 (9,53)	.325 (8,26)
12SWS0935	SWS 935	.187 (4,75)	.495 (12,57)	.065 (1,65)	.312 (7,92)	.200 (5,08)
12SWS0940	SWS 940	.157 (3,99)	.483 (12,27)	.059 (1,50)	.315 (8,00)	.240 (6,10)
12SWS0950	SWS 950	.157 (3,99)	.472 (11,99)	.181 (4,60)	.315 (8,00)	.205 (5,21)
12SWS1001	SWS 1001	3/8 (9,53)	.399 (10,13)	1/16 (1,59)	.260 (6,60)	.200 (5,08)
12SWS1002	SWS 1002	3/32 (2,38)	.438 (11,13)	1/16 (1,59)	.267 (6,78)	.203 (5,16)
12SWS1003	SWS 1003	3/16 (4,76)	.745 (18,92)	1/32 (0,79)	.282 (7,16)	.234 (5,94)
12SWS1004	SWS 1004	9/64 (3,58)	.438 (11,13)	1/32 (0,79)	.250 (6,35)	.135 (3,43)
12SWS1005	SWS 1005	5/64 (1,98)	.464 (11,79)	1/64 (0,41)	.312 (7,92)	.255 (6,48)
12SWS1006	SWS 1006	11/64 (4,37)	.425 (10,80)	1/16 (1,59)	.377 (9,58)	.260 (6,60)
12SWS1007	SWS 1007	3/64 (1,19)	.437 (11,10)	3/64 (1,19)	.281 (7,14)	.201 (5,11)
12SWS1008	SWS 1008	3/64 (1,19)	.620 (15,75)	3/64 (1,19)	.312 (7,92)	.205 (5,21)
12SWS1009	SWS 1009	1/16 (1,59)	.740 (18,80)	1/32 (0,79)	.368 (9,53)	.320 (8,13)
12SWS1010	SWS 1010	3/64 (1,19)	.625 (15,88)	7/64 (2,77)	.375 (9,53)	.250 (6,35)
12SWS1011	SWS 1011	1/16 (1,59)	.675 (17,14)	3/32 (2,38)	.480 (12,19)	.257 (6,53)
12SWS1012	SWS 1012	1/8 (3,18)	.697 (17,70)	1/16 (1,59)	.359 (9,12)	.266 (6,76)
12SWS1013	SWS 1013	3/64 (1,19)	.688 (17,48)	1/32 (0,79)	.543 (13,79)	.508 (12,90)
12SWS1014	SWS 1014	1/32 (0,79)	.437 (11,10)	1/32 (0,79)	.310 (7,87)	.253 (6,43)
12SWS1015	SWS 1015	3/64 (1,19)	.500 (12,70)	3/32 (2,38)	.275 (6,99)	.145 (3,68)
12SWS1016	SWS 1016	7/16 (11,11)	.500 (12,70)	1/8 (3,18)	.250 (6,35)	.167 (4,24)
12SWS1017	SWS 1017	1/16 (1,59)	.562 (14,27)	3/32 (2,38)	.375 (9,53)	.260 (6,60)
12SWS1018	SWS 1018	3/16 (4,76)	.625 (15,88)	1/16 (1,59)	.322 (8,18)	.255 (6,48)
12SWS1019	SWS 1019	3/64 (1,19)	.615 (15,62)	1/32 (0,79)	.310 (7,87)	.253 (6,43)
12SWS1020	SWS 1020	1/16 (1,59)	.640 (16,26)	1/16 (1,59)	.380 (9,65)	.195 (4,95)
12SWS1021	SWS 1021	3/64 (1,19)	.630 (16,00)	1/32 (0,79)	.248 (6,30)	.171 (4,34)
12SWS1022	SWS 1022	3/64 (1,19)	.625 (15,88)	1/16 (1,59)	.375 (9,53)	.190 (4,83)
12SWS1023	SWS 1023	3/64 (1,19)	.555 (14,10)	5/64 (1,98)	.300 (7,62)	.260 (6,60)
12SWS1025	SWS 1025	7/16 (11,11)	.562 (14,27)	1/16 (1,59)	.375 (9,53)	.255 (6,48)
12SWS1026	SWS 1026	1/32 (0,79)	.588 (14,93)	1/32 (0,79)	.253 (6,43)	.198 (5,02)
12SWS1027	SWS 1027	1/2 (12,70)	.500 (12,70)	1/16 (1,59)	.365 (9,27)	.312 (7,92)
12SWS1028	SWS 1028	.249 (6,32)	.500 (12,70)	.062 (1,57)	.250 (6,35)	.189 (4,80)
12SWS1029	SWS 1029	.158 (4,01)	.500 (12,70)	.120 (3,05)	.300 (7,62)	.196 (4,98)
12SWS1030	SWS 1030	3/32 (2,38)	.490 (12,45)	1/16 (1,59)	.281 (7,14)	.200 (5,08)
12SWS1031	SWS 1031	.050 (1,27)	.500 (12,70)	.062 (1,57)	.248 (6,30)	.194 (4,93)
12SWS1032	SWS 1032	1/32 (0,79)	.500 (12,70)	3/32 (2,38)	.250 (6,35)	.156 (3,96)
12SWS1033	SWS 1033	5/16 (7,94)	.500 (12,70)	1/16 (1,59)	.312 (7,92)	.200 (5,08)
12SWS1034	SWS 1034	1/32 (0,79)	.500 (12,70)	1/32 (0,79)	.312 (7,92)	.252 (6,40)
12SWS1035	SWS 1035	1/32 (0,79)	.500 (12,70)	1/16 (1,59)	.230 (5,84)	.147 (3,73)
12SWS1036	SWS 1036	1/64 (0,41)	.500 (12,70)	5/64 (1,98)	.250 (6,35)	.165 (4,19)
12SWS1037	SWS 1037	.047 (1,19)	.500 (12,70)	.125 (3,17)	.281 (7,14)	.219 (5,56)
12SWS1038	SWS 1038	1.000 (25,40)	.875 (22,23)	.062 (1,57)	.500 (12,70)	.390 (9,91)
12SWS1040	SWS 1040	3/32 (2,38)	.505 (12,83)	1/16 (1,59)	.343 (8,71)	.257 (6,53)
12SWS1041	SWS 1041	.335 (8,51)	.495 (12,57)	.050 (1,27)	.346 (8,79)	.260 (6,60)

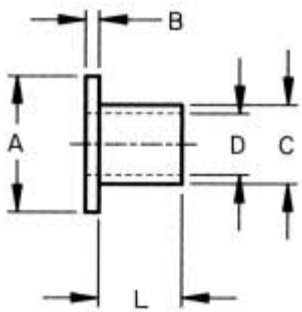
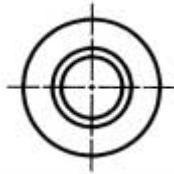


WASHERS, SHOULDER WASHERS AND SCREW INSULATORS

SECTION IV

NYLON SHOULDER WASHERS ARE SUITABLE FOR A LARGE VARIETY OF INSULATION AND MECHANICAL APPLICATIONS.

- * THEY SEAL
- * REDUCE VIBRATION
- * ACT AS SPACERS AND GUIDES
- * STRONG AND CORROSION RESISTANT



NYLON SHOULDER WASHERS

ITEM NUMBER	DESCRIPTION	L	A	B	C	D
12SWS1045	SWS 1045 3/16	(4,76)	.498 (12,65)	1/4 (6,35)	.310 (7,87)	.195 (4,95)
12SWS1048	SWS 1048 7/16	(11,11)	.500 (12,70)	1/16 (1,59)	.375 (9,53)	.250 (6,35)
12SWS1050	SWS 1050 5/32	(3,97)	.490 (12,45)	1/16 (1,59)	.250 (6,35)	.190 (4,83)
12SWS1051	SWS 1051 3/64	(1,19)	.441 (11,20)	1/16 (1,59)	.248 (6,30)	.194 (4,92)
12SWS1052	SWS 1052 5/32	(3,97)	.488 (12,39)	1/8 (3,18)	.250 (6,35)	.190 (4,83)
12SWS1053	SWS 1053 .170	(4,32)	.500 (12,70)	.125 (3,17)	.375 (9,52)	.257 (6,53)
12SWS1054	SWS 1054 9/64	(3,58)	.500 (12,70)	1/16 (1,59)	.345 (8,76)	.285 (7,34)
12SWS1055	SWS 1055 1/32	(0,79)	.495 (12,57)	1/32 (0,79)	.312 (7,92)	.260 (6,60)
12SWS1057	SWS 1057 3/32	(2,38)	.500 (12,70)	1/16 (1,59)	.312 (7,92)	.260 (6,60)
12SWS1058	SWS 1058 1/32	(0,79)	.490 (12,45)	1/32 (0,79)	.310 (7,87)	.193 (4,90)
12SWS1059	SWS 1059 .060	(1,52)	.500 (12,70)	.030 (0,76)	.365 (9,27)	.260 (6,60)
12SWS1060	SWS 1060 5/64	(1,98)	.492 (12,50)	1/32 (0,79)	.318 (8,08)	.265 (6,73)
12SWS1061	SWS 1061 5/32	(3,97)	.488 (12,39)	1/8 (3,18)	.250 (6,35)	.215 (5,46)
12SWS1065	SWS 1065 3/16	(4,76)	.513 (13,03)	1/16 (1,59)	.312 (7,92)	.175 (4,45)
12SWS1070	SWS 1070 5/64	(1,98)	.495 (12,57)	1/32 (0,79)	.318 (8,08)	.193 (4,90)
12SWS1071	SWS 1071 .253	(6,43)	.502 (12,75)	.187 (4,75)	.374 (9,50)	.318 (8,08)
12SWS1075	SWS 1075 1/4	(6,35)	.513 (13,03)	1/16 (1,59)	.370 (9,40)	.260 (6,60)
12SWS1080	SWS 1080 1/64	(0,41)	.500 (12,70)	1/32 (0,79)	.318 (8,08)	.141 (3,58)
12SWS1082	SWS 1082 3/64	(1,19)	.500 (12,70)	1/32 (0,79)	.318 (8,08)	.193 (4,90)
12SWS1084	SWS 1084 3/64	(1,19)	.500 (12,70)	1/32 (0,79)	.318 (8,08)	.141 (3,58)
12SWS1086	SWS 1086 1/16	(1,59)	.500 (12,70)	1/16 (1,59)	.330 (8,38)	.150 (3,81)
12SWS1088	SWS 1088 .109	(2,77)	.500 (12,70)	1/16 (1,59)	.240 (6,10)	.138 (3,51)
12SWS1090	SWS 1090 3/64	(1,19)	.518 (13,16)	1/32 (0,79)	.305 (7,75)	.080 (2,03)
12SWS1092	SWS 1092 .075	(1,91)	.500 (12,70)	.175 (4,45)	.300 (7,62)	.195 (4,95)
12SWS1095	SWS 1095 1/8	(3,18)	.502 (12,75)	1/32 (0,79)	.399 (10,13)	.349 (8,86)
12SWS1098	SWS 1098 9/64	(3,58)	.515 (13,08)	1/16 (1,59)	.312 (7,93)	.260 (6,60)
12SWS1101	SWS 1101 3/32	(2,38)	.500 (12,70)	1/32 (0,79)	.282 (7,16)	.234 (5,94)
12SWS1115	SWS 1115 .500	(12,70)	.525 (15,88)	.063 (1,60)	.370 (9,40)	.267 (6,78)
12SWS1145	SWS 1145 .030	(0,76)	.562 (14,28)	.030 (0,76)	.400 (10,16)	.318 (8,08)
12SWS1150	SWS 1150 3/64	(1,19)	.562 (14,28)	3/64 (1,19)	.300 (7,62)	.260 (6,60)
12SWS1151	SWS 1151 .104	(2,64)	.562 (14,28)	.046 (1,17)	.300 (7,62)	.260 (6,60)
12SWS1152	SWS 1152 .500	(12,70)	.525 (13,33)	.063 (1,60)	.370 (9,40)	.265 (6,73)
12SWS1155	SWS 1155 3/64	(1,19)	.562 (14,28)	.024 (0,61)	.370 (9,40)	.335 (8,51)
12SWS1159	SWS 1159 9/16	(14,29)	.550 (13,97)	1/16 (1,59)	.375 (9,53)	.255 (6,48)
12SWS1160	SWS 1160 1/16	(1,59)	.562 (14,28)	7/64 (2,77)	.365 (9,27)	.215 (5,46)
12SWS1162	SWS 1162 27/64	(10,72)	.560 (14,22)	1/16 (1,59)	.375 (9,53)	.255 (6,48)
12SWS1163	SWS 1163 15/32	(11,91)	.550 (13,97)	1/16 (1,59)	.380 (9,65)	.247 (6,27)
12SWS1164	SWS 1164 1/32	(0,79)	.562 (14,28)	1/8 (3,18)	.312 (7,93)	.169 (4,29)
12SWS1165	SWS 1165 1/4	(6,35)	.551 (13,99)	1/16 (1,59)	.380 (9,65)	.248 (6,30)
12SWS1170	SWS 1170 3/8	(9,53)	.570 (14,48)	1/16 (1,59)	.470 (11,94)	.385 (9,78)
12SWS1175	SWS 1175 .783	(19,89)	.570 (14,48)	.039 (0,99)	.491 (12,47)	.413 (10,49)
12SWS1176	SWS 1176 .335	(8,51)	.545 (13,84)	.075 (1,91)	.316 (8,03)	.166 (4,22)
12SWS1180	SWS 1180 3/64	(1,19)	.578 (14,68)	1/16 (1,59)	.185 (4,70)	.140 (3,56)

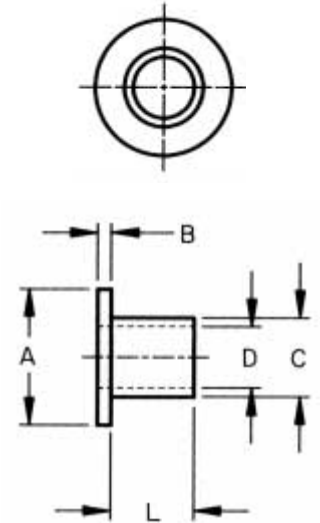


NYLON SHOULDER WASHERS

ITEM NUMBER	DESCRIPTION	L	A	B	C	D
12SWS1200	SWS 1200 3/64	(1,19)	.615 (15,62)	3/64 (1,19)	.315 (8,00)	.208 (5,28)
12SWS1201	SWS 1201 1/8	(3,18)	.620 (15,75)	3/8 (9,53)	.360 (9,14)	.320 (8,13)
12SWS1204	SWS 1204 .500	(12,70)	.600 (15,24)	.025 (0,64)	.485 (12,32)	.324 (8,23)
12SWS1205	SWS 1205 1/32	(0,79)	.620 (15,75)	3/64 (1,19)	.434 (11,02)	.383 (9,73)
12SWS1210	SWS 1210 1/32	(0,79)	.625 (15,88)	1/16 (1,59)	.405 (10,29)	.378 (9,60)
12SWS1211	SWS 1211 .139	(3,53)	.625 (15,88)	.066 (1,68)	.405 (10,29)	.320 (8,13)
12SWS1212	SWS 1212 .025	(0,64)	.625 (15,88)	.062 (1,57)	.375 (9,53)	.200 (5,08)
12SWS1215	SWS 1215 .062	(1,57)	.625 (15,88)	1/32 (0,79)	.310 (7,87)	.195 (4,95)
12SWS1217	SWS 1217 .030	(0,76)	.625 (15,88)	.030 (0,76)	.447 (12,12)	.378 (9,60)
12SWS1219	SWS 1219 3/64	(1,19)	.625 (15,88)	1/16 (1,59)	.310 (7,87)	.172 (4,37)
12SWS1220	SWS 1220 3/4	(19,05)	.620 (15,75)	1/8 (3,18)	.400 (10,60)	.260 (6,60)
12SWS1221	SWS 1221 1/8	(3,18)	.630 (16,00)	1/16 (1,59)	.327 (8,31)	.260 (6,60)
12SWS1222	SWS 1222 1/32	(0,79)	.625 (15,88)	1/32 (0,79)	.448 (11,37)	.378 (9,60)
12SWS1225	SWS 1225 .027	(0,69)	.625 (15,88)	.062 (1,57)	.248 (6,30)	.120 (3,05)
12SWS1227	SWS 1227 .210	(5,33)	.625 (15,88)	.058 (1,47)	.379 (9,63)	.263 (6,68)
12SWS1228	SWS 1228 .025	(0,64)	.625 (15,88)	.060 (1,52)	.219 (5,56)	.140 (3,56)
12SWS1230	SWS 1230 3/64	(1,19)	.550 (13,97)	5/64 (1,98)	.305 (7,75)	.260 (6,60)
12SWS1232	SWS 1232 1/2	(12,70)	.625 (15,88)	1/16 (1,59)	.370 (9,40)	.316 (8,03)
12SWS1233	SWS 1233 .090	(2,29)	.625 (15,88)	.062 (1,57)	.311 (7,90)	.253 (6,43)
12SWS1235	SWS 1235 .150	(3,81)	.620 (15,75)	.060 (1,52)	.502 (12,75)	.316 (8,03)
12SWS1240	SWS 1240 3/16	(4,76)	.630 (16,00)	1/16 (1,59)	.375 (9,53)	.254 (6,45)
12SWS2499	SWS 2499 3/8	(9,53)	.513 (13,03)	1/16 (1,59)	.312 (7,93)	.191 (4,85)
12SWS2501	SWS 2501 3/8	(9,53)	.513 (13,03)	1/16 (1,59)	.312 (7,93)	.261 (6,63)
12SWS2502	SWS 2502 1/8	(3,18)	.467 (11,86)	3/64 (1,19)	.312 (7,93)	.255 (6,48)
12SWS2503	SWS 2503 1/32	(0,79)	.625 (15,88)	1/16 (1,59)	.375 (9,53)	.295 (7,49)
12SWS2504	SWS 2504 1/8	(3,18)	.687 (17,45)	1/8 (3,18)	.437 (11,10)	.328 (8,33)
12SWS2505	SWS 2505 1/32	(0,79)	.500 (12,70)	1/16 (1,59)	.312 (7,93)	.252 (6,40)
12SWS2506	SWS 2506 5/16	(7,94)	.625 (15,88)	1/16 (1,59)	.500 (12,70)	.380 (9,65)
12SWS2507	SWS 2507 1/8	(3,18)	.600 (15,24)	1/8 (3,18)	.370 (7,93)	.250 (6,35)
12SWS2508	SWS 2508 3/16	(4,76)	.674 (17,12)	3/32 (2,38)	.500 (12,70)	.290 (7,36)
12SWS2509	SWS 2509 1-7/64	(28,17)	.635 (16,13)	9/64 (3,58)	.425 (10,80)	.201 (5,11)
12SWS2510	SWS 2510 3/8	(9,53)	.687 (17,45)	3/8 (9,53)	.359 (9,12)	.263 (6,68)
12SWS2511	SWS 2511 5/16	(7,94)	.625 (15,88)	1/16 (1,59)	.500 (12,70)	.395 (10,03)
12SWS2512	SWS 2512 .334	(8,48)	.687 (17,45)	.046 (1,17)	.348 (8,84)	.263 (6,68)
12SWS2513	SWS 2513 1/8	(3,18)	.703 (17,86)	1/16 (1,59)	.437 (11,10)	.335 (8,51)
12SWS2515	SWS 2515 .420	(10,67)	.710 (18,03)	.075 (1,90)	.470 (11,94)	.420 (10,67)
12SWS2515	SWS 2516 .280	(7,11)	.701 (17,80)	.062 (1,57)	.305 (7,75)	.258 (6,55)
12SWS2517	SWS 2517 .110	(2,79)	.710 (18,03)	.190 (4,83)	.338 (8,59)	.255 (6,48)
12SWS2520	SWS 2520 5/32	(3,97)	.725 (18,41)	5/32 (3,97)	.445 (11,30)	.375 (9,53)
12SWS2521	SWS 2521 5/32	(3,97)	.720 (18,29)	1/16 (1,59)	.485 (12,32)	.270 (6,86)
12SWS2525	SWS 2525 11/32	(3,43)	.730 (18,54)	1/4 (6,35)	.375 (9,53)	.257 (6,52)
12SWS2528	SWS 2528 3/16	(4,76)	.743 (18,87)	1/16 (1,59)	.443 (11,25)	.375 (9,53)
12SWS2531	SWS 2531 5/16	(7,94)	.743 (18,87)	5/64 (1,98)	.502 (12,75)	.383 (9,72)

NYLON SHOULDER WASHERS ARE SUITABLE FOR A LARGE VARIETY OF INSULATION AND MECHANICAL APPLICATIONS.

- * THEY SEAL
- * REDUCE VIBRATION
- * ACT AS SPACERS AND GUIDES
- * STRONG AND CORROSION RESISTANT

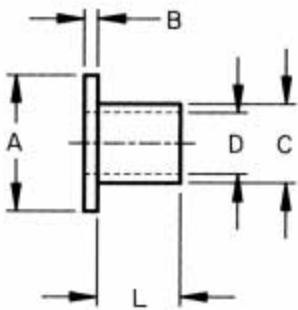


WASHERS, SHOULDER WASHERS AND SCREW INSULATORS

SECTION IV

NYLON SHOULDER WASHERS ARE SUITABLE FOR A LARGE VARIETY OF INSULATION AND MECHANICAL APPLICATIONS.

- * THEY SEAL
- * REDUCE VIBRATION
- * ACT AS SPACERS AND GUIDES
- * STRONG AND CORROSION RESISTANT



NYLON SHOULDER WASHERS

ITEM NUMBER	DESCRIPTION	L	A	B	C	D
12SWS2532	SWS 2532 .155 (3,94)	.745 (18,92)	.100 (2,54)	.545 (13,84)	.391 (9,93)	
12SWS2533	SWS 2533 .375 (9,52)	3/4 (19,05)	.375 (9,52)	.594 (15,09)	.380 (9,65)	
12SWS2534	SWS 2534 .187 (4,75)	.745 (18,92)	.031 (0,79)	.282 (7,16)	.234 (5,94)	
12SWS2539	SWS 2539 11/32 (8,73)	.740 (18,80)	3/32 (2,38)	.375 (9,53)	.266 (6,76)	
12SWS2540	SWS 2540 1/8 (3,18)	.740 (18,80)	3/32 (2,38)	.371 (9,42)	.266 (6,76)	
12SWS2541	SWS 2541 5/64 (1,98)	.750 (19,05)	3/32 (2,38)	.380 (9,65)	.266 (6,76)	
12SWS2542	SWS 2542 3/64 (1,19)	.750 (19,05)	3/16 (4,76)	.500 (12,70)	.430 (10,92)	
12SWS2543	SWS 2543 .77 (19,56)	.75 (19,05)	.095 (2,41)	.490 (12,45)	.19 (4,83)	
12SWS2544	SWS 2544 1.00 (25,40)	.75 (19,05)	.095 (2,41)	.375 (9,53)	.265 (6,73)	
12SWS2545	SWS 2545 .100 (2,54)	.750 (19,05)	.086 (2,18)	.500 (12,70)	.250 (6,35)	
12SWS2546	SWS 2546 .125 (3,18)	.750 (19,05)	.187 (4,75)	.500 (12,70)	.344 (8,74)	
12SWS2547	SWS 2547 .250 (6,35)	.750 (19,05)	.062 (1,57)	.617 (15,67)	.509 (12,93)	
12SWS2548	SWS 2548 .425 (10,80)	.750 (19,05)	1/16" (1,59)	.590 (14,99)	.375 (9,53)	
12SWS2550	SWS 2550 1/16 (1,59)	.734 (18,64)	1/8 (3,18)	.488 (12,40)	.250 (6,35)	
12SWS2551	SWS 2551 3/64 (1,19)	.753 (19,12)	5/64 (1,98)	.409 (10,38)	.258 (6,55)	
12SWS2552	SWS 2552 7/64 (2,77)	.743 (18,87)	3/32 (2,38)	.500 (12,70)	.375 (9,53)	
12SWS2553	SWS 2553 5/16 (7,94)	.750 (19,05)	5/64 (1,98)	.500 (12,70)	.370 (9,39)	
12SWS2554	SWS 2554 3/64 (1,19)	.735 (18,67)	3/16 (4,76)	.490 (12,45)	.435 (11,05)	
12SWS2555	SWS 2555 .098 (2,49)	.747 (18,87)	.079 (2,01)	.482 (12,24)	.358 (9,09)	
12SWS2556	SWS 2556 3/16 (4,76)	.750 (19,05)	1/16 (1,59)	.500 (12,70)	.375 (9,53)	
12SWS2557	SWS 2557 23/64 (10,00)	.748 (18,99)	1/8 (3,18)	.504 (12,80)	.384 (9,75)	
12SWS2558	SWS 2558 1/8 (3,18)	.750 (19,05)	1/16 (1,59)	.500 (12,70)	.375 (9,53)	
12SWS2560	SWS 2560 3/64 (1,19)	.750 (19,05)	1/32 (0,79)	.371 (9,42)	.253 (6,43)	
12SWS2561	SWS 2561 27/64 (10,72)	.750 (19,05)	11/64 (4,37)	.434 (11,02)	.312 (7,93)	
12SWS2562	SWS 2562 1/4 (3,38)	.755 (19,17)	5/64 (1,98)	.505 (12,83)	.378 (9,60)	
12SWS2563	SWS 2563 3/32 (1,19)	.750 (19,05)	1/8 (3,18)	.375 (9,53)	.265 (6,73)	
12SWS2564	SWS 2564 1/4 (6,35)	.750 (19,05)	1/16 (1,59)	.250 (6,35)	.150 (3,81)	
12SWS2566	SWS 2566 15/32 (11,90)	.740 (18,80)	5/32 (3,97)	.375 (9,53)	.250 (6,35)	
12SWS2568	SWS 2568 3/64 (1,19)	.750 (19,05)	1/32 (0,79)	.341 (8,66)	.253 (6,43)	
12SWS2570	SWS 2570 11/16 (17,46)	.740 (18,80)	9/64 (3,58)	.385 (9,78)	.260 (6,60)	
12SWS2571	SWS 2571 .320 (8,13)	.750 (19,05)	.030 (0,76)	.580 (14,73)	.517 (13,13)	
12SWS2575	SWS 2575 51/64 (20,24)	.750 (19,06)	3/32 (2,38)	.315 (8,01)	.190 (4,83)	
12SWS2576	SWS 2576 1/32 (0,76)	.750 (19,05)	1/32 (0,79)	.500 (12,70)	.219 (5,56)	
12SWS2578	SWS 2578 3/16 (4,76)	.750 (19,06)	1/16 (1,59)	.625 (15,88)	.510 (12,95)	
12SWS2580	SWS 2580 5/16 (7,94)	.745 (18,92)	1/32 (0,79)	.560 (14,22)	.500 (12,70)	
12SWS2585	SWS 2585 1/4 (6,35)	.740 (18,80)	1/2 (12,70)	.605 (15,37)	.380 (9,65)	
12SWS2586	SWS 2586 1/4 (6,35)	.750 (19,05)	1/8 (3,18)	.500 (12,70)	.281 (7,14)	
12SWS2590	SWS 2590 .018 (0,46)	.745 (18,92)	.085 (2,16)	.305 (7,75)	.200 (5,08)	
12SWS3001	SWS 3001 1/8 (3,18)	.693 (17,60)	1/16 (1,59)	.437 (11,10)	.328 (8,33)	
12SWS3002	SWS 3002 3/64 (1,19)	.750 (19,05)	3/64 (1,19)	.375 (9,53)	.323 (8,20)	
12SWS3003	SWS 3003 7/32 (5,55)	.750 (19,05)	3/32 (2,38)	.380 (9,65)	.266 (6,76)	
12SWS3004	SWS 3004 1/16 (1,59)	.750 (19,05)	3/32 (2,38)	.359 (9,12)	.152 (3,86)	
12SWS3005	SWS 3005 5/32 (3,97)	.750 (19,05)	1/32 (0,79)	.498 (12,64)	.378 (9,60)	

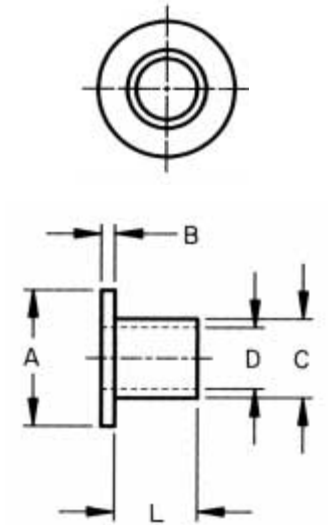


NYLON SHOULDER WASHERS

ITEM NUMBER	DESCRIPTION	L	A	B	C	D
12SWS3006	SWS 3006 1/32 (0,79)	.750 (19,05)	1/8 (3,18)	.500 (12,70)	.375 (9,53)	
12SWS3007	SWS 3007 1/16 (1,59)	.750 (19,05)	1/8 (3,18)	.500 (12,70)	.375 (9,53)	
12SWS3008	SWS 3008 1/16 (1,59)	.745 (18,92)	1/32 (0,79)	.375 (9,53)	.320 (8,13)	
12SWS3009	SWS 3009 3/64 (1,19)	.760 (19,30)	5/64 (1,98)	.410 (10,41)	.258 (6,55)	
12SWS3010	SWS 3010 .027 (0,68)	.745 (18,92)	.031 (0,79)	.310 (7,87)	.257 (6,53)	
12SWS3012	SWS 3012 .395 (10,03)	.740 (18,80)	.062 (1,57)	.430 (10,92)	.322 (8,18)	
12SWS3015	SWS 3015 1.005 (25,53)	.752 (19,10)	.060 (1,52)	.505 (12,83)	.320 (8,13)	
12SWS3016	SWS 3016 .050 (1,27)	.745 (18,82)	1/16 (1,59)	.556 (14,12)	.515 (13,08)	
12SWS3017	SWS 3017 5/32 (3,97)	.755 (19,18)	1/2 (12,70)	.510 (12,95)	.385 (9,78)	
12SWS3020	SWS 3020 .305 (7,75)	.740 (18,80)	.130 (3,30)	.495 (12,57)	.219 (5,56)	
12SWS3021	SWS 3021 .440 (11,18)	.745 (18,92)	1/16 (1,59)	.495 (12,57)	.390 (9,91)	
12SWS3030	SWS 3030 .252 (6,40)	.780 (19,81)	.079 (2,01)	.392 (9,96)	.250 (6,35)	
12SWS3100	SWS 3100 .325 (8,26)	.825 (20,96)	.060 (1,52)	.435 (11,05)	.310 (7,87)	
12SWS3101	SWS 3101 1/32 (0,79)	.750 (19,05)	1/16 (1,59)	.375 (9,53)	.260 (6,60)	
12SWS3102	SWS 3102 1/2 (12,70)	.825 (20,96)	1/16 (1,59)	.620 (15,75)	.520 (13,21)	
12SWS3103	SWS 3103 1/2 (12,70)	.872 (22,14)	1/8 (3,18)	.617 (15,67)	.335 (8,51)	
12SWS3150	SWS 3150 1 (25,40)	.875 (22,23)	1/16 (1,59)	.500 (12,70)	.375 (9,53)	
12SWS3151	SWS 3151 3/8 (9,53)	.7/8 (22,22)	1/8 (3,17)	.633 (16,08)	.510 (12,95)	
12SWS3155	SWS 3155 3/8 (9,53)	.875 (22,23)	1/8 (3,18)	.630 (16,00)	.440 (11,18)	
12SWS3160	SWS 3160 1/2 (12,70)	.875 (22,23)	1/16 (1,59)	.750 (19,05)	.635 (16,13)	
12SWS3165	SWS 3165 3/8 (9,53)	.875 (22,23)	1/8 (3,18)	.620 (15,75)	.250 (6,35)	
12SWS3200	SWS 3200 3/16 (4,76)	.995 (25,27)	1/8 (3,18)	.792 (20,12)	.695 (17,65)	
12SWS3205	SWS 3205 5/8 (15,88)	.995 (25,27)	1/8 (3,18)	.787 (19,99)	.695 (17,65)	
12SWS3210	SWS 3210 1 (25,40)	.995 (25,27)	1/8 (3,18)	.788 (20,02)	.695 (17,65)	
12SWS3500	SWS 3500 3/16 (4,76)	.750 (19,05)	1/16 (1,59)	.498 (12,64)	.378 (9,60)	
12SWS3501	SWS 3501 7/64 (2,77)	.750 (19,05)	3/32 (2,38)	.577 (14,66)	.390 (9,91)	
12SWS3502	SWS 3502 27/64 (10,72)	.790 (20,07)	3/64 (1,19)	.625 (15,88)	.550 (13,97)	
12SWS3503	SWS 3503 13/16 (8,12)	.625 (15,88)	1/8 (3,18)	.375 (9,53)	.255 (6,47)	
12SWS3504	SWS 3504 13/16 (8,12)	.625 (15,88)	1/8 (3,18)	.375 (9,53)	.260 (6,60)	
12SWS3507	SWS 3507 .250 (6,35)	.830 (21,08)	.100 (2,54)	.452 (11,18)	.253 (6,43)	
12SWS3510	SWS 3510 13/32 (10,32)	.825 (20,96)	3/32 (2,38)	.445 (11,30)	.306 (7,77)	
12SWS3511	SWS 3511 13/64 (5,16)	.880 (22,35)	3/64 (1,19)	.750 (19,05)	.617 (15,67)	
12SWS3512	SWS 3512 .935 (23,75)	.872 (22,15)	.110 (2,79)	.497 (12,62)	.385 (9,78)	
12SWS3513	SWS 3513 .250 (6,35)	.875 (22,22)	.125 (3,17)	.617 (15,67)	.335 (8,51)	
12SWS3520	SWS 3520 17/32 (13,49)	.945 (24,03)	5/64 (1,98)	.470 (11,93)	.406 (10,31)	
12SWS3562	SWS 3562 1/4 (6,35)	.980 (24,89)	1/8 (3,18)	.556 (14,12)	.380 (9,65)	
12SWS3580	SWS 3580 9/16 (14,29)	1.25 (31,75)	3/64 (1,19)	1.00 (25,40)	.559 (14,20)	
12SWS3600	SWS 3600 .660 (16,76)	1.010 (25,65)	.160 (4,06)	.600 (15,24)	.260 (6,60)	
12SWS3601	SWS 3601 3/16 (4,76)	1.000 (25,40)	1/4 (6,35)	.435 (11,05)	.325 (8,26)	
12SWS3602	SWS 3602 1/32 (0,79)	1.000 (25,40)	3/32 (2,38)	.616 (15,65)	.515 (13,08)	
12SWS3603	SWS 3603 .050 (1,27)	1.005 (25,53)	.070 (1,78)	.500 (12,70)	.453 (11,51)	
12SWS3604	SWS 3604 .243 (6,17)	1.006 (25,55)	.078 (1,98)	.504 (12,80)	.376 (9,55)	
12SWS3605	SWS 3605 5/16 (7,94)	1.005 (25,53)	1/16 (1,59)	.500 (12,70)	.375 (9,53)	

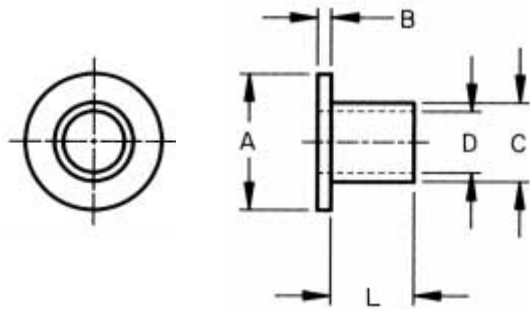
NYLON SHOULDER WASHERS ARE SUITABLE FOR A LARGE VARIETY OF INSULATION AND MECHANICAL APPLICATIONS.

- * THEY SEAL
- * REDUCE VIBRATION
- * ACT AS SPACERS AND GUIDES
- * STRONG AND CORROSION RESISTANT



WASHERS, SHOULDER WASHERS AND SCREW INSULATORS

SECTION IV



NYLON SHOULDER WASHERS ARE SUITABLE FOR A LARGE VARIETY OF INSULATION AND MECHANICAL APPLICATIONS.

- * THEY SEAL
- * REDUCE VIBRATION
- * ACT AS SPACERS AND GUIDES
- * STRONG AND CORROSION RESISTANT



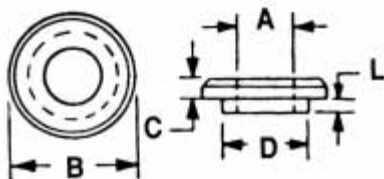
NYLON SHOULDER WASHERS

ITEM NUMBER	DESCRIPTION	L	A	B	C	D
12SWS3606	SWS 3606 .33 (8,38)	1.00 (25,40)	.04 (1,02)	.625 (15,87)	.515 (13,08)	
12SWS3607	SWS 3607 .521 (13,23)	1.068 (27,13)	.062 (1,57)	.896 (22,76)	.630 (16,00)	
12SWS3610	SWS 3610 9/16 (14,29)	1.000 (25,40)	1/16 (1,59)	.500 (12,70)	.382 (9,70)	
12SWS3615	SWS 3615 3/4 (19,05)	1.000 (25,40)	1/8 (3,18)	.500 (12,70)	.375 (9,53)	
12SWS3650	SWS 3650 7/64 (2,77)	1.000 (25,40)	5/64 (1,98)	.770 (19,56)	.508 (12,90)	
12SWS3680	SWS 3680 1/16 (1,59)	1.000 (25,40)	1/16 (1,59)	.298 (7,57)	.203 (5,16)	
12SWS3685	SWS 3685 1/16 (1,59)	1.064 (27,02)	1/16 (1,59)	.787 (19,99)	.612 (15,54)	
12SWS3686	SWS 3686 .281 (7,14)	1.105 (28,07)	.092 (2,34)	.718 (18,24)	.515 (13,08)	
12SWS3690	SWS 3690 7/16 (11,11)	1.125 (28,58)	3/32 (2,38)	.700 (17,78)	.510 (12,95)	
12SWS3691	SWS 3691 .060 (1,52)	1.160 (29,46)	.128 (3,25)	.495 (12,57)	.377 (9,58)	
12SWS4001	SWS 4001 3/32 (2,38)	1.125 (28,58)	1/16 (1,59)	.740 (18,80)	.515 (13,08)	
12SWS4002	SWS 4002 3/32 (2,38)	1.230 (31,24)	1/16 (1,59)	.980 (24,89)	.510 (12,95)	
12SWS4003	SWS 4003 9/32 (7,14)	1.105 (28,07)	1/8 (3,18)	.752 (19,10)	.515 (13,08)	
12SWS4004	SWS 4004 1/2 (12,70)	1.245 (31,69)	1/8 (3,18)	.875 (22,23)	.627 (15,92)	
12SWS4005	SWS 4005 13/32 (10,32)	1.252 (31,80)	1/16 (1,59)	.600 (15,24)	.538 (13,66)	
12SWS4006	SWS 4006 13/32 (10,32)	1.251 (31,77)	1/16 (1,59)	.528 (13,41)	.471 (11,96)	
12SWS4007	SWS 4007 13/64 (5,16)	1.739 (44,17)	13/64 (5,16)	1.095 (27,81)	.435 (11,04)	
12SWS4008	SWS 4008 11/32 (8,71)	1.250 (31,75)	5/32 (3,97)	.995 (25,27)	.885 (22,48)	
12SWS4009	SWS 4009 3/4 (19,05)	1 1/8 (28,57)	1/16 (1,59)	7/16 (11,11)	5/16 (7,94)	
12SWS4010	SWS 4010 3/32 (2,38)	1.250 (31,75)	1/16 (1,59)	.930 (23,62)	.562 (14,27)	
12SWS4011	SWS 4011 .094 (2,39)	1.250 (31,75)	.062 (1,57)	.989 (25,12)	.562 (14,27)	
12SWS4012	SWS 4012 .060 (1,52)	1.650 (41,91)	.060 (1,52)	1.380 (35,05)	1.125 (28,58)	
12SWS4013	SWS 4013 5/8 (15,88)	1-3/4 (44,45)	1/8 (3,18)	1-3/8 (34,93)	1.015 (25,78)	
12SWS4014	SWS 4014 .238 (6,04)	1.501 (38,12)	.133 (3,38)	1.248 (31,70)	.942 (23,92)	
12SWS5001	SWS 5001 1/2 (12,70)	2.065 (52,45)	1/8 (3,18)	1.050 (26,67)	.806 (20,42)	
12SWS5009	SWS 5009 45/64 (7,03)	2.111 (53,62)	1/8 (3,18)	.603 (15,31)	.270 (6,85)	

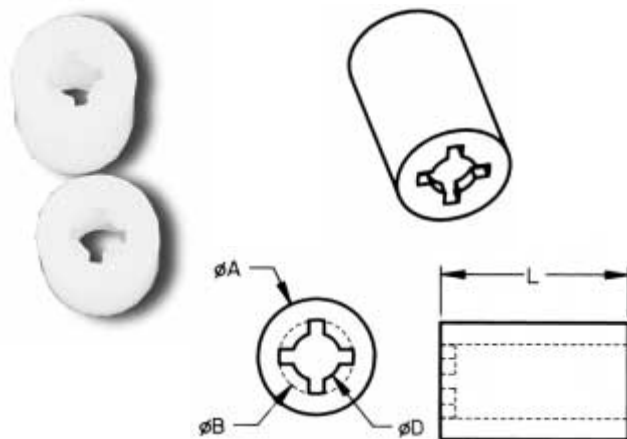


NYLON STANDARD SHOULDER WASHERS

ITEM NUMBER	DESCRIPTION	A	B	C	D	L
24SW0002	SW 2 .093 (2,36)	.250 (6,35)	.040 (1,02)	.156 (3,96)	.040 (1,02)	
24SW0004	SW 4 .122 (3,09)	.281 (7,14)	.040 (1,02)	.187 (4,75)	.040 (1,02)	
24SW0006	SW 6 .146 (3,71)	.328 (8,33)	.040 (1,02)	.218 (5,54)	.040 (1,02)	
24SW0008	SW 8 .174 (4,42)	.375 (9,53)	.050 (1,27)	.250 (6,35)	.050 (1,27)	
24SW0010	SW 10 .201 (5,11)	.437 (11,10)	.050 (1,27)	.281 (7,14)	.050 (1,27)	
24SW0250	SW1/4 .260 (6,60)	.562 (14,27)	.060 (1,52)	.375 (9,53)	.060 (1,52)	
24SW0375	SW3/8 .385 (9,78)	.750 (19,05)	.060 (1,52)	.500 (12,70)	.060 (1,52)	



Similar to our standard spacers, but with a specially configured ID designed to grip the screw shank. The spacer remains attached to the screw, for quick, easy assembly.



NYLON RETAINING SPACERS

ITEM NUMBER	A	B	D	L
13SPRT031	1/4 (6,35)	.115 (2,92)	.078 (1,98)	1/8 (3,18)
13SPRT032	1/4 (6,35)	.115 (2,92)	.078 (1,98)	3/16 (4,76)
13SPRT033	1/4 (6,35)	.115 (2,92)	.078 (1,98)	1/4 (6,35)
13SPRT034	1/4 (6,35)	.115 (2,92)	.078 (1,98)	5/16 (7,94)
13SPRT035	1/4 (6,35)	.115 (2,92)	.078 (1,98)	3/8 (9,53)
13SPRT036	1/4 (6,35)	.115 (2,92)	.078 (1,98)	7/16 (11,11)
13SPRT037	1/4 (6,35)	.115 (2,92)	.078 (1,98)	1/2 (12,70)
13SPRT038	1/4 (6,35)	.115 (2,92)	.078 (1,98)	9/16 (14,29)
13SPRT039	1/4 (6,35)	.115 (2,92)	.078 (1,98)	5/8 (15,88)
13SPRT040	1/4 (6,35)	.115 (2,92)	.078 (1,98)	11/16 (17,46)
13SPRT041	1/4 (6,35)	.115 (2,92)	.078 (1,98)	3/4 (19,05)
13SPRT042	1/4 (6,35)	.115 (2,92)	.078 (1,98)	13/16 (20,64)
13SPRT043	1/4 (6,35)	.115 (2,92)	.078 (1,98)	7/8 (22,23)
13SPRT044	1/4 (6,35)	.115 (2,92)	.078 (1,98)	15/16 (23,81)
13SPRT045	1/4 (6,35)	.115 (2,92)	.078 (1,98)	1 (25,40)
13SPRT046	1/4 (6,35)	.156 (3,96)	.102 (2,59)	1/8 (3,18)
13SPRT047	1/4 (6,35)	.156 (3,96)	.102 (2,59)	3/16 (4,76)
13SPRT048	1/4 (6,35)	.156 (3,96)	.102 (2,59)	1/4 (6,35)
13SPRT049	1/4 (6,35)	.156 (3,96)	.102 (2,59)	5/16 (7,94)
13SPRT050	1/4 (6,35)	.156 (3,96)	.102 (2,59)	3/8 (9,53)
13SPRT051	1/4 (6,35)	.156 (3,96)	.102 (2,59)	7/16 (11,11)
13SPRT052	1/4 (6,35)	.156 (3,96)	.102 (2,59)	1/2 (12,70)
13SPRT053	1/4 (6,35)	.156 (3,96)	.102 (2,59)	9/16 (14,29)
13SPRT054	1/4 (6,35)	.156 (3,96)	.102 (2,59)	5/8 (15,88)
13SPRT055	1/4 (6,35)	.156 (3,96)	.102 (2,59)	11/16 (17,46)
13SPRT056	1/4 (6,35)	.156 (3,96)	.102 (2,59)	3/4 (19,05)
13SPRT057	1/4 (6,35)	.156 (3,96)	.102 (2,59)	13/16 (20,64)
13SPRT058	1/4 (6,35)	.156 (3,96)	.102 (2,59)	7/8 (22,23)
13SPRT059	1/4 (6,35)	.156 (3,96)	.102 (2,59)	15/16 (23,81)
13SPRT060	1/4 (6,35)	.156 (3,96)	.102 (2,59)	1 (25,40)
13SPRT061	5/16 (7,94)	.198 (5,03)	.128 (3,25)	1/8 (3,18)
13SPRT062	5/16 (7,94)	.198 (5,03)	.128 (3,25)	3/16 (4,76)
13SPRT063	5/16 (7,94)	.198 (5,03)	.128 (3,25)	1/4 (6,35)
13SPRT064	5/16 (7,94)	.198 (5,03)	.128 (3,25)	5/16 (7,94)
13SPRT065	5/16 (7,94)	.198 (5,03)	.128 (3,25)	3/8 (9,53)
13SPRT066	5/16 (7,94)	.198 (5,03)	.128 (3,25)	7/16 (11,11)
13SPRT067	5/16 (7,94)	.198 (5,03)	.128 (3,25)	1/2 (12,70)

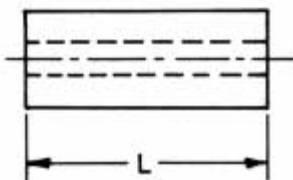
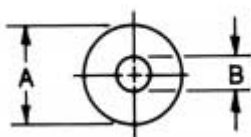
ITEM NUMBER	A	B	D	L
13SPRT068	5/16 (7,94)	.198 (5,03)	.128 (3,25)	9/16 (14,29)
13SPRT069	5/16 (7,94)	.198 (5,03)	.128 (3,25)	5/8 (15,88)
13SPRT070	5/16 (7,94)	.198 (5,03)	.128 (3,25)	11/16 (17,46)
13SPRT071	5/16 (7,94)	.198 (5,03)	.128 (3,25)	3/4 (19,05)
13SPRT072	5/16 (7,94)	.198 (5,03)	.128 (3,25)	13/16 (20,64)
13SPRT073	5/16 (7,94)	.198 (5,03)	.128 (3,25)	7/8 (22,23)
13SPRT074	5/16 (7,94)	.198 (5,03)	.128 (3,25)	15/16 (23,81)
13SPRT075	5/16 (7,94)	.198 (5,03)	.128 (3,25)	1 (25,40)
13SPRT076	3/8 (9,53)	.240 (6,10)	.152 (3,86)	1/8 (3,18)
13SPRT077	3/8 (9,53)	.240 (6,10)	.152 (3,86)	3/16 (4,76)
13SPRT078	3/8 (9,53)	.240 (6,10)	.152 (3,86)	1/4 (6,35)
13SPRT079	3/8 (9,53)	.240 (6,10)	.152 (3,86)	5/16 (7,94)
13SPRT080	3/8 (9,53)	.240 (6,10)	.152 (3,86)	3/8 (9,53)
13SPRT081	3/8 (9,53)	.240 (6,10)	.152 (3,86)	7/16 (11,11)
13SPRT082	3/8 (9,53)	.240 (6,10)	.152 (3,86)	1/2 (12,70)
13SPRT083	3/8 (9,53)	.240 (6,10)	.152 (3,86)	9/16 (14,29)
13SPRT084	3/8 (9,53)	.240 (6,10)	.152 (3,86)	5/8 (15,88)
13SPRT085	3/8 (9,53)	.240 (6,10)	.152 (3,86)	11/16 (17,46)
13SPRT086	3/8 (9,53)	.240 (6,10)	.152 (3,86)	3/4 (19,05)
13SPRT087	3/8 (9,53)	.240 (6,10)	.152 (3,86)	13/16 (20,64)
13SPRT088	3/8 (9,53)	.240 (6,10)	.152 (3,86)	7/8 (22,23)
13SPRT089	3/8 (9,53)	.240 (6,10)	.152 (3,86)	15/16 (23,81)
13SPRT090	3/8 (9,53)	.240 (6,10)	.152 (3,86)	1 (25,40)
13SPRT091	1/2 (12,70)	.277 (7,04)	.177 (4,50)	1/8 (3,18)
13SPRT092	1/2 (12,70)	.277 (7,04)	.177 (4,50)	3/16 (4,76)
13SPRT093	1/2 (12,70)	.277 (7,04)	.177 (4,50)	1/4 (6,35)
13SPRT094	1/2 (12,70)	.277 (7,04)	.177 (4,50)	5/16 (7,94)
13SPRT095	1/2 (12,70)	.277 (7,04)	.177 (4,50)	3/8 (9,53)
13SPRT096	1/2 (12,70)	.277 (7,04)	.177 (4,50)	7/16 (11,11)
13SPRT097	1/2 (12,70)	.277 (7,04)	.177 (4,50)	1/2 (12,70)
13SPRT098	1/2 (12,70)	.277 (7,04)	.177 (4,50)	9/16 (14,29)
13SPRT099	1/2 (12,70)	.277 (7,04)	.177 (4,50)	5/8 (15,88)
13SPRT100	1/2 (12,70)	.277 (7,04)	.177 (4,50)	11/16 (17,46)
13SPRT101	1/2 (12,70)	.277 (7,04)	.177 (4,50)	3/4 (19,05)
13SPRT102	1/2 (12,70)	.277 (7,04)	.177 (4,50)	13/16 (20,64)
13SPRT103	1/2 (12,70)	.277 (7,04)	.177 (4,50)	7/8 (22,23)
13SPRT104	1/2 (12,70)	.277 (7,04)	.177 (4,50)	15/16 (23,81)
13SPRT105	1/2 (12,70)	.277 (7,04)	.177 (4,50)	1 (25,40)
13SPRT106	1/2 (12,70)	.375 (9,53)	.234 (5,94)	1/8 (3,18)
13SPRT107	1/2 (12,70)	.375 (9,53)	.234 (5,94)	3/16 (4,76)
13SPRT108	1/2 (12,70)	.375 (9,53)	.234 (5,94)	1/4 (6,35)
13SPRT109	1/2 (12,70)	.375 (9,53)	.234 (5,94)	5/16 (7,94)
13SPRT110	1/2 (12,70)	.375 (9,53)	.234 (5,94)	3/8 (9,53)
13SPRT111	1/2 (12,70)	.375 (9,53)	.234 (5,94)	7/16 (11,11)
13SPRT112	1/2 (12,70)	.375 (9,53)	.234 (5,94)	1/2 (12,70)
13SPRT113	1/2 (12,70)	.375 (9,53)	.234 (5,94)	9/16 (14,29)
13SPRT114	1/2 (12,70)	.375 (9,53)	.234 (5,94)	5/8 (15,88)
13SPRT115	1/2 (12,70)	.375 (9,53)	.234 (5,94)	11/16 (17,46)
13SPRT116	1/2 (12,70)	.375 (9,53)	.234 (5,94)	3/4 (19,05)
13SPRT117	1/2 (12,70)	.375 (9,53)	.234 (5,94)	13/16 (20,64)
13SPRT118	1/2 (12,70)	.375 (9,53)	.234 (5,94)	7/8 (22,23)
13SPRT119	1/2 (12,70)	.375 (9,53)	.234 (5,94)	15/16 (23,81)
13SPRT120	1/2 (12,70)	.375 (9,53)	.234 (5,94)	1 (25,40)

SPACERS

SECTION

V

ALL STANDARD NYLON SPACERS CAN BE TAPPED TWO THREAD SIZES LARGER THAN THE SCREW SIZE LISTED. FOR EXAMPLE:



STANDARD NYLON SPACERS

ITEM NUMBER	DESCRIPTION	A	B	L	SCREW
13SP000	SP 0	1/8 (3,18)	.063 (1,60)	3/16 (4,76)	1
13SP001	SP 1	3/16 (4,76)	.091 (2,31)	1/8 (3,18)	2
13SP002	SP 2	3/16 (4,76)	.115 (2,92)	1/8 (3,18)	4
13SP003	SP 3	3/16 (4,76)	.091 (2,31)	3/16 (4,76)	2
13SP004	SP 4	3/16 (4,76)	.115 (2,92)	3/16 (4,76)	4
13SP005	SP 5	3/16 (4,76)	.091 (2,31)	1/4 (6,35)	2
13SP006	SP 6	3/16 (4,76)	.115 (2,92)	1/4 (6,35)	4
13SP007	SP 7	3/16 (4,76)	.091 (2,31)	5/16 (7,94)	2
13SP008	SP 8	3/16 (4,76)	.115 (2,92)	5/16 (7,94)	4
13SP009	SP 9	3/16 (4,76)	.091 (2,31)	3/8 (9,53)	2
13SP010	SP 10	3/16 (4,76)	.115 (2,92)	3/8 (9,53)	4
13SP011	SP 11	3/16 (4,76)	.091 (2,31)	7/16(11,11)	2
13SP012	SP 12	3/16 (4,76)	.115 (2,92)	7/16(11,11)	4
13SP013	SP 13	3/16 (4,76)	.091 (2,31)	1/2(12,70)	2
13SP014	SP 14	3/16 (4,76)	.115 (2,92)	1/2(12,70)	4
13SP015	SP 15	3/16 (4,76)	.091 (2,31)	9/16(14,29)	2
13SP016	SP 16	3/16 (4,76)	.115 (2,92)	9/16(14,29)	4
13SP017	SP 17	3/16 (4,76)	.091 (2,31)	5/8(15,88)	2
13SP018	SP 18	3/16 (4,76)	.115 (2,92)	5/8(15,88)	4
13SP019	SP 19	3/16 (4,76)	.091 (2,31)	11/16(17,46)	2
13SP020	SP 20	3/16 (4,76)	.115 (2,92)	11/16(17,46)	4
13SP021	SP 21	3/16 (4,76)	.091 (2,31)	3/4(19,05)	2
13SP022	SP 22	3/16 (4,76)	.115 (2,92)	3/4(19,05)	4
13SP023	SP 23	3/16 (4,76)	.091 (2,31)	13/16(20,64)	2
13SP024	SP 24	3/16 (4,76)	.115 (2,92)	13/16(20,64)	4
13SP025	SP 25	3/16 (4,76)	.091 (2,31)	7/8(22,22)	2
13SP026	SP 26	3/16 (4,76)	.115 (2,92)	7/8(22,22)	4
13SP027	SP 27	3/16 (4,76)	.091 (2,31)	15/16(23,81)	2
13SP028	SP 28	3/16 (4,76)	.115 (2,92)	15/16(23,81)	4
13SP029	SP 29	3/16 (4,76)	.091 (2,31)	1(25,40)	2
13SP030	SP 30	3/16 (4,76)	.115 (2,92)	1(25,40)	4
13SP031	SP 31	1/4 (6,35)	.091 (2,31)	1/8 (3,18)	2
13SP032	SP 32	1/4 (6,35)	.115 (2,92)	1/8 (3,18)	4

ITEM NUMBER	DESCRIPTION	A	B	L	SCREW
13SP033	SP 33	1/4 (6,35)	.140 (3,56)	1/8 (3,18)	6
13SP034	SP 34	1/4 (6,35)	.171 (4,34)	1/8 (3,18)	8
13SP035	SP 35	1/4 (6,35)	.091 (2,31)	3/16 (4,76)	2
13SP036	SP 36	1/4 (6,35)	.115 (2,92)	3/16 (4,76)	4
13SP037	SP 37	1/4 (6,35)	.140 (3,56)	3/16 (4,76)	6
13SP038	SP 38	1/4 (6,35)	.171 (4,34)	3/16 (4,76)	8
13SP039	SP 39	1/4 (6,35)	.091 (2,31)	1/4 (6,35)	2
13SP040	SP 40	1/4 (6,35)	.115 (2,92)	1/4 (6,35)	4
13SP041	SP 41	1/4 (6,35)	.140 (3,56)	1/4 (6,35)	6
13SP042	SP 42	1/4 (6,35)	.171 (4,34)	1/4 (6,35)	8
13SP043	SP 43	1/4 (6,35)	.091 (2,31)	5/16 (7,94)	2
13SP044	SP 44	1/4 (6,35)	.115 (2,92)	5/16 (7,94)	4
13SP045	SP 45	1/4 (6,35)	.140 (3,56)	5/16 (7,94)	6
13SP046	SP 46	1/4 (6,35)	.171 (4,34)	5/16 (7,94)	8
13SP047	SP 47	1/4 (6,35)	.091 (2,31)	3/8 (9,53)	2
13SP048	SP 48	1/4 (6,35)	.115 (2,92)	3/8 (9,53)	4
13SP049	SP 49	1/4 (6,35)	.140 (3,56)	3/8 (9,53)	6
13SP050	SP 50	1/4 (6,35)	.171 (4,34)	3/8 (9,53)	8
13SP051	SP 51	1/4 (6,35)	.091 (2,31)	7/16 (11,11)	2
13SP052	SP 52	1/4 (6,35)	.115 (2,92)	7/16 (11,11)	4
13SP053	SP 53	1/4 (6,35)	.140 (3,56)	7/16 (11,11)	6
13SP054	SP 54	1/4 (6,35)	.171 (4,34)	7/16 (11,11)	8
13SP055	SP 55	1/4 (6,35)	.091 (2,31)	1/2 (12,70)	2
13SP056	SP 56	1/4 (6,35)	.115 (2,92)	1/2 (12,70)	4
13SP057	SP 57	1/4 (6,35)	.140 (3,56)	1/2 (12,70)	6
13SP058	SP 58	1/4 (6,35)	.171 (4,34)	1/2 (12,70)	8
13SP059	SP 59	1/4 (6,35)	.091 (2,31)	9/16 (14,29)	2
13SP060	SP 60	1/4 (6,35)	.115 (2,92)	9/16 (14,29)	4
13SP061	SP 61	1/4 (6,35)	.140 (3,56)	9/16 (14,29)	6
13SP062	SP 62	1/4 (6,35)	.171 (4,34)	9/16 (14,29)	8
13SP063	SP 63	1/4 (6,35)	.091 (2,31)	5/8 (15,88)	2
13SP064	SP 64	1/4 (6,35)	.115 (2,92)	5/8 (15,88)	4
13SP065	SP 65	1/4 (6,35)	.140 (3,56)	5/8 (15,88)	6
13SP066	SP 66	1/4 (6,35)	.171 (4,34)	5/8 (15,88)	8
13SP067	SP 67	1/4 (6,35)	.091 (2,31)	11/16 (17,46)	2
13SP068	SP 68	1/4 (6,35)	.115 (2,92)	11/16 (17,46)	4
13SP069	SP 69	1/4 (6,35)	.140 (3,56)	11/16 (17,46)	6
13SP070	SP 70	1/4 (6,35)	.171 (4,34)	11/16 (17,46)	8
13SP071	SP 71	1/4 (6,35)	.091 (2,31)	3/4 (19,05)	2
13SP072	SP 72	1/4 (6,35)	.115 (2,92)	3/4 (19,05)	4
13SP073	SP 73	1/4 (6,35)	.140 (3,56)	3/4 (19,05)	6
13SP074	SP 74	1/4 (6,35)	.171 (4,34)	3/4 (19,05)	8
13SP075	SP 75	1/4 (6,35)	.091 (2,31)	13/16 (20,64)	2
13SP076	SP 76	1/4 (6,35)	.115 (2,92)	13/16 (20,64)	4
13SP077	SP 77	1/4 (6,35)	.140 (3,56)	13/16 (20,64)	6
13SP078	SP 78	1/4 (6,35)	.171 (4,34)	13/16 (20,64)	8
13SP079	SP 79	1/4 (6,35)	.091 (2,31)	7/8 (22,22)	2
13SP080	SP 80	1/4 (6,35)	.115 (2,92)	7/8 (22,22)	4
13SP081	SP 81	1/4 (6,35)	.140 (3,56)	7/8 (22,22)	6
13SP082	SP 82	1/4 (6,35)	.171 (4,34)	7/8 (22,22)	8
13SP083	SP 83	1/4 (6,35)	.091 (2,31)	15/16 (23,81)	2
13SP084	SP 84	1/4 (6,35)	.115 (2,92)	15/16 (23,81)	4
13SP085	SP 85	1/4 (6,35)	.140 (3,56)	15/16 (23,81)	6
13SP086	SP 86	1/4 (6,35)	.171 (4,34)	15/16 (23,81)	8
13SP087	SP 87	1/4 (6,35)	.091 (2,31)	1 (25,40)	2
13SP088	SP 88	1/4 (6,35)	.115 (2,92)	1 (25,40)	4

SPACERS

SECTION
V

STANDARD NYLON SPACERS

ITEM NUMBER	DESCRIPTION	A	B	L	SCREW
13SP089	SP 89	1/4 (6,35)	.140 (3,56)	1 (25,40)	6
13SP090	SP 90	1/4 (6,35)	.171 (4,34)	1 (25,40)	8
13SP091	SP 91	5/16 (7,94)	.115 (2,92)	1/8 (3,18)	4
13SP092	SP 92	5/16 (7,94)	.140 (3,56)	1/8 (3,18)	6
13SP093	SP 93	5/16 (7,94)	.171 (4,34)	1/8 (3,18)	8
13SP094	SP 94	5/16 (7,94)	.194 (4,93)	1/8 (3,18)	10
13SP095	SP 95	5/16 (7,94)	.115 (2,92)	3/16 (4,76)	4
13SP096	SP 96	5/16 (7,94)	.140 (3,56)	3/16 (4,76)	6
13SP097	SP 97	5/16 (7,94)	.171 (4,34)	3/16 (4,76)	8
13SP098	SP 98	5/16 (7,94)	.194 (4,93)	3/16 (4,76)	10
13SP099	SP 99	5/16 (7,94)	.115 (2,92)	1/4 (6,35)	4
13SP100	SP100	5/16 (7,94)	.140 (3,56)	1/4 (6,35)	6
13SP101	SP101	5/16 (7,94)	.171 (4,34)	1/4 (6,35)	8
13SP102	SP102	5/16 (7,94)	.194 (4,93)	1/4 (6,35)	10
13SP103	SP103	5/16 (7,94)	.115 (2,92)	5/16 (7,94)	4
13SP104	SP104	5/16 (7,94)	.140 (3,56)	5/16 (7,94)	6
13SP105	SP105	5/16 (7,94)	.171 (4,34)	5/16 (7,94)	8
13SP106	SP106	5/16 (7,94)	.194 (4,93)	5/16 (7,94)	10
13SP107	SP107	5/16 (7,94)	.115 (2,92)	3/8 (9,53)	4
13SP108	SP108	5/16 (7,94)	.140 (3,56)	3/8 (9,53)	6
13SP109	SP109	5/16 (7,94)	.171 (4,34)	3/8 (9,53)	8
13SP110	SP110	5/16 (7,94)	.194 (4,93)	3/8 (9,53)	10
13SP111	SP111	5/16 (7,94)	.115 (2,92)	7/16 (11,11)	4
13SP112	SP112	5/16 (7,94)	.140 (3,56)	7/16 (11,11)	6
13SP113	SP113	5/16 (7,94)	.171 (4,34)	7/16 (11,11)	8
13SP114	SP114	5/16 (7,94)	.194 (4,93)	7/16 (11,11)	10
13SP115	SP115	5/16 (7,94)	.115 (2,92)	1/2 (12,70)	4
13SP116	SP116	5/16 (7,94)	.140 (3,56)	1/2 (12,70)	6
13SP117	SP117	5/16 (7,94)	.171 (4,34)	1/2 (12,70)	8
13SP118	SP118	5/16 (7,94)	.194 (4,93)	1/2 (12,70)	10
13SP119	SP119	5/16 (7,94)	.115 (2,92)	9/16 (14,29)	4
13SP120	SP120	5/16 (7,94)	.140 (3,56)	9/16 (14,29)	6
13SP121	SP121	5/16 (7,94)	.171 (4,34)	9/16 (14,29)	8
13SP122	SP122	5/16 (7,94)	.194 (4,93)	9/16 (14,29)	10
13SP123	SP123	5/16 (7,94)	.115 (2,92)	5/8 (15,88)	4
13SP124	SP124	5/16 (7,94)	.140 (3,56)	5/8 (15,88)	6
13SP125	SP125	5/16 (7,94)	.171 (4,34)	5/8 (15,88)	8
13SP126	SP126	5/16 (7,94)	.194 (4,93)	5/8 (15,88)	10
13SP127	SP127	5/16 (7,94)	.115 (2,92)	11/16 (17,46)	4
13SP128	SP128	5/16 (7,94)	.140 (3,56)	11/16 (17,46)	6
13SP129	SP129	5/16 (7,94)	.171 (4,34)	11/16 (17,46)	8
13SP130	SP130	5/16 (7,94)	.194 (4,93)	11/16 (17,46)	10
13SP131	SP131	5/16 (7,94)	.115 (2,92)	3/4 (19,05)	4
13SP132	SP132	5/16 (7,94)	.140 (3,56)	3/4 (19,05)	6
13SP133	SP133	5/16 (7,94)	.171 (4,34)	3/4 (19,05)	8
13SP134	SP134	5/16 (7,94)	.194 (4,93)	3/4 (19,05)	10
13SP135	SP135	5/16 (7,94)	.115 (2,92)	13/16 (20,63)	4
13SP136	SP136	5/16 (7,94)	.140 (3,56)	13/16 (20,63)	6
13SP137	SP137	5/16 (7,94)	.171 (4,34)	13/16 (20,63)	8
13SP138	SP138	5/16 (7,94)	.194 (4,93)	13/16 (20,63)	10
13SP139	SP139	5/16 (7,94)	.115 (2,92)	7/8 (22,22)	4
13SP140	SP140	5/16 (7,94)	.140 (3,56)	7/8 (22,22)	6
13SP141	SP141	5/16 (7,94)	.171 (4,34)	7/8 (22,22)	8
13SP142	SP142	5/16 (7,94)	.194 (4,93)	7/8 (22,22)	10
13SP143	SP143	5/16 (7,94)	.115 (2,92)	15/16 (23,81)	4
13SP144	SP144	5/16 (7,94)	.140 (3,56)	15/16 (23,81)	6

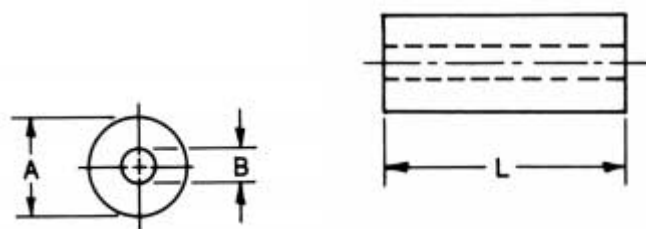
ITEM NUMBER	DESCRIPTION	A	B	L	SCREW
13SP145	SP145	5/16 (7,94)	.171 (4,34)	15/16 (23,81)	8
13SP146	SP146	5/16 (7,94)	.194 (4,93)	15/16 (23,81)	10
13SP147	SP147	5/16 (7,94)	.115 (2,92)	1 (25,40)	4
13SP148	SP148	5/16 (7,94)	.140 (3,56)	1 (25,40)	6
13SP149	SP149	5/16 (7,94)	.171 (4,34)	1 (25,40)	8
13SP150	SP150	5/16 (7,94)	.194 (4,93)	1 (25,40)	10
13SP158	SP158	3/8 (9,53)	.140 (3,56)	1/8 (3,18)	6
13SP159	SP159	3/8 (9,53)	.171 (4,34)	1/8 (3,18)	8
13SP160	SP160	3/8 (9,53)	.194 (4,93)	1/8 (3,18)	10
13SP161	SP161	3/8 (9,53)	.140 (3,56)	3/16 (4,76)	6
13SP162	SP162	3/8 (9,53)	.171 (4,34)	3/16 (4,76)	8
13SP163	SP163	3/8 (9,53)	.194 (4,93)	3/16 (4,76)	10
13SP164	SP164	3/8 (9,53)	.140 (3,56)	1/4 (6,35)	6
13SP165	SP165	3/8 (9,53)	.171 (4,34)	1/4 (6,35)	8
13SP166	SP166	3/8 (9,53)	.194 (4,93)	1/4 (6,35)	10
13SP167	SP167	3/8 (9,53)	.140 (3,56)	5/16 (7,94)	6
13SP168	SP168	3/8 (9,53)	.171 (4,34)	5/16 (7,94)	8
13SP169	SP169	3/8 (9,53)	.194 (4,93)	5/16 (7,94)	10
13SP170	SP170	3/8 (9,53)	.140 (3,56)	3/8 (9,53)	6
13SP171	SP171	3/8 (9,53)	.171 (4,34)	3/8 (9,53)	8
13SP172	SP172	3/8 (9,53)	.194 (4,93)	3/8 (9,53)	10
13SP173	SP173	3/8 (9,53)	.140 (3,56)	7/16 (11,11)	6
13SP174	SP174	3/8 (9,53)	.171 (4,34)	7/16 (11,11)	8
13SP175	SP175	3/8 (9,53)	.194 (4,93)	7/16 (11,11)	10
13SP176	SP176	3/8 (9,53)	.140 (3,56)	1/2 (12,70)	6
13SP177	SP177	3/8 (9,53)	.171 (4,34)	1/2 (12,70)	8
13SP178	SP178	3/8 (9,53)	.194 (4,93)	1/2 (12,70)	10
13SP179	SP179	3/8 (9,53)	.140 (3,56)	9/16 (14,29)	6
13SP180	SP180	3/8 (9,53)	.171 (4,34)	9/16 (14,29)	8
13SP181	SP181	3/8 (9,53)	.194 (4,93)	9/16 (14,29)	10
13SP182	SP182	3/8 (9,53)	.140 (3,56)	5/8 (15,88)	6
13SP183	SP183	3/8 (9,53)	.171 (4,34)	5/8 (15,88)	8
13SP184	SP184	3/8 (9,53)	.194 (4,93)	5/8 (15,88)	10
13SP185	SP185	3/8 (9,53)	.140 (3,56)	11/16 (17,46)	6
13SP186	SP186	3/8 (9,53)	.171 (4,34)	11/16 (17,46)	8
13SP187	SP187	3/8 (9,53)	.194 (4,93)	11/16 (17,46)	10
13SP188	SP188	3/8 (9,53)	.140 (3,56)	3/4 (19,05)	6
13SP189	SP189	3/8 (9,53)	.171 (4,34)	3/4 (19,05)	8
13SP190	SP190	3/8 (9,53)	.194 (4,93)	3/4 (19,05)	10
13SP191	SP191	3/8 (9,53)	.140 (3,56)	13/16 (20,64)	6
13SP192	SP192	3/8 (9,53)	.171 (4,34)	13/16 (20,64)	8
13SP193	SP193	3/8 (9,53)	.194 (4,93)	13/16 (20,64)	10
13SP194	SP194	3/8 (9,53)	.140 (3,56)	7/8 (22,22)	6
13SP195	SP195	3/8 (9,53)	.171 (4,34)	7/8 (22,22)	8
13SP196	SP196	3/8 (9,53)	.194 (4,93)	7/8 (22,22)	10
13SP197	SP197	3/8 (9,53)	.140 (3,56)	15/16 (23,81)	6
13SP198	SP198	3/8 (9,53)	.171 (4,34)	15/16 (23,81)	8
13SP199	SP199	3/8 (9,53)	.194 (4,93)	15/16 (23,81)	10
13SP200	SP200	3/8 (9,53)	.140 (3,56)	1 (25,40)	6

SPACERS

SECTION V

ALL STANDARD NYLON SPACERS CAN BE TAPPED TWO THREAD SIZES LARGER THAN THE SCREW SIZE LISTED.

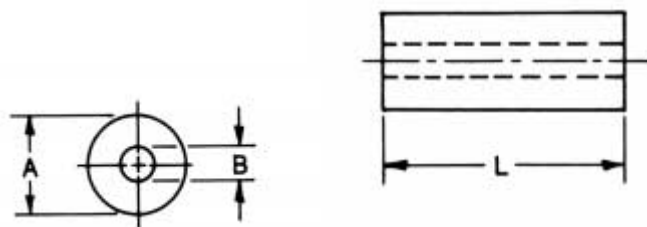
FOR EXAMPLE: 13SP023 WITH A SCREW SIZE OF 2 CAN BE TAPPED 440 THREAD.



STANDARD NYLON SPACERS

ITEM NUMBER	DESCRIPTION	A	B	L	SCREW
13SP201	SP201	3/8 (9,53)	.171 (4,34)	1 (25,40)	8
13SP202	SP202	3/8 (9,53)	.194 (4,93)	1 (25,40)	10
13SP203	SP203	1/2 (12,70)	.140 (3,56)	1/8 (3,18)	6
13SP204	SP204	1/2 (12,70)	.171 (4,34)	1/8 (3,18)	8
13SP205	SP205	1/2 (12,70)	.194 (4,93)	1/8 (3,18)	10
13SP206	SP206	1/2 (12,70)	.219 (5,56)	1/8 (3,18)	12
13SP207	SP207	1/2 (12,70)	.260 (6,60)	1/8 (3,18)	1/4
13SP208	SP208	1/2 (12,70)	.140 (3,56)	3/16 (4,76)	6
13SP209	SP209	1/2 (12,70)	.171 (4,34)	3/16 (4,76)	8
13SP210	SP210	1/2 (12,70)	.194 (4,93)	3/16 (4,76)	10
13SP211	SP211	1/2 (12,70)	.219 (5,56)	3/16 (4,76)	12
13SP212	SP212	1/2 (12,70)	.260 (6,60)	3/16 (4,76)	1/4
13SP213	SP213	1/2 (12,70)	.140 (3,56)	1/4 (6,35)	6
13SP214	SP214	1/2 (12,70)	.171 (4,34)	1/4 (6,35)	8
13SP215	SP215	1/2 (12,70)	.194 (4,93)	1/4 (6,35)	10
13SP216	SP216	1/2 (12,70)	.219 (5,56)	1/4 (6,35)	12
13SP217	SP217	1/2 (12,70)	.260 (6,60)	1/4 (6,35)	1/4
13SP218	SP218	1/2 (12,70)	.140 (3,56)	5/16 (7,94)	6
13SP219	SP219	1/2 (12,70)	.171 (4,34)	5/16 (7,94)	8
13SP220	SP220	1/2 (12,70)	.194 (4,93)	5/16 (7,94)	10
13SP221	SP221	1/2 (12,70)	.219 (5,56)	5/16 (7,94)	12
13SP222	SP222	1/2 (12,70)	.257 (6,53)	5/16 (7,94)	1/4
13SP223	SP223	1/2 (12,70)	.140 (3,56)	3/8 (9,53)	6
13SP224	SP224	1/2 (12,70)	.171 (4,34)	3/8 (9,53)	8
13SP225	SP225	1/2 (12,70)	.194 (4,93)	3/8 (9,53)	10
13SP226	SP226	1/2 (12,70)	.219 (5,56)	3/8 (9,53)	12
13SP227	SP227	1/2 (12,70)	.257 (6,53)	3/8 (9,53)	1/4
13SP228	SP228	1/2 (12,70)	.140 (3,56)	7/16 (11,11)	6
13SP229	SP229	1/2 (12,70)	.171 (4,34)	7/16 (11,11)	8
13SP230	SP230	1/2 (12,70)	.194 (4,93)	7/16 (11,11)	10
13SP231	SP231	1/2 (12,70)	.219 (5,56)	7/16 (11,11)	12
13SP232	SP232	1/2 (12,70)	.257 (6,53)	7/16 (11,11)	1/4
13SP233	SP233	1/2 (12,70)	.140 (3,56)	1/2 (12,70)	6

ITEM NUMBER	DESCRIPTION	A	B	L	SCREW
13SP234	SP234	1/2 (12,70)	.171 (4,34)	1/2 (12,70)	8
13SP235	SP235	1/2 (12,70)	.194 (4,93)	1/2 (12,70)	10
13SP236	SP236	1/2 (12,70)	.219 (5,56)	1/2 (12,70)	12
13SP237	SP237	1/2 (12,70)	.257 (6,53)	1/2 (12,70)	1/4
13SP238	SP238	1/2 (12,70)	.140 (3,56)	9/16 (14,29)	6
13SP239	SP239	1/2 (12,70)	.171 (4,34)	9/16 (14,29)	8
13SP240	SP240	1/2 (12,70)	.194 (4,93)	9/16 (14,29)	10
13SP241	SP241	1/2 (12,70)	.219 (5,56)	9/16 (14,29)	12
13SP242	SP242	1/2 (12,70)	.257 (6,53)	9/16 (14,29)	1/4
13SP243	SP243	1/2 (12,70)	.140 (3,56)	5/8 (15,88)	6
13SP244	SP244	1/2 (12,70)	.171 (4,34)	5/8 (15,88)	8
13SP245	SP245	1/2 (12,70)	.194 (4,93)	5/8 (15,88)	10
13SP246	SP246	1/2 (12,70)	.219 (5,56)	5/8 (15,88)	12
13SP247	SP247	1/2 (12,70)	.257 (6,53)	5/8 (15,88)	1/4
13SP248	SP248	1/2 (12,70)	.140 (3,56)	11/16 (17,46)	6
13SP249	SP249	1/2 (12,70)	.171 (4,34)	11/16 (17,46)	8
13SP250	SP250	1/2 (12,70)	.194 (4,93)	11/16 (17,46)	10
13SP251	SP251	1/2 (12,70)	.219 (5,56)	11/16 (17,46)	12
13SP252	SP252	1/2 (12,70)	.257 (6,53)	11/16 (17,46)	1/4
13SP253	SP253	1/2 (12,70)	.140 (3,56)	3/4 (19,05)	6
13SP254	SP254	1/2 (12,70)	.171 (4,34)	3/4 (19,05)	8
13SP255	SP255	1/2 (12,70)	.194 (4,93)	3/4 (19,05)	10
13SP256	SP256	1/2 (12,70)	.219 (5,56)	3/4 (19,05)	12
13SP257	SP257	1/2 (12,70)	.260 (6,60)	3/4 (19,05)	1/4
13SP258	SP258	1/2 (12,70)	.140 (3,56)	13/16 (20,64)	6
13SP259	SP259	1/2 (12,70)	.171 (4,34)	13/16 (20,64)	8
13SP260	SP260	1/2 (12,70)	.194 (4,93)	13/16 (20,64)	10
13SP261	SP261	1/2 (12,70)	.219 (5,56)	13/16 (20,64)	12
13SP262	SP262	1/2 (12,70)	.260 (6,60)	13/16 (20,64)	1/4
13SP263	SP263	1/2 (12,70)	.140 (3,56)	7/8 (22,22)	6
13SP264	SP264	1/2 (12,70)	.171 (4,34)	7/8 (22,22)	8
13SP265	SP265	1/2 (12,70)	.194 (4,93)	7/8 (22,22)	10
13SP266	SP266	1/2 (12,70)	.219 (5,56)	7/8 (22,22)	12
13SP267	SP267	1/2 (12,70)	.260 (6,60)	7/8 (22,22)	1/4
13SP268	SP268	1/2 (12,70)	.140 (3,56)	15/16 (23,81)	6
13SP269	SP269	1/2 (12,70)	.171 (4,34)	15/16 (23,81)	8
13SP270	SP270	1/2 (12,70)	.194 (4,93)	15/16 (23,81)	10
13SP271	SP271	1/2 (12,70)	.219 (5,56)	15/16 (23,81)	12
13SP272	SP272	1/2 (12,70)	.257 (6,53)	15/16 (23,81)	1/4
13SP273	SP273	1/2 (12,70)	.140 (3,56)	1 (25,40)	6
13SP274	SP274	1/2 (12,70)	.171 (4,34)	1 (25,40)	8
13SP275	SP275	1/2 (12,70)	.194 (4,93)	1 (25,40)	10
13SP276	SP276	1/2 (12,70)	.219 (5,56)	1 (25,40)	12
13SP277	SP277	1/2 (12,70)	.257 (6,53)	1 (25,40)	1/4



STANDARD LONG NYLON SPACERS

ITEM NUMBER	DESCRIPTION	A	B	L
13SP300	SP 300	1/4 (6,35)	.115 (2,92)	1 -1/16 (27,00)
13SP301	SP 301	1/4 (6,35)	.140 (3,56)	1 -1/16 (27,00)
13SP304	SP 304	1/4 (6,35)	.115 (2,92)	1-1/8 (28,58)
13SP305	SP 305	1/4 (6,35)	.140 (3,56)	1-1/8 (28,58)
13SP308	SP 308	1/4 (6,35)	.115 (2,92)	1-3/16 (30,18)
13SP309	SP 309	1/4 (6,35)	.140 (3,56)	1-3/16 (30,18)
13SP312	SP 312	1/4 (6,35)	.115 (2,92)	1-1/4 (31,75)
13SP313	SP 313	1/4 (6,35)	.140 (3,56)	1-1/4 (31,75)
13SP316	SP 316	1/4 (6,35)	.115 (2,92)	1-5/16 (33,35)
13SP317	SP 317	1/4 (6,35)	.140 (3,56)	1-5/16 (33,35)
13SP320	SP 320	1/4 (6,35)	.115 (2,92)	1-3/8 (34,93)
13SP321	SP 321	1/4 (6,35)	.140 (3,56)	1-3/8 (34,93)
13SP324	SP 324	1/4 (6,35)	.115 (2,92)	1-7/16 (36,53)
13SP325	SP 325	1/4 (6,35)	.140 (3,56)	1-7/16 (36,53)
13SP328	SP 328	1/4 (6,35)	.115 (2,92)	1-1/2 (38,10)
13SP329	SP 329	1/4 (6,35)	.140 (3,56)	1-1/2 (38,10)
13SP335	SP 335	5/16 (7,94)	.115 (2,92)	1-1/16 (27,00)
13SP336	SP 336	5/16 (7,94)	.140 (3,56)	1-1/16 (27,00)
13SP337	SP 337	5/16 (7,94)	.171 (4,34)	1-1/16 (27,00)
13SP338	SP 338	5/16 (7,94)	.194 (4,93)	1-1/16 (27,00)
13SP339	SP 339	5/16 (7,94)	.115 (2,92)	1-1/8 (28,58)
13SP340	SP 340	5/16 (7,94)	.140 (3,56)	1-1/8 (28,58)
13SP341	SP 341	5/16 (7,94)	.171 (4,34)	1-1/8 (28,58)
13SP342	SP 342	5/16 (7,94)	.194 (4,93)	1-1/8 (28,58)
13SP343	SP 343	5/16 (7,94)	.115 (2,92)	1-3/16 (30,18)
13SP344	SP 344	5/16 (7,94)	.140 (3,56)	1-3/16 (30,18)
13SP345	SP 345	5/16 (7,94)	.171 (4,34)	1-3/16 (30,18)
13SP346	SP 346	5/16 (7,94)	.194 (4,93)	1-3/16 (30,18)
13SP347	SP 347	5/16 (7,94)	.115 (2,92)	1-1/4 (31,75)
13SP348	SP 348	5/16 (7,94)	.140 (3,56)	1-1/4 (31,75)
13SP349	SP 349	5/16 (7,94)	.171 (4,34)	1-1/4 (31,75)
13SP350	SP 350	5/16 (7,94)	.194 (4,93)	1-1/4 (31,75)
13SP351	SP 351	5/16 (7,94)	.115 (2,92)	1-5/16 (33,35)
13SP352	SP 352	5/16 (7,94)	.140 (3,56)	1-5/16 (33,35)
13SP353	SP 353	5/16 (7,94)	.171 (4,34)	1-5/16 (33,35)
13SP354	SP 354	5/16 (7,94)	.194 (4,93)	1-5/16 (33,35)
13SP355	SP 355	5/16 (7,94)	.115 (2,92)	1-3/8 (34,93)
13SP356	SP 356	5/16 (7,94)	.140 (3,56)	1-3/8 (34,93)
13SP357	SP 357	5/16 (7,94)	.171 (4,34)	1-3/8 (34,93)
13SP358	SP 358	5/16 (7,94)	.194 (4,93)	1-3/8 (34,93)
13SP359	SP 359	5/16 (7,94)	.115 (2,92)	1-7/16 (36,53)
13SP360	SP 360	5/16 (7,94)	.140 (3,56)	1-7/16 (36,53)
13SP361	SP 361	5/16 (7,94)	.171 (4,34)	1-7/16 (36,53)
13SP362	SP 362	5/16 (7,94)	.194 (4,93)	1-7/16 (36,53)
13SP363	SP 363	5/16 (7,94)	.115 (2,92)	1-1/2 (38,10)

ITEM NUMBER	DESCRIPTION	A	B	L
13SP364	SP 364	5/16 (7,94)	.140 (3,56)	1-1/2 (38,10)
13SP365	SP 365	5/16 (7,94)	.171 (4,34)	1-1/2 (38,10)
13SP366	SP 366	5/16 (7,94)	.194 (4,93)	1-1/2 (38,10)
13SP372	SP 372	3/8 (9,53)	.140 (3,56)	1-1/16 (27,00)
13SP373	SP 373	3/8 (9,53)	.171 (4,34)	1-1/16 (27,00)
13SP374	SP 374	3/8 (9,53)	.194 (4,93)	1-1/16 (27,00)
13SP375	SP 375	3/8 (9,53)	.140 (3,56)	1-1/8 (28,58)
13SP376	SP 376	3/8 (9,53)	.171 (4,34)	1-1/8 (28,58)
13SP377	SP 377	3/8 (9,53)	.194 (4,93)	1-1/8 (28,58)
13SP378	SP 378	3/8 (9,53)	.140 (3,56)	1-3/16 (30,18)
13SP379	SP 379	3/8 (9,53)	.171 (4,34)	1-3/16 (30,18)
13SP380	SP 380	3/8 (9,53)	.194 (4,93)	1-3/16 (30,18)
13SP381	SP 381	3/8 (9,53)	.140 (3,56)	1-1/4 (31,75)
13SP382	SP 382	3/8 (9,53)	.171 (4,34)	1-1/4 (31,75)
13SP383	SP 383	3/8 (9,53)	.194 (4,93)	1-1/4 (31,75)
13SP384	SP 384	3/8 (9,53)	.140 (3,56)	1-5/16 (33,35)
13SP385	SP 385	3/8 (9,53)	.171 (4,34)	1-5/16 (33,35)
13SP386	SP 386	3/8 (9,53)	.194 (4,93)	1-5/16 (33,35)
13SP387	SP 387	3/8 (9,53)	.140 (3,56)	1-3/8 (34,93)
13SP388	SP 388	3/8 (9,53)	.171 (4,34)	1-3/8 (34,93)
13SP389	SP 389	3/8 (9,53)	.194 (4,93)	1-3/8 (34,93)
13SP390	SP 390	3/8 (9,53)	.140 (3,56)	1-7/16 (36,53)
13SP391	SP 391	3/8 (9,53)	.171 (4,34)	1-7/16 (36,53)
13SP392	SP 392	3/8 (9,53)	.194 (4,93)	1-7/16 (36,53)
13SP393	SP 393	3/8 (9,53)	.140 (3,56)	1-1/2 (38,10)
13SP394	SP 394	3/8 (9,53)	.171 (4,34)	1-1/2 (38,10)
13SP395	SP 395	3/8 (9,53)	.194 (4,93)	1-1/2 (38,10)

Tough and resilient, nylon spacers are useful for many applications. Ideal for use in electrical and electronic assemblies, they also can be used as bushings, bearings, rollers, and glides. Molded from corrosion resistant Type 66 Nylon, all parts are available on short delivery from standard tooling. Samples for testing are available but NOT ALL SIZES are in stock. Special sizes and lengths at a slight extra tooling charge.

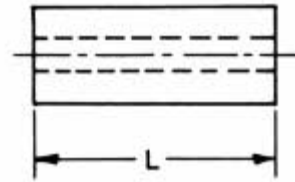
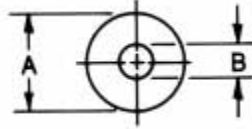
Parts are stocked in Nylon 6/6 UL 94V2

Parts can be furnished in: Acetal, Resin Celanese Celcon M270 UL 94HB

Tolerances: O.D. +/- .015; I.D. +/- .005; Length +/- .015

SPACERS

SECTION
V



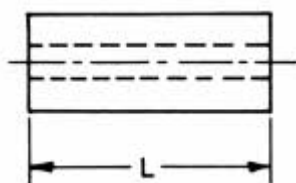
SPECIAL NYLON SPACERS

ITEM NUMBER	DESCRIPTION	A	B	L
13RS014530	RS 14530	.150 (3,81)	.078 (1,98)	5/16 (7,94)
13RS014531	RS 14531	.138 (3,50)	.038 (0,97)	.125 (3,17)
13RS016040	RS 16040	.160 (4,06)	.100 (2,54)	13/32 (10,32)
13RS018020	RS 18020	.192 (4,89)	.093 (2,36)	13/64 (5,16)
13RS018714	RS 18714	.188 (4,77)	.09 (2,29)	.52 (13,21)
13RS018715	RS 18715	.187 (4,75)	.067 (1,70)	9/64 (3,58)
13RS018720	RS 18720	.187 (4,75)	.096 (2,44)	5/32 (3,97)
13RS018721	RS 18721	.187 (4,75)	.063 (1,60)	.200 (5,08)
13RS018722	RS 18722	3/16 (4,76)	.115 (2,92)	9/32 (7,14)
13RS018725	RS 18725	.187 (4,75)	.120 (3,05)	5/16 (7,94)
13RS018726	RS 18726	.187 (4,75)	.135 (3,43)	1/4 (6,35)
13RS018730	RS 18730	.187 (4,75)	.120 (3,05)	11/32 (8,71)
13RS018735	RS 18735	.187 (4,75)	.120 (3,05)	7/16 (11,11)
13RS018785	RS 18785	.187 (4,75)	.091 (2,31)	27/32 (21,41)
13RS018790	RS 18790	.187 (4,75)	.091 (2,31)	13/64 (13,87)
13RS019330	RS 19330	.193 (4,90)	.125 (3,18)	1/4 (6,35)
13RS020030	RS 20030	.200 (5,08)	.145 (3,68)	11/64 (4,37)
13RS020031	RS 20031	.200 (5,08)	.145 (3,68)	.110 (2,79)
13RS020032	RS 20032	.198 (5,03)	.109 (2,77)	.345 (8,76)
13RS020313	RS 20313	.203 (5,16)	.130 (3,30)	9/32 (7,14)
13RS021025	RS 21025	.210 (5,33)	.156 (3,96)	.250 (6,35)
13RS021337	RS 21337	.218 (5,54)	.125 (3,18)	.385 (9,78)
13RS021535	RS 21535	.215 (5,46)	.145 (3,68)	21/64 (8,33)
13RS021830	RS 21830	.218 (5,54)	.140 (3,56)	5/32 (3,97)
13RS022013	RS 22013	.220 (5,59)	.138 (3,50)	21/32 (16,66)
13RS024014	RS 24014	.245 (6,22)	.175 (4,45)	5/32 (3,97)
13RS025012	RS 25012	.250 (6,35)	.126 (3,20)	51/64 (20,22)
13RS025013	RS 25013	.250 (6,35)	.171 (4,34)	.355 (9,02)
13RS025014	RS 25014	.250 (6,35)	.125 (3,18)	.823 (20,90)
13RS025015	RS 25015	.250 (6,35)	.166 (4,22)	1/2 (12,70)
13RS025017	RS 25017	.254 (6,45)	.150 (3,81)	.166 (4,26)
13RS025041	RS 25041	.250 (6,35)	.120 (3,05)	.389 (9,88)
13RS025042	RS 25042	.250 (6,35)	.125 (3,18)	.420 (10,67)
13RS025048	RS 25048	.250 (6,35)	.115 (2,92)	7/32 (5,55)
13RS025050	RS 25050	.250 (6,35)	.147 (3,73)	19/64 (7,52)
13RS025053	RS 25053	.250 (6,35)	.140 (3,56)	17/32 (13,49)
13RS025055	RS 25055	.250 (6,35)	.140 (3,56)	35/64 (13,87)
13RS025056	RS 25056	.250 (6,35)	.140 (3,56)	.640 (16,26)
13RS025062	RS 25062	.260 (6,60)	.200 (5,08)	19/32 (15,08)
13RS025065	RS 25065	.250 (6,35)	.160 (4,06)	.750 (19,05)
13RS025070	RS 25070	.250 (6,35)	.141 (3,58)	9/32 (7,14)
13RS025075	RS 25075	.250 (6,35)	.115 (2,92)	.207 (5,26)
13RS025090	RS 25090	.250 (6,35)	.115 (2,92)	1-5/16 (33,32)
13RS025091	RS 25091	.251 (6,38)	.152 (3,86)	5/32 (3,97)
13RS025095	RS 25095	.251 (6,38)	.115 (2,92)	17/32 (13,49)
13RS027540	RS 27540	.275 (6,99)	.195 (4,95)	.40 (10,16)
13RS028030	RS 28030	.280 (7,11)	.170 (4,32)	.300 (7,62)



SPACERS

SECTION
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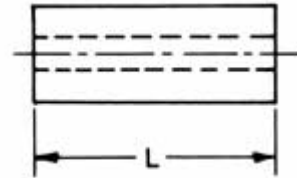
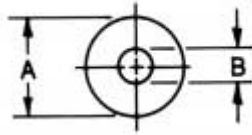
SPECIAL NYLON SPACERS

ITEM NUMBER	DESCRIPTION	A	B	L
13RS028038	RS 28038	.280 (7,11)	.125 (3,18)	19/64 (7,54)
13RS028440	RS 28440	.284 (7,21)	.224 (5,69)	.400 (10,16)
13RS029618	RS 29618	.296 (7,52)	.125 (3,18)	3/32 (2,38)
13RS031210	RS 31210	.312 (7,93)	.095 (2,41)	1/4 (6,35)
13RS031211	RS 31211	.312 (7,93)	.194 (4,93)	1.405 (35,68)
13RS031212	RS 31212	.312 (7,93)	.194 (4,93)	.530 (13,46)
13RS031214	RS 31214	.312 (7,93)	.140 (3,56)	9/32 (7,14)
13RS031221	RS 31221	.312 (7,93)	.195 (4,95)	.214 (5,44)
13RS031225	RS 31225	.312 (7,93)	.156 (3,96)	.256 (6,50)
13RS031226	RS 31226	5/16 (7,94)	.228 (5,79)	.260 (6,60)
13RS031230	RS 31230	.312 (7,93)	.246 (6,25)	1/4 (6,35)
13RS031243	RS 31243	5/16 (7,94)	.171 (4,34)	2-7/16 (61,93)
13RS031244	RS 31244	.312 (7,93)	.194 (4,93)	1.155 (29,33)
13RS031250	RS 31250	.312 (7,93)	.246 (6,25)	.495 (12,57)
13RS031251	RS 31251	.312 (7,93)	.171 (4,34)	1-7/8 (47,63)
13RS031252	RS 31252	.480 (12,19)	.345 (8,76)	3/16 (4,75)
13RS031253	RS 31253	.313 (7,95)	.187 (4,75)	.171 (4,34)
13RS031254	RS 31254	5/16 (7,94)	.171 (4,34)	.671 (17,04)
13RS031258	RS 31258	.312 (7,93)	.225 (5,72)	7/16 (11,11)
13RS031640	RS 31640	.316 (8,03)	.188 (4,78)	13/64 (5,16)
13RS031641	RS 31641	.250 (6,35)	.120 (3,05)	.200 (5,08)
13RS035453	RS 35453	.354 (8,99)	.172 (4,37)	.531 (13,49)
13RS036031	RS 36031	.360 (9,14)	.316 (8,03)	1/4 (6,35)
13RS037030	RS 37030	.370 (9,40)	.265 (6,73)	5/32 (3,96)
3RS037031	RS 37031	.375 (9,53)	.254 (6,45)	.453 (11,51)
13RS037041	RS 36041	.370 (9,40)	.194 (4,93)	.418 (10,62)
13RS037441	RS 37441	.374 (9,50)	.248 (6,30)	13/32 (10,32)
13RS037514	RS 37514	.376 (9,55)	.175 (4,45)	.150 (3,81)
13RS037515	RS 37515	.375 (9,53)	.219 (5,56)	5/32 (3,96)
13RS037517	RS 37517	.375 (9,53)	.219 (5,56)	11/64 (4,36)
13RS037518	RS 37518	.375 (9,53)	.252 (6,40)	3/16 (4,75)
13RS037520	RS 37520	.375 (9,53)	.219 (5,56)	13/64 (5,16)
13RS037521	RS 37521	.375 (9,53)	.218 (5,54)	7/16 (11,11)
13RS037522	RS 37522	.375 (9,53)	.220 (5,59)	3/8 (9,53)
13RS037525	RS 37525	.375 (9,53)	.225 (5,72)	.250 (6,35)
13RS037534	RS 37534	.375 (9,53)	.140 (3,56)	11/32 (8,73)
13RS037538	RS 37538	.375 (9,53)	.255 (6,48)	.380 (9,65)
13RS037542	RS 37542	.375 (9,53)	.265 (6,73)	1/4 (6,35)
13RS037546	RS 37546	.375 (9,53)	.094 (2,39)	9/32 (7,14)
13RS037547	RS 37547	.375 (9,53)	.203 (5,16)	17/64 (6,74)
13RS037548	RS 37548	.375 (9,53)	.203 (5,16)	7/64 (2,78)
13RS037550	RS 37550	.375 (9,53)	.252 (6,40)	3/8 (9,53)
13RS037552	RS 37552	.375 (9,53)	.265 (6,73)	3/8 (9,53)
13RS037559	RS 37559	.375 (9,53)	.250 (6,35)	.593 (15,06)
13RS037565	RS 37565	.375 (9,53)	.265 (6,73)	1/2 (12,70)
13RS037570	RS 37570	.375 (9,53)	.140 (3,56)	.700 (17,78)
13RS037571	RS 37571	.375 (9,53)	.255 (6,48)	.700 (17,78)



SPACERS

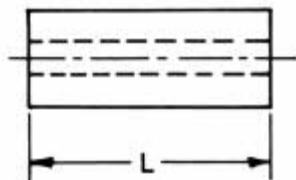
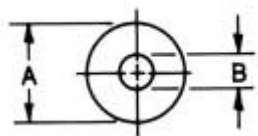
SECTION
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SPECIAL NYLON SPACERS

ITEM NUMBER	DESCRIPTION	A	B	L
13RS037575	RS 37575	.375 (9,53)	.265 (6,73)	7/8 (22,22)
13RS037580	RS 37580	.375 (9,53)	.265 (6,73)	1 (25,40)
13RS037585	RS 37585	.375 (9,53)	.257 (6,53)	1-1/4 (31,75)
13RS037590	RS 37590	.375 (9,53)	.265 (6,73)	3/4 (19,05)
13RS037598	RS 37598	.375 (9,53)	.115 (2,92)	1-1/16 (27,00)
13RS038038	RS 38038	.380 (9,65)	.320 (8,13)	.382 (9,70)
13RS038518	RS 38518	5/8 (15,88)	.385 (9,78)	.187 (4,75)
13RS038930	RS 38930	.389 (9,88)	.251 (6,38)	1/8 (3,18)
13RS039315	RS 39315	.393 (9,98)	.151 (3,83)	1/4 (6,35)
13RS039342	RS 39342	.393 (9,98)	.169 (4,29)	15/64 (5,94)
13RS039459	RS 39459	.395 (10,03)	.320 (8,13)	.591 (15,01)
13RS040080	RS 40080	.400 (10,16)	.140 (3,56)	23/32 (18,25)
13RS040085	RS 40085	.400 (10,16)	.140 (3,56)	25/32 (19,84)
13RS040630	RS 40630	.406 (10,31)	.269 (6,83)	1/4 (6,35)
13RS040660	RS 40660	.406 (10,31)	.267 (6,78)	1/2 (12,70)
13RS040670	RS 40670	.406 (10,31)	.265 (6,73)	3/4 (19,05)
13RS040675	RS 40675	.406 (10,31)	.280 (7,11)	3/8 (9,53)
13RS040685	RS 40685	.406 (10,31)	.265 (6,73)	1 (25,40)
13RS042700	RS 42700	.427 (10,85)	.182 (4,62)	47/64 (18,64)
13RS042701	RS 42701	.433 (10,10)	.256 (6,50)	.220 (5,59)
13RS043728	RS 43728	.437 (11,10)	.312 (7,92)	.281 (7,14)
13RS043729	RS 43729	7/16 (11,11)	.171 (4,34)	.655 (16,64)
13RS045040	RS 45040	.450 (11,43)	.325 (8,26)	27/64 (10,72)
13RS046060	RS 46060	.460 (11,68)	.252 (6,40)	9/16 (14,29)
13RS046319	RS 46319	.463 (11,76)	.190 (4,83)	5/16 (7,92)
13RS046823	RS 46823	.468 (11,89)	.314 (7,98)	.230 (5,84)
13RS048012	RS 48012	.470 (11,94)	.120 (3,05)	23/64 (9,12)
13RS048015	RS 48015	.475 (12,06)	.191 (4,85)	21/64 (8,33)
13RS048420	RS 48420	.484 (12,29)	.343 (8,71)	3/16 (4,76)
13RS048421	RS 48421	.486 (12,34)	.320 (8,13)	.375 (9,53)
13RS050010	RS 50010	.500 (12,70)	.320 (8,13)	.270 (6,86)
13RS050014	RS 50014	.501 (12,72)	.249 (6,32)	.390 (9,91)
13RS050015	RS 50015	.500 (12,70)	.194 (4,93)	13/32 (10,31)
13RS050016	RS 50016	.500 (12,70)	.265 (6,73)	.156 (3,96)
13RS050017	RS 50017	.500 (12,70)	.265 (6,73)	.200 (5,08)
13RS050018	RS 50018	.500 (12,70)	.257 (6,53)	15/64 (5,94)
13RS050019	RS 50019	.500 (12,70)	.195 (4,95)	.451 (13,74)
13RS050022	RS 50022	.500 (12,70)	.260 (6,60)	1/4 (6,35)
13RS050023	RS 50023	.500 (12,70)	.281 (7,14)	13/16 (20,64)
13RS050025	RS 50025	.500 (12,70)	.170 (4,32)	.255 (6,48)
13RS050027	RS 50027	.500 (12,70)	.170 (4,32)	.270 (6,86)
13RS050028	RS 50028	.500 (12,70)	.312 (7,93)	5/32 (3,97)
13RS050031	RS 50031	.500 (12,70)	.382 (9,70)	.312 (7,92)
13RS050040	RS 50040	.500 (12,70)	.344 (8,74)	13/16 (20,64)
13RS050041	RS 50041	.500 (12,70)	.375 (9,53)	.225 (5,72)
13RS050045	RS 50045	.500 (12,70)	.257 (6,53)	13/32 (10,31)
13RS050046	RS 50046	1/2 (12,70)	.312 (7,93)	1-5/16 (33,33)





SPECIAL NYLON SPACERS

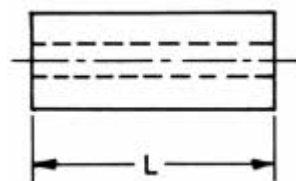
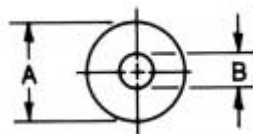


ITEM NUMBER	DESCRIPTION	A	B	L
13RS050047	RS 50047	.500 (12,70)	.368 (9,34)	.470 (11,94)
13RS050050	RS 50050	.500 (12,70)	.328 (8,33)	1 (25,40)
13RS050055	RS 50055	.500 (12,70)	.383 (9,73)	1/2 (12,70)
13RS050060	RS 50060	.490 (12,47)	.257 (6,53)	3/8 (9,53)
13RS050061	RS 50061	.500 (12,70)	.335 (8,51)	.209 (5,31)
13RS050062	RS 50062	.505 (12,83)	.385 (9,78)	5/32 (3,97)
13RS050063	RS 50063	.500 (12,70)	.285 (7,24)	.630 (16,00)
13RS050070	RS 50070	.500 (12,70)	.316 (8,03)	1/2 (12,70)
13RS050080	RS 50080	.500 (12,70)	.380 (9,65)	27/64 (10,72)
13RS050082	RS 50082	.500 (12,70)	.375 (9,53)	7/16 (11,11)
13RS050085	RS 50085	.500 (12,70)	.281 (7,14)	3/8 (9,53)
13RS050088	RS 50088	.500 (12,70)	.260 (6,60)	1-5/8 (41,28)
13RS050089	RS 50089	.500 (12,70)	.375 (9,53)	.380 (9,65)
13RS050090	RS 50090	.500 (12,70)	.375 (9,53)	5/8 (15,88)
13RS050091	RS 50091	.500 (12,70)	.375 (9,53)	.635 (16,13)
13RS050093	RS 50093	.500 (12,70)	.285 (7,24)	.930 (23,62)
13RS050094	RS 50094	.500 (12,70)	.375 (9,53)	11/16 (17,46)
13RS050095	RS 50095	.500 (12,70)	.385 (9,78)	1 (25,40)
13RS050096	RS 50096	.500 (12,70)	.260 (6,60)	1-3/8 (34,93)
13RS051062	RS 51062	.510 (12,95)	.320 (8,13)	7/8 (22,22)
13RS056030	RS 56030	.560 (14,22)	.379 (9,63)	3/8 (9,53)
13RS056031	RS 56031	.562 (14,27)	.375 (9,53)	1/2 (12,70)
13RS056256	RS 56256	.555 (13,97)	.245 (6,22)	9/16 (14,29)
13RS056337	RS 56337	.563 (14,30)	.281 (7,14)	3/8 (9,53)
13RS056656	RS 56656	.565 (14,35)	.33 (8,38)	.56 (14,22)
13RS056718	RS 56718	.567 (14,40)	.318 (8,08)	35/64 (13,87)
13RS056740	RS 56740	.567 (14,40)	.437 (11,10)	.406 (10,31)
13RS057032	RS 57032	.570 (14,48)	.320 (8,13)	35/64 (13,87)
13RS059031	RS 59031	.590 (14,99)	.314 (7,98)	23/64 (9,12)
13RS060550	RS 60550	.606 (15,39)	.203 (5,16)	5/8 (15,88)
13RS061018	RS 61018	.615 (15,62)	.385 (9,78)	3/16 (4,76)
13RS061731	RS 61731	.617 (15,67)	.313 (7,95)	11/16 (17,46)
13RS062012	RS 62012	.620 (15,75)	.350 (8,89)	3/16 (4,76)
13RS062035	RS 62035	.620 (15,75)	.507 (12,89)	1-11/16 (42,85)
13RS062040	RS 62040	.620 (15,75)	.504 (12,80)	13/16 (20,64)
13RS062050	RS 62050	.620 (15,75)	.504 (12,80)	1.405 (35,69)
13RS062062	RS 62062	.620 (15,75)	.504 (12,80)	.625 (15,88)
13RS062331	RS 62331	.623 (15,82)	.311 (7,90)	13/16 (20,64)
13RS062514	RS 62514	.625 (15,88)	.160 (4,06)	.312 (7,92)
13RS062515	RS 62515	.620 (15,75)	.323 (8,20)	5/32 (3,96)
13RS062519	RS 62519	.625 (15,88)	.191 (4,85)	1/4 (6,35)
13RS062520	RS 62520	.63 (16,00)	.50 (12,70)	1-1/4 (31,75)
13RS062521	RS 62521	.625 (15,88)	.140 (3,56)	.375 (9,53)
13RS062522	RS 62522	.625 (15,88)	.435 (11,10)	1/4 (6,35)
13RS062523	RS 62523	.635 (16,13)	.385 (9,78)	.230 (5,84)
13RS062524	RS 62524	.625 (15,88)	.412 (10,46)	.155 (3,94)
13RS062525	RS 62525	.625 (15,88)	.390 (9,91)	1/4 (6,35)



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SECTION
V



SPECIAL NYLON SPACERS



ITEM NUMBER	DESCRIPTION	A	B	L
13RS062527	RS 62527	.625 (15,88)	.328 (8,33)	.250 (6,35)
13RS062528	RS 62528	.625 (15,88)	.280 (7,11)	7/16 (11,10)
13RS062530	RS 62530	.610 (15,49)	.250 (6,35)	3/8 (9,53)
13RS062531	RS 62531	.625 (15,88)	.260 (6,60)	1/4 (6,35)
13RS062535	RS 62535	.625 (15,88)	.500 (12,70)	5/16 (7,94)
13RS062537	RS 62537	.625 (15,88)	.342 (8,69)	3/8 (9,53)
13RS062538	RS 62538	.627 (15,93)	.484 (12,29)	.467 (11,86)
13RS062540	RS 62540	.625 (15,88)	.375 (9,53)	3/8 (9,53)
13RS062546	RS 62546	.625 (15,88)	.375 (9,53)	.462 (11,73)
13RS062550	RS 62550	.613 (15,57)	.281 (7,14)	1/2 (12,70)
13RS062560	RS 62560	.615 (15,62)	.281 (7,14)	13/16 (20,64)
13RS062561	RS 62561	.625 (15,88)	.386 (9,80)	39/64 (15,47)
13RS062565	RS 62565	.625 (15,88)	.450 (11,43)	5/8 (15,88)
13RS062570	RS 62570	.635 (16,13)	.425 (10,80)	7/8 (22,22)
13RS062571	RS 62571	.625 (15,88)	.450 (11,43)	7/8 (22,22)
13RS062572	RS 62572	.618 (15,70)	.500 (12,70)	31/64 (12,29)
13RS062573	RS 62573	.625 (15,88)	.386 (9,80)	.738 (18,75)
13RS062580	RS 62580	.625 (15,88)	.257 (6,53)	1/8 (3,18)
13RS062582	RS 62582	.625 (15,88)	.375 (9,53)	.082 (2,08)
13RS062590	RS 62590	.610 (15,49)	.256 (6,50)	1-1/2 (38,10)
13RS062650	RS 62650	.620 (15,75)	.507 (12,89)	1/2 (12,70)
13RS063050	RS 63050	.630 (16,00)	.378 (9,60)	.50 (12,70)
13RS063550	RS 63550	.635 (16,13)	.520 (13,21)	.500 (12,70)
13RS063564	RS 63564	.913 (23,19)	.635 (16,13)	.641 (16,28)
13RS065650	RS 65650	.656 (16,66)	.516 (13,11)	1/2 (12,70)
13RS065830	RS 65830	.648 (16,50)	.280 (7,11)	23/64 (9,12)
13RS066850	RS 66850	.668 (16,97)	.506 (12,85)	15/16 (23,81)
13RS068711	RS 68711	.687 (17,45)	.260 (6,60)	.457 (11,61)
13RS068712	RS 68712	.687 (17,45)	.156 (3,96)	1/8 (3,18)
13RS069038	RS 69038	.680 (17,27)	.600 (15,24)	.56 (14,22)
13RS069039	RS 69039	.680 (17,27)	.390 (9,91)	5/8 (15,88)
13RS071820	RS 71820	.718 (18,24)	.526 (13,36)	7/32 (5,55)
13RS071821	RS 71821	.720 (18,29)	.392 (9,96)	.230 (5,84)
13RS071828	RS 71828	.718 (18,24)	.526 (13,36)	9/32 (7,14)
13RS072050	RS 72050	.720 (18,29)	.515 (13,08)	.49 (12,45)
13RS073030	RS 73030	.730 (18,54)	.265 (6,73)	.295 (7,49)
13RS075010	RS 75010	.750 (19,05)	.280 (7,11)	.440 (11,18)
13RS075020	RS 75020	.740 (18,80)	.250 (6,35)	1/4 (6,35)
13RS075021	RS 75021	.744 (18,90)	.397 (10,08)	.371 (9,42)
13RS075022	RS 75022	.745 (18,92)	.387 (9,83)	.187 (4,75)
13RS075023	RS 75023	.752 (19,10)	.480 (12,19)	.226 (5,74)
13RS075024	RS 75024	3/4 (19,05)	.315 (8,00)	5/16 (7,94)
13RS075025	RS 75025	.750 (19,05)	.258 (6,55)	7/16 (11,10)
13RS075026	RS 75026	.750 (19,05)	.260 (6,60)	.375 (9,53)
13RS075027	RS 75027	3/4 (19,05)	5/16 (7,94)	9/16 (14,29)
13RS075028	RS 75028	3/4 (19,05)	.266 (6,76)	5/16 (7,94)
13RS075029	RS 75029	.750 (19,05)	.370 (9,40)	11/32 (8,71)
13RS075030	RS 75030	.750 (19,05)	.406 (10,32)	.562 (14,27)
13RS075031	RS 75031	.750 (19,05)	.315 (8,00)	.187 (4,75)



SPACERS

SECTION
V



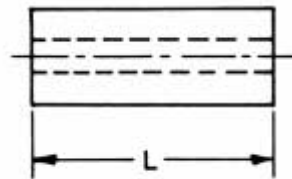
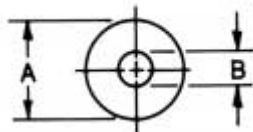
SPECIAL NYLON SPACERS

ITEM NUMBER	DESCRIPTION	A	B	L
13RS075032	RS 75032	.750 (19,05)	.385 (9,78)	13/64 (5,16)
13RS075033	RS 75033	3/4 (19,05)	1/4 (6,35)	3/16 (4,76)
13RS075034	RS 75034	.750 (19,05)	.515 (13,08)	.340 (8,64)
13RS075035	RS 75035	.750 (19,05)	.245 (6,25)	.361 (9,17)
13RS075036	RS 75036	.750 (19,05)	.312 (7,92)	.938 (23,82)
13RS075037	RS 75037	.745 (18,92)	.250 (6,35)	3/8 (9,53)
13RS075039	RS 75039	.750 (19,05)	.490 (12,45)	3/8 (9,53)
13RS075040	RS 75040	.750 (19,05)	.323 (8,20)	.250 (6,35)
13RS075041	RS 75041	.740 (18,80)	.390 (9,91)	1 (25,40)
13RS075042	RS 75042	.750 (19,05)	.260 (6,60)	.625 (15,88)
13RS075043	RS 75043	.740 (18,80)	.310 (7,87)	.437 (11,10)
13RS075044	RS 75044	1-3/4(44,45)	5/8 (15,88)	1/4 (6,35)
13RS075045	RS 75045	.745 (18,92)	.385 (9,78)	5/16 (7,92)
13RS075046	RS 75046	.750 (19,05)	.460 (11,68)	1/4 (6,35)
13RS075047	RS 75047	3/4 (19,05)	.380 (9,65)	.472 (11,99)
13RS075065	RS 75065	3/4 (19,05)	.260 (6,60)	9/16 (14,29)
13RS075070	RS 75070	.750 (19,05)	.510 (12,95)	.700 (17,78)
13RS075075	RS 75075	3/4 (19,05)	.32 (8,13)	3/4 (19,05)
13RS075076	RS 75076	.750 (19,05)	.320 (8,13)	1 (25,40)
13RS075077	RS 75077	.755 (19,18)	.400 (10,16)	.290 (7,73)
13RS075086	RS 75086	.760 (19,30)	.401 (10,19)	.600 (15,24)
13RS075990	RS 75990	.760 (19,30)	.394 (10,01)	.910 (23,11)
13RS075991	RS 75991	.780 (19,81)	.501 (12,73)	.205 (5,21)
13RS077530	RS 77530	.775 (19,69)	.507 (12,89)	1/4 (6,35)
13RS081045	RS 81045	.803 (20,40)	.520 (13,21)	1/2 (12,70)
13RS081222	RS 81222	.812 (20,63)	.312 (7,93)	1/8 (3,18)
13RS081223	RS 81223	.812 (20,63)	.403 (10,24)	.250 (6,35)
13RS081224	RS 81224	.812 (20,63)	.403 (10,24)	.710 (18,03)
13RS081262	RS 81262	.825 (20,95)	.203 (5,16)	5/8 (15,88)
13RS081263	RS812623	.825 (20,95)	.257 (6,53)	.370 (9,40)
13RS087045	RS 87045	.870 (22,10)	.531 (13,49)	25/64 (9,91)
13RS087046	RS 87046	.866 (22,00)	1/4 (6,35)	.394 (10,01)
13RS087537	RS 87537	.875 (22,23)	.330 (8,38)	.375 (9,53)
13RS087540	RS 87540	.875 (22,23)	.265 (6,73)	.375 (9,53)
13RS087550	RS 87550	.875 (22,23)	.251 (6,38)	.625 (15,88)
13RS087555	RS 87555	.875 (22,23)	.280 (7,11)	.500 (12,70)
13RS089037	RS 89037	.885 (22,48)	.438 (11,13)	.370 (9,40)
13RS091775	RS 91775	.917 (23,29)	.785 (19,94)	.750 (19,05)
13RS094550	RS 94550	.946 (24,03)	.248 (6,30)	.500 (12,70)
13RS098528	RS 98528	.985 (25,02)	.285 (7,24)	1/4 (6,35)
13RS098550	RS 98550	.980 (24,89)	.352 (8,84)	1/2 (12,70)
13RS100012	RS 100012	1.00 (25,40)	.250 (6,35)	1/8 (3,18)
13RS100013	RS 100013	.990 (25,15)	.344 (8,74)	5/16 (7,92)
13RS100014	RS 100014	1.00 (25,40)	.260 (6,60)	3/8 (9,53)
13RS100018	RS 100018	1.00 (25,40)	.250 (6,35)	3/16 (4,76)
13RS100020	RS 100020	.990 (25,15)	.187 (4,75)	1/4 (6,35)
13RS100021	RS 100021	1.00 (25,40)	.250 (6,35)	1/4 (6,35)
13RS100025	RS 100025	1.00 (25,40)	.915 (23,24)	1/4 (6,35)
13RS100026	RS 100026	1.00 (25,40)	.250 (6,35)	7/16 (11,10)



SPACERS

SECTION V



SPECIAL NYLON SPACERS

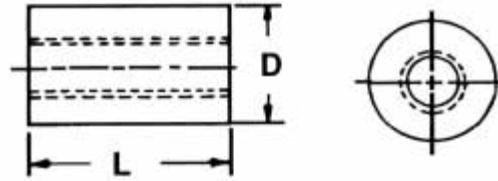
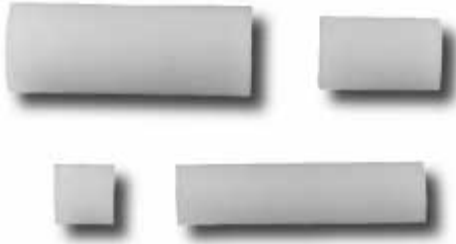
ITEM NUMBER	DESCRIPTION	A	B	L
13RS100030	RS 100030	1.00 (25,40)	.250 (6,35)	.225 (5,72)
13RS100031	RS 100031	1.00 (25,40)	33/64 (13,10)	.375 (9,52)
13RS100037	RS 100037	1.00 (25,40)	.385 (9,78)	3/8 (9,53)
13RS100038	RS 100038	1.00 (25,40)	.200 (5,08)	3/8 (9,53)
13RS100043	RS 100043	1.00 (25,40)	.406 (10,31)	7/16 (11,10)
13RS100050	RS 100050	1.00 (25,40)	.755 (19,18)	13/64 (5,16)
13RS100051	RS 100051	1.00 (25,40)	.643 (16,33)	.500 (12,70)
13RS100054	RS 100054	1.00 (25,40)	.375 (9,53)	.50 (12,70)
13RS100056	RS 100056	1.00 (25,40)	.765 (19,43)	9/16 (14,29)
13RS100057	RS 100057	1.18 (29,97)	.250 (6,35)	.217 (5,51)
13RS100058	RS 100058	.984 (24,99)	.366 (9,29)	3/8 (9,53)
13RS100060	RS 100060	.987 (25,07)	.500 (12,70)	3/8 (9,53)
13RS100555	RS 100555	.986 (25,04)	.375 (9,53)	1/4 (6,35)
13RS105720	RS 105720	1.057 (26,85)	.812 (20,63)	1/8 (3,18)
13RS106212	RS 106212	1.055 (26,80)	.740 (18,80)	3/16 (4,76)
13RS112027	RS 112027	1.120 (28,45)	1.015 (25,78)	.375 (9,53)
13RS112028	RS 112028	1.120 (28,45)	.281 (7,14)	7/16 (11,10)
13RS112030	RS 112030	1.240 (31,50)	.505 (12,83)	.500 (12,70)
13RS125075	RS 125075	1-1/4 (31,75)	.177 (4,50)	5/8 (15,88)
13RS125080	RS 125080	1.250 (31,75)	.642 (16,31)	.082 (12,08)
13RS125081	RS 125081	1.250 (31,75)	.875 (22,22)	9/16 (14,29)
13RS125082	RS 125082	1.25 (31,75)	.255 (6,48)	.531 (13,49)
13RS125250	RS 125250	1.240 (31,50)	.312 (7,93)	1/4 (7,92)
13RS125311	RS 125311	1-1/4 (31,75)	.177 (4,50)	9/16 (14,29)
13RS125312	RS 125312	1.250 (31,75)	.510 (12,95)	5/16 (6,35)
13RS125313	RS 125313	1.239(31,47)	.761 (19,33)	9/16 (14,29)
13RS125387	RS 125387	1.25 (31,75)	.380 (9,65)	.38 (9,65)
13RS125500	RS 125500	1.24 (31,50)	.307 (7,80)	1/2 (12,70)
13RS125501	RS 125501	1.250 (31,75)	.400 (10,16)	5/8 (15,88)
13RS125750	RS 125750	1 1/4 (31,75)	17/64 (6,76)	.750 (19,05)
13RS126210	RS 126210	1.262 (32,05)	1.043 (26,49)	.950 (24,13)
13RS131255	RS 131255	1.312 (33,33)	1.078 (27,38)	3/4 (19,05)
13RS131256	RS 131256	1-5/16(33,33)	.385 (9,78)	.100 (2,54)
13RS137520	RS 137520	1.375 (34,93)	.656 (16,66)	1/8 (3,18)
13RS146050	RS 146050	1.460 (37,08)	.521 (13,23)	.500 (12,70)
13RS150011	RS 150011	1.500 (38,10)	1.187 (30,15)	23/64 (9,13)
13RS150050	RS 150050	1.50 (38,10)	1.02 (25,91)	.50 (12,70)
13RS162590	RS 162590	1.625 (41,28)	1.388 (35,26)	3/32 (2,38)
13RS175032	RS 175032	1.750 (44,45)	.928 (23,57)	9/32 (7,14)
13RS187510	RS 187510	1.860 (47,24)	.250 (6,35)	1 (25,40)
13RS213580	RS 213580	2.135 (54,23)	1.760 (44,70)	1/8 (3,18)
13RS213581	RS 213581	2.13 (54,10)	1.63 (41,40)	.130 (3,30)



SPACERS

SECTION
V

Molded from Type 66 Nylon and then machine tapped, these spacers are low cost insulators that can be used in many electrical applications. Special sizes can be made to order from our large untapped spacer inventory.



TAPPED NYLON SPACERS

NOTE: ON THREADED SPACERS 3/4" AND LONGER, THE TAP IS 3/8" FROM EACH END AND NOT CONTINUOUS THROUGH.

ITEM NUMBER	DESCRIPTION	D	L	TAPPED	ITEM NUMBER	DESCRIPTION	D	L	TAPPED
15TSP055	TSP 55	3/16 (4,76)	7/16 (11,11)	2-56	15TSP044	TSP 44	3/8 (9,53)	5/8 (15,88)	10-32****
15TSP056	TSP 56	3/16 (4,76)	1/2 (12,70)	2-56	15TSP024	TSP 24	3/8 (9,53)	3/4 (19,05)	10-32****
15TSP106	TSP 106	3/16 (4,76)	17/64 (6,73)	4-40*	15TSP045	TSP 45	3/8 (9,53)	7/8 (22,22)	10-32****
15TSP057	TSP 57	1/4 (6,35)	1/4 (6,35)	2-56	15TSP025	TSP 25	3/8 (9,53)	1 (25,40)	10-32****
15TSP001	TSP 1	1/4 (6,35)	1/4 (6,35)	4-40*	15TSP026	TSP 26	1/2 (12,70)	1/4 (6,35)	10-32****
15TSP050	TSP 50	1/4 (6,35)	5/16 (7,94)	4-40*	15TSP027	TSP 27	1/2 (12,70)	3/8 (9,53)	10-32****
15TSP002	TSP 2	1/4 (6,35)	3/8 (9,53)	4-40*	15TSP028	TSP 28	1/2 (12,70)	1/2 (12,70)	10-32****
15TSP003	TSP 3	1/4 (6,35)	1/2 (12,70)	4-40*	15TSP046	TSP 46	1/2 (12,70)	5/8 (15,88)	10-32****
15TSP036	TSP 36	1/4 (6,35)	5/8 (15,88)	4-40*	15TSP029	TSP 29	1/2 (12,70)	3/4 (19,05)	10-32****
15TSP004	TSP 4	1/4 (6,35)	3/4 (19,05)	4-40*	15TSP047	TSP 47	1/2 (12,70)	7/8 (22,22)	10-32****
15TSP037	TSP 37	1/4 (6,35)	7/8 (22,22)	4-40*	15TSP030	TSP 30	1/2 (12,70)	1 (25,40)	10-32****
15TSP005	TSP 5	1/4 (6,35)	1 (25,40)	4-40*	15TSP031	TSP 31	1/2 (12,70)	1/4 (6,35)	1/4-20
15TSP006	TSP 6	1/4 (6,35)	1/4 (6,35)	6-32**	15TSP032	TSP 32	1/2 (12,70)	3/8 (9,53)	1/4-20
15TSP054	TSP 54	1/4 (6,35)	5/16 (7,94)	6-32**	15TSP033	TSP 33	1/2 (12,70)	1/2 (12,70)	1/4-20
15TSP007	TSP 7	1/4 (6,35)	3/8 (9,53)	6-32**	15TSP048	TSP 48	1/2 (12,70)	5/8 (15,88)	1/4-20
15TSP008	TSP 8	1/4 (6,35)	1/2 (12,70)	6-32**	15TSP034	TSP 34	1/2 (12,70)	3/4 (19,05)	1/4-20
15TSP051	TSP 51	1/4 (6,35)	9/16 (14,29)	6-32**	15TSP049	TSP 49	1/2 (12,70)	7/8 (22,22)	1/4-20
15TSP038	TSP 38	1/4 (6,35)	5/8 (15,88)	6-32**	15TSP035	TSP 35	1/2 (12,70)	1 (25,40)	1/4-20
15TSP009	TSP 9	1/4 (6,35)	3/4 (19,05)	6-32**	15TSP099	TSP 99	3/16 (4,76)	5/32 (3,97)	4-40
15TSP052	TSP 52	1/4 (6,35)	15/16 (23,81)	6-32**	15TSP100	TSP 100	3/16 (4,76)	3/16 (4,76)	4-40
15TSP039	TSP 39	1/4 (6,35)	7/8 (22,22)	6-32**	15TSP101	TSP 101	3/16 (4,76)	1/4 (6,35)	4-40
15TSP010	TSP 10	1/4 (6,35)	1 (25,40)	6-32**	15TSP102	TSP 102	3/16 (4,76)	5/16 (7,94)	4-40
15TSP053	TSP 53	1/4 (6,35)	1 1/2 (38,10)	6-32**	15TSP103	TSP 103	3/16 (4,76)	3/8 (9,53)	4-40
15TSP011	TSP 11	1/4 (6,35)	1/4 (6,35)	8-32***	15TSP104	TSP 104	3/16 (4,76)	7/16 (11,11)	4-40
15TSP012	TSP 12	1/4 (6,35)	3/8 (9,53)	8-32***	15TSP105	TSP 105	3/16 (4,76)	1/2 (12,70)	4-40
15TSP013	TSP 13	1/4 (6,35)	1/2 (12,70)	8-32***	15TSP107	TSP 107	3/16 (4,76)	5/8 (15,88)	4-40
15TSP040	TSP 40	1/4 (6,35)	5/8 (15,88)	8-32***	15TSP109	TSP 109	3/16 (4,76)	3/4 (19,05)	4-40
15TSP014	TSP 14	1/4 (6,35)	3/4 (19,05)	8-32***	15TSP111	TSP 111	3/16 (4,76)	7/8 (22,22)	4-40
15TSP041	TSP 41	1/4 (6,35)	7/8 (22,22)	8-32***	15TSP115	TSP 115	3/16 (4,76)	1 (25,40)	4-40
15TSP015	TSP 15	1/4 (6,35)	1 (25,40)	8-32***	15TSP140	TSP 140	3/16 (4,76)	3/16 (4,76)	6-32
15TSP016	TSP 16	5/16 (7,94)	1/4 (6,35)	8-32***	15TSP141	TSP 141	3/16 (4,76)	1/4 (6,35)	6-32
15TSP017	TSP 17	5/16 (7,94)	3/8 (9,53)	8-32***	15TSP142	TSP 142	3/16 (4,76)	5/16 (7,94)	6-32
15TSP018	TSP 18	5/16 (7,94)	1/2 (12,70)	8-32***	15TSP143	TSP 143	3/16 (4,76)	3/8 (9,53)	6-32
15TSP042	TSP 42	5/16 (7,94)	5/8 (15,88)	8-32***	15TSP144	TSP 144	3/16 (4,76)	7/16 (11,11)	6-32
15TSP019	TSP 19	5/16 (7,94)	3/4 (19,05)	8-32***	15TSP145	TSP 145	3/16 (4,76)	1/2 (12,70)	6-32
15TSP043	TSP 43	5/16 (7,94)	7/8 (22,22)	8-32***	15TSP147	TSP 147	3/16 (4,76)	5/8 (15,88)	6-32
15TSP020	TSP 20	5/16 (7,94)	1 (25,40)	8-32***	15TSP149	TSP 149	3/16 (4,76)	3/4 (19,05)	6-32
15TSP021	TSP 21	3/8 (9,53)	1/4 (6,35)	10-32****	15TSP151	TSP 151	3/16 (4,76)	7/8 (22,22)	6-32
15TSP022	TSP 22	3/8 (9,53)	3/8 (9,53)	10-32****	15TSP155	TSP 155	3/16 (4,76)	1 (25,40)	6-32
15TSP023	TSP 23	3/8 (9,53)	1/2 (12,70)	10-32****					

*NOTE THESE ITEMS ARE AVAILABLE IN METRIC THREADS.

To order metric threads, simply add an M to the Part Number.

4-40* Available in M3 Thread 8-32*** Available in M4 Thread
6-32** Available in M3.5 Thread 10-32**** Available in M5 Thread

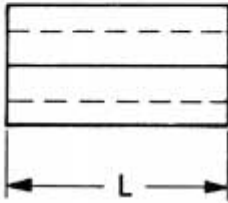
EXAMPLE: 15TSP006 with a 6-32 Thread,
Becomes 15M15TSP006 with a M3.5 Thread

SPACERS

SECTION

V

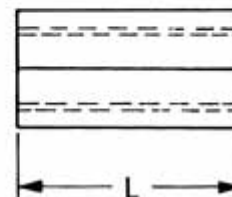
HEX NYLON SPACERS



ITEM NUMBER	DESCRIPTION	ID	SELF TAPPING SCREW	L	A
35HSP114	HSP 114	.072 (1,83)	2	3/8 (9,53)	3/16
35HSP113	HSP 113	.075 (1,91)	2	9/16 (14,28)	3/16
35HSP101	HSP 101	.091 (2,31)	4	1/4 (6,35)	3/16
35HSP102	HSP 102	.091 (2,31)	4	3/8 (9,53)	3/16
35HSP124	HSP 124	.091 (2,31)	4	3/4 (19,05)	3/16
35HSP103	HSP 103	.091 (2,31)	4	1/2 (12,70)	3/16
35HSP111	HSP 111	.091 (2,31)	4	9/16 (14,27)	3/16
35HSP119	HSP 119	.091 (2,31)	4	5/8 (15,88)	3/16
35HSP104	HSP 104	.091 (2,31)	4	7/16 (11,10)	3/16
35HSP116	HSP 116	.091 (2,31)	4	7/8 (22,22)	3/16
35HSP105	HSP 105	.091 (2,31)	4	1 (25,40)	3/16
35HSP106	HSP 106	.115 (2,92)	6	1/4 (6,35)	3/16
35HSP107	HSP 107	.115 (2,92)	6	3/8 (9,53)	3/16
35HSP108	HSP 108	.115 (2,92)	6	1/2 (12,70)	3/16
35HSP120	HSP 120	.115 (2,92)	6	5/8 (15,88)	3/16
35HSP109	HSP 109	.115 (2,92)	6	3/4 (19,05)	3/16
35HSP117	HSP 117	.115 (2,92)	6	7/8 (22,22)	3/16
35HSP110	HSP 110	.115 (2,92)	6	1 (25,40)	3/16
35HSP001	HSP 1	.091 (2,31)	4	1/4 (6,35)	1/4
35HSP022	HSP 22	.091 (2,31)	4	5/16 (7,92)	1/4
35HSP002	HSP 2	.091 (2,31)	4	3/8 (9,53)	1/4
35HSP029	HSP 29	.091 (2,31)	4	7/16 (11,10)	1/4
35HSP003	HSP 3	.091 (2,31)	4	1/2 (12,70)	1/4
35HSP024	HSP 24	.091 (2,31)	4	9/16 (14,27)	1/4
35HSP019	HSP 19	.091 (2,31)	4	5/8 (15,88)	1/4
35HSP004	HSP 4	.091 (2,31)	4	3/4 (19,05)	1/4
35HSP016	HSP 16	.091 (2,31)	4	7/8 (22,22)	1/4
35HSP005	HSP 5	.091 (2,31)	4	1 (25,40)	1/4
35HSP032	HSP 32	.091 (2,31)	4	1-1/2 (38,10)	1/4
35HSP035	HSP 35	.115 (2,92)	6	3/16 (4,75)	1/4
35HSP006	HSP 6	.115 (2,92)	6	1/4 (6,35)	1/4
35HSP007	HSP 7	.115 (2,92)	6	3/8 (9,53)	1/4
35HSP008	HSP 8	.115 (2,92)	6	1/2 (12,70)	1/4
35HSP020	HSP 20	.115 (2,92)	6	5/8 (15,88)	1/4
35HSP009	HSP 9	.115 (2,92)	6	3/4 (19,05)	1/4
35HSP017	HSP 17	.115 (2,92)	6	7/8 (22,22)	1/4
35HSP010	HSP 10	.115 (2,92)	6	1 (25,40)	1/4
35HSP023	HSP 23	.115 (2,92)	6	1-1/4 (31,75)	1/4
35HSP011	HSP 11	.140 (3,56)	8	1/4 (6,35)	1/4
35HSP012	HSP 12	.140 (3,56)	8	3/8 (9,53)	1/4
35HSP013	HSP 13	.140 (3,56)	8	1/2 (12,70)	1/4
35HSP021	HSP 21	.140 (3,56)	8	5/8 (15,88)	1/4
35HSP014	HSP 14	.140 (3,56)	8	3/4 (19,05)	1/4
35HSP018	HSP 18	.140 (3,56)	8	7/8 (22,22)	1/4
35HSP015	HSP 15	.140 (3,56)	8	1 (25,40)	1/4
35HSP208	HSP 208	.115 (2,92)	6	1/2 (12,70)	5/16
35HSP225	HSP 225	.115 (2,92)	6	1-1/8 (28,58)	5/16
35HSP309	HSP 309	.110 (2,74)	6	3/4 (19,05)	3/8
35HSP207	HSP 207	.225 (5,72)	6	7/32 (5,56)	5/16
35HSP331	HSP 331	.115 (2,92)	6	1-5/16 (33,32)	3/8
35HSP400	HSP 400	.195 (4,95)	1/4-20	1/2 (12,70)	3/8

HEX NYLON TAPPED SPACERS

ITEM NUMBER	DESCRIPTION	TAPPED	L	A
14HIST114	HTSP 114	2-56	3/8 (9,53)	3/16
14HISP113	HTSP 113	2-56	9/16 (14,28)	3/16
14HISP101	HTSP 101	4-40*	1/4 (6,35)	3/16
14HISP102	HTSP 102	4-40*	3/8 (9,53)	3/16
14HISP124	HTSP 124	4-40*	3/4 (19,05)	3/16
14HISP103	HTSP 103	4-40*	1/2 (12,70)	3/16
14HISP111	HTSP 111	4-40*	9/16 (14,27)	3/16
14HISP119	HTSP 119	4-40*	5/8 (15,88)	3/16
14HISP104	HTSP 104	4-40*	7/16 (11,10)	3/16
14HISP116	HTSP 116	4-40*	7/8 (22,22)	3/16
14HISP105	HTSP 105	4-40*	1 (25,40)	3/16
14HISP106	HTSP 106	6-32**	1/4 (6,35)	3/16
14HISP107	HTSP 107	6-32**	3/8 (9,53)	3/16
14HISP108	HTSP 108	6-32**	1/2 (12,70)	3/16
14HISP120	HTSP 120	6-32**	5/8 (15,88)	3/16
14HISP109	HTSP 109	6-32**	3/4 (19,05)	3/16
14HISP117	HTSP 117	6-32**	7/8 (22,22)	3/16
14HISP110	HTSP 110	6-32**	1 (25,40)	3/16
14HISP001	HTSP 1	4-40*	1/4 (6,35)	1/4
14HISP022	HTSP 22	4-40*	5/16 (7,92)	1/4
14HISP002	HTSP 2	4-40*	3/8 (9,53)	1/4
14HISP029	HTSP 29	4-40*	7/16 (11,10)	1/4
14HISP003	HTSP 3	4-40*	1/2 (12,70)	1/4
14HISP024	HTSP 24	4-40*	9/16 (14,27)	1/4
14HISP019	HTSP 19	4-40*	5/8 (15,88)	1/4
14HISP004	HTSP 4	4-40*	3/4 (19,05)	1/4
14HISP016	HTSP 16	4-40*	7/8 (22,22)	1/4
14HISP005	HTSP 5	4-40*	1 (25,40)	1/4
14HISP032	HTSP 32	4-40*	1-1/2 (38,10)	1/4
14HISP035	HTSP 35	6-32**	3/16 (4,75)	1/4
14HISP006	HTSP 6	6-32**	1/4 (6,35)	1/4
14HISP007	HTSP 7	6-32**	3/8 (9,53)	1/4
14HISP008	HTSP 8	6-32**	1/2 (12,70)	1/4
14HISP020	HTSP 20	6-32**	5/8 (15,88)	1/4
14HISP009	HTSP 9	6-32**	3/4 (19,05)	1/4
14HISP017	HTSP 17	6-32**	7/8 (22,22)	1/4
14HISP010	HTSP 10	6-32**	1 (25,40)	1/4
14HISP023	HTSP 23	6-32**	1-1/4 (31,75)	1/4
14HISP011	HTSP 11	8-32***	1/4 (6,35)	1/4
14HISP012	HTSP 12	8-32***	3/8 (9,53)	1/4
14HISP013	HTSP 13	8-32***	1/2 (12,70)	1/4
14HISP021	HTSP 21	8-32***	5/8 (15,88)	1/4
14HISP014	HTSP 14	8-32***	3/4 (19,05)	1/4
14HISP018	HTSP 18	8-32***	7/8 (22,22)	1/4
14HISP015	HTSP 15	8-32***	1 (25,40)	1/4
14HISP208	HTSP 208	6-32**	1/2 (12,70)	5/16
14HISP225	HTSP 225	6-32**	1-1/8 (28,58)	5/16
14HISP309	HTSP 309	6-32**	3/4 (19,05)	3/8
14HISP207	HTSP 207	1/4-20	7/32 (5,56)	5/16
14HISP331	HTSP 331	6-32**	1-5/16 (33,32)	3/8
14HISP400	HTSP 400	1/4-20	1/2 (12,70)	3/8



On Threaded Spacers 3/4" and longer, tap is 3/8" from each end and not continuous through.

NOTE: To order metric threads, simply add an M to the Part Number.

EXAMPLE: 14HISP106 with a 6-32 Thread, Becomes 14MHISP106 with a M3.5 Thread

*NOTE THESE ITEMS ARE AVAILABLE IN METRIC THREADS.

4-40* Available in M3 Thread • 6-32** Available in M3.5 Thread • 8-32*** Available in M4 Thread

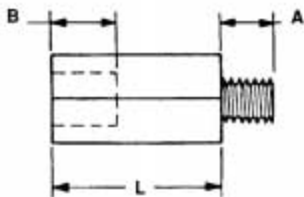
SPACERS

SECTION V

THREAD SIZE	A		B	
440	3/16	(4,76)	3/16	(4,76) Minimum
632	1/4	(6,35)	1/4	(6,35) Minimum
832	3/8	(9,53)	3/8	(9,53) Minimum

DEPTH OF THREAD IN 1/4" BODY LENGTHS IS 3/16" MINIMUM

MALE-FEMALE NYLON THREADED STANDOFFS



ITEM NUMBER	DESCRIPTION	THREAD	L
36440MF025	Standoff	440	1/4 (6,35)
36440MF037	Standoff	440	3/8 (9,53)
36440MF050	Standoff	440	1/2 (12,70)
36440MF062	Standoff	440	5/8 (15,88)
36440MF075	Standoff	440	3/4 (19,05)
36440MF087	Standoff	440	7/8 (22,22)
36440MF100	Standoff	440	1 (25,40)
36440MF112	Standoff	440	1 1/8 (28,58)
36440MF125	Standoff	440	1 1/4 (31,75)
36440MF137	Standoff	440	1 3/8 (34,93)
36440MF150	Standoff	440	1 1/2 (38,10)
36440MF162	Standoff	440	1 5/8 (38,28)
36440MF175	Standoff	440	1 3/4 (44,45)
36440MF200	Standoff	440	2 (50,80)
* 36632MF025	Standoff	632	1/4 (6,35)
36632MF037	Standoff	632	3/8 (9,53)
36632MF050	Standoff	632	1/2 (12,70)
36632MF056	Standoff	632	9/16 (14,27)
36632MF062	Standoff	632	5/8 (15,88)
36632MF075	Standoff	632	3/4 (19,05)
36632MF087	Standoff	632	7/8 (22,22)
36632MF100	Standoff	632	1 (25,40)
36632MF112	Standoff	632	1 1/8 (28,58)
36632MF125	Standoff	632	1 1/4 (31,75)
36632MF131	Standoff	632	1 5/16 (33,32)
36632MF137	Standoff	632	1 3/8 (34,93)
36632MF150	Standoff	632	1 1/2 (38,10)
36632MF162	Standoff	632	1 5/8 (41,28)
36632MF175	Standoff	632	1 3/4 (44,45)
36632MF200	Standoff	632	2 (50,80)
** 36832MF025	Standoff	832	1/4 (6,35)
*** 36832MF037	Standoff	832	3/8 (9,53)
36832MF050	Standoff	832	1/2 (12,70)
36832MF062	Standoff	832	5/8 (15,88)
36832MF075	Standoff	832	3/4 (19,05)
36832MF087	Standoff	832	7/8 (22,22)
36832MF100	Standoff	832	1 (25,40)
36832MF112	Standoff	832	1 1/8 (28,58)
36832MF125	Standoff	832	1 1/4 (31,75)
36832MF137	Standoff	832	1 3/8 (34,93)
36832MF150	Standoff	832	1 1/2 (38,10)
36832MF162	Standoff	832	1 5/8 (41,28)
36832MF175	Standoff	832	1 3/4 (44,45)
36832MF200	Standoff	832	2 (50,80)

* B = .732
 ** B = .200
 *** B = .270

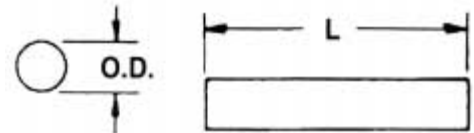
SPACERS

SECTION
V

MOLDED PLASTIC DOWELS

ITEM NUMBER	DESCRIPTION	O.D.	LENGTH
2500470125	047125	.047 (1,19)	1/8 (3,18)
2500470250	047250	.047 (1,19)	1/4 (6,35)
2500470375	047375	.047 (1,19)	3/8 (9,53)
2500470500	047500	.047 (1,19)	1/2 (12,70)
2500620125	062125	.062 (1,57)	1/8 (3,18)
2500620250	062250	.062 (1,57)	1/4 (6,35)
2500620375	062375	.062 (1,57)	3/8 (9,53)
2500620500	062500	.062 (1,57)	1/2 (12,70)
2500930125	093125	.093 (2,36)	1/8 (3,18)
2500930250	093250	.093 (2,36)	1/4 (6,35)
2500930375	093375	.093 (2,36)	3/8 (9,53)
2500930500	093500	.093 (2,36)	1/2 (12,70)
2501250125	125125	.125 (3,18)	1/8 (3,18)
2501250187	125187	.125 (3,18)	3/16 (4,76)
2501250250	125250	.125 (3,18)	1/4 (6,35)
2501250375	125375	.125 (3,18)	3/8 (9,53)
2501250500	125500	.125 (3,18)	1/2 (12,70)
2501870125	187125	.187 (4,75)	1/8 (3,18)
2501870250	187250	.187 (4,75)	1/4 (6,35)
2501870375	187375	.187 (4,75)	3/8 (9,53)
2501870500	187500	.187 (4,75)	1/2 (12,70)
2501870750	187750	.187 (4,75)	3/4 (19,05)
2502451250	245250	.245 (6,22)	1-1/4 (31,75)
2502100500	210500	.210 (5,33)	1/2 (12,70)
2502500125	250125	.250 (6,35)	1/8 (3,18)
2502500250	250250	.250 (6,35)	1/4 (6,35)
2502500375	250375	.250 (6,35)	3/8 (9,53)
2502500500	250500	.250 (6,35)	1/2 (12,70)
2502500750	250750	.250 (6,35)	3/4 (19,05)
2503120125	312125	.312 (7,92)	1/8 (3,18)
2503120250	312250	.312 (7,92)	1/4 (6,35)
2503120375	312375	.312 (7,92)	3/8 (9,53)
2503120500	312500	.312 (7,92)	1/2 (12,70)
2503120625	312625	.312 (7,92)	5/8 (15,88)
2503120750	312750	.312 (7,92)	3/4 (19,05)
2504370250	437250	.437 (11,10)	1/4 (6,35)

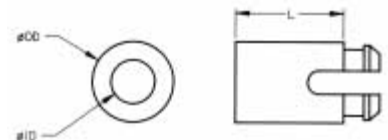
Uses include dowel pins, stop pins, insulating spacers, switch actuators, and keys. Natural color acetal plastic is standard though they may be molded of other materials. Other lengths are available.



NYLON SPECIAL SNAP-IN STANDOFF

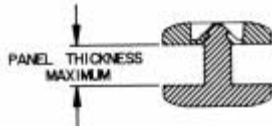


ITEM NUMBER	PANEL THICKNESS	HOLE SIZE	L	OD	ID
13SS003094	1/16" (1,58)	.187 (4,75)	.945 (24,0)	1/4" (6,35)	.106 (2,69)
13SS006025	1/16" (1,58)	.234 (5,95)	1/4" (6,35)	9/32" (7,14)	.153 (3,89)
13SS006037	1/16" (1,58)	.234 (5,95)	3/8" (9,53)	9/32" (7,14)	.153 (3,89)
13SS008037	1/16" (1,58)	.234 (5,95)	3/8" (9,53)	9/32" (7,14)	.169 (4,29)
13SS008050	1/16" (1,58)	.234 (5,95)	1/2" (12,70)	9/32" (7,14)	.169 (4,29)



PANEL FASTENERS AND HOLE PLUGS

SECTION VI



Micro Plastics' Mini Rivets consist of a male and female component. Mini Rivets are used to fasten a variety of materials. Simply press together for fast, easy assembly. Male and female rivets are packaged and sold separately. Mini Rivets are molded in natural Nylon 6/6 but are available in black upon request.

NYLON MINI RIVETS

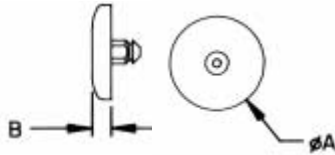


MALE MINI RIVET

PART NUMBER	DESCRIPTION	PANEL THICKNESS	A	B	POST DIAMETER
27MRM060010	MALE MINI RIVET	.010 (0,25)	1/4" (6,35)	.050 (1,27)	.060 (1,52)
27MRM060020	MALE MINI RIVET	.020 (0,51)	1/4" (6,35)	.050 (1,27)	.060 (1,52)
27MRM060030	MALE MINI RIVET	.030 (0,76)	1/4" (6,35)	.050 (1,27)	.060 (1,52)
27MRM060045	MALE MINI RIVET	.045 (1,14)	1/4" (6,35)	.050 (1,27)	.060 (1,52)
27MRM060062	MALE MINI RIVET	.062 (1,57)	1/4" (6,35)	.050 (1,27)	.060 (1,52)
27MRM060075	MALE MINI RIVET	.075 (1,91)	1/4" (6,35)	.050 (1,27)	.060 (1,52)

*27MRF06 FEMALE MINI RIVET 1/4" (6,35) .050 (1,27) .060 (1,52)

* FOR USE WITH ALL .060 MALE RIVETS

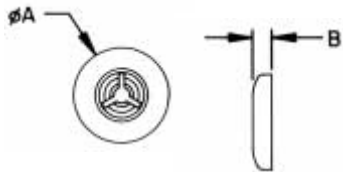


PART NUMBER	DESCRIPTION	PANEL THICKNESS	A	B	POST DIAMETER
27MRM090020	MALE MINI RIVET	.020 (0,51)	3/8" (9,53)	.075 (1,91)	.094 (2,39)
27MRM090032	MALE MINI RIVET	.032 (0,81)	3/8" (9,53)	.075 (1,91)	.094 (2,39)
27MRM090045	MALE MINI RIVET	.045 (1,14)	3/8" (9,53)	.075 (1,91)	.094 (2,39)
27MRM090062	MALE MINI RIVET	.062 (1,57)	3/8" (9,53)	.075 (1,91)	.094 (2,39)
27MRM090075	MALE MINI RIVET	.075 (1,91)	3/8" (9,53)	.075 (1,91)	.094 (2,39)
27MRM090090	MALE MINI RIVET	.090 (2,29)	3/8" (9,53)	.075 (1,91)	.094 (2,39)

*27MRF09 FEMALE MINI RIVET 3/8" (9,53) .075 (1,91) .094 (2,39)

* FOR USE WITH ALL .090 MALE RIVETS

FEMALE MINI RIVET



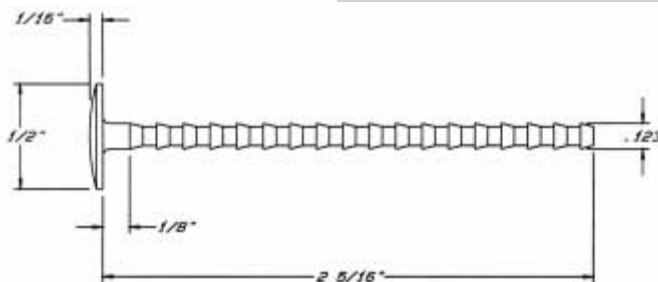
PART NUMBER	DESCRIPTION	PANEL THICKNESS	A	B	POST DIAMETER
27MRM125032	MALE MINI RIVET	.032 (0,81)	1/2" (12,70)	.100 (2,54)	.125 (3,18)
27MRM125045	MALE MINI RIVET	.045 (1,14)	1/2" (12,70)	.100 (2,54)	.125 (3,18)
27MRM125062	MALE MINI RIVET	.062 (1,57)	1/2" (12,70)	.100 (2,54)	.125 (3,18)
27MRM125093	MALE MINI RIVET	.093 (2,36)	1/2" (12,70)	.100 (2,54)	.125 (3,18)
27MRM125125	MALE MINI RIVET	.125 (3,18)	1/2" (12,70)	.100 (2,54)	.125 (3,18)
27MRM125187	MALE MINI RIVET	.187 (4,75)	1/2" (12,70)	.100 (2,54)	.125 (3,18)
27MRM125325	MALE MINI RIVET	.325 (8,26)	1/2" (12,70)	.100 (2,54)	.125 (3,18)
*27MRF12	FEMALE MINI RIVET		1/2" (12,70)	.100 (2,54)	.125 (3,18)

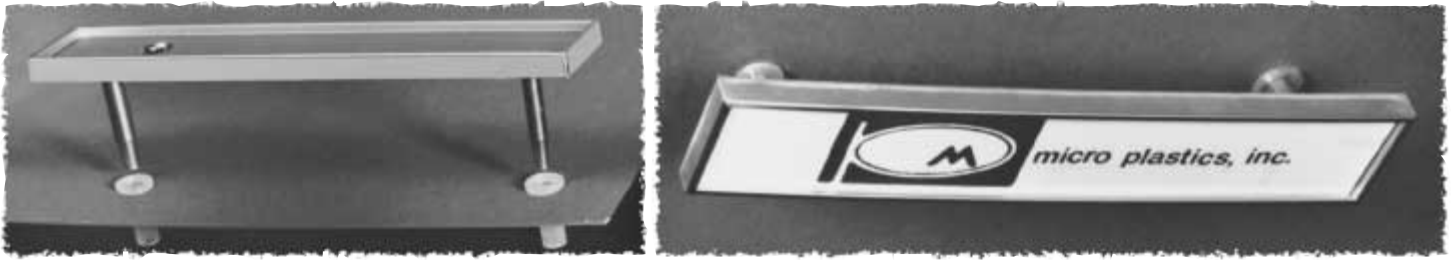
* FOR USE WITH ALL .125 MALE RIVETS

ADJUSTABLE MALE MINI RIVET

PART NUMBER	DESCRIPTION	COVERS A RANGE FROM
27AMR1252187	ADJUSTABLE MALE RIVET	1/8" to 2 3/16"

* FOR USE WITH \27MRF12 FEMALE MINI RIVET

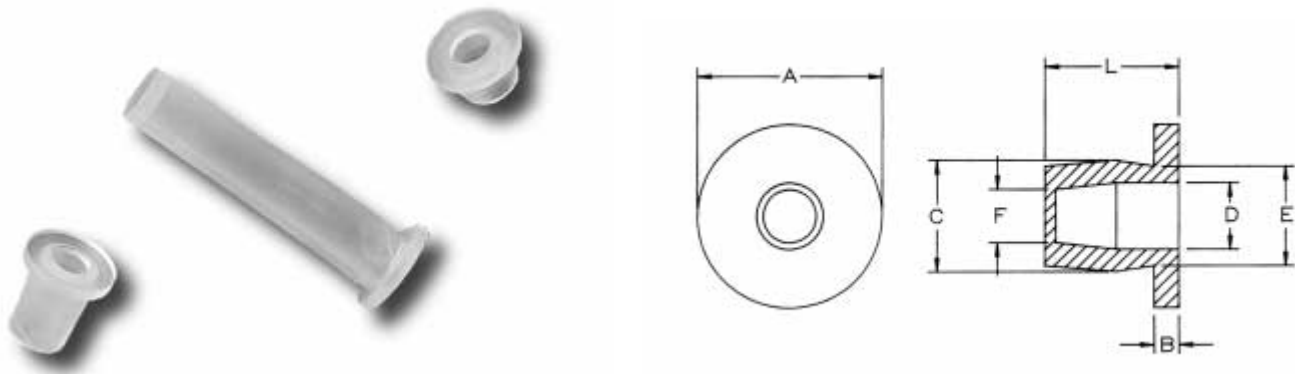




Micro Plastic's Tubular Emblem Clips or Speed Nut Clips offer a low substitute to the expensive all metal or metal/rubber clips.

These easily installed molded low density polyethylene clips eliminate paint and surface damage.

The inevitable rust associated with the sharp metal parts they replace is also eliminated by the electrically insulating, non-cathodic plastic clip.



TUBULAR EMBLEM CLIPS

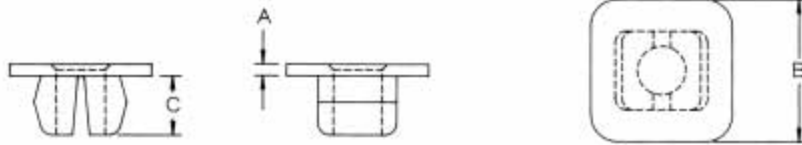
ITEM NUMBER	DESCRIPTION	A	B	C	D	E	F	L
60TC125250	1/8 X .250 TUBE CLIP	11/32	.046	.209	.125	.187	.100	.250
60TC155200	5/32 X .200 TUBE CLIP	11/32	.046	.239	.155	.220	.145	.200
60TC155360	5/32 X .360 TUBE CLIP	11/32	.046	.239	.155	.220	.125	.360
60TC155600	5/32 X .600 TUBE CLIP	11/32	.046	.239	.155	.220	.125	.600
60TC155112	5/32 X 1.12 TUBE CLIP	11/32	.046	.239	.155	.220	.125	1.12

PANEL FASTENERS AND HOLE PLUGS

SECTION VI

NYLON GROMMET NUTS

Micro Plastics' Open Poly Grommet Nuts provide a low cost, positive connection of thin gauge materials while they eliminate cross threading. The specially designed locks snap into a pre-punched square hole. As the self-threading sheet metal screw is tightened, the Poly Grommet expands and securely locks the screw and assembled parts in place. The Grommet will provide a corrosion and vibration resistant connection and can be used to insulate areas of an assembly from electrical and thermal transfer. Some of the more common sizes that we have initially tooled are shown below. Because of unique tooling approach, we can vary this design over a wide range. Request the size you need. Poly Grommets are molded in Nylon 6/6 and can be dyed or molded in various colors. Different plastic materials can be substituted. Naturally, changes in our standard product will involve additional costs. Let us know what you need.



SQUARE HEAD

PART NUMBER	HOLE SIZE		THICKNESS RANGE		SCREW	HEAD SIZE "B"		HEIGHT "A"		LENGTH "C"	
60SGN00001	.275/.290	(6,99/7,37)	.031/.125	(0,79/3,18)	8-10	3/8	(9,53)	.031	(0,79)	.320	(8,13)
60SGN00002	.275/.290	(6,99/7,37)	.031/.125	(0,79/3,18)	8-10	.375	(9,53)	.062	(1,57)	.320	(8,13)
60SGN00003	.275/.290	(6,99/7,37)	.031/.125	(0,79/3,18)	8-10	.375	(9,53)	.125	(3,18)	.320	(8,13)
60SGN00004	.275/.290	(6,99/7,37)	.031/.125	(0,79/3,18)	8-10	3/8	(9,53)	.250	(6,35)	.320	(8,13)
60SGN00005	.375	(9,53)	.031/.125	(0,79/3,18)	1/4	5/8	(15,88)	1-1/16	(2,70)	9/32	(7,14)
60SGN00006	.250/.260	(6,35/6,61)	.031/.115	(0,79/2,92)	6	.437	(11,10)	.094	(2,39)	.220	(5,59)
60SGN00007	.270/.270	(6,86/6,86)	.062/.275	(1,57/6,99)	6	.375/.500	(9,53)/(12,70)	.031	(0,79)	.435	(11,05)
60SGN00912	.225/.255	(5,71/6,48)	.031/.125	(0,79/3,18)	8	.375	(9,53)	.187	(4,75)	.300	(7,62)
60SGN00915	.245/.255	(6,22/6,48)	.031/.125	(0,79/3,18)	6-8	3/8	(9,53)	1/32	(0,79)	9/32	(7,14)
60SGN01000	.250/.255	(6,35/6,48)	.110/.125	(2,79/3,18)	6	.375	(9,53)	.031	(0,79)	.265	(6,73)
60SGN01012	.173/.178	(4,39/4,52)	.031/.078	(0,79/1,98)	4	.218	(5,54)	.250	(6,35)	.218	(5,54)
60SGN01014	.250/.270	(6,35/6,86)	.062/.155	(1,57/3,94)	6	.375	(9,53)	.032	(0,81)	.312	(7,92)
60SGN01016	.285	(7,24)	.078/.175	(1,98/4,45)	8	.380	(9,65)	.045	(1,14)	.340	(8,64)
60SGN01020	.275/.280	(6,99/7,11)	.040/.045	(1,02/1,14)	8-10	.370	(9,40)	.032	(0,81)	.330	(8,38)
60SGN01021	.375/.390	(9,53/9,91)	.230	(5,48)	1/4	5/8	(15,88)	.080	(2,03)	.438	(11,13)
60SGN01122	.350/.355	(8,89/9,02)	.218/.230	(5,54/5,84)	8-10	.475	(12,07)	.062	(1,57)	.421	(10,69)
60SGN01125	.370/.390	(9,40/9,91)	.064/.187	(1,57/4,75)	10	.609	(15,47)	.085	(2,16)	.290	(7,37)
60SGN01126	.305/.315	(7,75/8,00)	.031/.175	(0,79/4,44)	8	.470	(11,94)	.060	(1,52)	.300	(7,62)
60SGN01130	.370/.375	(9,40/9,52)	.031/.100	(0,79/2,54)	12	.620	(15,75)	.080	(2,03)	.275	(6,98)
60SGN01135	.173/.178	(4,39/4,52)	.031/.078	(0,79/1,98)	4	.218	(5,54)	.050	(1,27)	.218	(5,54)
60SGN01145	.270/.310	(6,85/7,87)	.031/.170	(0,79/4,32)	8	.405	(10,29)	.062	(1,57)	.312	(7,92)
60SGN01150	.310/.310	(7,87/7,87)	.031/.170	(0,79/4,32)	10	.465	(11,81)	.062	(1,57)	.295	(7,49)
60SGN01154	.320/.320	(8,13/8,13)	.031/.155	(0,79/3,94)	10	.650	(16,51)	.072	(1,83)	.305	(7,75)
60SGN01155	.245/.270	(6,22/6,85)	.047/.095	(1,19/2,41)	2	.375	(9,52)	.032	(0,81)	.240	(6,07)
60SGN01160	.335/.340	(8,52/8,64)	.062/.125	(1,58/3,17)	8	.512	(12,96)	.075	(1,90)	.315	(8,00)
60SGN01165	.270/.270	(6,86/6,86)	.062/.125	(1,58/3,17)	6	.390	(9,90)	.050	(1,27)	.275	(6,99)
60SGN01170	.275/.285	(6,90/7,24)	.031/.125	(0,79/3,17)	4	.375	(9,53)	.050	(1,27)	.218	(5,54)
60SGN01171	.200/.270	(5,08/6,86)	.032/.156	(0,81/3,96)	6	.312/.437	(7,93/11,1)	.035	(0,89)	.312	(7,93)
60SGN01175	.275/.280	(6,99/7,11)	.062/.120	(1,60/3,05)	6	.390	(9,90)	.055	(1,40)	.281	(7,14)
60SGN01176	.260/.270	(6,61/6,86)	.093/.187	(2,36/4,75)	6	.410	(10,41)	.040	(1,02)	.310	(7,87)
60SGN01178	.265	(6,73)	.047/.180	(1,19/4,57)	8	.375	(9,53)	.032	(0,81)	.327	(8,31)
60SGN01179	.365	(9,28)	.062/.120	(1,19/4,57)	1/4	5/8	(15,88)	.080	(2,04)	9/32	(7,14)
60SGN01180	.370/.375	(9,40/9,50)	.062/.120	(1,60/3,05)	1/4	.625	(15,90)	.080	(2,04)	.281	(7,14)
60SGN01181	.410/.410	(10,42/10,42)	.031/.062	(0,79/1,58)	1/4	.630	(16,00)	.140	(3,56)	.280	(7,12)
60SGN01185	.320/.335	(8,08/8,51)	.032/.234	(0,81/5,94)	10	.470	(11,94)	.055	(1,40)	.420	(10,67)
60SGN01190	.335/.345	(8,51/8,76)	.062/.171	(1,58/4,35)	10	.468	(11,88)	.095	(2,42)	.400	(10,16)
60SGN01195	.330/.365	(8,38/9,28)	.032/.095	(0,81/2,41)	8	.500	(12,70)	.094	(2,39)	.295	(7,50)
60SGN01200	.250/.260	(6,35/6,61)	.062/.125	(1,58/3,18)	6	.375	(9,53)	.140	(3,56)	.265	(6,73)

PANEL FASTENERS AND HOLE PLUGS

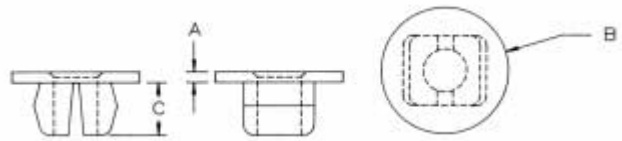
SECTION
VI

DOUBLE SPLIT SQUARE HEAD



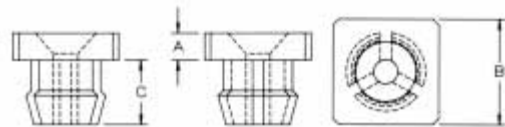
PART NUMBER	HOLE SIZE		THICKNESS RANGE		SCREW	HEAD SIZE "B"		HEIGHT "A"		LENGTH "C"	
60SGN01010	.377/.382	(9,58/9,70)	.125/.130	(3,18/3,30)	10	39/64	(15,48)	.082	(2,08)	.308	(7,82)
60SGN01015	.228/.233	(5,79/5,92)	.250/.271	(6,35/6,88)	8	.375	(9,53)	.031	(0,79)	.406	(10,31)
60SGN01018	.310/.315	(7,87/8,00)	.110/.115	(2,79/2,92)	8	.437	(11,10)	.078	(1,98)	.281	(7,14)
60SGN01019	.305/.310	(7,75/7,87)	.125/.135	(3,18/3,43)	8	.437	(11,10)	.062	(1,57)	.281	(7,14)
60SGN01025	.250/.250	(6,35/6,35)	.093/.275	(0,91/6,99)	8	.375	(9,53)	.047	(1,19)	.420	(10,67)
60SGN01128	.330/.330	(8,38/8,38)	.031/.125	(0,79/3,18)	8	.505	(12,83)	.032	(0,81)	.275	(6,98)
60SGN01030	.303	(7,70)	.031/.145	(0,79/3,68)	8-10	.435	(11,05)	.062	(1,57)	.270	(6,86)

ROUND HEAD



PART NUMBER	HOLE SIZE		THICKNESS RANGE		SCREW	HEAD SIZE "B"		HEIGHT "A"		LENGTH "C"	
60SGN00009	.270/.280	(6,86/7,11)	.062/.165	(1,57/4,19)	6	.375	(9,53)	.093	(2,36)	.297	(7,54)
60SGN00010	.275/.290	(6,99/7,37)	.031/.125	(0,79/3,18)	8-10	.500	(12,70)	.031	(0,79)	.320	(8,13)
60SGN00011	.271/.290	(6,88/7,37)	.031/.125	(0,79/3,18)	8-10	.500	(12,70)	.062	(1,57)	.320	(8,13)
60SGN00012	.271/.290	(6,88/7,37)	.031/.125	(0,79/3,18)	8-10	.500	(12,70)	.125	(3,18)	.320	(8,13)
60SGN00013	.275/.290	(6,99/7,37)	.031/.125	(0,79/3,18)	8-10	.500	(12,70)	.250	(6,35)	.320	(8,13)
60SGN00038	.275/.290	(6,99/7,37)	.031/.156	(0,79/3,96)	8	.500	(12,70)	.375	(9,53)	.320	(8,13)
60SGN00072	.275/.290	(6,99/7,37)	.031/.156	(0,79/3,96)	8-10	.500	(12,70)	.708	(17,98)	.315	(8,00)
60SGN00073	.280/.285	(7,11/7,24)	.032/.150	(0,81/3,81)	6	1/2	(12,70)	23/32	(18,26)	11/32	(8,73)
60SGN00100	.275/.290	(6,99/7,37)	.031/.156	(0,79/3,96)	8-10	.437	(11,10)	.032	(0,81)	.325	(8,26)
60SGN00818	.275/.290	(6,99/7,37)	.031/.109	(0,79/2,77)	8-10	.547	(13,89)	1.062	(26,97)	.281	(7,14)
60SGN01121	.350/.355	(8,89/9,27)	.032/.125	(0,81/3,185)	12	.531	(13,31)	.125	(3,18)	.281	(7,14)
60SGN01140	.310/.310	(7,87/7,87)	.031/.160	(0,79/4,06)	10	.500	(12,70)	.035	(0,89)	.292	(7,42)
60SGN02200	.425/.429	(10,80/10,90)	.031/.110	(0,79/2,79)	5/16	.740	(18,80)	.190	(4,83)	.312	(7,92)
60SGN02300	.415/4.30	(10,54/10,92)	.032/.135	(0,81/3,43)	1/4	.750	(19,05)	.062	(1,57)	.310	(7,87)
60SGN02400	.325/.330	(8,26/8,38)	.031/.156	(0,79/3,96)	10	.565	(14,35)	.062	(1,57)	.320	(8,13)
60SGN02500	.275	(6,99)	.062/.170	(1,57/4,32)	8	.495	(12,57)	.312	(7,92)	.325	(8,26)

THREE LEGGED SQUARE HEAD (Fits Round Hole)



PART NUMBER	HOLE SIZE		THICKNESS RANGE		SCREW	HEAD SIZE "B"		HEIGHT "A"		LENGTH "C"	
60SGN03300	.300/.300	(7,62/7,62)	.031/.135	(0,78/3,43)	6	.485	(12,32)	.055	(1,40)	.265	(6,73)

CLOSED



PART NUMBER	HOLE SIZE		THICKNESS RANGE		SCREW	HEAD SIZE "B"		HEIGHT "A"		LENGTH "C"	
60SGN04400**	.265/.280	(6,73/7,11)	.075/.145	(19,0/3,68)	6-8	.453	(11,51)	.096	(2,44)	.450	(11,43)
60SGN01402*	.355/.355	(9,02/9,02)	.062/.350	(1,57/8,81)	10	.700	(17,78)	.050	(1,27)	.685	(17,40)

*ROUND HEAD

**SQUARE HEAD

PANEL FASTENERS AND HOLE PLUGS

SECTION VI

Micro Plastics' Poly Grommets provide a low cost, positive connection for thin gauge materials while they eliminate the chance of cross-threading. The specially designed closed Poly Grommet snaps into a pre-punched square hole. As the self-threading sheet metal screw is tightened, the Poly Grommet expands and securely locks the screw and assembled parts in place. The metal screw is encapsulated by the Grommet, insulating it from electrical wiring and tubing while it guards against thermal and moisture transfer. The sizes shown were tooled initially for some of the more common applications. Micro Plastics, because of our unique tooling approach, can vary these designs over a very wide range. Request the size you need. We are very flexible. Poly Grommets can be dyed or molded in various colors. Different plastic materials can be substituted. Naturally, changes from our standard product will incur additional cost. Let us know what you need.



NYLON CLOSED SCREW STANDARD GROMMET NUTS

PART NUMBER	HOLE SIZE	PANEL THICKNESS RANGE	SCREW SIZE	HEAD SIZE "B"	HEIGHT "A"	LENGTH "C" (+/- .015)
60SGC00001	.270-.290	.020-.140	8-10	.375	.031	.540
60SGC00002	.270-.290	.020-.140	8-10	.375	.062	.540
60SGC00003	.270-.290	.020-.140	8-10	.375	.125	.540
60SGC00004	.270-.290	.020-.140	8-10	.375	.250	.540
60SGC00005	.309-.315	.020-.140	8-10	.437	.031	.540
60SGC00006	.309-.315	.020-.140	8-10	.437	.062	.540
60SGC00007	.309-.315	.020-.140	8-10	.437	.125	.540
60SGC00008	.309-.315	.020-.140	8-10	.437	.250	.540
60SGC00010	.250-.281	.020/.140	8-10	.375	.125	.438

NYLON CLOSED SCREW SPACER GROMMET NUTS

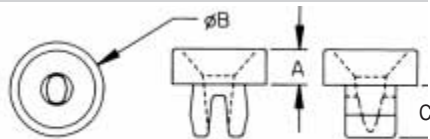
PART NUMBER	SPACER LENGTH	SPACER OD	HOLE SIZE	PANEL THICKNESS RANGE	SCREW SIZE	LOCK LENGTH "C" (+/- .015)
60SPG00001	.125	3/8"	.270-.290	.020-.140	8-10	.548
60SPG00002	.187	3/8"	.270-.290	.020-.140	8-10	.548
60SPG00003	.250	3/8"	.270-.290	.020-.140	8-10	.548
60SPG00004	.312	3/8"	.270-.290	.020-.140	8-10	.548
60SPG00005	.375	3/8"	.270-.290	.020-.140	8-10	.548
60SPG00006	.500	3/8"	.270-.290	.020-.140	8-10	.548

NYLON "SPECIAL ITEM" GROMMET NUTS

PART NUMBER	HOLE SIZE	PANEL THK. RANGE	SCREW SIZE	HEAD SIZE "B"	HEAD HEIGHT "A"	LOCK LENGTH "C"
401001	.355	.125-.275	10	.641	.048	.680
401002	.260-.265	.062-.437	8	.562	.050	.562
401003	.310	.031-.135	6	.465	.120	.286
401012	.230-.235	.125-.275	8	.375	.125	.406
401013	.285-.290	.109-.130	8	.455	1.50	.275
401018	.280	.056-.235	4	.531	.062	.640
401021	.275-.290	.093-.145	8	1/2	.187	.280
401024	.275-.290	.031-.140	6	.450	7/8	.280
401025	.275-.290	.062-.125	6	.405/.430	.073	.213

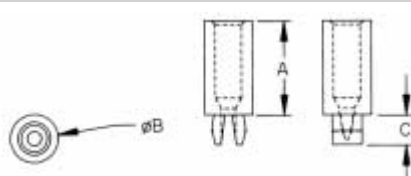
PART NUMBER

401021



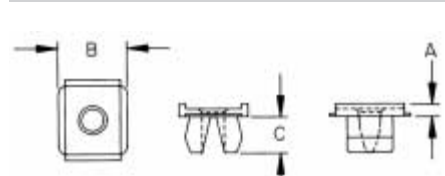
PART NUMBER

401024



PART NUMBER

401025



PANEL FASTENERS AND HOLE PLUGS

SECTION
VI



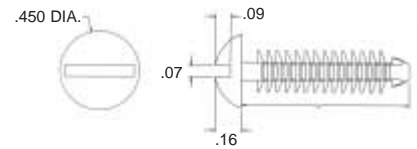
NYLON SPIN CLIPS - This design combines the advantages of a push-in type fastener with a screw. For fast assembly, the part can be pushed into a 1/4-20 threaded hole, and then screwed in for a tighter fit, or screwed out for disassembly.

This part will also function as a standard Fin Clip for use in a unthreaded hole with a diameter of approximately 13/64"

SPIN CLIPS - Slotted ROUND Head



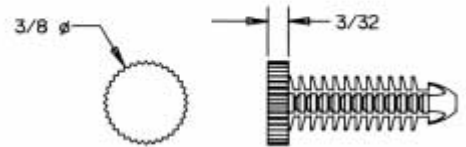
PART NUMBER	DESCRIPTION
27SC2520R037	1/4-20 X 3/8"
27SC2520R050	1/4-20 X 1/2"
27SC2520R062	1/4-20 X 5/8"
27SC2520R075	1/4-20 X 3/4"
27SC2520R100	1/4-20 X 1"



SPIN CLIPS - Unslotted KNURLED Head



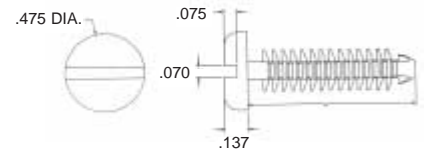
PART NUMBER	DESCRIPTION
27SC2520K037	1/4-20 X 3/8"
27SC2520K050	1/4-20 X 1/2"
27SC2520K062	1/4-20 X 5/8"
27SC2520K075	1/4-20 X 3/4"
27SC2520K100	1/4-20 X 1"



SPIN CLIPS - Slotted PAN Head

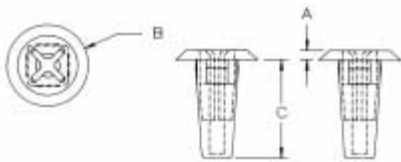


PART NUMBER	DESCRIPTION
27SC2520P037	1/4-20 X 3/8"
27SC2520P050	1/4-20 X 1/2"
27SC2520P062	1/4-20 X 5/8"
27SC2520P075	1/4-20 X 3/4"
27SC2520P100	1/4-20 X 1"

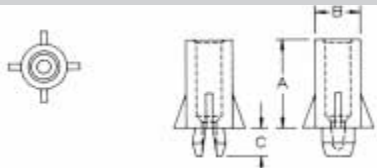


NYLON "SPECIAL ITEM" GROMMET NUTS

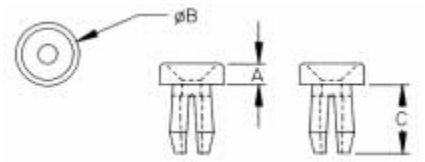
PART NUMBER
401018



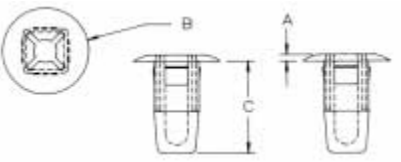
PART NUMBER
401013



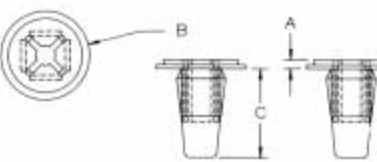
PART NUMBER
401012



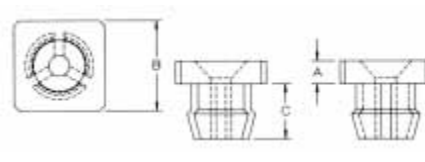
PART NUMBER
401001



PART NUMBER
401002



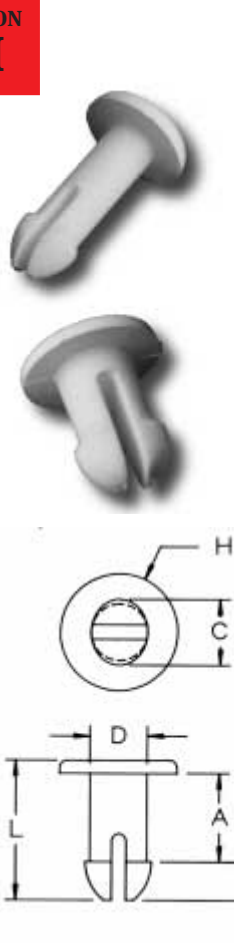
PART NUMBER
401003



PANEL FASTENERS AND HOLE PLUGS

SECTION VI

NYLON PUSH-IN-FASTENERS



Micro Plastics' Push-in Fasteners provide an inexpensive, fast, convenient method to join plastic, light sheet metal, insulating materials, circuit boards, or any other thin, light-weight material. They can also be used as push-in glides or as bumpers. Special designed legs provide compression and expansion to lock fastener into pre-punched holes. These fasteners are vibration, abrasion and corrosion resistant, and feature large heads for easier assembly, and can be used over and over.

PART NUMBER	DESC.	H	A	B	C	D	L
27PIF0013	PIF 13	3/16 (9,53)	.533 (13,54)	.087 (2,21)	.130 (3,30)	.095 (2,41)	.675 (17,15)
27PIF0014	PIF 14	.248 (6,30)	.813 (20,65)	.140 (3,56)	.144 (3,66)	.110 (2,79)	1.017 (25,83)
27PIF0015	PIF 15	21/64 (8,33)	.030 (0,76)	.130 (3,30)	.162 (4,12)	.152 (3,86)	.200 (5,08)
27PIF0017	PIF 17	11/32 (8,73)	.130 (3,30)	.110 (2,80)	.200 (5,08)	.160 (4,06)	.270 (6,86)
27PIF0018	PIF 18	13/64 (5,16)	.230 (5,84)	.098 (2,49)	.156 (3,96)	.128 (3,25)	.370 (9,40)
27PIF0019	PIF 19	1/4 (6,35)	.445 (11,30)	.085 (2,16)	.145 (3,68)	.095 (2,41)	.590 (14,99)
27PIF0020	PIF 20	15/64 (5,95)	.080 (2,03)	.080 (2,03)	.180 (4,57)	.124 (3,15)	.200 (5,08)
27PIF0021	PIF 21	.186 (4,72)	.200 (5,08)	.065 (1,65)	.104 (2,64)	.080 (2,03)	.297 (7,54)
27PIF0022	PIF 22	1/2 (12,70)	.064 (1,63)	.185 (4,70)	.280 (7,11)	.243 (6,17)	.370 (9,40)
27PIF0023	PIF 23	3/16 (4,75)	.075 (1,91)	.060 (1,52)	.150 (3,81)	.120 (3,05)	.190 (4,83)
27PIF0024	PIF 24	19/32 (15,08)	.365 (9,27)	.187 (4,75)	.295 (7,49)	.245 (6,22)	.685 (17,40)
27PIF0025	PIF 25	15/64 (5,95)	1.010 (25,65)	.082 (2,08)	.164 (4,17)	.124 (3,15)	1.13 (28,70)
27PIF0026	PIF 26	15/64 (5,95)	.080 (2,03)	.070 (1,78)	.180 (4,57)	.124 (3,15)	.205 (5,21)
27PIF0027	PIF 27	3/8 (9,52)	1.062 (26,97)	.177 (4,50)	.202 (5,13)	.165 (4,19)	1.303 (28,32)
27PIF0028	PIF 28	11/32 (8,73)	.875 (22,23)	.174 (4,42)	.224 (5,69)	.175 (4,45)	1.115 (28,32)
27PIF0029	PIF 29	13/64 (5,16)	.210 (5,33)	.091 (2,31)	.179 (4,55)	.130 (3,30)	.342 (8,69)
27PIF0031	PIF 31	25/64 (9,93)	.503 (12,78)	.210 (5,33)	.295 (7,49)	.230 (5,84)	1.083 (27,51)
27PIF0032	PIF 32	13/64 (5,16)	.235 (5,97)	.066 (1,68)	.145 (3,68)	.115 (2,92)	.341 (8,66)
27PIF0033	PIF 33	3/8 (9,52)	.505 (12,83)	.130 (3,30)	.200 (5,08)	.130 (3,30)	.705 (17,91)
27PIF0034	PIF 34	3/4 (19,05)	.636 (16,15)	.180 (4,57)	.220 (5,59)	.180 (4,57)	.875 (22,23)
27PIF0035	PIF 35	5/16 (7,94)	.125 (3,18)	.070 (1,78)	.110 (2,80)	.089 (2,26)	.235 (5,96)
27PIF0036	PIF 36	3/16 (4,75)	.066 (1,68)	.075 (1,91)	.100 (2,54)	.090 (2,29)	.179 (4,55)
27PIF0037	PIF 37	3/8 (9,52)	.636 (16,15)	.180 (4,57)	.220 (5,59)	.180 (4,57)	.875 (22,22)
27PIF0038*	PIF 38*	9/32 (7,14)	.063 (1,60)	.078 (1,98)	.100 (2,54)	.093 (2,36)	.165 (4,19)
27PIF0039	PIF 39	1/4 (6,35)	.115 (2,92)	.085 (2,16)	.145 (3,68)	.093 (2,36)	.240 (6,10)
27PIF0040*	PIF 40*	9/32 (7,14)	.093 (2,36)	.078 (1,98)	.105 (2,67)	.093 (2,36)	.200 (5,08)
27PIF0041*	PIF 41*	5/16 (7,94)	.121 (3,07)	.085 (2,16)	.145 (3,68)	.089 (2,26)	.246 (6,25)
27PIF0042	PIF 42	13/64 (5,16)	.190 (4,83)	.090 (2,29)	.180 (4,57)	.130 (3,30)	.320 (8,13)
27PIF0043	PIF 43	13/64 (5,16)	.156 (3,96)	.135 (3,43)	.140 (3,56)	.115 (2,92)	.320 (8,13)
27PIF0044	PIF 44	13/64 (5,16)	.135 (3,43)	.135 (3,43)	.140 (3,56)	.115 (2,92)	.295 (7,49)
27PIF0045	PIF 45	13/64 (5,16)	.235 (5,97)	.070 (1,79)	.137 (3,48)	.115 (2,92)	.350 (8,89)
27PIF0046	PIF 46	13/64 (5,16)	.250 (6,35)	.106 (2,69)	.145 (3,68)	.115 (2,92)	.395 (10,03)
27PIF0047	PIF 47	13/64 (5,16)	.121 (3,07)	.105 (2,67)	.145 (3,68)	.115 (2,92)	.260 (6,60)
27PIF0048	PIF 48	25/64 (9,93)	.315 (8,00)	.113 (2,87)	.208 (5,28)	.157 (3,99)	.488 (12,40)
27PIF0049	PIF 49	11/32 (8,73)	.450 (11,43)	.160 (4,06)	.200 (5,08)	.160 (4,06)	.680 (17,27)
27PIF0050	PIF 50	11/32 (8,73)	.125 (3,18)	.137 (3,48)	.202 (5,13)	.165 (4,19)	.305 (7,75)
27PIF0051	PIF 51	11/32 (8,73)	.065 (1,65)	.137 (3,48)	.202 (5,13)	.165 (4,19)	.325 (8,26)
27PIF0052	PIF 52	11/32 (8,73)	.556 (14,12)	.153 (3,89)	.225 (5,72)	.180 (4,57)	.780 (19,81)
27PIF0053	PIF 53	11/32 (8,73)	.242 (6,15)	.174 (4,42)	.224 (5,69)	.175 (4,45)	.490 (12,45)
27PIF0054	PIF 54	11/32 (8,73)	.197 (5,00)	.185 (4,70)	.295 (7,49)	.255 (6,48)	.415 (10,54)
27PIF0055	PIF 55	11/32 (8,73)	.555 (14,08)	.145 (3,68)	.225 (5,71)	.180 (4,57)	.770 (19,56)
27PIF0056	PIF 56	9/64 (3,56)	.315 (8,00)	.075 (1,91)	.135 (3,43)	.095 (2,41)	.450 (11,43)
27PIF0057	PIF 57	7/16 (11,10)	.120 (3,05)	.255 (6,48)	.380 (9,65)	.305 (7,74)	.445 (11,43)
27PIF0058	PIF 58	15/32 (11,90)	.121 (3,07)	.153 (3,86)	.238 (6,05)	.200 (5,08)	.324 (8,24)
27PIF0059	PIF 59	3/16 (4,75)	.145 (3,69)	.065 (1,65)	.105 (2,66)	.090 (2,29)	.255 (6,48)
27PIF0060	PIF 60	15/32 (11,90)	.156 (3,89)	.125 (3,18)	.228 (5,79)	.200 (5,05)	.333 (8,46)
27PIF0061	PIF 61	11/32 (8,73)	.370 (9,40)	.105 (2,67)	.236 (5,99)	.203 (5,16)	.540 (13,72)
27PIF0062	PIF 62	25/64 (9,93)	1.730 (43,94)	.210 (5,33)	.295 (7,49)	.230 (5,84)	2.010 (51,05)
27PIF0063	PIF 63	29/64 (11,51)	.276 (7,01)	.142 (3,61)	.295 (7,49)	.240 (6,10)	.460 (11,68)
27PIF0064	PIF 64	29/64 (11,51)	.300 (7,62)	.170 (4,32)	.295 (7,49)	.240 (6,10)	.535 (13,59)

* SLOT IS MISSING ON PIF 40 AND PIF 41

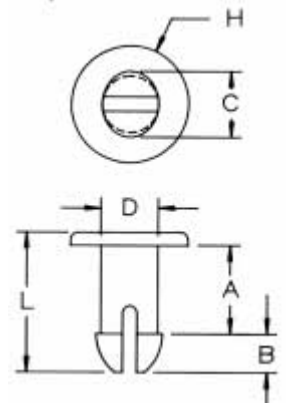
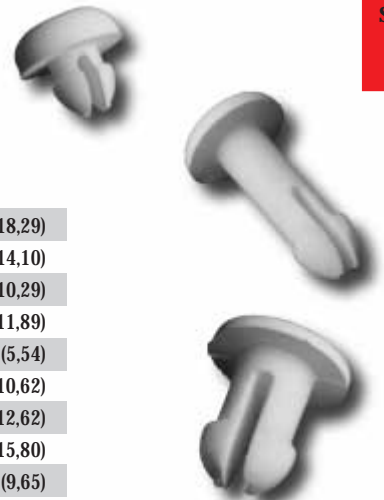
"L" DIMENSION (total length) = +/- .015".

PANEL FASTENERS AND HOLE PLUGS

SECTION
VI

NYLON PUSH-IN-FASTENERS

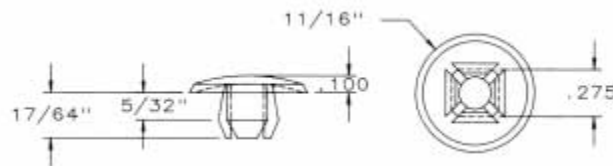
PART NUMBER	DESC.	H	A	B	C	D	L
27PIF0065	PIF 65	19/32 (15,08)	.480 (12,19)	.187 (4,75)	.293 (7,44)	.245 (6,22)	.720 (18,29)
27PIF0066	PIF 66	29/64 (11,51)	.330 (8,38)	.165 (4,19)	.295 (7,49)	.240 (6,10)	.555 (14,10)
27PIF0067	PIF 67	1/2 (12,70)	.171 (4,34)	.187 (4,75)	.295 (7,49)	.260 (6,60)	.405 (10,29)
27PIF0068	PIF 68	11/16 (17,45)	.140 (3,56)	.255 (6,48)	.360 (9,14)	.290 (7,37)	.468 (11,89)
27PIF0069*	PIF 69	.312 (7,92)	.095 (2,41)	.075 (1,91)	.145 (3,68)	.095 (2,41)	.218 (5,54)
27PIF0070	PIF 70	19/32 (15,08)	.171 (4,34)	.187 (4,75)	.295 (7,49)	.260 (6,60)	.418 (10,62)
27PIF0071	PIF 71	19/32 (15,08)	.250 (6,35)	.187 (4,75)	.300 (7,62)	.245 (6,22)	.497 (12,62)
27PIF0072	PIF 72	19/32 (15,08)	.365 (9,27)	.187 (4,75)	.290 (7,37)	.245 (6,22)	.622 (15,80)
27PIF0073	PIF 73	11/32 (8,73)	.171 (4,34)	.187 (4,75)	.295 (7,49)	.260 (6,60)	.380 (9,65)
27PIF0074	PIF 74	19/32 (15,08)	.405 (10,29)	.160 (4,06)	.315 (8,00)	.275 (6,99)	.620 (15,75)
27PIF0075	PIF 75	1/4 (6,35)	.550 (13,97)	.135 (3,43)	.145 (3,68)	.112 (2,84)	.745 (18,92)
27PIF0076	PIF 76	15/32 (11,90)	.129 (3,28)	.148 (3,76)	.238 (6,05)	.197 (5,00)	.399 (10,13)
27PIF0077	PIF 77	15/64 (5,95)	.320 (8,13)	.084 (2,13)	.145 (3,68)	.118 (3,00)	.437 (11,10)
27PIF0078	PIF 78	13/32 (10,32)	.250 (6,35)	.100 (2,54)	.278 (7,06)	.217 (5,51)	.395 (10,03)
27PIF0079	PIF 79	9/16 (14,29)	.950 (24,13)	.174 (4,42)	.228 (5,79)	.172 (4,37)	1.20 (30,48)
27PIF0080	PIF 80	3/8 (9,53)	1.258 (25,28)	.17 (4,32)	.202 (5,13)	.165 (4,19)	1.365 (34,67)
27PIF0081	PIF 81	.343 (8,71)	.125 (3,18)	.137 (3,48)	.202 (5,13)	.165 (4,19)	.31 (7,87)
27PIF0082	PIF 82	11/16 (17,45)	.250 (6,35)	.255 (6,48)	.360 (9,14)	.290 (7,37)	.585 (14,86)
27PIF0083	PIF 83	1/2 (12,70)	.064 (1,63)	.138 (3,51)	.280 (7,11)	.243 (6,17)	.262 (6,65)
27PIF0084	PIF 84	1/2 (12,70)	.099 (2,51)	.168 (4,27)	.280 (7,11)	.245 (6,22)	.324 (8,23)
27PIF0085	PIF 85	1/2 (12,70)	.127 (3,23)	.177 (4,50)	.281 (7,14)	.241 (6,12)	.361 (9,17)
27PIF0086	PIF 86	1/2 (12,70)	.156 (3,96)	.170 (4,32)	.281 (7,14)	.242 (6,15)	.380 (9,65)
27PIF0087	PIF 87	1/2 (12,70)	.189 (4,80)	.151 (3,84)	.278 (7,06)	.241 (6,12)	.395 (10,03)
27PIF0088	PIF 88	1/2 (12,70)	.219 (5,56)	.178 (4,52)	.277 (7,04)	.239 (6,07)	.445 (11,30)
27PIF0089	PIF 89	1/2 (12,70)	.250 (6,35)	.175 (4,45)	.283 (7,19)	.241 (6,12)	.487 (12,37)
27PIF0090	PIF 90	1/2 (12,70)	.281 (7,14)	.176 (4,47)	.280 (7,11)	.240 (6,10)	.513 (13,03)
27PIF0091	PIF 91	1/2 (12,70)	.314 (7,98)	.152 (3,86)	.281 (7,14)	.241 (6,12)	.520 (13,21)
27PIF0092	PIF 92	1/2 (12,70)	.345 (8,76)	.177 (4,50)	.281 (7,14)	.240 (6,10)	.578 (14,68)
27PIF0093	PIF 93	1/2 (12,70)	.375 (9,53)	.175 (4,45)	.281 (7,14)	.242 (6,15)	.609 (15,47)
27PIF0094	PIF 94	1/2 (12,70)	.405 (10,29)	.175 (4,45)	.282 (7,16)	.243 (6,17)	.638 (16,21)
27PIF0095	PIF 95	19/32 (15,08)	.130 (3,30)	.125 (3,18)	.205 (5,21)	.145 (3,68)	.305 (7,75)
27PIF0096	PIF 96	1/2 (12,70)	.466 (11,84)	.178 (4,52)	.280 (7,11)	.240 (6,10)	.701 (17,81)
27PIF0097	PIF 97	1/2 (12,70)	.498 (12,65)	.176 (4,47)	.280 (7,11)	.240 (6,10)	.734 (18,64)
27PIF0098	PIF 98	1/2 (12,70)	.438 (11,13)	.176 (4,47)	.281 (7,14)	.240 (6,10)	.672 (17,07)
27PIF0099	PIF 99	1/2 (12,70)	1.020 (25,91)	.380 (9,65)	.475 (12,07)	.350 (8,89)	1.460 (37,08)
27PIF0100	PIF 100	3/8 (9,53)	1.543 (39,19)	.205 (5,21)	.295 (7,49)	.250 (6,35)	1.875 (47,63)
27PIF0101	PIF 101	.680 (17,28)	.154 (3,91)	.255 (6,48)	.347 (8,81)	.285 (7,24)	.473 (12,01)
27PIF0102	PIF 102	.300 (7,62)	.050 (1,27)	.137 (3,48)	.202 (5,13)	.165 (4,19)	.337 (8,56)
27PIF0105	PIF 105	5/8 (15,88)	1.065 (27,05)	.360 (9,14)	.360 (9,14)	.270 (6,86)	1.50 (38,10)



Micro Plastics' Push-in Fasteners provide an inexpensive, fast, convenient method to join plastic, light sheet metal, insulating materials, circuit boards, or any other thin, light-weight material. They can also be used as push-in glides or as bumpers. Special designed legs provide compression and expansion to lock fastener into pre-punched holes. These fasteners are vibration, abrasion and corrosion resistant, and feature large heads for easier assembly, and can be used over and over.

NYLON "SPECIAL ITEM" PUSH-IN-FASTENERS

PART NUMBER
401005



PANEL FASTENERS AND HOLE PLUGS

SECTION VI

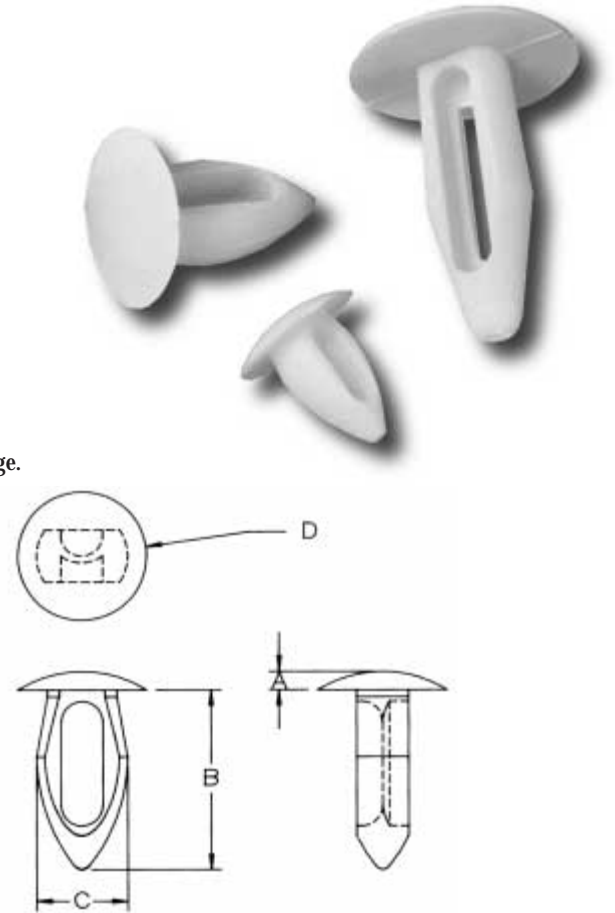
Micro Plastics' Arrow Clips are reusable, molded nylon fasteners that feature an inexpensive fast method to hand assemble metal, wood, plastic, composition or other thin-gauge materials.

The specially designed body compresses as it is forced through a prepunched hole and springs back to its original shape to lock the assembled parts securely.

The versatile clips can be disassembled and reused again and again. They provide an economical, electrical insulating, vibration, abrasion, and corrosion resistant connection.

The following are some of the more common sizes. Because of Micro Plastics' unique tooling approach, designs can be varied over a wide range.

Request the size you need.



NYLON ARROW CLIPS

PNEUMATIC POWER TOOLS ARE AVAILABLE FOR VOLUME USERS.

PART NUMBER	DESC.	HOLE SIZE	PANEL THICKNESS RANGE	HEAD DIA. D	HEAD HEIGHT A	LENGTH B	CLIP DIA. C
27AC0001	AC 1	.182/.192 (4,62/4,88)	.062/.125 (1,57/3,18)	.360 (9,14)	.060 (1,52)	.400 (10,16)	.225 (5,72)
27AC0002	AC 2	.131/.135 (3,33/3,43)	.062/.125 (1,57/3,18)	.270 (6,86)	.060 (1,52)	.395 (10,03)	.160 (4,06)
27AC0003	AC 3	.151/.161 (3,84/4,09)	.062/.125 (1,57/3,18)	.280 (7,11)	.040 (1,02)	.390 (9,91)	.196 (4,98)
27AC0004	AC 4	.151/.161 (3,84/4,09)	.062/.145 (1,57/3,68)	.280 (7,11)	.080 (2,03)	.400 (10,16)	.180 (4,57)
27AC0005	AC 5	.213/.223 (5,41/5,66)	.125/.187 (3,18/4,75)	.370 (9,40)	.060 (1,52)	.540 (13,72)	.248 (6,30)
27AC0006	AC 6	.182/.192 (4,62/4,88)	.310/.330 (7,87/8,38)	.370 (9,40)	.060 (1,52)	.540 (13,72)	.225 (5,72)
27AC0007	AC 7	.213/.223 (5,41/5,66)	.062/.125 (1,57/3,18)	.370 (9,40)	.060 (1,52)	.450 (11,43)	.225 (5,72)
27AC0009	AC 9	.250/.260 (6,39/6,60)	.125/.187 (3,18/4,75)	.484 (12,29)	.060 (1,52)	.575 (14,61)	.290 (7,37)
27AC0010	AC 10	.062/.065 (1,57/1,65)	.010/.031 (0,25/0,79)	.100 (2,54)	.020 (0,51)	.125 (3,18)	.068 (1,73)
27AC0011	AC 11	.182/.192 (4,62/4,88)	.165/.185 (4,19/4,70)	.375 (9,53)	.060 (1,52)	.525 (13,33)	.206 (5,23)
27AC0012	AC 12	.195/.200 (4,95/5,08)	.035/.065 (0,89/1,65)	.370 (9,40)	.060 (1,52)	.350 (8,89)	.225 (5,72)
27AC0013	AC 13	.130/.132 (3,30/3,35)	.125/.140 (3,18/3,56)	.270 (6,86)	.070 (1,78)	.310 (7,87)	.162 (4,11)
27AC0014	AC 14	.145/.150 (3,68/3,71)	.290/.300 (7,37/7,62)	.270 (6,86)	.070 (1,78)	.530 (13,46)	.196 (4,98)
27AC0015	AC 15	.118/.122 (3,00/3,10)	.062/.125 (1,57/3,18)	.280 (7,11)	.060 (1,52)	.390 (9,91)	.150 (3,71)
27AC0016	AC 16	.250/.260 (6,35/6,60)	.360/.380 (9,14/9,65)	.615 (15,62)	.065 (1,65)	.810 (20,57)	.286 (7,26)
27AC0017	AC 17	.320/.335 (8,38/8,50)	.062/.340 (1,57/8,63)	.683 (17,35)	.070 (1,78)	.900 (22,86)	.375 (9,52)
27AC0018	AC 18	.160/.165 (4,06/4,19)	.032/.125 (0,81/3,18)	.280 (7,11)	.080 (2,03)	.400 (10,16)	.186 (4,72)
27AC0019	AC 19	.330/.340 (8,38/8,64)	.125/.350 (3,18/8,88)	.685 (17,45)	.070 (0,75)	.895 (22,74)	.375 (9,53)
27AC0020	AC 20	.120/.135 (3,02/3,43)	.062/.125 (1,58/3,18)	.270 (6,86)	.040 (1,01)	.330 (8,38)	.140 (3,56)
27AC0021	AC 21	.250/.260 (6,35/6,57)	.125/.250 (3,18/6,35)	.500 (12,70)	.050 (1,27)	.630 (16,0)	.280 (7,12)
27AC0022	AC 22	.085/.090 (2,16/2,29)	.032/.107 (0,81/2,72)	.125 (3,18)	.030 (0,76)	.187 (4,75)	.107 (2,72)
27AC0023	AC 23	.335/.345 (8,51/8,76)	.062/.140 (1,57/3,56)	.866 (22,00)	.050 (1,27)	.458 (11,63)	.370 (9,40)
27AC0024	AC 24	.250/.260 (6,25/6,60)	.500/.750 (12,7/19,1)	.610 (15,49)	.068 (1,73)	1.135 (28,83)	.287 (7,29)

PANEL FASTENERS AND HOLE PLUGS

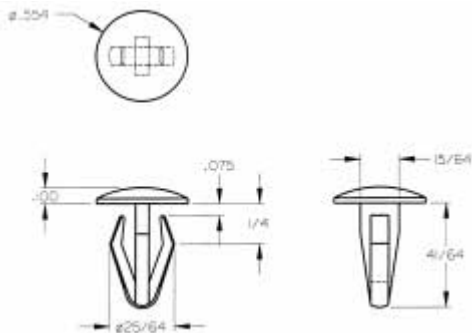
Micro Plastics' Special Item Arrow Clips are designed to provide unique fasteners for assembly applications where larger panel thicknesses and or mounting diameters combined with increased fastening strength is required. Molded from UL 94V-2 Nylon 66 for corrosion, abrasion and vibration resistance.



NYLON "SPECIAL ITEM" ARROW CLIPS

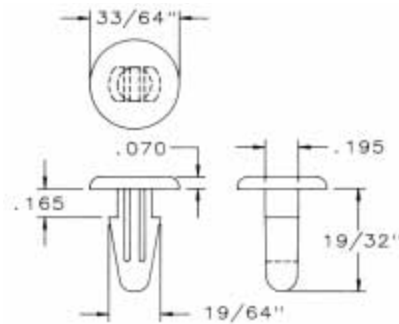
PART NUMBER

401006



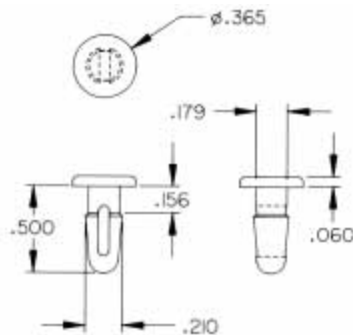
PART NUMBER

401010



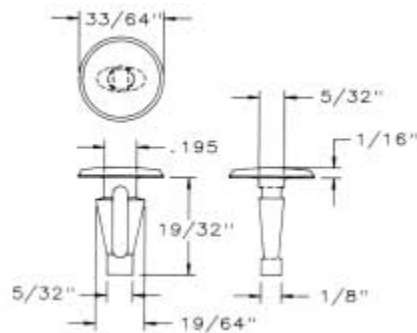
PART NUMBER

401011



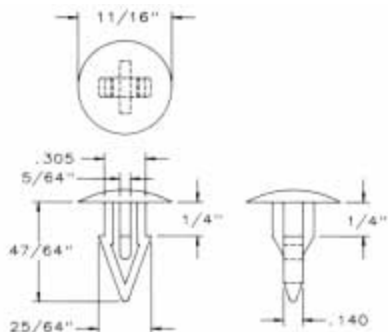
PART NUMBER

401014



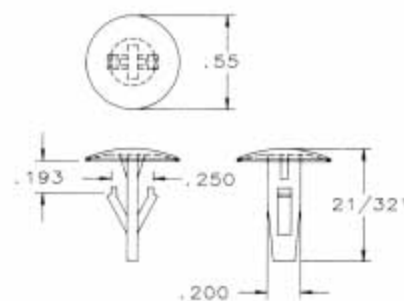
PART NUMBER

401015



PART NUMBER

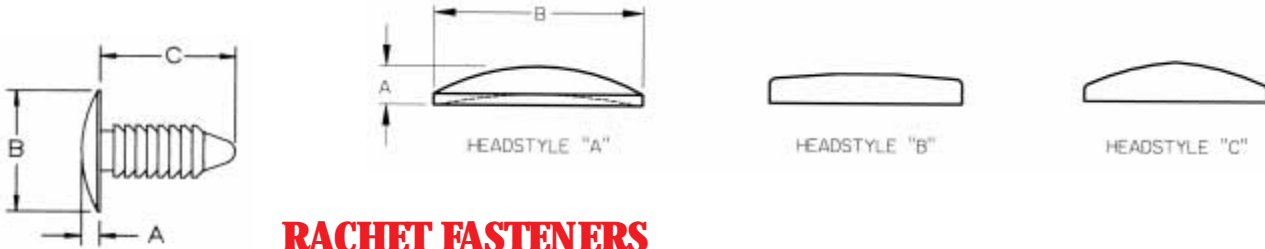
401020



PANEL FASTENERS AND HOLE PLUGS

SECTION VI

Micro Plastics' Ratchet Fasteners are designed to provide an economical fastening method over a wide range of panel thicknesses and materials. The easy hand installation assures a quick assembly and a strong and reliable finished product. Parts are molded in Black Nylon 6/6



RACHET FASTENERS



PART NUMBER	HOLE SIZE	PANEL THK. RANGE	HEADSTYLE	HEAD SIZE "B"	HEAD HEIGHT "A"	LOCK LENGTH "C"
27RT187500	.187 (4,75)	.025/.365 (0,64/9,27)	"A"	.375 (9,53)	.070 (1,78)	.500 (12,70)
27RT187550	.187 (4,75)	.030/.330 (0,76/8,38)	"B"	.435 (11,05)	.068 (1,73)	.562 (14,27)
*27RT187700PPB	.187 (4,75)	.125/.450 (3,18/11,43)	"C"	.300 (7,22)	.065 (1,65)	.700 (17,78)
27RT250800	.250 (6,35)	.150/.535 (3,81/13,51)	"A"	.700 (17,78)	.107 (2,71)	.783 (18,88)
27RT2811000	.281 (7,13)	.093/.500 (2,36/12,70)	"A"	.625 (15,87)	.110 (2,79)	.890 (22,61)

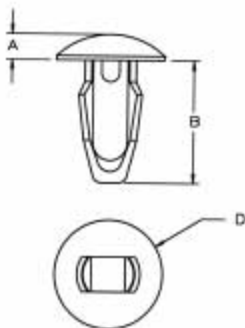
* PART MOLDED IN BLACK POLYPROPYLENE * HEAD WILL HAVE A TEXTURED FINISH

SNAP CLIPS

A combination of Celcon Acetal material, and a resilient body design, give these parts a positive "snap" and more definite grip when assembled into place.



Designed for other hole sizes from 1/8" to 1/4" and panel thicknesses from 1/32" to 3/16".



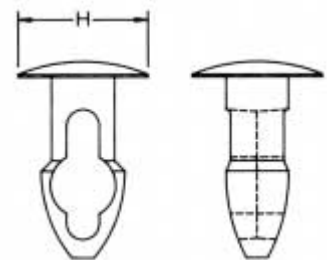
PART NUMBER	A	B	D	HOLE SIZE	PANEL THICKNESS
27SNC1250032	.060 (1,52)	1/4 (6,35)	1/4 (6,35)	.125 (3,18)	.032 (0,81)
27SNC1250062	.060 (1,52)	9/32 (7,14)	1/4 (6,35)	.125 (3,18)	.062 (1,57)
27SNC1250093	.060 (1,52)	5/16 (7,94)	1/4 (6,35)	.125 (3,18)	.093 (2,36)
27SNC1250125	.060 (1,52)	11/32 (8,73)	1/4 (6,35)	.125 (3,18)	.125 (3,18)
27SNC1560032	.060 (1,52)	9/32 (7,14)	5/16 (7,94)	.156 (3,96)	.032 (0,81)
27SNC1560062	.060 (1,52)	5/16 (7,94)	5/16 (7,94)	.156 (3,96)	.062 (1,57)
27SNC1560093	.060 (1,52)	11/32 (8,73)	5/16 (7,94)	.156 (3,96)	.093 (2,36)
27SNC1560125	.060 (1,52)	3/8 (9,53)	5/16 (7,94)	.156 (3,96)	.125 (3,18)
27SNC1560156	.060 (1,52)	13/32 (10,32)	5/16 (7,94)	.156 (3,96)	.156 (3,96)
27SNC1870032	.060 (1,52)	5/16 (7,94)	5/16 (7,94)	.187 (4,75)	.032 (0,81)
27SNC1870062	.060 (1,52)	11/32 (8,73)	5/16 (7,94)	.187 (4,75)	.062 (1,57)
27SNC1870093	.060 (1,52)	3/8 (9,53)	5/16 (7,94)	.187 (4,75)	.093 (2,36)
27SNC1870125	.060 (1,52)	13/32 (10,32)	5/16 (7,94)	.187 (4,75)	.125 (3,18)
27SNC1870156	.060 (1,52)	7/16 (11,11)	5/16 (7,94)	.187 (4,75)	.156 (3,96)
27SNC1870187	.060 (1,52)	15/32 (11,91)	5/16 (7,94)	.187 (4,75)	.187 (4,75)
27SNC2190032	.060 (1,52)	25/64 (9,93)	11/32 (8,73)	.219 (5,56)	.032 (0,81)
27SNC2190062	.060 (1,52)	27/64 (10,72)	11/32 (8,73)	.219 (5,56)	.062 (1,57)
27SNC2190093	.060 (1,52)	29/64 (11,51)	11/32 (8,73)	.219 (5,56)	.093 (2,36)
27SNC2190125	.060 (1,52)	31/64 (12,30)	11/32 (8,73)	.219 (5,56)	.125 (3,18)
27SNC2190156	.060 (1,52)	33/64 (13,11)	11/32 (8,73)	.219 (5,56)	.156 (3,96)
27SNC2190187	.060 (1,52)	35/64 (13,89)	11/32 (8,73)	.219 (5,56)	.187 (4,75)
27SNC2500032	.060 (1,52)	13/32 (10,32)	1/2 (12,70)	.250 (6,35)	.032 (0,81)
27SNC2500062	.060 (1,52)	27/64 (10,72)	1/2 (12,70)	.250 (6,35)	.062 (1,57)
27SNC2500093	.060 (1,52)	29/64 (11,51)	1/2 (12,70)	.250 (6,35)	.093 (2,36)
27SNC2500125	.060 (1,52)	31/64 (12,30)	1/2 (12,70)	.250 (6,35)	.125 (3,18)
27SNC2500156	.060 (1,52)	33/64 (13,11)	1/2 (12,70)	.250 (6,35)	.156 (3,96)
27SNC2500187	.060 (1,52)	35/64 (13,89)	1/2 (12,70)	.250 (6,35)	.187 (4,75)

NYLON KEY-HOLE CLIPS

PART NUMBER	"H" HEAD DIAMETER	HOLE SIZE	PANEL THICKNESS
27KY1250093	1/4" (6,35)	.125 (3,18)	.093 (2,36)
27KY1250125	1/4" (6,35)	.125 (3,18)	.125 (3,18)
27KY1250156	1/4" (6,35)	.125 (3,18)	.156 (3,96)
27KY1250187	1/4" (6,35)	.125 (3,18)	.188 (4,78)
27KY1250219	1/4" (6,35)	.125 (3,18)	.219 (5,56)
27KY1250250	1/4" (6,35)	.125 (3,18)	.250 (6,35)
27KY1560093	5/16" (7,94)	.156 (3,96)	.093 (2,36)
27KY1560125	5/16" (7,94)	.156 (3,96)	.125 (3,18)
27KY1560156	5/16" (7,94)	.156 (3,96)	.156 (3,96)
27KY1560187	5/16" (7,94)	.156 (3,96)	.187 (4,75)
27KY1560218	5/16" (7,94)	.156 (3,96)	.218 (5,54)
27KY1560250	5/16" (7,94)	.156 (3,96)	.250 (6,35)
27KY1560281	5/16" (7,94)	.156 (3,96)	.281 (7,14)
27KY1560312	5/16" (7,94)	.156 (3,96)	.312 (7,92)
27KY1560343	5/16" (7,94)	.156 (3,96)	.343 (8,71)
27KY1560375	5/16" (7,94)	.156 (3,96)	.375 (9,53)
27KY1870093	5/16" (7,94)	.187 (4,75)	.093 (2,36)
27KY1870125	5/16" (7,94)	.187 (4,75)	.125 (3,18)
27KY1870156	5/16" (7,94)	.187 (4,75)	.156 (3,96)
27KY1870187	5/16" (7,94)	.187 (4,75)	.187 (4,75)
27KY1870219	5/16" (7,94)	.187 (4,75)	.219 (5,56)
27KY1870250	5/16" (7,94)	.187 (4,75)	.250 (6,35)
27KY18702507	15/32"(11,89)	.187 (4,75)	.250 (6,35)
27KY1870281	5/16" (7,94)	.187 (4,75)	.281 (7,14)
27KY1870312	5/16" (7,94)	.187 (4,75)	.312 (7,92)
27KY1870343	5/16" (7,94)	.187 (4,75)	.344 (8,74)
27KY1870375	5/16" (7,94)	.187 (4,75)	.375 (9,53)
27KY2190093	11/32" (8,73)	.219 (5,56)	.093 (2,36)
27KY2190125	11/32" (8,73)	.219 (5,56)	.125 (3,18)
27KY2190156	11/32" (8,73)	.219 (5,56)	.156 (3,96)
27KY2190187	11/32" (8,73)	.219 (5,56)	.187 (4,78)
27KY2190219	11/32" (8,73)	.219 (5,56)	.219 (5,56)
27KY2190250	11/32" (8,73)	.219 (5,56)	.250 (6,35)
27KY2190281	11/32" (8,73)	.219 (5,56)	.281 (7,14)
27KY2190312	11/32" (8,73)	.219 (5,56)	.312 (7,92)
27KY2500093	1/2" (12,70)	.250 (6,35)	.093 (2,36)
27KY2500125	1/2" (12,70)	.250 (6,35)	.125 (3,18)
27KY2500156	1/2" (12,70)	.250 (6,35)	.156 (3,96)
27KY2500187	1/2" (12,70)	.250 (6,35)	.187 (4,75)
27KY2500219	1/2" (12,70)	.250 (6,35)	.219 (5,56)
27KY2500250	1/2" (12,70)	.250 (6,35)	.250 (6,35)
27KY2500281	1/2" (12,70)	.250 (6,35)	.281 (7,14)
27KY2500312	1/2" (12,70)	.250 (6,35)	.312 (7,92)
27KY2500343	1/2" (12,70)	.250 (6,35)	.343 (8,71)
27KY2500375	1/2" (12,70)	.250 (6,35)	.375 (9,53)
27KY2500406	1/2" (12,70)	.250 (6,35)	.406 (10,31)
27KY2500437	1/2" (12,70)	.250 (6,35)	.437 (11,10)
27KY2500468	1/2" (12,70)	.250 (6,35)	.468 (11,89)
27KY2500500	1/2" (12,70)	.250 (6,35)	.500 (12,70)



This panel fastener incorporates a new design. The key-hole shaped interior allows the part to collapse more completely for easy assembly with finger pressure. Tapered, bullet-style point slides into hole easily. Angled panel lock section takes up slack in panels to provide for a tight assembly. The design allows for a relatively large clip diameter to hole size ratio, resulting in higher retention force. Parts can be tooled for a large variety of hole and panel variations.

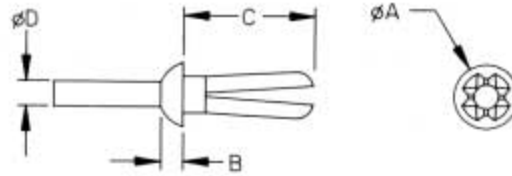


PANEL FASTENERS AND HOLE PLUGS

SECTION VI

Micro Plastics' Poly Rivets are one-piece nylon blind rivets that offer a fast economical, permanent, fastener that can be used in a wide variety of materials including sheet metal, plastic sheets, fiberglass, P.C. boards and composites. Fast, easy installation can be made without tools from one side of the work piece. The rivet is inserted in a pre-punched hole and the drive pin is forced into the specially designed legs, with a drive rivet tool, which expand and securely locks the assembled components in place. The versatile Poly Rivet provides a secure joint even under extreme vibration conditions while it electrically insulates and resists corrosion and cathodic transfer. The following are some of the more common sizes available. Because of Micro Plastics' unique tooling approach, designs can be varied over a wide range: diameter, head style and lengths can be adjusted to meet your requirements.

Let us know what you need.



NYLON POLY DRIVE RIVETS

PART NUMBER	NOMINAL HOLE	PANEL THICKNESS RANGE	HEAD STYLE	HEAD DIA. "A"	HEAD HEIGHT "B"	LOCK LENGTH "C"	PIN DIA. "D"
61PR100000	.218 (5,54)	.093/.350 (2,36/9,53)	Round	.375 (9,53)	.080 (2,03)	.450 (11,43)	.120 (3,05)
61PR100100	.156 (3,96)	.187/.250 (4,75/6,35)	Binder	.218 (5,54)	.050 (1,27)	.312 (7,92)	.093 (2,36)
61PR100200	.218 (5,54)	.094/.312 (2,39/7,92)	Binder	.437 (11,10)	.100 (2,54)	.464 (11,79)	.125 (3,18)
61PR100300	.156 (3,96)	.218/.312 (5,54/7,92)	Binder	.218 (5,54)	.050 (1,27)	.359 (9,12)	.093 (2,36)
61PR100400	.187 (4,75)	.062/.187 (1,57/4,75)	Truss	.281 (7,14)	.050 (1,27)	.296 (7,52)	.125 (3,18)
61PR100800	.156 (3,96)	.218/.383 (5,54/9,73)	Binder	.218 (5,54)	.050 (1,27)	.421 (10,69)	.093 (2,36)
61PR200000	.187 (4,75)	.156/.281 (3,96/7,14)	Truss	.430 (10,92)	.075 (1,91)	.380 (9,65)	.125 (3,18)
61PR200100	.187 (4,75)	.062/.125 (1,57/3,18)	Binder	.430 (10,92)	.120 (3,05)	.218 (5,54)	.125 (3,18)
61PR200200	.187 (4,75)	.125/.187 (3,18/4,75)	Truss	.430 (10,92)	.075 (1,91)	.281 (7,14)	.125 (3,18)
61PR200300	.187 (4,75)	.062/.187 (1,57/4,75)	Truss	.430 (10,92)	.075 (1,91)	.285 (7,24)	.125 (3,18)
61PR200800	.187 (4,75)	.031/.200 (0,79/5,08)	Round	.275 (6,98)	.075 (1,91)	.295 (7,49)	.125 (3,18)
61PR300000	.187 (4,75)	.312/.440 (7,92/11,18)	Binder	.281 (7,14)	.075 (1,91)	.535 (13,59)	.125 (3,18)
61PR300100	.187 (4,75)	.062/.187 (1,57/4,75)	Round	.281 (7,14)	.075 (1,91)	.295 (7,49)	.125 (3,18)
61PR300200	.187 (4,75)	.062/.125 (1,57/3,18)	Round	.281 (7,14)	.075 (1,91)	.230 (5,84)	.125 (3,18)
61PR300300	.187 (4,75)	.078/.375 (1,98/9,53)	Round	.281 (7,14)	.047 (1,19)	.450 (11,43)	.125 (3,18)
61PR300400	.187 (4,75)	.312/.440 (7,92/11,18)	Round	.320 (8,13)	.109 (2,77)	.535 (13,59)	.125 (3,18)
61PR300500	.187 (4,75)	.375/.500 (9,53/12,70)	Binder	.281 (7,14)	.080 (2,03)	.625 (15,88)	.125 (3,18)
61PR300600	.187 (4,75)	.078/.375 (1,98/9,50)	Round	.320 (8,13)	.109 (2,77)	.455 (11,56)	.125 (3,18)
61PR300900	.275 (6,99)	.062/.600 (1,57/15,24)	Round	.370 (9,40)	.080 (2,03)	.640 (16,26)	.150 (3,81)
61PR300700	.187 (4,75)	.375/.500 (9,53/12,70)	Round	.320 (8,13)	.109 (2,77)	.609 (15,47)	.125 (3,18)
61PR300800*	.187 (4,75)	.375/.750 (9,53/19,05)	Round	.320 (8,13)	.109 (2,77)	.850 (21,59)	.125 (3,18)
61PR400000	.250 (6,35)	.350/.500 (8,89/12,70)	Binder	.468 (11,89)	.080 (2,03)	.620 (15,75)	.150 (3,81)
61PR400100	.250 (6,35)	.350/.500 (8,89/12,70)	Round	.370 (9,40)	.080 (2,03)	.620 (15,75)	.150 (3,81)
61PR400200	.250 (6,35)	.156/.330 (3,96/8,38)	Binder	.468 (11,89)	.080 (2,03)	.375 (9,53)	.155 (3,94)
61PR400300	.250 (6,35)	.093/.312 (2,36/7,92)	Binder	.468 (11,89)	.080 (2,03)	.500 (12,70)	.150 (3,81)
61PR400400	.187 (4,75)	.312/.440 (7,92/11,18)	Binder	.312 (7,92)	.062 (1,57)	.535 (13,59)	.125 (3,18)
61PR400500	.187 (4,75)	.375/.500 (9,53/12,70)	Binder	.315 (8,00)	.062 (1,57)	.609 (15,47)	.125 (3,18)

*61PR300800 WILL NOT WORK WITH DRIVE RIVET INSERTION TOOLS.

+0.005/-0.015 FOR LOCK LENGTH "C"

PANEL FASTENERS AND HOLE PLUGS

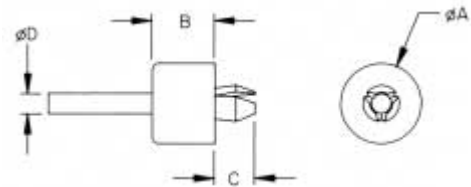
SECTION
VI

NYLON POLY DRIVE RIVETS

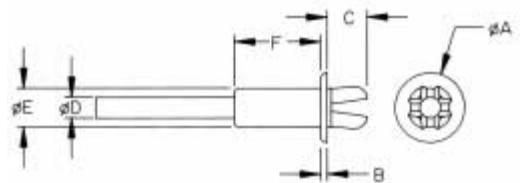
PART NUMBER	NOMINAL HOLE	PANEL THICKNESS RANGE	HEAD STYLE	HEAD DIA. "A"	HEAD HEIGHT "B"	LOCK LENGTH "C"	PIN DIA. "D"
61PR400600	.187 (4,75)	.078/.375 (1,98/9,53)	Binder	.312 (7,92)	.062 (1,57)	.450 (11,43)	.125 (3,18)
61PR400700	.245 (6,22)	.140/.550 (3,56/13,99)	Binder	.375 (9,53)	.100 (2,54)	.625 (15,88)	.150 (3,81)
61PR400800	.250 (6,35)	.125/.437 (3,18/11,10)	Binder	.468 (11,89)	.080 (2,03)	.585 (14,86)	.150 (3,81)
61PR400900	.250 (6,35)	.078/.275 (1,98/6,99)	Button	.494 (12,55)	.305 (7,75)	.375 (9,53)	.155 (3,94)
61PR500500	.218 (5,54)	.031/.062 (0,79/1,57)	Button	.375 (9,53)	.223 (5,66)	.170 (4,32)	.125 (3,18)
61PR600000	.182 (4,62)	.130/.290 (3,30/7,37)	Truss	.280 (7,11)	.050 (1,27)	.380 (9,65)	.120 (3,05)
61PR600100	.160 (4,06)	.062/.180 (1,57/4,57)	Round	.295 (7,49)	.050 (1,27)	.230 (5,84)	.093 (2,36)
61PR700100	.187 (4,75)	.156/.281 (3,96/7,14)	Truss	.437 (11,10)	.075 (1,91)	.380 (9,65)	.125 (3,18)
61PR700200	.187 (4,75)	.062/.187 (1,57/4,75)	Truss	.437 (11,10)	.075 (1,91)	.295 (7,49)	.125 (3,18)
61PR700300	.226 (5,74)	.125/.312 (3,18/7,92)	Truss	.437 (11,10)	.075 (1,91)	.468 (11,43)	.125 (3,18)
61PR700900	.250 (6,35)	.062/.125 (1,57/3,18)	Round	.370 (9,40)	.080 (2,03)	.218 (5,54)	.125 (3,18)
61PR800000	.250 (6,35)	.093/.312 (2,36/7,92)	Truss	.468 (11,89)	.080 (2,03)	.500 (12,70)	.150 (3,81)
61PR800100	.250 (6,35)	.281/.500 (7,14/12,70)	Truss	.468 (11,89)	.080 (2,03)	.620 (15,75)	.150 (3,81)
61PR800300	.250 (6,35)	.109/.156 (2,77/3,96)	Round	1/2 (12,70)	5/16 (7,94)	3/8 (9,53)	.155 (3,94)
61PR900000	.125 (3,18)	.031/.140 (0,79/3,56)	Round	.187 (4,75)	.047 (1,19)	.190 (4,83)	.075 (1,91)
61PR900100	.125 (3,18)	.031/.140 (0,79/3,56)	Round	.218 (5,54)	.060 (1,52)	.225 (5,72)	.075 (1,91)
61PRO10000	.218 (5,54)	.187/.250 (4,75/6,35)	Truss	.375 (9,53)	.080 (2,03)	.343 (8,71)	.120 (3,05)
61PRO10100	.275 (6,99)	.093/.350 (2,36/8,89)	Binder	.620 (15,75)	.109 (2,77)	.480 (12,19)	.150 (3,81)
61PRO10200	.280 (7,11)	.062/.350 (1,57/8,89)	Truss	.485 (12,32)	.075 (1,91)	.468 (11,89)	.187 (4,75)
61PRO10300	.250 (6,35)	.093/.312 (2,36/7,92)	Binder	.625 (15,88)	.109 (2,77)	.500 (12,70)	.150 (3,81)
61PRO10400	.250 (6,35)	.281/.500 (7,14/12,70)	Binder	.625 (15,88)	.109 (2,77)	.620 (15,75)	.150 (3,81)
61PRO10500	.266 (6,75)	.093/.187 (2,37/4,75)	Binder	.620 (15,75)	.109 (2,77)	.300 (7,62)	.150 (3,81)
61PRO10600	.160 (4,06)	.218/.312 (5,54/7,92)	Round	.375 (9,53)	.050 (1,27)	.355 (8,89)	.093 (2,36)
61PRO10110	.226 (5,74)	.125/.312 (3,18/7,92)	Round	.375 (9,53)	.080 (2,03)	.468 (11,43)	.120 (3,05)
61PRO10210	.187 (4,75)	.062/.187 (1,57/4,75)	Round	.375 (9,53)	.080 (2,03)	.295 (7,49)	.125 (3,18)
61PRO10310	.187 (4,75)	.156/.281 (3,96/7,14)	Round	.375 (9,53)	.080 (2,03)	.380 (9,65)	.125 (3,18)
61PRO10410	.187 (4,75)	.062/.187 (1,57/4,75)	Round	.375 (9,53)	.080 (2,03)	.281 (7,14)	.125 (3,18)
61PRO10510	.215 (5,46)	.078/.300 (1,98/7,62)	Truss	.630 (16,00)	.080 (2,03)	.430 (10,92)	.120 (3,05)

+.005/-0.015 FOR LOCK LENGTH "C"

NYLON POLY DRIVE RIVET MOUNTING FEET



PART NUMBER	NOMINAL HOLE	PANEL THK RANGE	HEAD STYLE	HEAD DIA. "A"	HEAD HEIGHT "B"	LOCK LENGTH "C"	PIN DIA. "D"
61PMF10000	.280 (7,11)	.061/.187 (1,55/4,75)	Foot	.760 (19,30)	.570 (14,48)	.385 (9,78)	.187 (4,75)
61PSS40000	.250 (6,35)	.030/.125 (0,76/3,18)	Foot	.375 (9,53)	.500 (12,70)	.238 (6,05)	.150 (3,81)



NYLON POLY DRIVE RIVET SUPPORTS

PART NUMBER	NOMINAL HOLE	PANEL THK RANGE	HEAD STYLE	HEAD DIA. "A"	HEAD HT. "B"	LOCK LENGTH "C"	PIN DIA. "D"	SUP. LENGTH "F"	SUPPORT DIA. "E"
61PSS10000	.187 (4,75)	.030/.125 (0,76/3,18)	Support	.325 (8,26)	.030 (0,76)	.200 (5,08)	.097 (2,46)	.400 (10,16)	.180 (4,57)
61PSS20000	.250 (6,35)	.030/.125 (0,76/3,18)	Support	13/32 (10,31)	.047 (1,19)	.187 (4,75)	.125 (3,18)	.703 (17,86)	.240 (6,10)

PANEL FASTENERS AND HOLE PLUGS

SECTION VI

Micro Plastics' tough, lightweight drive rivet insertion tool makes the assembly of our Polyrivets even more economical. This tool provides a faster assembly, more accurate placement and positions in hard to reach areas. Large plunger head and easy-grip handle reduce operator fatigue.

Rivets do not have to be predriven. In use, the rivet is loaded in tool and inserted in prepared hole, pressure on the plunger frees the pin and expands the rivet in the assembly. Three sizes are available to cover all standard drive rivets. Tools are color coded for identification.

ITEM NUMBER	RIVET PIN SIZE	COLOR
61PRT0075	.075 (1,91)	RED
61PRT0125	.125 (3,18)	YELLOW
61PRT0150	.150 (3,81)	GREEN

PNEUMATIC DRIVE RIVET INSERTION TOOL

BOOST PRODUCTIVITY, QUALITY AND COST CONTROL ON YOUR ASSEMBLY OPERATIONS

The Pneumatic Drive Rivet Tool is especially suited for hard to reach or delicate assemblies encountered on all kinds of mechanical and electrical components, appliances, P.C. board assemblies, relays, switches, controls, etc.

The durable, lightweight alloy insert tool weighs only 22 ounces and features an easy-grip, non-slip, straight case for single hand fatigue free operation and is equipped with a suspension bail for overhead connections on bench type precision assemblies. The insert tool can be safely used in all positions.

In operation the rivet is loaded in the tool and inserted in the prepared hole, slight pressure activates the pneumatic switch and the rivet is driven into the assembly effortlessly.

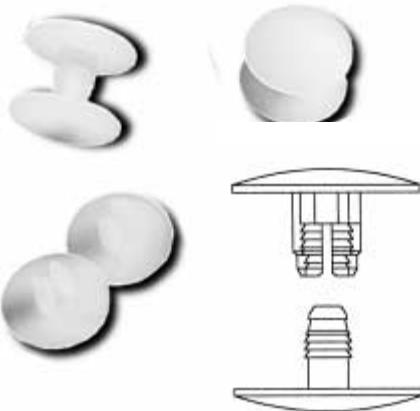
RIVETS NEED NOT BE PREDRIVEN.

Tool is designed to use standard shop air, operating pressure range is 50 to 70 PSI with instant cycling time. One tool will drive all standard rivet sizes, three interchangeable driver attachments are included. Mandrel sizes are .075, .125 and .150

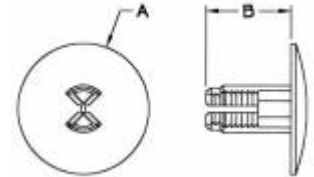
ITEM NUMBER	DESCRIPTION
61PPRT100	PNEUMATIC RIVET INSERT TOOL WITH 3 DRIVER ATTACHMENTS

RATCHETING ACTION RIVETS

RATCHETING ACTION RIVETS ARE AVAILABLE IN BLACK OR WHITE. PLEASE ADD A COLOR CODE TO THE END OF EACH PART NUMBER IDENTIFYING YOUR COLOR CHOICE. CODE B = BLACK CODE W = WHITE



Ratcheting action rivets feature a rigid design which provides an outstanding bond created by the action of the interlocking gripper teeth. With the larger head diameter, Ratcheting action rivets make binding of soft materials a simple application.



ITEM NUMBER	HEAD DIA. A	SHANK LENGTH B	HOLE DIA.	GRIP RANGE
27QB700250	3/4" (19,05)	7/32" (5,5)	9/32" (7,14)	.235/.297 (5,97/7,54)
27QB700375	3/4" (19,05)	11/32" (8,73)	9/32" (7,14)	.346/.500 (8,79/12,70)
27QB700750	3/4" (19,05)	1/2" (12,70)	9/32" (7,14)	.500/.812 (12,70/20,62)
27QB701000	3/4" (19,05)	3/4" (19,05)	9/32" (7,14)	.780/1.375 (19,81/34,93)
27QB400250	.406 (10,31)	7/32" (5,5)	9/32" (7,14)	.235/.297 (5,97/7,54)
27QB400375	.406 (10,31)	11/32" (8,73)	9/32" (7,14)	.346/.500 (8,79/12,70)
27QB400750	.406 (10,31)	1/2" (12,70)	9/32" (7,14)	.500/.812 (12,70/20,62)
27QB401000	.406 (10,31)	3/4" (19,05)	9/32" (7,14)	.780/1.375 (19,81/34,93)

DRIVE RIVET INSERTION TOOLS



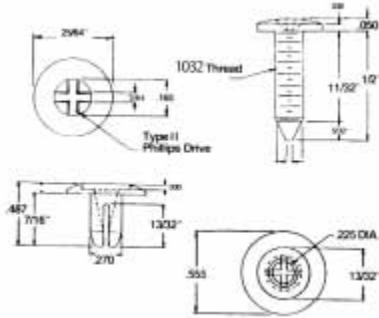
UNIQUE, PRECISION TOOL DESIGNED TO EFFICIENTLY ASSEMBLE ALL NYLON DRIVE RIVETS AND MOST ONE-PIECE METAL EXPANSION RIVETS. COVERED BY U.S. / FOREIGN PATENTS

PANEL FASTENERS AND HOLE PLUGS

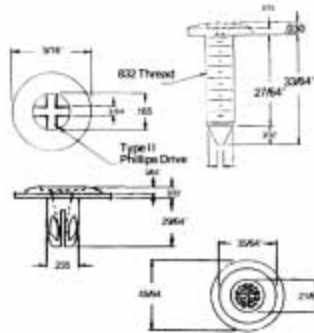
SECTION
VI

"SPECIAL ITEM" TWO PIECE SCREW RIVETS

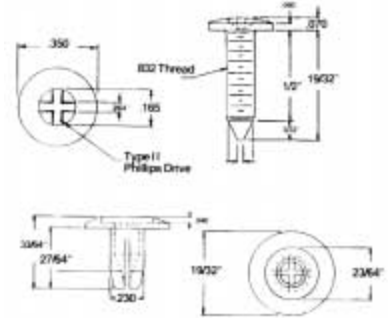
Micro Plastics' two-piece screw rivets are designed to fasten larger components or small assemblies to their mating panels. Pressing or tapping the screw through the body creates a secure insulated connection. In addition the screw may be removed with a phillips screw driver and the fastener re-used. Rivets are molded from Nylon 6/6.



ITEM NUMBER
401009



ITEM NUMBER
401008



ITEM NUMBER
401007

Micro Plastics Nylon Snap Rivet is designed for assemblies requiring fast and economical fasteners that can be installed without tools. The 2 Piece Molded Fastener comes assembled ready for use. The Rivet is placed in the hole and the smooth, oversized head is pressed. The specially designed legs expand and firmly lock the components permanently in place. Micro Plastics Snap Rivets are molded in high dielectric (UL 94V2) Nylon 6/6 making them ideal for electronic applications. The following standard sizes are available from stock, other sizes will be tooled on request.

NYLON SNAP RIVET



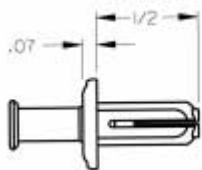
* +/- .010" on B DIMENSION

ITEM NUMBER	A	* B	PANEL THICKNESS
27SR135180	.180 (4,6)	.135 (3,4)	.060/.120 (1,5/3,0)
27SR0010	.118 (3,0)	.140 (3,5)	.050/.100 (1,3/2,5)
27SR0012	.122 (3,0)	.220 (5,5)	.122/.160 (3,0/4,0)
27SR0018	.155 (3,9)	.200 (5,0)	.100/.140 (2,5/3,5)
27SR0020	.155 (3,9)	.240 (6,0)	.144/.188 (3,5/4,5)
27SR0030	.200 (5,0)	.280 (7,0)	.160/.200 (4,0/5,0)
27SR102170	.102 (2,6)	.170 (4,3)	.078/.118 (2,0/3,0)
27SR135220	.135 (3,4)	.220 (5,5)	.118/.157 (3,00/4,00)
27SR157315	.157 (4,0)	.315 (8,0)	.148/.188 (3,76/4,78)
27SR1660240	.157 (3,9)	.236 (5,9)	.050/.180 (1,2/4,5)
27SR1660265	.166 (4,2)	.265 (6,7)	.170/.210 (4,3/5,3)
27SR1180515	.118 (3,0)	.520 (13,21)	.400/.440 (10,16/11,18)
27SR2000370	.198 (5,0)	.368 (9,35)	.230/.300 (5,84/7,62)
27SR1600315	.160 (4,0)	.315 (8,01)	.100/.250 (2,54/6,35)
27SR135180	.180 (4,8)	.135 (3,43)	.060/.125 (1,5/3,18)



NYLON TWO-PIECE REMOVABLE RIVETS

Removable rivets are two-piece nylon rivets which can be removed by retracting the pin, and then the body. The body incorporates a slot in line with the pin so that the pin can be removed by inserting a small screw driver, other sharp edge, or even a fingernail underneath the head of the pin. In addition to working in a .250 round hole, will also fit the .210"/.218" square hole found in the "darling" type shelf commonly used in retail stores.



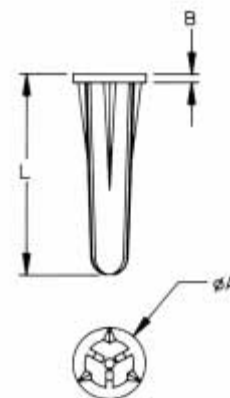
PART NUMBER	A	B	C
61RR250500	7/16 (11,11)	.07 (1,78)	1/2 (12,70)

PANEL FASTENERS AND HOLE PLUGS

SECTION VI

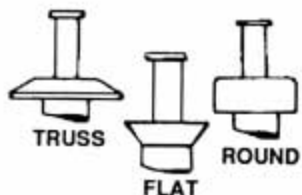


Multi-use, light duty Nylon Anchor for use with sheet metal or wood screws. Nylon Anchors can be used in wood, masonry block, concrete, tile, brick or sheet metal. Anchor has twist resisting flange for use in thin wall and hollow materials. Anchors can be color coded for size identification. Metal screw not included.

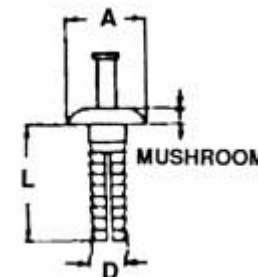


NYLON SCREW ANCHORS

ITEM NUMBER	SCREW SIZE	DRILL SIZE	A	B	L
61WA210875	#6-8	3/16 (4,76)	5/16 (7,94)	.037 (0,94)	7/8 (22,22)
61WA281700	#10-12	1/4 (6,35)	3/8 (9,53)	.037 (0,94)	1-5/64 (27,38)
61WA351385	#14-16	5/16 (7,94)	7/16 (11,11)	.037 (0,94)	1 3/8 (31,93)



TYPE	A	T
Mushroom	.540 (12,72)	.110 (2,79)
Round	.425 (10,80)	.125 (3,18)
Truss	.605 (15,38)	.110 (2,79)
Flat	.437 (11,10)	.108 (2,74)



TWO PIECE ANCHOR RIVETS - STEEL DRIVE PIN

HIGH STRENGTH, ZINC PLATED.
DEVELOPS HIGH PULL-OUT FORCE.

ALL ITEMS PACKAGED 1,000 PER BAG



PART NUMBER	DESCRIPTION		TYPE
	"D"	"T"	
61ASM18075	3/16 (4,76) X	3/4 (19,05)	Mushroom, Steel
61ASM18100	3/16 (4,76) X	1 (25,40)	Mushroom, Steel
61ASM25075	1/4 (6,35) X	3/4 (19,05)	Mushroom, Steel
61ASM25100	1/4 (6,35) X	1 (25,40)	Mushroom, Steel
61ASM25150	1/4 (6,35) X	1-1/2 (38,10)	Mushroom, Steel
61ASR18075	3/16 (4,76) X	3/4 (19,05)	Round, Steel
61ASR18100	3/16 (4,76) X	1 (25,40)	Round, Steel
61ASR25075	1/4 (6,35) X	3/4 (19,05)	Round, Steel
61ASR25100	1/4 (6,35) X	1 (25,40)	Round, Steel
61ASR25150	1/4 (6,35) X	1-1/2 (38,10)	Round, Steel
61AST18075	3/16 (4,76) X	3/4 (19,05)	Truss, Steel
61AST18100	3/16 (4,76) X	1 (25,40)	Truss, Steel
61AST25075	1/4 (6,35) X	3/4 (19,05)	Truss, Steel
61AST25100	1/4 (6,35) X	1 (25,40)	Truss, Steel
61AST25150	1/4 (6,35) X	1-1/2 (38,10)	Truss, Steel

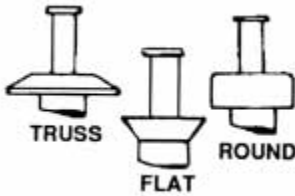
TWO PIECE ANCHOR RIVETS - PLASTIC AND STEEL DRIVE PINS

Micro Plastics' two piece Anchor Rivets provide versatile, inexpensive, vibration-resistant blind fasteners for solid or hollow materials including wood, concrete, plaster, metal, plastic, tile block or mortar. Installation is fast, rivet is inserted in predrilled hole and

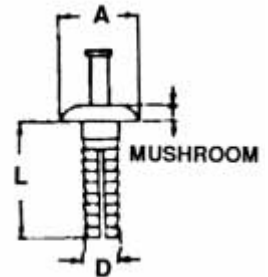
tapped with a hammer. The drive pin expands and seats the rivet securely in place. The supertough nylon anchor body provides high thermal, electrical, corrosion and vibration resistance. Typical uses for Micro Plastics anchor are semi-trailer construction,

liner panels, rails, scuff boards, floor plates, electrical fixtures, signs, plumbing fixtures, piping and conduit strap hangers, window and drapery hardware, railings, storage shelves and other assemblies requiring a positive, durable fastener.

THE FOLLOWING ARE STANDARD SIZES AVAILABLE. MICRO PLASTICS, INC. WILL TOOL NON-STANDARDS IN SUITABLE QUANTITIES.



TYPE	A	T
Mushroom	.540 (12,72)	.110 (2,79)
Round	.425 (10,80)	.125 (3,18)
Truss	.605 (15,38)	.110 (2,79)
Flat	.437 (11,10)	.108 (2,74)



TWO PIECE ANCHOR RIVETS - PLASTIC DRIVE PIN

THERMAL AND ELECTRICAL INSULATING.
CORROSION AND VIBRATION RESISTANT.

PART NUMBER	DESCRIPTION				TYPE
	"D"		"L"		
61APM18075	3/16	(4,76)	X	3/4 (19,05)	Mushroom, Plastic
61APM25075	1/4	(6,35)	X	3/4 (19,05)	Mushroom, Plastic
61APM25100	1/4	(6,35)	X	1 (25,40)	Mushroom, Plastic
61APM25150	1/4	(6,35)	X	1-1/2 (38,10)	Mushroom, Plastic
61APR18075	3/16	(4,76)	X	3/4 (19,05)	Round, Plastic
61APR25075	1/4	(6,35)	X	3/4 (19,05)	Round, Plastic
61APR25100	1/4	(6,35)	X	1 (25,40)	Round, Plastic
61APR25150	1/4	(6,35)	X	1-1/2 (38,10)	Round, Plastic
61APT18075	3/16	(4,76)	X	3/4 (19,05)	Truss, Plastic
61APT25075	1/4	(6,35)	X	3/4 (19,05)	Truss, Plastic
61APT25100	1/4	(6,35)	X	1 (25,40)	Truss, Plastic
61APT25150	1/4	(6,35)	X	1-1/2 (38,10)	Truss, Plastic
61APF25056	1/4	(6,35)	X	9/16 (14,29)	Flat, Plastic
61APF25075	1/4	(6,35)	X	3/4 (19,05)	Flat, Plastic

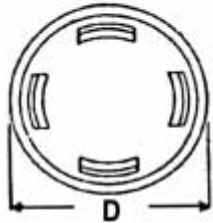
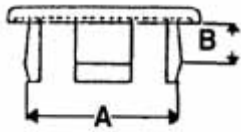
ALL ITEMS PACKAGED 1,000 PER BAG



PANEL FASTENERS AND HOLE PLUGS

SECTION VI

Micro Plastics economical snap-in Poly-Plugs will close unneeded chassis holes, wiring outlets, fill unused accessory openings, cover inspection and production access holes. They can be used as tube end caps and protective bumpers. Poly Plugs are molded in Nylon 6/6 which is abrasion and vibration resistant making them ideal for drawer glides and small appliance feet. Poly Plugs are designed with special flexible and tapered prongs which snugly lock in place with finger pressure but can be removed and reused when necessary. Parts can be furnished in natural nylon or dyed in colors. Poly Plugs are available in smooth, gloss finish or in dull, matte finish.



HOLE PLUGS

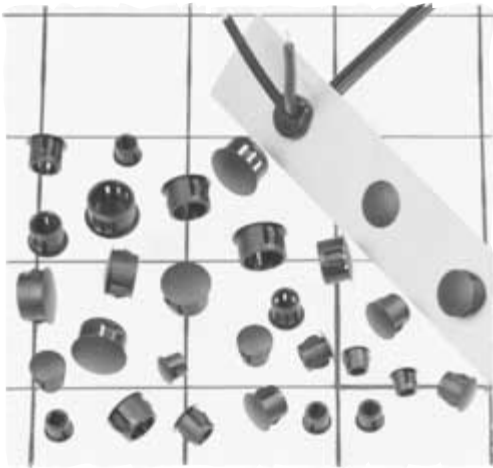
ITEM NUMBER	HEAD STYLE	FINISH	HOLE SIZE A	PANEL THICKNESS B	HEAD SIZE D	HEAD HEIGHT H
62PP018BG14	Binder	Smooth	.187 (4,75)	.031/.140 (0,79/3,56)	11/32 (8,74)	.040 (1,02)
62PP018BM14	Binder	Matte	.187 (4,75)	.031/.140 (0,79/3,56)	11/32 (8,74)	.040 (1,02)
62PP022RG06	Dome	Smooth	.218 (5,54)	.031/.062 (0,79/1,58)	3/8 (9,53)	.250 (6,35)
62PP022RG09	Dome	Smooth	.218 (5,54)	.031/.094 (0,79/2,39)	3/8 (9,53)	.250 (6,35)
62PP025BG06	Binder	Smooth	.250 (6,35)	.031/.062 (0,79/1,58)	27/64 (10,72)	.040 (1,02)
62PP025BM06	Binder	Matte	.250 (6,35)	.031/.062 (0,79/1,58)	27/64 (10,72)	.040 (1,02)
62PP031BG14	Binder	Smooth	.312 (7,93)	.031/.140 (0,79/3,56)	29/64 (11,51)	.055 (1,40)
62PP031BM14	Binder	Matte	.312 (7,93)	.031/.140 (0,79/3,56)	29/64 (11,51)	.055 (1,40)
62PP012BG09	Binder	Smooth	.125 (3,18)	.031/.094 (0,79/2,39)	13/64 (5,16)	.040 (1,02)
62PP015BG09	Binder	Smooth	.150 (3,81)	.031/.094 (0,79/2,39)	1/4 (6,35)	.040 (1,02)
62PP037BG14	Binder	Smooth	.375 (9,53)	.031/.140 (0,79/3,56)	43/64 (17,07)	.062 (1,58)
62PP037BG31	Binder	Smooth	.375 (9,53)	.031/.140 (0,79/3,56)	37/64 (14,68)	.050 (1,27)
62PP037BM31	Binder	Matte	.375 (9,53)	.031/.140 (0,79/3,56)	37/64 (14,68)	.055 (1,40)
62PP043BG17	Binder	Smooth	.437 (11,10)	.031/.171 (0,79/4,34)	39/64 (15,47)	.055 (1,40)
62PP043BM17	Binder	Matte	.437 (11,10)	.031/.171 (0,79/4,34)	39/64 (15,47)	.050 (1,27)
62PP048BM12	Binder	Matte	.480 (12,19)	.031/.039 (0,79/0,99)	37/64 (14,68)	.050 (1,27)
62PP050BG14	Binder	Smooth	.500 (12,70)	.031/.140 (0,79/3,56)	43/64 (17,07)	.062 (1,58)
62PP050BM14	Binder	Matte	.500 (12,70)	.031/.140 (0,79/3,56)	43/64 (17,07)	.062 (1,58)
62PP056BG14	Binder	Smooth	.562 (14,28)	.031/.140 (0,79/3,56)	47/64 (18,64)	.062 (1,58)
62PP056BM14	Binder	Matte	.562 (14,28)	.031/.140 (0,79/3,56)	47/64 (18,64)	.062 (1,58)
62PP062BG07	Binder	Smooth	.625 (15,88)	.031/.072 (0,79/1,83)	51/64 (20,24)	.062 (1,58)
62PP062BM07	Binder	Matte	.625 (15,88)	.031/.072 (0,79/1,83)	51/64 (20,24)	.062 (1,58)
62PP068BG10	Binder	Smooth	.687 (17,45)	.031/.109 (0,79/2,77)	57/64 (22,63)	.062 (1,58)
62PP068BM10	Binder	Matte	.687 (17,45)	.031/.109 (0,79/2,77)	57/64 (22,63)	.062 (1,58)
62PP075BG11	Binder	Smooth	.750 (19,05)	.031/.109 (0,79/2,77)	63/64 (25,00)	.062 (1,58)
62PP075BM11	Binder	Matte	.750 (19,05)	.031/.109 (0,79/2,77)	63/64 (25,00)	.062 (1,58)
62PP078BG09	Binder	Smooth	.787 (20,00)	.059/.080 (1,50/2,03)	63/64 (25,00)	.062 (1,58)
62PP078BM09	Binder	Matte	.787 (20,00)	.059/.080 (1,50/2,03)	63/64 (25,00)	.062 (1,58)
62PP081BG11	Binder	Smooth	.812 (20,63)	.031/.109 (0,79/2,77)	1 1/32 (26,19)	.062 (1,58)
62PP081BM11	Binder	Matte	.812 (20,63)	.031/.109 (0,79/2,77)	1 1/32 (26,19)	.062 (1,58)
62PP087BG11	Binder	Smooth	.875 (22,23)	.031/.109 (0,79/2,77)	1 5/64 (27,38)	.062 (1,58)
62PP087BM11	Binder	Matte	.875 (22,23)	.031/.109 (0,79/2,77)	1 5/64 (27,38)	.062 (1,58)
62PP100BG11	Binder	Smooth	1.000 (25,40)	.031/.109 (0,79/2,77)	1 7/32 (30,96)	.062 (1,58)
62PP100BM11	Binder	Matte	1.000 (25,40)	.031/.109 (0,79/2,77)	1 7/32 (30,96)	.062 (1,58)



VENT PLUGS

62VP087BM11	Binder	Matte	.875 (22,23)	.031/.109 (0,79/2,77)	1 5/64 (27,38)	.062 (1,58)
62VP100BM11	Binder	Matte	1.000 (25,40)	.031/.109 (0,79/2,77)	1 7/32 (30,96)	.062 (1,58)

PANEL FASTENERS AND HOLE PLUGS



Nylon Locking Hole Plugs are available in a large selection of sizes from 3/16" to 2 1/2". These hole plugs are designed with multiple locks to positively snap in panel thicknesses ranging from 1/64" to 1/8". Locking Hole Plugs are used to close excess chassis holes, wiring outlets, and production access holes. These hole plugs are molded of heat stabilized nylon (UL94V2) and may be more suitable for critical or elevated temperature applications. Vent Plugs are available in 3/4" to 7/8" and 1" diameters.

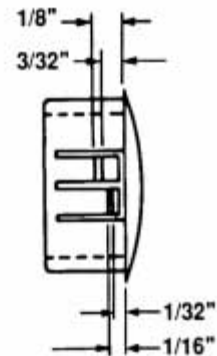
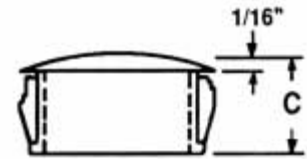
Locking Hole Plugs are stocked in black.

Other colors are available in volume requirements.

LOCKING HOLE PLUGS

ITEM NUMBER	HOLE DIAMETER	MAXIMUM THICKNESS	HEAD DIAMETER B	THICKNESS C
* 62MP0187	.187 (4,8)	.062 (1,6)	.250 (6,4)	.234 (5,9)
* 62MP0250	.250 (6,4)	.062 (1,6)	.312 (8,0)	.312 (8,0)
* 62MP0312	.312 (8,0)	.062 (1,6)	.375 (9,5)	.312 (8,0)
* 62MP0375	.375 (9,5)	.125 (3,2)	.468 (12,0)	.406 (10,3)
* 62MP0437	.437 (11,0)	.125 (3,2)	.531 (13,5)	.406 (10,3)
* 62MP0500	.500 (12,7)	.125 (3,2)	.578 (14,6)	.406 (10,3)
* 62MP0562	.562 (14,3)	.125 (3,2)	.656 (16,7)	.406 (10,3)
* 62MP0625	.625 (15,9)	.125 (3,2)	.718 (18,2)	.406 (10,3)
* 62MP0687	.687 (17,5)	.125 (3,2)	.781 (20,0)	.406 (10,3)
* 62MP0750	.750 (19,0)	.125 (3,2)	.922 (23,2)	.406 (10,3)
* 62MP0812	.812 (20,6)	.125 (3,2)	.890 (22,6)	.406 (10,3)
* 62MP0875	.875 (22,2)	.125 (3,2)	1.016 (25,8)	.453 (11,5)
** 62MP1000	1.000 (25,5)	.125 (3,2)	1.203 (30,5)	.453 (11,5)
** 62MP1093	1.093/125 (28,0/28,5)	.125 (3,2)	1.218 (31,0)	.453 (11,5)
** 62MP1187	1.187 (30,1)	.125 (3,2)	1.312 (33,3)	.453 (11,5)
** 62MP1250	1.250 (32,0)	.125 (3,2)	1.375 (34,9)	.453 (11,5)
** 62MP1375	1.375 (35,0)	.125 (3,2)	1.500 (38,0)	.453 (11,5)
** 62MP1500	1.500 (38,0)	.125 (3,2)	1.672 (42,7)	.453 (11,5)
** 62MP1750	1.750 (45,0)	.125 (3,2)	1.925 (48,9)	.453 (11,5)
**** 62MP2000	2.000 (51,0)	.125 (3,2)	2.140 (55,0)	.453 (11,5)
**** 62MP2500	2.500 (63,5)	.250 (6,4)	2.775 (70,5)	.750 (19,1)

NOTE: +/- .015" ON ALL DIMENSIONS



* MINIMUM ORDER QUANTITY 1,000 PIECES

** MINIMUM ORDER QUANTITY 500 PIECES

**** MINIMUM ORDER QUANTITY 250 PIECES

***** MINIMUM ORDER QUANTITY 100 PIECES



LOCKING VENT PLUGS

* 62MP0750V	.750 (19,1)	.125 (3,2)	.906 (23,0)	.406 (10,3)
* 62MP0875V	.875 (22,5)	.125 (3,2)	1.016 (25,8)	.453 (11,5)
** 62MP1000V	1.000 (25,5)	.125 (3,2)	1.203 (30,5)	.453 (11,5)

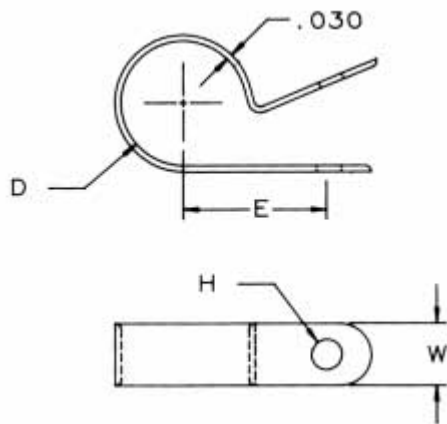
WIRE HANDLING HARDWARE

SECTION VII

Micro Plastics' molded nylon cable clamps secure, insulate and route cable, wiring, tubing, piping and fibre optics. These tough, durable chemical resistant nylon 6/6 cable clamps are perfect for applications in electronics, automotive, air craft, appliance and many other industries.

The Heavy Duty Series provides a full 1/2" wide contact area for all critical and heavy duty industrial and commercial applications, while the economical Standard Series has a 3/8" wide contact area and is designed for medium to light-weight applications. All contact edges have a full radius for product protection. Sizes are clearly marked on each clamp.

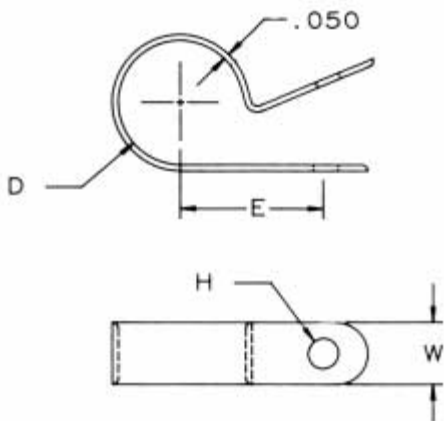
The following are standard sizes available. Micro Plastics will tool non-standard sizes in suitable quantities. Flame retardant nylon 6/6, 2% carbon black nylon 6/6 (U.V. resistant), and polypropylene clamps are available on special order.



MINIATURE CABLE CLAMPS

ITEM NUMBER	D	W	H +/- .010	E +/- .010
22CC16A0062	1/16 (0,79)	5/32 (3,97)	.096 (2,44)	.187 (4,75)
22CC16A0093	3/32 (2,38)	5/32 (3,97)	.096 (2,44)	.203 (5,16)
22CC16A0125	1/8 (3,18)	5/32 (3,97)	.096 (2,44)	.217 (5,51)
22CC16A0156	5/32 (3,97)	5/32 (3,97)	.096 (2,44)	.233 (5,92)
22CC16A0187	3/16 (4,76)	5/32 (3,97)	.096 (2,44)	.250 (6,35)
22CC28E0250	1/4 (6,35)	9/32 (7,14)	.128 (3,25)	.337 (8,56)
22CC28E0375	3/8 (9,52)	9/32 (7,14)	.128 (3,25)	.400 (10,16)

NOTE: H AND E DIMENSIONS ARE + / - .015" TOLERANCE.



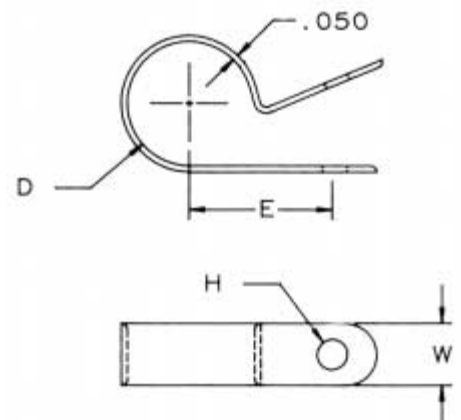
STANDARD CABLE CLAMPS

ITEM NUMBER	D	W	H	E
22CC37B0125	1/8 (3,18)	3/8 (9,53)	.140 (3,56)	.329 (8,36)
22CC37C0125	1/8 (3,18)	3/8 (9,53)	.167 (4,24)	.329 (8,36)
22CC37D0125	1/8 (3,18)	3/8 (9,53)	.203 (5,16)	.329 (8,36)
22CC37B0187	3/16 (4,76)	3/8 (9,53)	.140 (3,56)	.430 (10,92)
22CC37C0187	3/16 (4,76)	3/8 (9,53)	.167 (4,24)	.430 (10,92)
22CC37D0187	3/16 (4,76)	3/8 (9,53)	.203 (5,16)	.430 (10,92)
22CC37B0187E	3/16 (4,76)	3/8 (9,53)	.140 (3,56)	.378 (9,60)
22CC37C0187E	3/16 (4,76)	3/8 (9,53)	.167 (4,24)	.378 (9,60)
22CC37D0187E	3/16 (4,76)	3/8 (9,53)	.203 (5,16)	.378 (9,60)
22CC37B0250	1/4 (6,35)	3/8 (9,53)	.140 (3,56)	.410 (10,41)
22CC37C0250	1/4 (6,35)	3/8 (9,53)	.167 (4,24)	.410 (10,41)
22CC37D0250	1/4 (6,35)	3/8 (9,53)	.203 (5,16)	.410 (10,41)
22CC37B0312	5/16 (7,94)	3/8 (9,53)	.140 (3,56)	.495 (12,57)
22CC37C0312	5/16 (7,94)	3/8 (9,53)	.167 (4,24)	.495 (12,57)
22CC37D0312	5/16 (7,94)	3/8 (9,53)	.203 (5,16)	.495 (12,57)
22CC37B0375	3/8 (9,53)	3/8 (9,53)	.140 (3,56)	.595 (15,11)
22CC37C0375	3/8 (9,53)	3/8 (9,53)	.167 (4,24)	.595 (15,11)
22CC37D0375	3/8 (9,53)	3/8 (9,53)	.203 (5,16)	.595 (15,11)
22CC37B0437	7/16 (11,11)	3/8 (9,53)	.140 (3,56)	.574 (14,58)
22CC37C0437	7/16 (11,11)	3/8 (9,53)	.167 (4,24)	.574 (14,58)
22CC37D0437	7/16 (11,11)	3/8 (9,53)	.203 (5,16)	.574 (14,58)
22CC37B0500	1/2 (12,70)	3/8 (9,53)	.140 (3,56)	.605 (15,37)
22CC37C0500	1/2 (12,70)	3/8 (9,53)	.167 (4,24)	.605 (15,37)
22CC37D0500	1/2 (12,70)	3/8 (9,53)	.203 (5,16)	.605 (15,37)
22CC37D0562	9/16 (14,29)	3/8 (9,53)	.203 (5,16)	.606 (15,39)
22CC37D0625	5/8 (15,88)	3/8 (9,53)	.203 (5,16)	.678 (17,22)



HEAVY DUTY CABLE CLAMPS

ITEM NUMBER	D	W	H	E
22CC50C0125	1/8 (3,18)	1/2 (12,70)	.167 (4,24)	.315 (8,00)
22CC50D0125	1/8 (3,18)	1/2 (12,70)	.203 (5,16)	.315 (8,00)
22CC50C0187	3/16 (4,76)	1/2 (12,70)	.167 (4,24)	.425 (10,80)
22CC50D0187	3/16 (4,76)	1/2 (12,70)	.203 (5,16)	.425 (10,80)
22CC50C0250	1/4 (6,35)	1/2 (12,70)	.167 (4,24)	.410 (10,41)
22CC50D0250	1/4 (6,35)	1/2 (12,70)	.203 (5,16)	.410 (10,41)
22CC50C0312	5/16 (7,94)	1/2 (12,70)	.167 (4,24)	.500 (12,70)
22CC50D0312	5/16 (7,94)	1/2 (12,70)	.203 (5,16)	.500 (12,70)
22CC50C0375	3/8 (9,53)	1/2 (12,70)	.167 (4,24)	.530 (13,46)
22CC50D0375	3/8 (9,53)	1/2 (12,70)	.203 (5,16)	.530 (13,46)
22CC50C0375	3/8 (9,53)	1/2 (12,70)	.250 (6,35)	.585 (14,86)
22CC50C0437	7/16 (11,11)	1/2 (12,70)	.167 (4,24)	.560 (14,22)
22CC50D0437	7/16 (11,11)	1/2 (12,70)	.203 (5,16)	.560 (14,22)
22CC50C0500	1/2 (12,70)	1/2 (12,70)	.167 (4,24)	.595 (15,11)
22CC50D0500	1/2 (12,70)	1/2 (12,70)	.203 (5,16)	.595 (15,11)
22CC50C0562	9/16 (14,29)	1/2 (12,70)	.167 (4,24)	.606 (15,39)
22CC50D0562	9/16 (14,29)	1/2 (12,70)	.203 (5,16)	.606 (15,39)
22CC50C0625	5/8 (15,88)	1/2 (12,70)	.167 (4,24)	.655 (16,64)
22CC50D0625	5/8 (15,88)	1/2 (12,70)	.203 (5,16)	.655 (16,64)
22CC50C0687	11/16 (17,46)	1/2 (12,70)	.167 (4,24)	.755 (19,18)
22CC50D0687	11/16 (17,46)	1/2 (12,70)	.203 (5,16)	.755 (19,18)
22CC50C0750	3/4 (19,05)	1/2 (12,70)	.167 (4,24)	.780 (19,81)
22CC50D0750	3/4 (19,05)	1/2 (12,70)	.203 (5,16)	.780 (19,81)
22CC50C0812	13/16 (20,64)	1/2 (12,70)	.167 (4,24)	.815 (20,70)
22CC50D0812	13/16 (20,64)	1/2 (12,70)	.203 (5,16)	.815 (20,70)
22CC50C0875	7/8 (22,22)	1/2 (12,70)	.167 (4,24)	.845 (21,46)
22CC50D0875	7/8 (22,22)	1/2 (12,70)	.203 (5,16)	.845 (21,46)
22CC50D1000	1 (25,40)	1/2 (12,70)	.203 (5,16)	.910 (23,11)
22CC50D1125	1 1/8 (28,58)	1/2 (12,70)	.203 (5,16)	.970 (24,64)
22CC50D1187	1 3/16 (30,16)	1/2 (12,70)	.203 (5,16)	1.000 (25,40)
22CC50D1250	1 1/4 (31,75)	1/2 (12,70)	.203 (5,16)	1.060 (26,92)
22CC50D1375	1 3/8 (34,93)	1/2 (12,70)	.203 (5,16)	1.125 (28,58)
22CC50D1500	1 1/2 (38,10)	1/2 (12,70)	.203 (5,16)	1.190 (30,23)



NOTE H AND E DIMENSIONS ARE + / - .015" TOLERANCE.



EXTRA HEAVY DUTY CABLE CLAMPS

ITEM NUMBER	D	W	H	E
22CC87F0750	3/4 (19,05)	7/8 (22,22)	.387 (9,83)	1.000 (25,40)
22CC87D1003	1 1/32 (26,19)	7/8 (22,22)	.387 (9,83)	1.125 (28,58)
22CC87F1003	1 1/32 (26,19)	7/8 (22,22)	.203 (5,16)	1.125 (28,58)

WIRE HANDLING HARDWARE

SECTION VII

RELEASABLE ADHESIVE BACKED WIRE CLIPS

Micro Plastics' Adhesive Backed Nylon Wire and Cable Clips are used to route wires and cables. The parts are backed with polyurethane foam tape, and feature a releasable clip so wires can be removed after assembly if desired. Parts are stocked in natural, when ordering black parts add the letter "B" to the end of the part number.



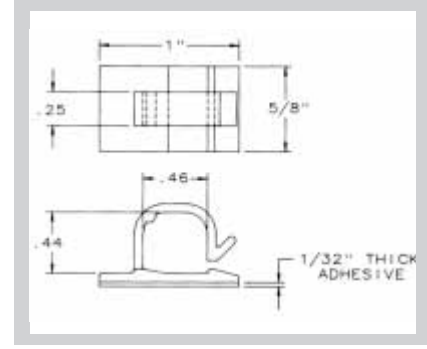
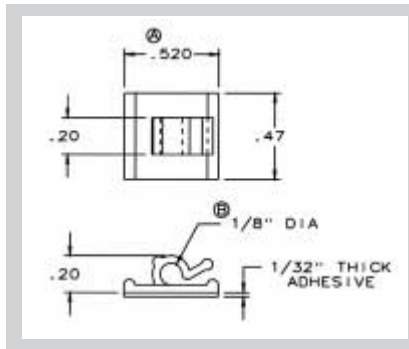
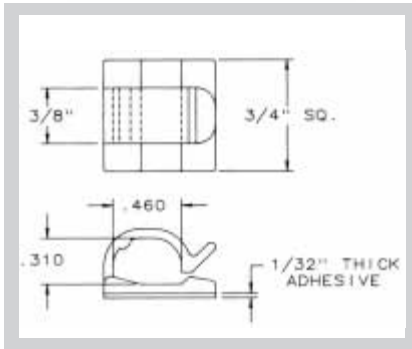
ITEM NUMBER 22AWC00375



ITEM NUMBER 22AWC00125



ITEM NUMBER 22AWC00440



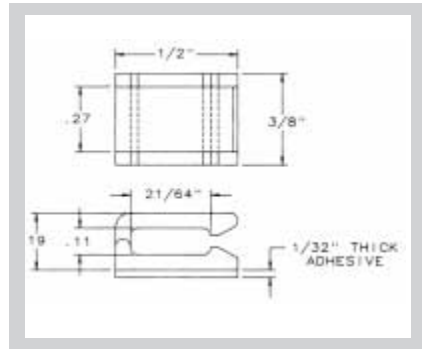
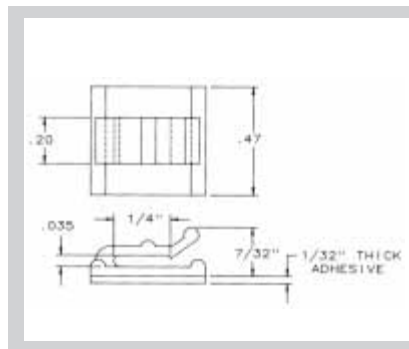
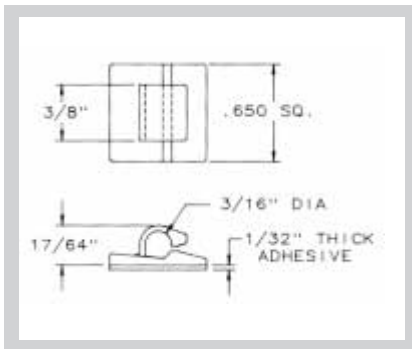
ITEM NUMBER 22AWC00187



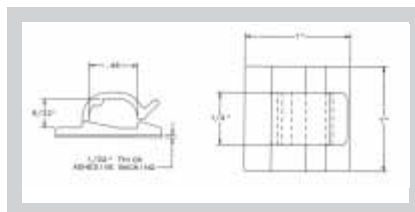
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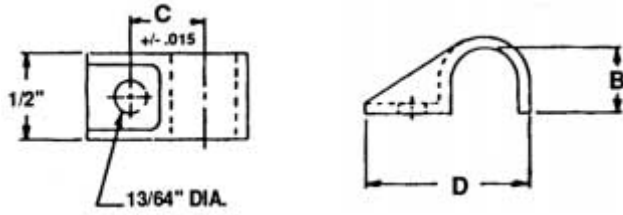


ITEM NUMBER 22AWCF328110



ITEM NUMBER 22AWC00281





HEAVY DUTY CABLE CLIPS

ITEM NUMBER	DESCRIPTION	"B"	"C"	"D"
22HDCC1250	1/8" Hvy. dty. Clip	.115	.307	.675
22HDCC1720	3/16" Hvy. dty. Clip	.172	.328	.732
22HDCC2340	1/4" Hvy. dty. Clip	.234	.366	.793
22HDCC2970	5/16" Hvy. dty. Clip	.297	.400	.859
22HDCC3590	3/8" Hvy. dty. Clip	.359	.430	.910
22HDCC4220	7/16" Hvy. dty. Clip	.422	.460	.980
22HDCC4840	1/2" Hvy. dty. Clip	.484	.492	1.044

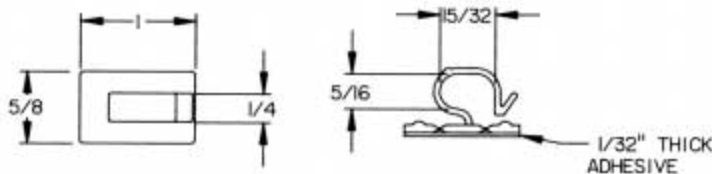
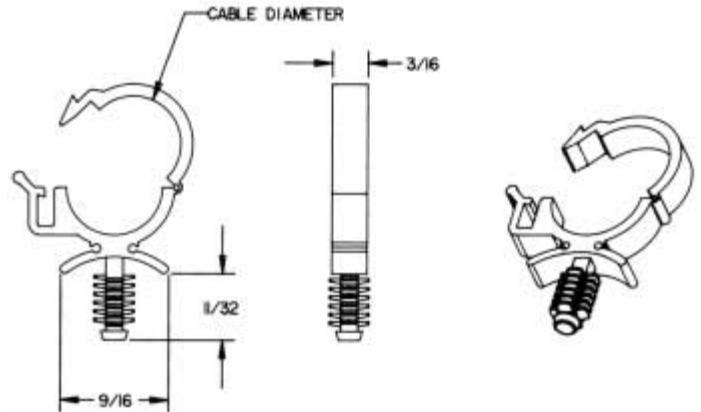


Micro Plastics' Nylon Heavy Duty Cable Clips are designed for cable and wire applications involving greater than usual loads or connections of critical nature. The rugged clip has reinforced side flanges for additional strength and rigidity. Compact design allows this clip to be used on corners, edges or where space is limited. Clip Has hole for screw mounting. Available in size range for 1/8" to 1/2" diameter cable.



RELEASABLE CLAMP ON FIN CLIP BASE

ITEM NUMBER	HOLE DIAMETER	CABLE DIAMETER
23RCFB037	3/16" (4,76)	3/8" (9,52)
23RCFB050	3/16" (4,76)	1/2" (12,7)
23RCFB100	1/4" (6,35)	1" (25,4)



Micro Plastics announces the "Contour Clip." The adhesive-backed part incorporates new design consisting of a hinge type movement in the base which flexes to fit convex or concave surfaces. This flexible base allows the part to be used on cylindrical surfaces such as pipes or tubing, and on irregular surfaces - even around corners. The part molded from nylon and is applied with our standard adhesive-backed tape with an extended paper liner for easy removal of the liner. The part is also available with 3m's VHB (very high bond) tape which develops a high-strength, epoxy type bonding. Simply add "VHB" to the end of the part number.



CONTOUR CLIP

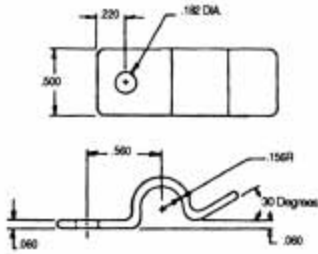
ITEM NUMBER	DESCRIPTION
22CAWC0440	Contour Clip

WIRE HANDLING HARDWARE

SECTION VII

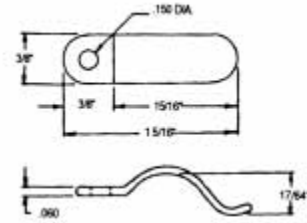
Micro Plastics' Nylon Wire Clip provide fast, secure assembly and routing of wires, standard round cable, flat cable and tubing.

Micro Plastics' Nylon Spring Clips provide fast, secure assembly and routing of wires, standard round cable, flat cable and tubing. The Spring Clip can also be used to mount panels, glass, displays, or signs. To inspect, add or replace wires, simply pull back clip to allow placement. The tough, flexible nylon clip will spring back to hold the material securely. All contact edges are rounded for product protection.



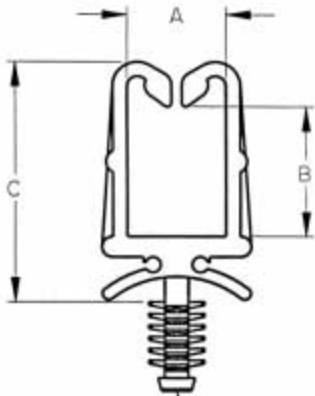
WIRE CLIPS

ITEM NUMBER	DESCRIPTION
22WC500312	WIRE CLIP 1/2 X .312

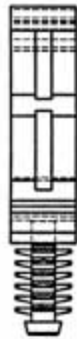


SPRING CLIP

ITEM NUMBER	DESCRIPTION
22SPC375132	SPRING CLIP 3/8 X .132



22WHB SERIES HAS "B" STYLE CLIP



WIRE/CABLE HOLDERS

ITEM NUMBER	A	B	C	HOLE DIA.	PANEL RANGE
22WHA375050	.375	1/2	59/64	.187	VARIABLE
22WHA375075	.375	3/4	1-11/64	.187	VARIABLE
22WHA500075	.500	3/4	1-7/32	.187	VARIABLE
22WHA500100	.500	1	1-15/32	.187	VARIABLE
22WHB375050	.375	1/2	59/64	.187	.030/.040
22WHB375075	.375	3/4	1-11/64	.187	.030/.040
22WHB500075	.500	3/4	1-7/32	.187	.030/.040
22WHB500100	.500	1	1-1/2	.187	.030/.040

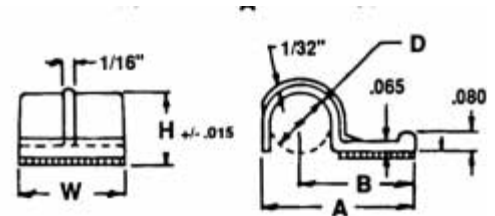
WIRE/CABLE HOLDERS - METRIC SIZES

ITEM NUMBER	A	B	C	HOLE DIA.	PANEL RANGE
22MWHA095127	9.5	12.7	23.4	5mm	VARIABLE
22MWHA095190	9.5	19.0	29.8	5mm	VARIABLE
22MWHA127190	12.7	19.0	31.0	5mm	VARIABLE
22MWHA127254	12.7	25.4	37.3	5mm	VARIABLE

Micro Plastics' nylon Single press clips are the convenient and fast way to install wires and cable to almost any surface. Tough, corrosion resistant nylon 6/6 clip is backed with a quality foam adhesive tape. The single clip is designed to be used in areas where space is limited or in corners or edges and are supplied on easy-to-use perforated liner strips in sets of 6 to 10 pieces. To install, simply pull the clip off of the liner strip and press into place. No holes to drill or screw to turn. Nylon press clips provide a low in-place assembly that is quick and permanent. Polyurethane foam tape has excellent conformability, high temperature and solvent resistance and high ultimate bond strength.



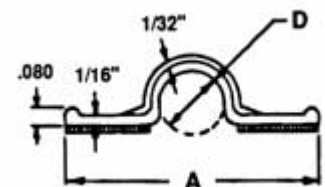
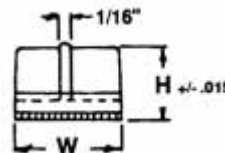
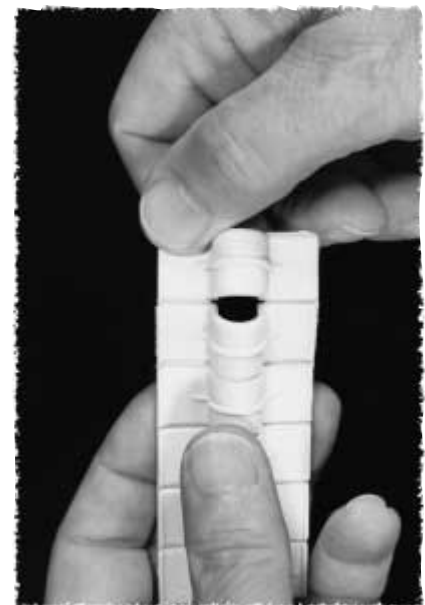
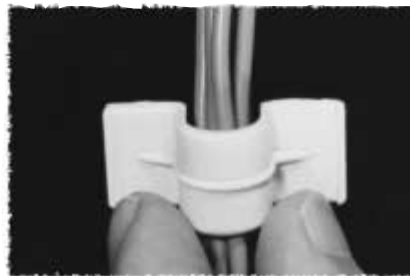
*Packaged 50 pcs. per roll
**Packaged 100 pcs. per roll



SINGLE ADHESIVE BACKED NYLON CABLE CLIPS

ITEM NUMBER	DESCRIPTION	"D"	"A"	"H"	"W"
** 22SPC13037	1/8" SNGL CLIP	1/8" (3,18)	.493 (12,52)	.217 (5,51)	3/8" (9,53)
** 22SPC20000	13/64" SNGL CLIP	13/64" (5,16)	.808 (20,53)	.255 (6,48)	1/2" (12,70)
** 22SPC25550	1/4" SNGL CLIP	1/4" (6,35)	.865 (21,97)	.343 (8,71)	1/2" (12,70)
** 22SPC38562	3/8" SNGL CLIP	3/8" (9,53)	1.000 (25,40)	.475 (12,07)	5/8" (15,88)
* 22SPC50575	1/2" SNGL CLIP	1/2" (12,70)	1.125 (28,58)	.593 (15,06)	3/4" (19,05)

Micro Plastics' nylon double press clips are the convenient and fast way to install wires and cable to almost any surface. Tough, corrosion resistant nylon 6/6 clip is backed with a quality foam adhesive tape. The double clip design develops greater shear loads and holding power and are supplied on easy-to-use perforated liner strips in sets of 6 to 10 pieces. To install, simply pull the clip off of the liner strip and press into place. No holes to drill or screw to turn. Nylon press clips provide a low in-place assembly that is quick and permanent. Polyurethane foam tape has excellent conformability, high temperature and solvent resistance and high ultimate bond strength.



DOUBLE ADHESIVE BACKED NYLON CABLE CLIPS

ITEM NUMBER	DESCRIPTION	"D"	"A"	"H"	"W"
** 22DPC13037	1/8" DBLE CLIP	1/8" (3,18)	.760 (19,30)	.216 (5,49)	3/8" (9,53)
** 22DPC25550	1/4" DBLE CLIP	1/4" (6,35)	1.380 (35,05)	.326 (8,28)	1/2" (12,70)
* 22DPC38062	3/8" DBLE CLIP	3/8" (9,53)	1.505 (38,23)	.455 (11,56)	5/8" (15,88)
* 22DPC50575	1/2" DBLE CLIP	1/2" (12,70)	1.600 (40,64)	.580 (14,73)	3/4" (19,05)

*Packaged 50 pcs. per roll
**Packaged 100 pcs. per roll

WIRE HANDLING HARDWARE

SECTION VII

PROTECT WIRES, CABLES, TUBING AND OTHER OBJECTS FROM SHARP PANEL EDGES.

Continuous Flexible Grommeting can be used for round, square and irregular shaped panels. Flexible grommeting is attached quickly and easily using no special tools. In addition to protecting routed cables, wires, tubing and other objects from chafing or unnecessary cuts, the installed grommeting also puts an attractive finished touch to a product. Continuous flexible grommeting is manufactured to fit over a range of panel thicknesses from .040" to .187". Sheet form materials can include glass, sheet metal and wood. In many cases flexible grommeting will grip the panel tightly and remain in place. Should the panel thickness vary to a point that the grommeting will not adhere tightly by itself, the problem can usually be corrected by a touch of epoxy to keep the grommeting tightly in place. Continuous flexible grommeting comes from the factory in polybagged rolls of 100 feet. Longer lengths can be made available by using bulk spools. Flexible grommeting can also be cut to lengths to meet customer needs.

- ⌘ CONTINUOUS, SOLID OR SERRATED.
- ⌘ COLORS: NATURAL OR BLACK, CUSTOM COLORS AVAILABLE
- ⌘ CUSTOM LENGTHS AVAILABLE FOR VOLUME APPLICATIONS.
- ⌘ FLEXIBILITY, FITS HOLES OF ANY SHAPE OR SIZE
- ⌘ AVAILABLE FROM STOCK IN COILS OF 100 FEET
- ⌘ MATERIAL: POLYETHYLENE

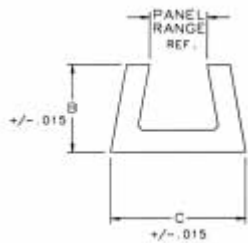


ADD COLOR CODE TO THE END OF EACH PART NUMBER TO SPECIFY COLOR SELECTION: **BK = BLACK**
NA = NATURAL

POLYETHYLENE MATERIAL INFORMATION

POLYETHYLENE grommeting is a lightweight low cost material good for general indoor applications. Polyethylene is not affected by ordinary solvents and resistant to abrasion.

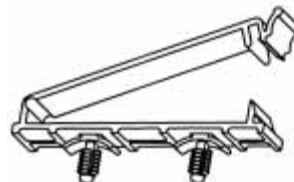
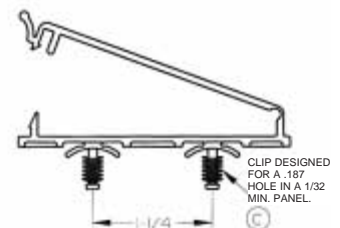
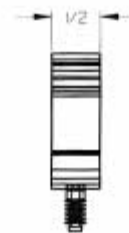
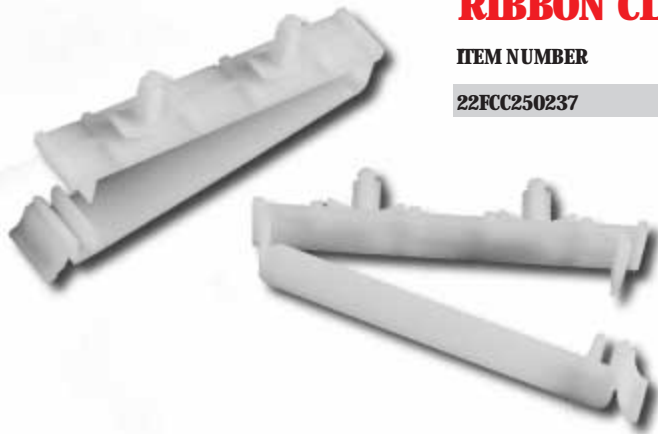
CONTINUOUS FLEXIBLE GROMMETING - NATURAL OR BLACK



ITEM NUMBER	MAX PANEL THICKNESS	"B"	"C"	MATERIAL	TYPE
22FGU0400P__	.040	.190	.130	POIYETHYLENE	UNCUT
22FGS0400P__	.040	.190	.130	POIYETHYLENE	SERRATED
22FGU0520P__	.050	.190	.130	POIYETHYLENE	UNCUT
22FGS0520P__	.050	.190	.130	POIYETHYLENE	SERRATED
22FGU0620P__	.060	.200	.170	POIYETHYLENE	UNCUT
22FGS0620P__	.060	.200	.170	POIYETHYLENE	SERRATED
22FGU0850P__	.085	.200	.170	POIYETHYLENE	UNCUT
22FGS0850P__	.085	.200	.170	POIYETHYLENE	SERRATED
22FGU0100P__	.100	.220	.210	POIYETHYLENE	UNCUT
22FGS0100P__	.100	.220	.210	POIYETHYLENE	SERRATED
22FGU0125P__	.125	.220	.210	POIYETHYLENE	UNCUT
22FGS0125P__	.125	.220	.210	POIYETHYLENE	SERRATED
22FGU0187P__	.187	.270	.260	POIYETHYLENE	UNCUT
22FGS0187P__	.187	.270	.260	POIYETHYLENE	SERRATED

RIBBON CLIPS

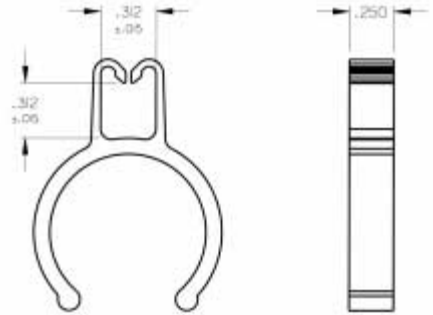
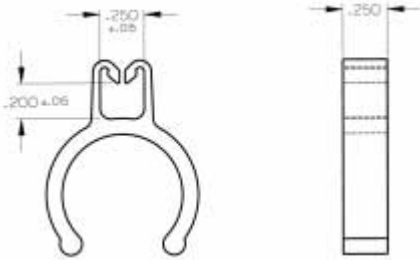
ITEM NUMBER
22FCC250237



CONDUIT CLIPS

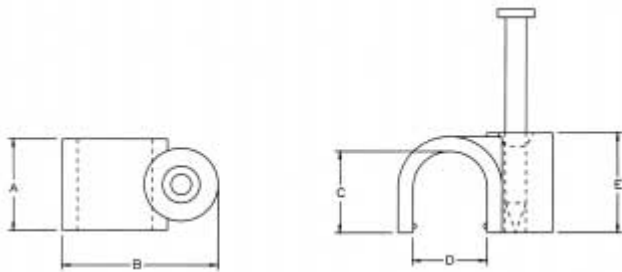


Various wiring, such as telephone wire, is often routed with electrical conduit. "Conduit clips" are designed to snap onto electrical conduit. The integrated wireholder on the clip allows wiring to be secured to the conduit. Installation is faster and easier than with a wire tie, which is often used for this purpose. The clip can be easily removed if necessary. Two sizes are available for 1/2" and 3/4" ID conduit, which will accommodate various wire sizes up to 5/16" diameter. Parts are molded in light weight, chemical and corrosion resistant nylon 6/6.



ITEM NUMBER	DESCRIPTION
23CDC05025	1/2" CONDUIT CLIP

ITEM NUMBER	DESCRIPTION
23CDC07531	3/4" CONDUIT CLIP



Micro Plastics' molded Nail-In Clips are used to safely install cable TV., fiber optics, computer networks, telephone and other communication systems, hydraulic and pneumatic systems. The clips are molded in tough, electrically insulating, ultra violet resistant, high density Polyethylene. Main stress areas of the clip have reinforcing ribs designed into the part to strengthen and absorb the impact. The Nail-In Clips have all contact edges radiused to protect cable or tubing from damage. Micro Plastics' clips are supplied with heat treated, galvanized steel nails pre-assembled, ready for use in masonry, wood, plaster, or stucco. Clips are easily and efficiently installed, resulting in a low in-place cost. Micro Plastics' Nail-In Clips are stocked in the most popular cable sizes ranging from 4 mm to 9 mm including the RG59 and the double shield cables.

*** THESE SIZES ARE NOT SUITABLE FOR USE IN MASONRY.
1,000 PIECE MINIMUM ORDER QUANTITY.**

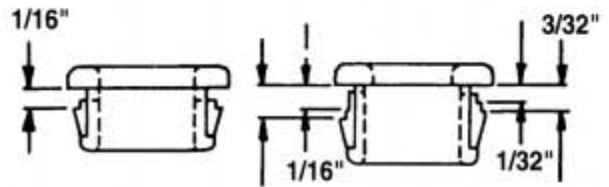
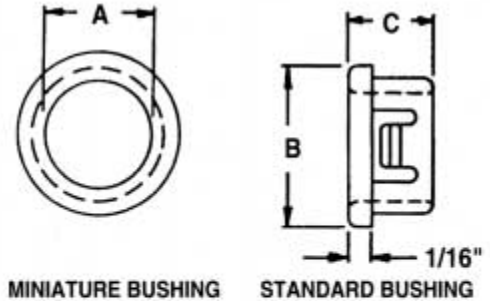
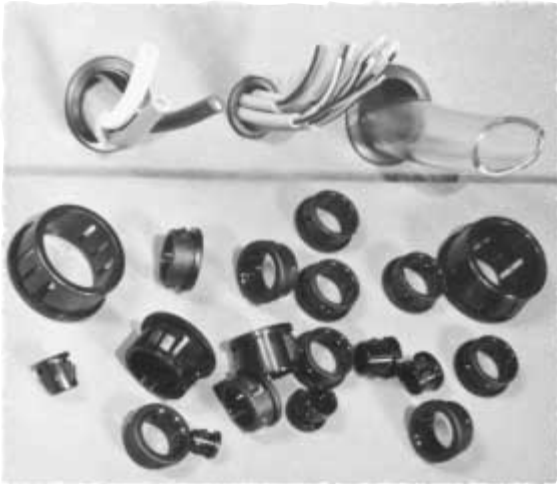
PLASTIC NAIL-IN CLIPS



ITEM NUMBER	DESCRIPTION	A	B	C	D	E
22NCC0400R*	4mm 75 COAX	.210 (5,33)	.375 (9,53)	.160 (4,06)	.160 (4,06)	.215 (5,46)
22NCC0450F*	4.5mm BELL	.205 (5,21)	.398 (10,11)	.105 (2,67)	.218 (5,54)	.175 (4,45)
22NCC0500R*	5mm RG-58	.250 (6,35)	.420 (10,67)	.200 (5,08)	.202 (5,16)	.285 (7,24)
22NCC0700R	7mm RG-6	.285 (7,24)	.535 (13,60)	.263 (6,68)	.265 (6,73)	.340 (8,64)
22NCC0800R	8mm 59TRIAx	.300 (7,62)	.610 (15,49)	.314 (7,98)	.317 (8,05)	.400 (10,16)
22NCC0900F	9mm DUAL RG6	.420 (10,67)	.700 (17,78)	.215 (5,46)	3/8" (9,53)	.335 (8,51)

WIRE HANDLING HARDWARE

SECTION VII



Micro Plastics bushings provide economical protection for wire, cable tubing, and hose from sharp, uneven drilled or punched holes in sheet metal.

The tough, resilient heat stabilized nylon bushings are easily and positively snapped into position without tools.

The bushings are the economical solution to insulate wire, cables, etc. from raw edges in compact designs where internal clearances are critical. Miniature bushings accommodate panels up to 1/16" thickness and require only 1/8" clearance.

- * MATERIAL HEAT STABILIZED NYLON UL 94V2
- * TEMPERATURE INDEX 105 ° C
- * STOCKED IN STANDARD BLACK
- * COLORS AVAILABLE ON REQUEST

NOTE: +/- .015" TOLERANCES on A,B and C DIMENSIONS.

MINIATURE INSULATING BUSHINGS

PART NUMBER	INSIDE DIA. * "A"	HEAD DIA. * "B"	THICKNESS * "C"	HOLE DIA. (PANEL)
22MP01010	.125 (3,2)	.250 (6,4)	.234 (6,2)	.187 (4,8)
22MP01015	.250 (6,4)	.375 (9,5)	.234 (6,2)	.312 (8,0)
22MP01020	.343 (8,8)	.531 (13,5)	.250 (6,4)	.468 (11,9)
22MP01030	.375 (9,5)	.562 (14,3)	.250 (6,4)	.500 (12,7)
22MP01040	.406 (10,3)	.593 (15,2)	.250 (6,4)	.531 (13,5)
22MP01050	.500 (12,7)	.703 (17,9)	.250 (6,4)	.625 (15,9)
22MP01060	.625 (16,0)	.828 (21,0)	.250 (6,4)	.750 (19,0)
22MP01070	.625 (16,0)	.859 (21,5)	.250 (6,4)	.781 (19,9)
22MP01080	.750 (19,0)	.937 (23,8)	.250 (6,4)	.875 (22,2)



ALL ITEMS PACKAGED 1,000 PER BAG

WIRE HANDLING HARDWARE

SECTION
VII

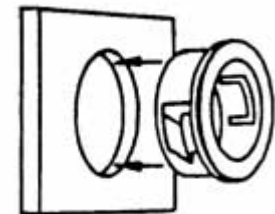
These bushings are available in a large selection of sizes from 1/4" to 2" in various inside diameter openings. Standard bushings are designed with multiple locks to positively snap in panels ranging from 1/32" to 1/8" thickness.

Standard bushings meet Underwriters Laboratories and Canadian Standards Association temperature and pull-out tests.

NOTE: +/- .015" TOLERANCES on A,B and C DIMENSIONS.

STANDARD INSULATING BUSHING

DESCRIPTION	PART DIMENSIONS			CHASSIS DIMENSIONS	
ITEM NUMBER	INSIDE DIA. "A"	HEAD DIA. "B"	THICKNESS "C"	HOLE DIA.	MAXIMUM THICKNESS
* 22MP02502	.125 (3,2)	.312 (8,0)	.312 (8,0)	.250 (6,6)	.062 (1,6)
* 22MP03123	.187 (4,8)	.375 (9,5)	.312 (8,0)	.312 (8,0)	.062 (1,6)
* 22MP03753	.187 (4,8)	.468 (11,9)	.406 (10,3)	.375 (9,5)	.125 (3,2)
* 22MP03754	.250 (6,4)	.468 (11,9)	.406 (10,3)	.375 (9,5)	.125 (3,2)
* 22MP04374	.250 (6,4)	.531 (13,5)	.406 (10,3)	.437 (11,1)	.125 (3,2)
* 22MP04375	.312 (8,0)	.531 (13,5)	.406 (10,3)	.437 (11,1)	.125 (3,2)
* 22MP04376	.243 (6,2)	.531 (13,5)	.406 (10,3)	.437 (11,1)	.125 (3,2)
* 22MP05004	.250 (6,4)	.578 (14,7)	.406 (10,3)	.500 (12,7)	.125 (3,2)
* 22MP05005	.312 (8,0)	.578 (14,7)	.406 (10,3)	.500 (12,7)	.125 (3,2)
* 22MP05006	.375 (9,5)	.578 (14,7)	.406 (10,3)	.500 (12,7)	.125 (3,2)
* 22MP05625	.312 (8,0)	.656 (16,7)	.406 (10,3)	.562 (14,3)	.125 (3,2)
* 22MP05626	.375 (9,5)	.656 (16,7)	.406 (10,3)	.562 (14,3)	.125 (3,2)
* 22MP05627	.437 (11,1)	.656 (16,7)	.406 (10,3)	.562 (14,3)	.125 (3,2)
* 22MP06254	.250 (6,4)	.718 (18,2)	.406 (10,3)	.625 (15,9)	.125 (3,2)
* 22MP06257	.437 (11,1)	.718 (18,2)	.406 (10,3)	.625 (15,9)	.125 (3,2)
* 22MP06258	.500 (12,7)	.718 (18,2)	.406 (10,3)	.625 (15,9)	.125 (3,2)
* 22MP06878	.500 (12,7)	.781 (19,8)	.406 (10,3)	.687 (17,5)	.125 (3,2)
* 22MP06879	.562 (14,3)	.781 (19,8)	.406 (10,3)	.687 (17,5)	.125 (3,2)
* 22MP07506	.375 (9,5)	.843 (21,4)	.406 (10,3)	.750 (19,1)	.125 (3,2)
* 22MP07508	.500 (12,7)	.843 (21,4)	.406 (10,3)	.750 (19,1)	.125 (3,2)
* 22MP07509	.562 (14,3)	.843 (21,4)	.406 (10,3)	.750 (19,1)	.125 (3,2)
* 22MP07510	.625 (15,9)	.843 (21,4)	.406 (10,3)	.750 (19,1)	.125 (3,2)
* 22MP08109	.562 (14,3)	.890 (22,6)	.406 (10,3)	.812 (20,6)	.125 (3,2)
* 22MP08110	.625 (15,9)	.890 (22,6)	.406 (10,3)	.812 (20,6)	.125 (3,2)
** 22MP08706	.375 (9,5)	.953 (24,2)	.453 (11,5)	.875 (22,2)	.125 (3,2)
** 22MP08707	.437 (11,1)	.953 (24,2)	.453 (11,5)	.875 (22,2)	.125 (3,2)
** 22MP08708	.500 (12,7)	.953 (24,2)	.453 (11,5)	.875 (22,2)	.125 (3,2)
** 22MP08709	.562 (14,3)	.953 (24,2)	.453 (11,5)	.875 (22,2)	.125 (3,2)
** 22MP08710	.625 (15,9)	.953 (24,2)	.453 (11,5)	.875 (22,2)	.125 (3,2)
** 22MP08711	.687 (17,4)	.953 (24,2)	.453 (11,5)	.875 (22,2)	.125 (3,2)
** 22MP10012	.750 (19,0)	1.125 (28,6)	.453 (11,5)	1.000 (25,4)	.125 (3,2)
** 22MP10913	.812 (20,6)	1.218 (30,9)	.453 (11,5)	1.093 (27,8)	.125 (3,2)
** 22MP10914	.875 (22,2)	1.218 (30,9)	.453 (11,5)	1.093 (27,8)	.125 (3,2)
** 22MP10915	.937 (23,8)	1.218 (30,9)	.453 (11,5)	1.093 (27,8)	.125 (3,2)
*** 22MP11815	.937 (23,8)	1.312 (33,3)	.453 (11,5)	1.187 (30,2)	.125 (3,2)
*** 22MP12515	.937 (23,8)	1.359 (34,5)	.453 (11,5)	1.250 (31,7)	.125 (3,2)
*** 22MP13716	1.000 (25,4)	1.468 (37,3)	.453 (11,5)	1.375 (34,9)	.125 (3,2)
*** 22MP15017	1.062 (27,0)	1.609 (40,9)	.453 (11,5)	1.500 (38,1)	.125 (3,2)
*** 22MP15018	1.125 (28,5)	1.609 (40,9)	.453 (11,5)	1.500 (38,1)	.125 (3,2)
*** 22MP15021	1.312 (33,3)	1.609 (40,9)	.453 (11,5)	1.500 (38,1)	.125 (3,2)
*** 22MP17522	1.375 (34,9)	1.875 (47,6)	.453 (11,5)	1.750 (44,4)	.125 (3,2)
*** 22MP20026	1.625 (41,2)	2.125 (54,0)	.453 (11,5)	2.000 (50,8)	.125 (3,2)



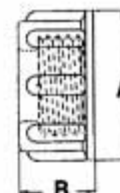
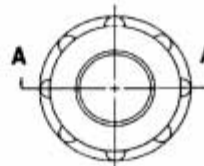
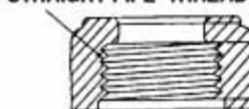
- * Minimum order quantity 1,000 pieces.
- ** Minimum order quantity 500 pieces.
- *** Minimum order quantity 250 pieces.

WIRE HANDLING HARDWARE

SECTION VII

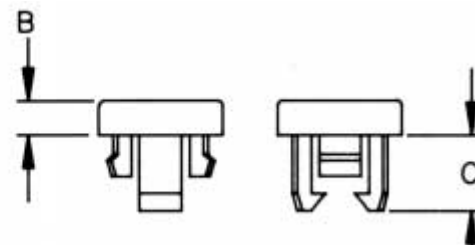
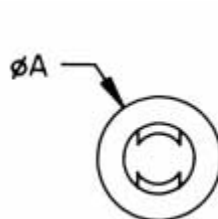
Micro Plastics Threaded Lampcord Bushings are molded in tough Black Heat Stabilized Nylon (Underwriters Laboratories Rated 94V2, Temperature Index 105°C). Micro Plastics has available from stock the most popular sizes of Threaded Lampcord Bushings. These bushings are designed to protect the electrical lampcord from the knife-edge of the threaded pipe used in light fixtures. They will easily thread onto standard lamp fixture 1/8 NPS and 1/4 NPS threaded ends. Micro Plastics bushings will provide reliable, safe and insulated connections. Micro Plastics has available from stock the most popular sizes of Threaded Lampcord Bushings.

STRAIGHT PIPE THREAD



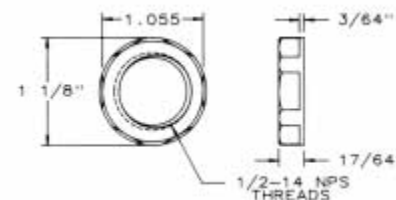
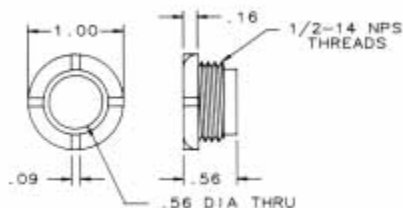
NYLON THREADED LAMPCORD BUSHINGS

ITEM NUMBER	DESCRIPTION	A	B
04MP0125TLB	1/8 NPS	19/32"	9/32"
04MP0250TLB	1/4 NPS	23/32"	3/8"
04MP0375TLB	3/8 NPS	7/8"	7/16"
04MP0500TLB	1/2 NPS	1 1/16"	3/8"



LED HOLDERS FOR STANDARD LED T - 1 3/4

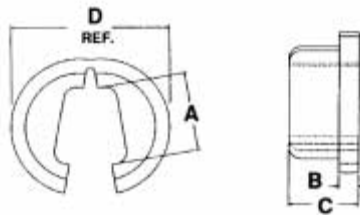
ITEM NUMBER	A	B	C	HOLE SIZE	PANEL RANGE
27LEDH01	.317 (8,.05)	.025 (0,64)	.250 (6,35)	.240 / .247 (6,10) / (6,27)	.070 (1,78)
27LEDH02	.357 (9,07)	.098 (2,49)	.220 (5,59)	.281 / .287 (7,14) / (7,29)	.046 (1,17)



2 PC. NYLON THREADED BUSHING

ITEM NUMBER	THICKNESS	-----NUT DIMENSIONS-----	
		WRENCHING FLATS	THREAD
04MP0500TB	17/64"	1-1/16"	1/2 NPS

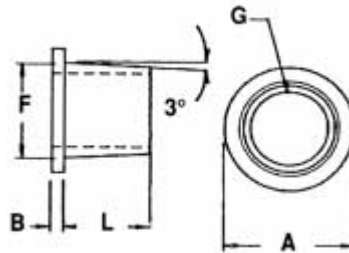
Micro Plastics' exclusive anti-twist design was developed to eliminate the electrical cord from twisting inside the lamp. Anti-Twist Bushings' convenient opening allows it to slip easily around the cord. When the Lampcord Bushing is threaded over the cord the two bushings slip together allowing for easy installation onto any standard lamp fixture. Anti-Twist Bushing fits a 1/8" pipe thread and accommodates a standard cord size of SPT-1, 18,2. The bushing was designed to be used with Micro Plastics' standard 1/8" Lamp Cord Bushing. Other sizes will be tooled upon request.



ANTI-TWIST BUSHING

ITEM NUMBER	DESCRIPTION	A	B	C	D Ref.
04MP0125ATB	1/8" ANTI-TWIST	.195	.050	.175	.390
04MP0250ATB	1/4" ANTI-TWIST	.195	.050	.175	.500

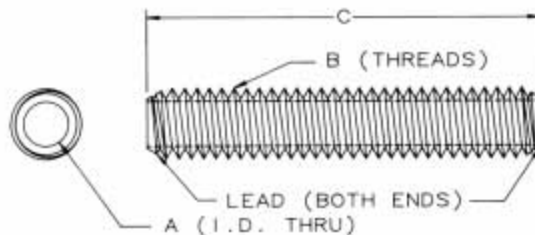
Micro Plastics Lamp Snap Bushings are an economical approach to the protection of lampcord insulation, from the sharp and often burred ends of the standard threaded pipe used in lamp manufacture. Bushings are molded of black Hi-density Polyethylene, to allow flex-ability for easy installation, and durability for long lasting cord protection.



NYLON LAMP SNAP BUSHINGS

Minimum order quantity 1,000 pieces.

ITEM NUMBER	DESCRIPTION	L	A	B	F	G
04MP0125SB	1/8" SNAP	1/4"	3/8"	1/32"	.290	.230
04MP0250SB	1/4" SNAP	15/32"	27/64"	1/32"	.375	.312



PARTS ARE MOLDED IN APPLIANCE WHITE NYLON

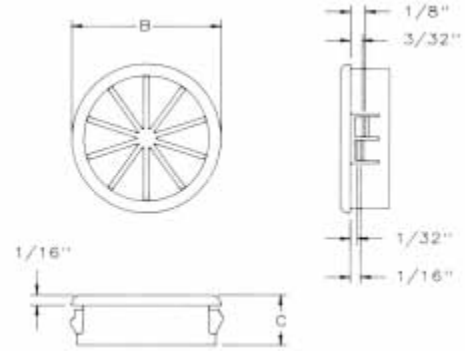
NYLON THREADED TUBING

ITEM NUMBER	A	B	C
04MP3500TT	23/64"	1/4-18 NPS	3 1/2 " +/- 1/16"
04MP3250TT	23/64"	1/4-18 NPS	3 1/4" +/- 1/16"

WIRE HANDLING HARDWARE

SECTION VII

Micro Plastics Nylon "ALL-FIT" Adjustable Bushings are designed to protect wire, cable, tubing or irregular shaped items from sharp, unfinished edges. The specially designed, resilient multiple supports absorb shock and vibration, and adjust to accept various diameters and shapes. The All-Fit Bushing is equipped with multiple locks to positively snap in panel thicknesses ranging from 1/32" to 1/8".



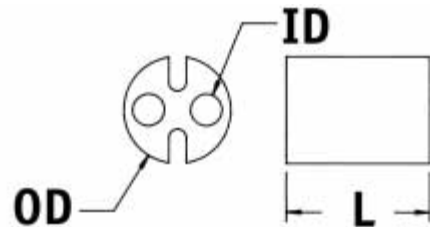
ALL-FIT ADJUSTABLE BUSHINGS

DESCRIPTION ITEM NUMBER	CHASSIS HOLE DIA.	DIMENSIONS MAXIMUM THICKNESS	HEAD DIA. *B	PART DIMENSIONS THICKNESS *C	MAXIMUM ID.
22AF0625	.625 (15,9)	.125 (3,2)	.718 (18,2)	.406 (10,3)	.437 (11,1)
22AF0750	.750 (19,0)	.125 (3,2)	.859 (21,8)	.390 (9,9)	.500 (12,7)
22AF0812	.812 (20,6)	.125 (3,2)	.890 (22,6)	.390 (9,9)	.500 (12,7)
22AF0875	.875 (22,2)	.125 (3,2)	.937 (23,8)	.453 (11,5)	.562 (14,2)
22AF1000	1.000 (25,4)	.125 (3,2)	1.062 (26,9)	.453 (11,5)	.750 (19,0)
22AF1093	1.093 (27,8)	.125 (3,2)	1.156 (29,3)	.453 (11,5)	.812 (20,6)

MINIMUM ORDER QUANTITY 1,000 PIECES.

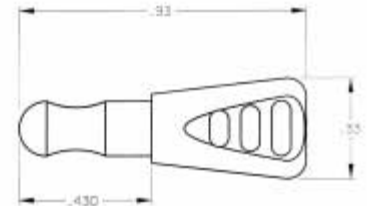
* +/- .015 TOLERANCE

LED SPACER



ITEM NUMBER	OD	ID	LENGTH
27LED2SPO250	3/16" (4,76)	.056" (1,42)	1/4" (6,35)
27LED2SPO375	3/16" (4,76)	.056" (1,42)	3/8" (9,53)
27LED2SPO500	3/16" (4,76)	.056" (1,42)	1/2" (12,70)

Micro Plastics' Dummy Plugs are designed to electrically isolate unused bullet type "female" terminals in wiring harnesses, to prevent short circuits due to harness movement. Molded of tough electrically insulating black Nylon, these plugs are easily inserted with normal hand pressure and removable for addition of electrical accessories.



DUMMY PLUGS

ITEM NUMBER
DP401030

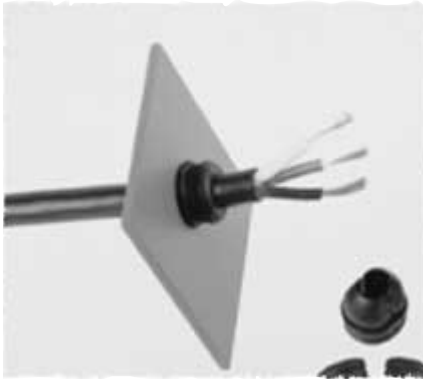


WIRE HANDLING HARDWARE

SECTION
VII

Micro Plastics New (Patented) "EZ" Strain Relief Bushing is designed to save money. This Strain Relief Bushing eliminates several costly and fatigue prone assembly steps.

To install, the "EZ" Bushing hinged halves are simply folded over the wire or cable. No special orientation or alignment is necessary! Conventional Strain Relief Pliers are applied to the specially designed gripped grooves and the bushing is inserted and locked in place in one smooth motion. The "EZ" Strain Relief Bushing design incorporates a bullet shaped, streamlined nose and does away with the large cumbersome straps that complicate the assembly of the conventional style bushing in confined areas. Micro Plastics "EZ" Strain Relief Bushings securely anchor, absorb and protect cables and wires from push/pull and twist forces and insulate them from irregular or sharp panel edges. These tough nylon bushings meet all Underwriters Laboratories stringent pull-out and temperature specifications.



"EZ" STRAIN RELIEF BUSHINGS

*EASIIY INSTALLED
*SECURE IN USE

*COMPETITIVELY PRICED
*FULLY APPROVED

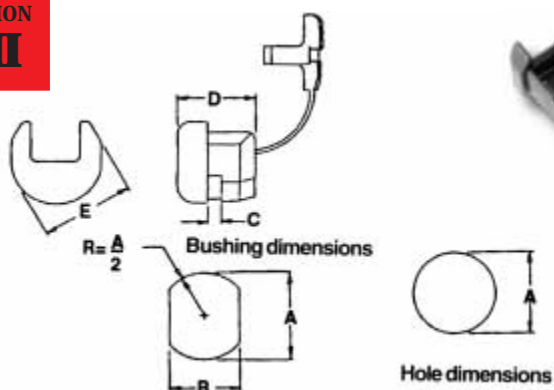
DESCRIPTION	DIMENSIONS									
	MOUNTING HOLE					BUSHINGS				
ITEM NUMBER	UL/CSA DESCRIPTION	CROSS SECTION	CABLE SIZE	CABLE TYPE	GAUGE (AWG)	DIAMETER A	FLATS B	MAX PANEL THICKNESS C	LENGTH D	WIDTH E
23MP04KEZH*	MP4KEZH	Flat	0.150 X 0.280 (3,8 X 7,1)	HPN	18/2	0.500 (12,7)	0.465 (11,8)	0.100 (2,5)	0.550 (14,0)	0.505 (12,8)
			0.150 X 0.280 (3,8 X 7,1)	HPN	16/2	0.500 (12,7)	0.465 (11,8)	0.100 (2,5)		
23MP04KEZS*	MP4KEZS	Flat	0.150 X 0.280 (3,8 X 7,1)	SPT	18/2	0.500 (12,7)	0.465 (11,8)	0.100 (2,4)	0.580 (14,7)	0.510 (12,9)
			0.150 X 0.280 (3,8 X 7,1)	SPT	16/2	0.500 (12,7)	0.465 (11,8)	0.100 (2,4)		
23MP04NEZH*	MP4NEZH	Flat	0.150 X 0.280 (3,8 X 7,1)	HPN	18/2	0.500 (12,7)	0.465 (11,8)	0.062 (1,6)	0.550 (14,0)	0.505 (12,8)
23MP04NEZS*	MP4NEZS	Flat	0.150 X .280 (3,8 X 7,1)	SPT	18/2	0.500 (12,7)	0.465 (11,8)	0.062 (1,6)	0.570 (14,4)	0.500 (12,7)
			0.160 X 0.300 (4,1 X 7,6)	SPT	16/2	0.500 (12,7)	0.465 (11,8)	0.062 (1,6)		
23MP06N34EZ*	MP6N34EZ	Round	0.300 (7,2)	SJT	16/3	0.625 (15,9)	0.550 (14,0)	0.062 (1,6)	0.740 (18,8)	0.640 (16,2)
			0.355 (9,0)	SJ	16/3	0.625 (15,9)	0.550 (14,0)	0.062 (1,6)		
			0.405 (10,2)	SJT	18/3	0.625 (15,9)	0.550 (14,0)	0.062 (1,6)		
23MP06P34EZ*	MP 6P34EZ	Round	0.300 (7,2)	SJT	16/3	0.625 (15,9)	0.550 (14,0)	0.125 (3,2)	0.740 (18,8)	0.640 (16,2)
			0.355 (9,0)	SJ	16/3	0.625 (15,9)	0.550 (14,0)	0.125 (3,2)		
			0.405 (10,2)	SJT	18/3	0.625 (15,9)	0.550 (14,0)	0.125 (3,2)		
23MP06N4EZ*	MP6N4EZ	Round	0.300 (7,2)	SJT	18/2	0.625 (15,9)	0.550 (14,0)	0.062 (1,6)	0.730 (18,5)	0.640 (16,2)
			0.390 (9,9)	SJO	18/2	0.625 (15,9)				

*MINIMUM ORDER QUANTITY 1,000 PIECES. **MINIMUM ORDER QUANTITY 500 PIECES. ***MINIMUM ORDER QUANTITY 250 PIECES. ****MINIMUM ORDER QUANTITY 100 PIECES.

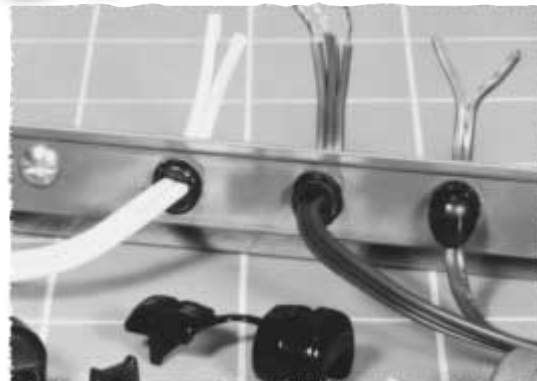


WIRE HANDLING HARDWARE

SECTION VII



Micro Plastics' one piece Strain Relief Bushings securely anchor, absorb and protect cables and wires from push/pull and twist forces and insulate them from irregular or sharp panel edges. These tough nylon bushings meet all Underwriters Laboratories' stringent pull-out and temperature specifications. They are easily and quickly installed with Micro Plastics special installation pliers or other hand or production tools. Stock sizes in black H.S. Nylon, temperature index 105° Centigrade (U.L. rated 94V2). Micro Plastics can tool other sizes upon request.



STRAIN RELIEF BUSHINGS

DESCRIPTION

DIMENSIONS

MOUNTING HOLE

BUSHINGS

ITEM NUMBER	UL/CSA DESCRIPTION	CROSS SECTION	CABLE SIZE	CABLE TYPE	GAUGE (AWG)	STRAP TYPE	DIAMETER A	FLATS B	MAX PANEL THICKNESS C	LENGTH D	WIDTH E
23MP02M40*	MP2M4	Round	0.156 X 0.187 (3,9 X 4,7)	AWN	14	"Y"	0.375 (9,5)	.0330 (8,4)	0.062 (1,6)	0.410 (10,4)	0.391 (9,9)
23MP02M50*	MP2M5	Round	0.125 X 0.156 (3,2 X 3,9)	AWN	16	"Y"	0.375 (9,5)	0.330 (8,4)	0.062 (1,6)	0.410 (10,4)	0.391 (9,9)
23MP02L10*	MP2L1	Flat	0.120 X 0.220 (3,0 X 3,9)	SPT-1	18/2	"Y"	0.375 (9,5)	0.330 (8,4)	0.125 (3,2)	0.410 (10,4)	0.420 (10,7)
23MP02P40*	MP2P4	Flat	0.120X0.220 (3,0 X 5,6)	SPT-1	18/2	"Y"	.0375 (9,5)	0.330 (8,4)	0.062 (1,6)	0.410 (10,4)	0.420 (10,7)
23MP03P40*	MP3P4	Flat	0.120 X 0.220 (3,0 X 5,6)	SP-1 SPT-1	18/2 18/2	"Y"	0.437 (11,1)	0.390 (9,9)	0.062 (1,6)	0.410 (10,4)	0.484 (12,3)
23MP04K10*	MP4K1	Flat	0.150 X 0.400 (3,8 X 10,1) 0.160 X 0.300 (4,1 X 7,6) 0.160 X 0.300 (4,1 X 7,6) 0.150 X 0.280 (3,8 X 7,1) 0.150 X 0.280 (3,8 X 7,1)	SPT-2 HPN SPT-2 HPN SPT-2	18/3 16/2 16/2 18/2 18/2	"Y"	0.500 (12,7)	0.460 (11,7)	0.095 (2,4)	0.495 (12,6)	0.565 (14,4)
23MP04K1Z*	MP4K1Z	Flat	0.150 X 0.400 (3,8 X 10,1) 0.160 X 0.300 (4,1 X 7,6) 0.160 X 0.300 (4,1 X 7,6) 0.150 X 0.280 (3,8 X 7,1) 0.150 X 0.280 (3,8 X 7,1)	SPT-2 HPN SPT-2 HPN SPT-2	18/3 16/2 16/2 18/2 18/2	"Z"	0.500 (12,7)	0.460 (11,7)	0.095 (2,4)	0.495 (12,6)	0.565 (14,4)
23MP04L10	MP4L10	Flat	0.150 X 0.400 (3,8 X 10,1) 0.160 X 0.300 (4,1 X 7,6) 0.160 X 0.300 (4,1 X 7,6) 0.150 X 0.280 (3,8 X 7,1) 0.150 X 0.280 (3,8 X 7,1)	SPT-1 HPN SPT-2 HPN SPT-2	18/3 16/2 16/2 18/2 18/2	"Z"	0.500 (12,7)	0.460 (11,7)	0.187 (4,7)	0.495 (12,6)	0.565 (14,4)

*MINIMUM ORDER QUANTITY 1,000 PIECES. **MINIMUM ORDER QUANTITY 500 PIECES. ***MINIMUM ORDER QUANTITY 250 PIECES. ****MINIMUM ORDER QUANTITY 100 PIECES.



WIRE HANDLING HARDWARE

**SECTION
VII**

STRAIN RELIEF BUSHINGS

DESCRIPTION ----- **DIMENSIONS** -----
MOUNTING HOLE ----- **BUSHINGS** -----

ITEM NUMBER	UL/CSA DESCRIPTION	CROSS SECTION	CABLE SIZE	CABLE TYPE	GAUGE (AWG)	STRAP TYPE	DIAMETER A	FLATS B	MAX PANEL THICKNESS C	LENGTH D	WIDTH E
23MP04K40 *	MP4K4	Flat	0.120 X 0.300 (3,0 X 7,6)	SPT-1 SPT-2 HPN	18/3 18/2 18/2	"Y"	0.500 (12,7)	0.465 (11,8)	0.100 (2,5)	0.406 (10,3)	0.578 (14,7)
23MP04L40 *	MP4L4	Flat	0.120 X 0.300 (3,0 X 7,6)	SPT-1 SPT-2 HPN	18/3 18/2 18/2	"Y"	0.500 (12,7)	0.465 (11,8)	0.156 (3,9)	0.406 (10,3)	0.578 (14,7)
23MP04N40 *	MP4N4	Flat	0.120 X 0.300 (3,0 X 7,6)	SPT-1 SPT-2 HPN	18/3 18/2 18/2	"Y"	0.500 (12,7)	0.465 (11,8)	0.062 (1,6)	0.406 (10,3)	0.578 (14,7)
23MP04J40 *	MP4J4	Flat	0.120 X 0.300 (3,0 X 7,6)	SPT-1 SPT-2 HPN	18/3 18/2 18/2	"Y"	0.500 (12,7)	0.465 (11,8)	0.032 (1,6)	0.406 (10,3)	0.578 (14,7)
23MP05K40 *	MP5K4	Flat	0.150 x .400 (3,8 x 10,1)	SPT-2	16/2	"Y"	0.562 (14,3)	0.530 (13,5)	0.125 (3,2)	0.609 (15,5)	0.625 (15,9)
23MP05KN4 *	MP5KN4	Flat	0.150 x 0.400 (3,8 x 10,1) 0.160 x 0.300 (4,1 x 7,6)	SPT-2 SPT-2	18/3 16/2	"Y" "Y"	0.562 (14,3)	0.530 (13,5)	0.062 (1,6)	0.609 (15,5)	0.625 (15,9)
23MP05N40 *	MP5N4	Round	0.250 (6,4) 0.255 (6,5) 0.290 (7,4)	SV SVT SV SVT HPD	18/2 18/2 18/3 18/3 16/2	"Y"	0.500 (12,7) 0.500 X 0.515 (12,7 X 13,1) 0.500 X 0.515 (12,7 X 13,1)	0.450 (11,4)	0.062 (1,6)	0.438 (11,1)	0.578 (14,7)
23MP05P40 *	MP5P4	Round	0.250 (6,4) 0.255 (6,5) 0.290 (7,4)	SV SVT SV SVT HPD	18/2 18/2 18/3 18/3 16/2	"Y"	0.500 (12,7) 0.500 X 0.515 (12,7 X 13,1) 0.500 X 0.515 (12,7 X 13,1)	0.450 (11,4)	0.100 (2,5)	0.438 (11,1)	0.578 (14,7)
23MP05W10 *	MP5W1	Flat	0.120 x 0.300 (3,0 x 7,6) 0.160 x 0.300 (4,1 x 7,6) 0.160 x 0.410 (4,1 x 10,4) 0.160 x 0.370 (4,1 x 9,4)	SPT-2 SPT-2 SPT-2 HPN	18/3 16/2 16/3 16/3	"Y"	0.562 (14,3)	0.530 (13,5)	0.125 (3,2)	0.609 (15,5)	0.625 (15,9)
23MP06N34 *	MP6N34	Round	0.355 (9,0) 0.405 (10,2) 0.430 (10,9)	SJ SJT SJT	16/3 18/3 16/3	"Y"	0.625 (15,9)	0.550 (14,0)	0.062 (1,6)	0.580 (14,7)	0.703 (17,9)
23MP06N35 *	MP6N35	Round	0.390 (9,9) 0.390 (9,9) 0.405 (10,3) .405 (10,3) 0.390 (9,9)	SJO SJ SJT SJO SJT	18/2 18/2 16/2 18/2 18/2	"Y"	0.625 (15,9)	0.550 (14,0)	0.062 (1,6)	0.580 (14,7)	0.703 (17,9)
23MP06N40 **	MP6N4	Round	0.300 (7,2)	SJT SJO	18/2 18/2	"Y"	0.625 (15,9)	0.550 (14,0)	0.062 (1,6)	0.580 (14,7)	0.703 (17,9)
23MP06N44 **	MP6N44	Flat	0.120 X 0.300 (3,0 X 7,6)	SPT-1	18/3	"Y"	0.625 (15,9)	0.570 (14,4)	0.062 (1,6)	0.600 (15,2)	0.690 (17,5)

*MINIMUM ORDER QUANTITY 1,000 PIECES. **MINIMUM ORDER QUANTITY 500 PIECES. ***MINIMUM ORDER QUANTITY 250 PIECES. ****MINIMUM ORDER QUANTITY 100 PIECES.



WIRE HANDLING HARDWARE

SECTION VII

STRAIN RELIEF BUSHINGS

DESCRIPTION ----- DIMENSIONS -----
MOUNTING HOLE ----- BUSHINGS -----

ITEM NUMBER	UL/CSA DESCRIPTION	CROSS SECTION	CABLE SIZE	CABLE TYPE	GAUGE (AWG)	STRAP TYPE	DIAMETER A	FLATS B	MAX PANEL THICKNESS C	LENGTH D	WIDTH E
23MP06N45 **	MP6N45	Flat	0.120 X 0.300 (3,0 X 7,6)	SPT-1	18/3	"Y"	0.625 (15,9)	0.545 (13,8)	0.062 (1,6)	0.600 (15,2)	0.690 (17,5)
23MP06P34 **	MP6P34	Round	0.325 - 0.360 (8,3 - 9,1)	SJ SJT SJO	18/3 16/3, 18/3 18/3	"Y"	0.625 (15,9)	0.550 (14,0)	0.125 (3,2)	0.580 (14,7)	0.703 (17,9)
23MP06P35 **	MP6P35	Round	0.325 - 0.360 (8,3 - 9,1)	SJ SJT SJO	18/2,18/3,16/2 16/2,18/2 18/2,16,2,18/3	"Y"	0.625 (15,9)	0.550 (14,0)	0.125 (3,2)	0.580 (14,7)	0.703 (17,9)
23MP06L10 **	MP6L1	Round	0.325 - 0.430 (8,3 - 10,9)	SJ SJT SJO	18/2,18/3 16/2,16/3	"Z"	0.625 (15,9)	0.550 (14,0)	0.125 (3,2)	0.666 (16,9)	0.725 (18,4)
23MP06P40 **	MP6P4	Round	0.300 (7,6)	SJ SJT SJO	18/2 18/2 18/2	"Y"	0.625 (15,9)	0.550 (14,0)	0.125 (3,2)	0.580 (14,7)	0.703 (17,9)
23MP06W10 *	MP6W1	Round	0.300 (7,6)	SJ SJT SJO	18/2 18/2 18/2	"Y"	0.500 (12,7)	0.465 (11,8)	0.090 (2,3)	0.437 (11,1)	0.563 (14,3)
23MP07K20 ***	MP7K2	Round	0.325 X 0.360 (8,3 X 9,1)	SJ SJT SJO	18/4,16/2,16/3,14/2, 18/3,16/3 14/2,16/3,18/4	"Z"	0.875 (22,2)	0.770 (19,6)	0.125 (3,2)	0.750 (19,1)	0.922 (23,4)
23MP07P20 **	MP7P2	Round	0.360 (9,1) 0.370 (9,4) 0.405 (10,3) 0.430 (10,9) 0.405 (10,3) 0.430 (10,9) 0.405 (10,3) 0.390 (9,9) 0.390 (9,9) 0.405 (10,3)	SJTO SJT S S STO STO S S STO STO	18/4 14/3 18/3 16/3 18/3 16/3 16/2 18/2 16/2	"X"	0.750 (19,0)	0.660 (16,8)	0.125 (3,2)	0.745 (18,9)	0.830 (21,0)
23MP07K30 ***	MP7K3	Round	0.325 - 0.360 (8,3 - 9,1)	SJ SJT SJO	18/3,16/2 16/2 18/3,16/2	"Z"	0.875 (22,2)	0.770 (19,6)	0.125 (3,2)	0.750 (19,1)	0.922 (23,4)
23MP07P30 **	MP7P3	Flat	0.160 X 0.410 (4,1 X 10,4)	SPT-2	16/3	"Z"	0.736 (18,7)	0.657 (16,7)	0.125 (3,2)	0.590 (14,9)	0.785 (19,9)
23MP07W20 ***	MP7W2	Round	0.370 - 0.425 (9,4 - 10,8) 0.390 - 0.430 (9,9 - 10,9)	SJT S STO	14/3 12/3 18/3,16/3 16/2,16,3,18/3	"Z"	0.875 (22,2)	0.770 (19,6)	0.125 (3,2)	0.750 (19,1)	0.922 (23,4)
23MP08P20 ***	MP8P2	Round	0.530 - 0.600 (13,5 - 15,2)	S ST	14/2,14/3 12/2	"Z"	0.875 (22,2)	0.840 (21,3)	0.125 (3,2)	0.812 (20,6)	0.922 (23,4)
23MP09P20 ****	MP9P2	Round	0.570 (14,4) 0.640 (16,3) 0.650 (16,5) 0.700 (17,7)	S S S S	12/2 12/3 10/2 10/3	"Y"	1.093 (27,7) 1.125 (28,5) 1.093 (27,7) 1.187 (30,1)	1.000 (25,4) 1.000 (25,4) 1.000 (25,4) 1.000 (25,4)	0.281 (7,1) 0.281 (7,1) 0.281 (7,1) 0.281 (7,1)	0.990 (25,1) 0.990 (25,1) 0.990 (25,1) 0.990 (25,1)	1.215 (30,8) 1.215 (30,8) 1.215 (30,8) 1.215 (30,8)

*MINIMUM ORDER QUANTITY 1,000 PIECES. **MINIMUM ORDER QUANTITY 500 PIECES. ***MINIMUM ORDER QUANTITY 250 PIECES. ****MINIMUM ORDER QUANTITY 100 PIECES.



STRAIN RELIEF BUSHINGS

ITEM NUMBER	UL/CSA DESCRIPTION	CROSS SECTION	CABLE SIZE	CABLE TYPE	GAUGE (AWG)	STRAP TYPE	DIMENSIONS				
							DIAMETER A	FLATS B	MAX PANEL THICKNESS C	LENGTH D	WIDTH E
23MP30-10 **	MP30-1	Flat	0.160 X 0.410 (4.1 X 10.4) 0.120 X 0.300 (3.0 X 7.6)	SPT-2 SPT-1	16/3	"Z"	0.560 (14.2)	0.730 (18.5)	0.125 (3.2)	0.670 (17.0)	0.750 (19.6)
23MP03020 *	MP302	Flat	0.150 X 0.400 (32.8 X 10.1)	SPT-2	18/3	"Z"	0.625 X 0.375 (15.9 X 9.5)	0.625 (15.9)	0.100 (2.5)	0.460 (11.6)	0.660 (16.7)
			0.160 X 0.410 (4.1 X 10.4)	SPT-2	18/3		0.625 X 0.375 (15.9 X 9.5)	0.625 (15.9)	0.100 (2.5)	0.460 (11.6)	0.660 (16.7)
			0.320 X 0.650 (8.1 X 16.5)	SPT-3	16/3		0.625 X 0.375 (15.9 X 9.5)	0.625 (15.9)	0.100 (2.5)	0.460 (11.6)	0.660 (16.7)
23MP31-20 ***	MP31-2	Flat	0.425 - 0.475 (10.8 - 12.1)	SJT	12/3	"Z"	0.875 (22.2)	0.840 (21.3)	0.125 (3.2)	0.812 (20.6)	0.922 (23.4)
		Round	0.180 X 0.425 (4.5 X 10.8)	SPT-3	12/3						
23MP33-10 **	MP33-10	Flat	0.245 X 0.425 (6.2 X 10.8)	SPT-3	16/3	"Z"	0.750 X 0.875 (19.1 X 22.2)	0.875 (22.2)	0.125 (3.2)	0.770 (19.5)	0.895 (22.7)
			0.240 X 0.420 (6.1 X 10.6)	SPT-3	14/2		0.750 X 0.875 (19.1 X 22.2)	0.875 (22.2)	0.125 (3.2)	0.770 (19.5)	0.895 (22.7)
			0.240 X 0.525 (6.1 X 13.3)	HPN	14/3		0.750 X 0.875 (19.1 X 22.2)	0.875 (22.2)	0.125 (3.2)	0.770 (19.5)	0.895 (22.7)
23MP34-2X ***	MP34-2X	Flat	0.240 X 0.420 (6.1 X 10.7)	SPT-3	14/3	"X"	0.875 (22.2)	0.840 (21.3)	0.125 (3.2)	0.812 (20.6)	0.922 (23.4)
			0.290 X 0.650 (7.4 X 16.5)		12/3						

90° ANGLE STRAIN RELIEF BUSHINGS

23MP13L10 *	MP13L1	Flat	0.120 X 0.220 (3.0 X 5.6)	SPT-1	18/2	"Z"	0.437 (11.1)	0.390 (9.9)	0.062 (1.6)	0.500 (12.7)	0.510 (12.9)
23MP14L10	MP14L1	Flat	0.150 X 0.280 (3.8 X 7.1)	SPT-2	18/2,16/2	"Z"	0.500 (12.7)	0.450 (11.4)	0.100 (2.5)	0.687 (17.5)	0.563 (14.3)
			0.160 X 0.300 (4.1 X 7.6)	HPN	16/2						
23MP15L10 *	MP15L1	Round	0.250 X 0.265 (6.4 X 6.7)	SV	8/2,18/3	"Z"	0.500 (12.7)	0.450 (11.4)	0.100 (2.5)	0.687 (17.5)	0.562 (14.3)
23MP16L10 **	MP16L1	Flat	.150 X .400 (3/8) X (10.2)	SP-2	18/3	"Z"	0.562 (14.3)	0.525 (13.3)	.125 (3.2)	7/8 (22.2)	5/8 (15.9)
			.160 X .370 (4.1) X (9.4)	HPN	16/3						
			.190 X .350 (4.8) X (8.9)	SPT-3	18/2						
			.200 X .370 (5.1) X (9.4)		16/2						

*MINIMUM ORDER QUANTITY 1,000 PIECES. **MINIMUM ORDER QUANTITY 500 PIECES. ***MINIMUM ORDER QUANTITY 250 PIECES. ****MINIMUM ORDER QUANTITY 100 PIECES.



WIRE HANDLING HARDWARE

SECTION VII

STRAIN RELIEF TOOLS

STANDARD

ITEM NUMBER
23MPT0100



Micro Plastics' Standard adjustable Strain Relief Assembly Pliers. An indispensable tool for fast, accurate assembly of bushings.

ERGONOMIC

ITEM NUMBER
23MPET0100

Micro Plastics' Adjustable Ergonomic Strain Relief Tool has been carefully designed to help reduce the wrist fatigue associated with bushing installation. The handles are preset to a specified angle, allowing the hand and wrist of the operator to naturally align during normal use. This tool is fully adjustable and will install all sizes of micro plastics strain relief bushings.



PNEUMATIC

ITEM NUMBER
23PMPT0100

Micro Plastics' Pneumatic Strain Relief Installation Tool is designed to aid in rapid assembly of strain relief bushings. The easy finger tip actuation of this air tool greatly lessens the gripping power necessary to install bushings and reduces the hand and wrist fatigue generated during moderate to high volume



manufacturing. The tool operates on standard shop air from 50 to 90 PSI. Low weight, only 24 ounces. Tools are configured prior to shipping. For specific sizes, please specify strain relief bushing sizes to be installed when ordering.

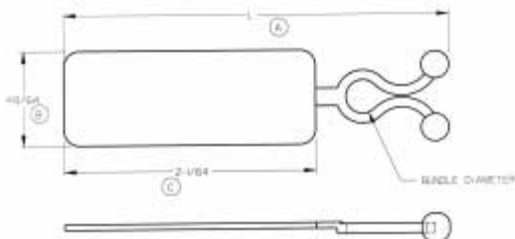
PNEUMATIC ERGONOMIC

ITEM NUMBER
23PMPET0100

Micro Plastics' Pneumatic-Ergonomic Strain Relief Installation Tool has been carefully designed to help reduce the wrist fatigue associated with the rapid assembly of strain relief bushings. The easy trigger-type actuation of this air tool, in combination with the ergonomic angle of the hand grip, allow natural alignment of the wrist and hand during normal bushing installation. The tool operates on standard shop air from 50-90 PSI. Lightweight, only 18 ounces. Tools are configured prior to shipping. Please specify strain relief bushing sizes to be installed when ordering.



NOT AVAILABLE FOR
HOLE SIZES LARGER THAN 3/4"

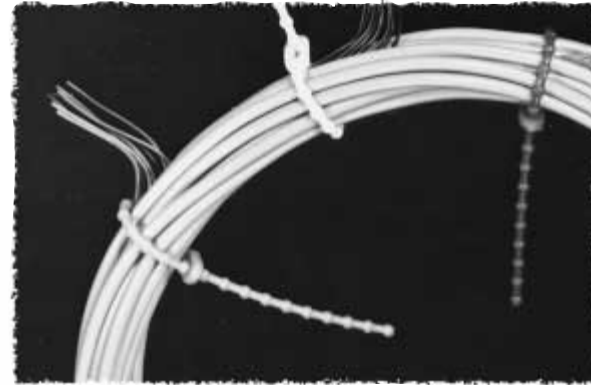
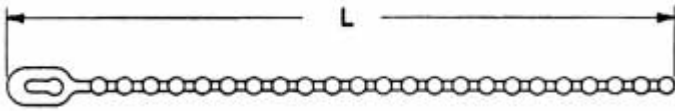


Nylon "EZ" twist lock with integral label area for writing. Permanent ink pens, felt tip pens, pressure-sensitive adhesive labels, or even Post-it® notes can be used on polished label area.



LABEL TWIST LOCK

ITEM NUMBER	BUNDLE DIAMETER	L
23EZLB0250	1/4" (6,35)	3-3/32 (78,59)
23EZLB0375	3/8" (9,53)	3-9/32 (83,34)



Micro Plastics Beaded Ties provide economical temporary or permanent bundling, harnessing, tagging and identification marking. Beaded Ties smooth, rounded configuration eliminates damage to wire and cable insulation. No tools are necessary. Ties can be disassembled and reused. Beaded Ties are available in Nylon and Polyethylene. Special colors are available upon request.

BEADED TIES

ITEM NUMBER	DESCRIPTION	LENGTH
230425N	425 N	4 1/4 (108)
230600N	600 N	6 (152)
230800N	800 N	8 (203)
231000N	1000 N	10 (254)

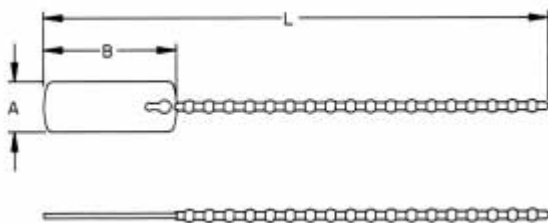
HEAVY DUTY POLYETHYLENE BEADED TIES

ITEM NUMBER	DESCRIPTION	LENGTH
230425P	425 P	4 1/4 (108)
230600P	600 P	6 (152)
230800P	800 P	8 (203)
231000P	1000 P	10 (254)

HEAVY DUTY POLYETHYLENE BEADED TIES ARE MOLDED IN YELLOW .

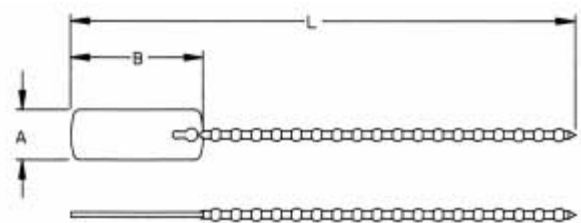
LABEL BEADED TIE

Nylon beaded tie with integral label area for writing. Permanent ink pens, felt tip pens, pressure-sensitive adhesive labels, or even Post-it® notes can be used on polished label area. The "LP" pointed version can be used to pierce thin materials. The "LB" version has a blunt tip for general use.



"LB" VERSION

ITEM NUMBER	A- WIDTH +/- 1/32"	B-LENGTH +/- 1/32"	L-OVERALL LENGTH +/- 1/8"
23LB0400N	1/2" (12,7)	1-5/16' (33,32)	4"
23LB0600N	1/2" (12,7)	1-5/16' (33,32)	6"



"LP" VERSION

ITEM NUMBER	A- WIDTH +/- 1/32"	B-LENGTH +/- 1/32"	L-OVERALL LENGTH +/- 1/8"
23LP0400N	1/2" (12,7)	1-5/16' (33,32)	4"
23LP0600N	1/2" (12,7)	1-5/16' (33,32)	6"

® Registered trade mark of the 3M Corporation.

WIRE HANDLING HARDWARE

SECTION VII

Spiral Wrap is an ideal covering used to bundle and protect tubing, wires and other types of conductors. Spiral wrap can be used on virtually any item with a diameter of 1/16" to 7". Polyethylene Natural Spiral Wrap is a lightweight low cost material that is good for general indoor applications. Polyethylene is not affected by ordinary solvents and is resistant to abrasion.



Polyethylene spiral wrap is easy to install, either during production or after final assembly. Ultra Violet UV Resistant Black Spiral Wrap is designed for outdoor use. Black UV Resistant Spiral Wrap has all of the fine qualities of Natural Spiral Wrap with the additional advantage of containing an ultraviolet absorber. Black UV Resistant Spiral Wrap will withstand direct sunlight for long periods of time.



FOUR PACKAGING METHODS ARE AVAILABLE FOR SPIRAL WRAP. REFER TO THE CHART ON THE OPPOSITE PAGE.



NATURAL SPIRAL WRAP

ITEM NUMBER	O.D.	WALL THICKNESS	BUNDLE RANGE
22SPW12NA	1/8"	.032	1/16" to 1/4"
22SPW24NA	1/4"	.035	3/16" to 2"
22SPW25NA	1/4"	.040	3/16" to 2"
22SPW36NA	3/8"	.040	3/16" to 2"
22SPW37NA	3/8"	.052	5/16" to 3"
22SPW38NA	3/8"	.062	5/16" to 3"
22SPW48NA	1/2"	.030	3/8" to 3"
22SPW49NA	1/2"	.040	3/8" to 4"
22SPW50NA	1/2"	.062	3/8" to 4"
22SPW51NA	1/2"	.072	3/8" to 4"
22SPW62NA	5/8"	.062	5/8" to 4 1/2"
22SPW75NA	3/4"	.065	3/4" to 5"
22SPW10NA	1"	.070	1" to 7"
22SPW11NA	1"	.095	1" to 7"

BLACK UV RESISTANT SPIRAL WRAP

ITEM NUMBER	O.D.	WALL THICKNESS	BUNDLE RANGE
22SPW12BK	1/8"	.032	1/16" to 1/4"
22SPW24BK	1/4"	.035	1/16" to 2"
22SPW25BK	1/4"	.040	3/16" to 2"
22SPW36BK	3/8"	.040	5/16" to 3"
22SPW37BK	3/8"	.052	5/16" to 3"
22SPW38BK	3/8"	.062	5/16" to 3"
22SPW48BK	1/2"	.030	3/8" to 3"
22SPW49BK	1/2"	.040	3/8" to 4"
22SPW50BK	1/2"	.062	3/8" to 4"
22SPW51BK	1/2"	.072	3/8" to 4"
22SPW62BK	5/8"	.062	5/8" to 4 1/2"
22SPW75BK	3/4"	.065	3/4" to 5"
22SPW10BK	1"	.070	1" to 7"
22SPW11BK	1"	.095	1" to 7"

WIRE HANDLING HARDWARE

SECTION
VII



Fluorescent Safety Wrap is an expandable plastic cable harness that can be used like tape. Designed with potentially hazardous situations in mind, Fluorescent Safety Wrap will help make loose wires, hanging cables, hoses and tubing more easily seen.

*IMPROVES APPEARANCE, SAFETY AND DURABILITY
OF YOUR PRODUCTS.*

COLOR CODES:
ADD COLOR CODES TO THE END OF EACH ITEM NUMBER TO SPECIFY COLOR SELECTION.

FLUORESCENT SAFETY WRAP RD = FLUORESCENT RED • GR = FLUORESCENT GREEN • YW = FLUORESCENT YELLOW

ITEM NUMBER	O.D.	WALL THK.	BUNDLE RANGE
22SPW12S__	1/8"	.032	1/16" to 1/4"
22SPW24S__	1/4"	.035	3/16" to 2"
22SPW25S__	1/4"	.040	3/16" to 2"
22SPW36S__	3/8"	.040	5/16" to 3"
22SPW37S__	3/8"	.052	5/16" to 3"
22SPW49S__	1/2"	.040	3/8" to 4"
22SPW50S__	1/2"	.062	3/8" to 4"
22SPW62S__	5/8"	.062	5/8" to 4-1/2"
22SPW75S__	3/4"	.065	3/4" to 5"
22SPW10S__	1"	.070	1" to 7"

FOUR PACKAGING METHODS ARE AVAILABLE FOR SPIRAL WRAP. REFER TO THE CHART BELOW.

FOR LARGE QUANTITY BULK SPOOL ORDERS, ADD THE LETTERS SPL TO THE END OF THE PART NUMBER.

SPIRAL WRAP/FLUORESCENT SAFETY WRAP, STANDARD PACKAGING OPTIONS



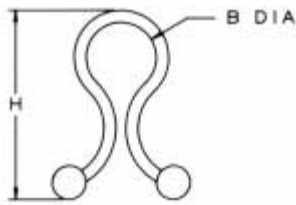
SPIRAL WRAP CAN BE CUT TO MEET SPECIAL LENGTH REQUIREMENTS, CALL FOR DETAILS.

OUTSIDE DIAMETER	FEET PER PAYOUT BOX	FEET PER POIYETHYLENE BAG	(Best Pricing For Volume Users)	
			FEET PER SPOOL	FEET PER BULK SPOOL
1/8'	100' OR 250'	100' OR 50'	100'	2500'
1/4"	100' OR 250'	100' OR 50'	100'	1,000'
3/8"	100' OR 250'	100' OR 50'	100'	500'
1/2"	100'	50'	100'	250'
5/8"	25'	50'	100'	250'
3/4"	25'	3/4"		100'
1"		1"		



WIRE HANDLING HARDWARE

SECTION VII

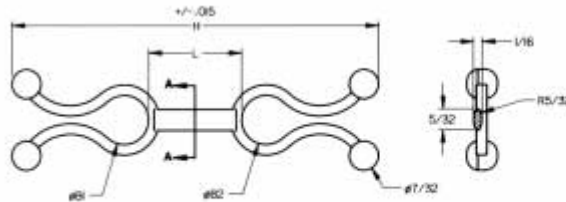


Micro Plastics "EZ" Twist Lock Bundling Ties offers a fast, economical way to securely position and hold wire, cable or tubing. A single twist of the finger locks the bundle together. Another twist will open the lock to add or remove wire to the bundle. The reusable "EZ" Twist Lock is molded of tough, resilient Nylon 6/6 (UL 94V2). The following standard sizes are available from stock in natural nylon.

"EZ" TWIST LOCKS

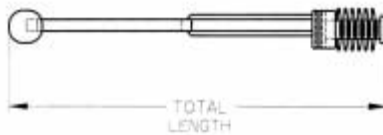
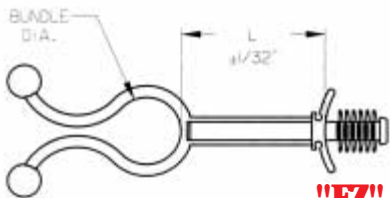
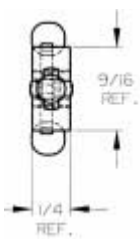
Dyed colors can be furnished with a slight extra charge. Other sizes will be tooled on request.

ITEM NUMBER	DESCRIPTION	H	B
23EZ0125N	1/8" LOCK	.715 (18,1)	.11 / .14 (2,80 / 3,56)
23EZ0250N	1/4" LOCK	.875 (22,2)	.20 / .27 (5,08 / 6,86)
23EZ0375N	3/8" LOCK	1.08 (27,4)	.30 / .40 (7,62 / 10,2)
23EZ0500N	1/2" LOCK	1.20 (30,5)	.40 / .50 (10,2 / 12,7)
23EZ0600N	5/8" LOCK	1.26 (32,0)	.55 / .65 (13,9 / 16,5)
23EZ0750N	3/4" LOCK	1.55 (39,4)	.70 / .80 (17,8 / 20,3)
23EZ0950N	15/16" LOCK	1.87 (47,5)	.90 / 1.00 (22,8 / 25,4)
23EZ1125N	1 1/8" LOCK	2.17 (55,1)	1.20/1.30 (30,5 / 33,0)
23EZ1375N	1 3/8" LOCK	2.67 (67,8)	1.45/1.55 (36,8 / 39,4)
23EZ1500N	1 1/2" LOCK	2.93 (74,4)	1.55/1.65 (39,4 / 41,9)
23EZ1750N	1 3/4" LOCK	3.46 (87,9)	1.90/2.00 (48,3 / 50,8)



DOUBLE "EZ" TWIST LOCKS

ITEM NUMBER	H	L	B1 AND B2
23DBEZ0001	2-3/4 (69,8)	11/16" (17,46)	.30/.40 (7,62) / (10,16)
23DBEZ0002	2-31/32 (74,4)	11/16" (17,46)	.40/.50 (10,16) / (12,70)



"EZ" TWIST LOCK FIN CLIP BASE

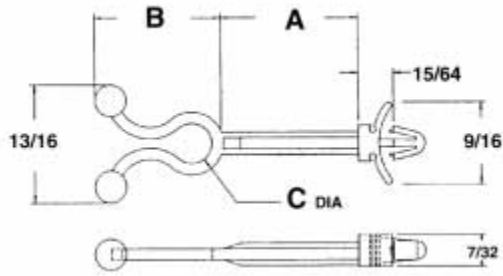
STANDARD LENGTH IS FROM BUNDLE DIAMETER TO TOP OF 1/32" PANEL

ITEM NUMBER	BUNDLE DIAMETER	LENGTH	TOTAL LENGTH	MOUNTING HOLE	PANEL RANGE
23EZF037B025	3/8" (9,53)	.200 (5,08)	1-21/32 (42,06)	.187 (4,75)	1/32 (0,79) - 1/4 (6,35)
23EZF037B037	3/8" (9,53)	.315 (8,00)	1-25/32 (45,24)	.187 (4,75)	1/32 (0,79) - 1/4 (6,35)
23EZF037B050	3/8" (9,53)	.437 (11,10)	1-29/32 (48,41)	.187 (4,75)	1/32 (0,79) - 1/4 (6,35)
23EZF037B062	3/8" (9,53)	.555 (14,10)	1-1/32 (26,19)	.187 (4,75)	1/32 (0,79) - 1/4 (6,35)
23EZF050C037	1/2" (12,70)	.318 (8,08)	1-29/32 (48,41)	.250 (6,35)	1/32 (0,79) - 1/4 (6,35)
23EZF050C050	1/2" (12,70)	.447 (11,35)	1-63/64 (50,39)	.250 (6,35)	1/32 (0,79) - 1/4 (6,35)
23EZF050C062	1/2" (12,70)	.596 (15,14)	2-1/8 (53,98)	.250 (6,35)	1/32 (0,79) - 1/4 (6,35)
23EZF050C100	1/2" (12,70)	.942 (23,93)	2-15/32 (62,71)	.250 (6,35)	1/32 (0,79) - 1/4 (6,35)
23EZF062C037	5/8" (15,88)	.319 (8,10)	1-15/16 (49,21)	.250 (6,35)	1/32 (0,79) - 1/4 (6,35)
23EZF062C050	5/8" (15,88)	.442 (11,23)	2-3/64 (51,99)	.250 (6,35)	1/32 (0,79) - 1/4 (6,35)
23EZF062C062	5/8" (15,88)	.595 (15,11)	2-3/16 (55,56)	.250 (6,35)	1/32 (0,79) - 1/4 (6,35)
23EZF062C100	5/8" (15,88)	.935 (23,75)	2-35/64 (64,69)	.250 (6,35)	1/32 (0,79) - 1/4 (6,35)



WIRE HANDLING HARDWARE

SECTION
VII

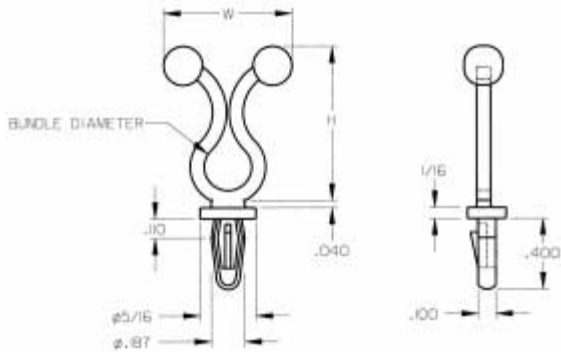


Micro Plastics "EZ" Twist Lock Printed Circuit Board Supports feature a uniquely designed locking base which is easily snapped into the chassis by hand. Cables and wires can be loaded and unloaded with a simple twist of the fingers, and are supported above the board eliminating possible contact with hot components. Parts are stocked in natural Nylon 6/6. Other colors can be furnished with a slight extra charge.

HOLE SIZE .187" • PANEL THICKNESS .030"/.078"

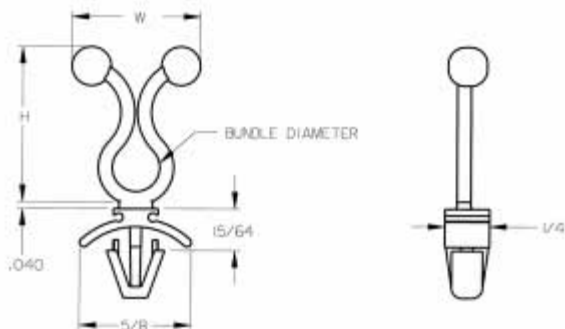
"EZ" TWIST LOCK SUPPORTS

ITEM NUMBER	DESCRIPTION	A	B	C
23EZO250N0954	.250 BUNDLE DIA.	.954 (24.23)	.876 (22.25)	.276 (7.01)
23EZO450N0030	.450 BUNDLE DIA.	.028 (0.71)	1.180 (29.97)	.453 (11.51)
23EZO200N0030	.200 BUNDLE DIA.	.011 (0.28)	.844 (21.44)	.205 (5.21)
23EZO375N0030	.375 BUNDLE DIA.	.050 (1.27)	1.066 (27.08)	.350 (8.89)
23EZO450N0625	.450 BUNDLE DIA.	.625 (15.88)	1.184 (30.07)	.453 (11.51)
23EZO625N0028	.625 BUNDLE DIA.	.028 (0.71)	1.270 (32.26)	.620 (15.75)



"EZ" TWIST LOCK SUPPORTS

ITEM NUMBER	DESCRIPTION	PANEL THICKNESS	H	W
23EZO250C0040	.250 BUNDLE DIA.	1/16" (1.57)	7/8" (22.23)	23/32" (18.24)
23EZO375C0040	.375 BUNDLE DIA.	1/16" (1.57)	1-5/64" (27.37)	3/4" (19.08)
23EZO500C0040	.500 BUNDLE DIA.	1/16" (1.57)	1-13/64" (30.56)	7/8" (15.88)



"EZ" TWIST LOCK SUPPORTS

ITEM NUMBER	DESCRIPTION	PANEL THICKNESS	H	W
23EZO250B0040	.250 BUNDLE DIA.	.047 (1.19 / .109 (2.77))	7/8" (22.23)	23/32" (18.24)
23EZO375B0040	.375 BUNDLE DIA.	.047 (1.19 / .109 (2.77))	1-5/64" (27.37)	3/4" (19.08)
23EZO500B0040	.500 BUNDLE DIA.	.047 (1.19 / .109 (2.77))	1-13/64" (30.56)	7/8" (15.88)

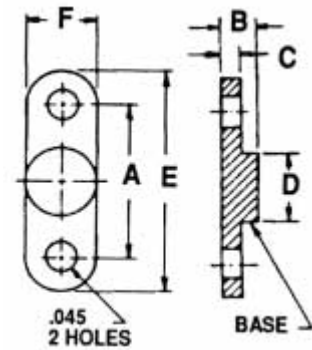
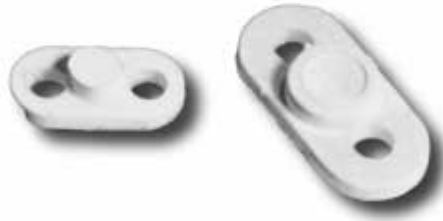


CIRCUIT BOARD HARDWARE

SECTION VIII

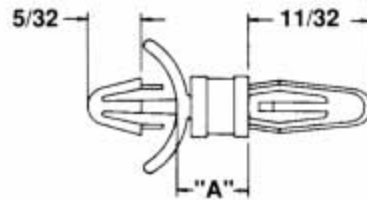
Accurately positions capacitors or discrete components on P.C. Board.

Material: Type 66 Nylon



NYLON CAPACITOR MOUNTS

ITEM NUMBER	DESCRIPTION	A	B	C	D	E	F
22CM0100	CM-100	.100 (2,54)	.045 (1,14)	.022 (0,56)	.050/.070 (1,27)/(1,78)	.180 (4,57)	.090 (2,29)
22CM0150	CM-150	.150 (3,81)	.045 (1,14)	.022 (0,56)	.090/.125 (2,29)/(3,18)	.270 (6,86)	.125 (3,18)
22CM0200	CM-200	.200 (5,08)	.045 (1,14)	.022 (0,56)	.090	(2,29)	.290 (7,37)



BOTH ENDS
HOLE DIAMETER .125
PANEL THICKNESS 1/16"

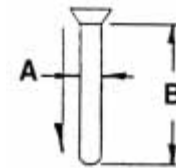
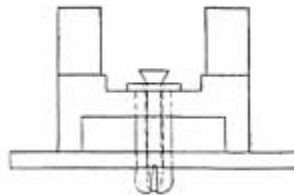
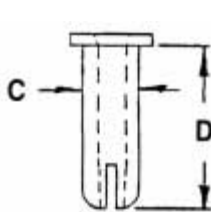


NYLON P.C.B. SUPPORTS

ITEM NUMBER	DESCRIPTION	A
27MLP0187	MLP 187	.187 (4,75)

TWO - PIECE NYLON FASTENER FOR USE WITH EDGE CONNECTOR ASSEMBLY

Body Item "A" is inserted through the connector and through the chassis. Pin Item "B" then is pushed or tapped into the body to secure the connector to the chassis. Head design of the pin permits easy removal, connector then can be easily replaced.



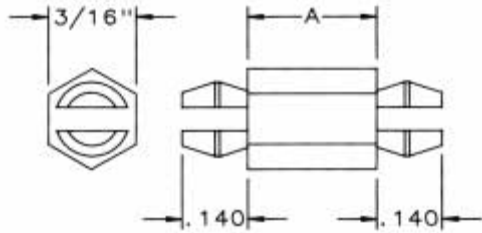
BODY ITEM "A"

ITEM NUMBER	C	D
27TPF0001A	.109 (2,76)	.305 (7,74)
27TPF0002A	.110 (2,79)	.350 (8,88)
27TPF0003A	.110 (2,79)	.480 (12,19)
27TPF0004A	.096 (2,43)	.340 (8,63)



PIN ITEM "B"

ITEM NUMBER	B	A
27TPF0001B	.330 (8,38)	.069 (1,75)
27TPF0002B	.360 (9,14)	.069 (1,75)
27TPF0003B	.455 (11,55)	.069 (1,75)
27TPF0004B	.340 (8,63)	.062 (1,57)



NYLON LOCKING HEX SPACERS

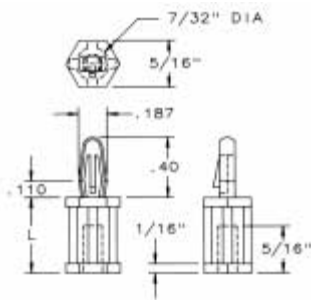
ITEM NUMBER	DESCRIPTION	A
27MPH00276	MPH 276	.276 (7,01)

FITS HOLE SIZE OF .152 +/- .002 BOARD THICKNESS 1/16

Economical Locking Spacers eliminate screws, nuts and lock washers in mounting P.C. boards on metal chassis or stacking in multiple tiers. Unique locking clips provide a mechanically secure, reusable connection in predrilled or punched holes while saving considerable assembly time.



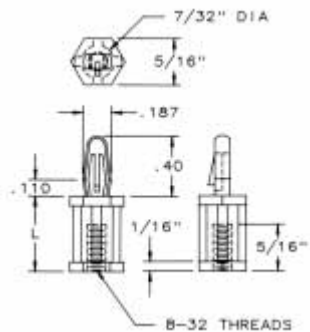
FEMALE NYLON CIRCUIT BOARD POSTS



RECOMMENDED HOLE SIZE .156

PANEL THICKNESS 1/16"

NOTE: SELF-THREADING POSTS ARE DESIGNED FOR USE WITH A #6 SELF-TAPPING SCREW.



SELF-THREADING

ITEM NUMBER	DESCRIPTION	"L"
27FSTP00250*	FSTP 250	.250 (6,35)
27FSTP00375	FSTP 375	.375 (9,53)
27FSTP00500	FSTP 500	.500 (12,70)
27FSTP00625	FSTP 625	.625 (15,88)
27FSTP00750	FSTP 750	.750 (19,05)
27FSTP00875	FSTP 875	.875 (22,23)
27FSTP01000	FSTP 1000	1.000 (25,40)
27FSTP01125	FSTP 1125	1.125 (28,58)
27FSTP01250	FSTP 1250	1.250 (31,75)
27FSTP01406	FSTP 1406	1.406 (35,71)

* 1/4" length has a thread depth of 13/64".



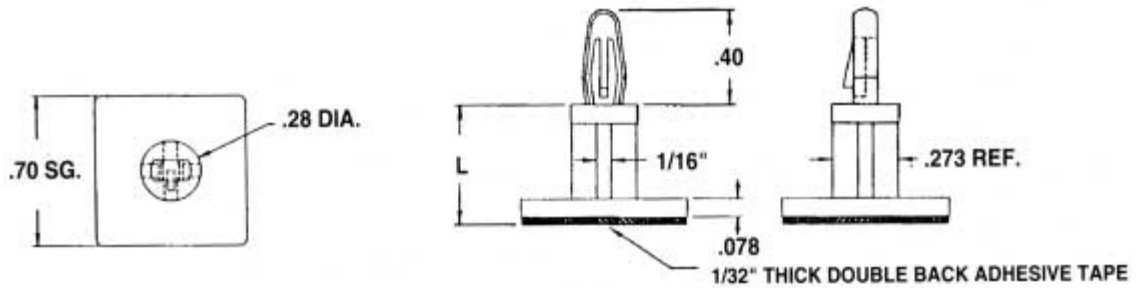
THREADED

ITEM NUMBER	DESCRIPTION	"L"
27FIP00250*	FIP 250	.250 (6,35)
27FIP00375	FIP 375	.375 (9,53)
27FIP00500	FIP 500	.500 (12,70)
27FIP00625	FIP 625	.625 (15,88)
27FIP00750	FIP 750	.750 (19,05)
27FIP00875	FIP 875	.875 (22,23)
27FIP01000	FIP 1000	1.000 (25,40)
27FIP01125	FIP 1125	1.125 (28,58)
27FIP01250	FIP 1250	1.250 (31,75)
27FIP01406	FIP 1406	1.406 (35,71)

* 1/4" length has a thread depth of 13/64".

CIRCUIT BOARD HARDWARE

SECTION VIII



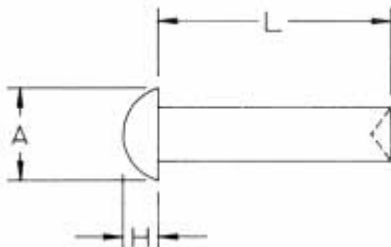
FITS RECOMMENDED HOLE SIZE OF .156 - PANEL THICKNESS 1/16"

NYLON LOCKING P.C.B. SUPPORT ON ADHESIVE BASE



ITEM NUMBER	DESCRIPTION	"L"
27LAD0187	LAD 187	.187 (4,75)
27LAD0250	LAD 250	.250 (6,35)
27LAD0375	LAD 375	.375 (9,53)
27LAD0500	LAD 500	.500 (12,70)
27LAD0625	LAD 625	.625 (15,88)
27LAD0750	LAD 750	.750 (19,05)
27LAD0875	LAD 875	.875 (22,23)
27LAD1000	LAD 1000	1.000 (25,40)
27LAD1125	LAD 1125	1.125 (28,56)

MOLDED ACETAL RIVETS

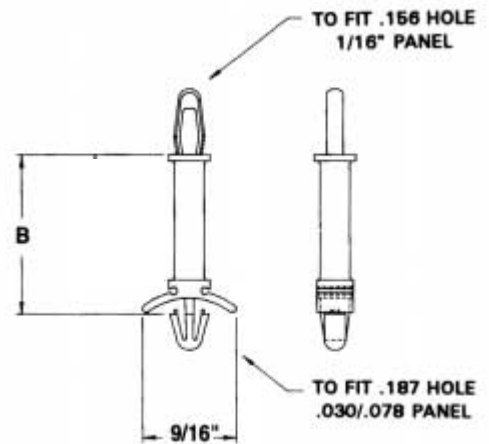


ITEM NUMBER	DESCRIPTION	SHANK	A	H	LENGTH
26RIV001	RIV 1	.085 (2,16)	.143 (3,63)	.058 (1,47)	1/8 (3,18)
26RIV002	RIV 2	.085 (2,16)	.143 (3,63)	.058 (1,47)	3/16 (4,76)
26RIV003	RIV 3	.085 (2,16)	.143 (3,63)	.058 (1,47)	1/4 (6,35)
26RIV004	RIV 4	.085 (2,16)	.143 (3,63)	.058 (1,47)	5/16 (7,94)
26RIV005	RIV 5	.085 (2,16)	.143 (3,63)	.058 (1,47)	3/8 (9,53)
26RIV006	RIV 6	.085 (2,16)	.143 (3,63)	.058 (1,47)	7/16 (11,11)
26RIV007	RIV 7	.085 (2,16)	.143 (3,63)	.058 (1,47)	1/2 (12,70)
26RIV011	RIV11	.125 (3,18)	.250 (6,35)	.068 (1,73)	1/8 (3,18)
26RIV012	RIV12	.125 (3,18)	.250 (6,35)	.068 (1,73)	3/16 (4,76)
26RIV013	RIV13	.125 (3,18)	.250 (6,35)	.068 (1,73)	1/4 (6,35)
26RIV014	RIV14	.125 (3,18)	.250 (6,35)	.068 (1,73)	5/16 (7,94)
26RIV015	RIV15	.125 (3,18)	.250 (6,35)	.068 (1,73)	3/8 (9,53)
26RIV016	RIV16	.125 (3,18)	.250 (6,35)	.068 (1,73)	7/16 (11,11)
26RIV017	RIV17	.125 (3,18)	.250 (6,35)	.068 (1,73)	1/2 (12,70)
26RIV018	RIV18	.125 (3,18)	.250 (6,35)	.068 (1,73)	9/16 (14,29)
26RIV019	RIV19	.125 (3,18)	.250 (6,35)	.068 (1,73)	5/8 (15,88)
26RIV020	RIV20	.125 (3,18)	.250 (6,35)	.068 (1,73)	11/16 (17,46)
26RIV021	RIV21	.125 (3,18)	.218 (5,54)	.090 (2,29)	1/8 (3,18)
26RIV022	RIV22	.125 (3,18)	.218 (5,54)	.090 (2,29)	3/16 (4,76)
26RIV023	RIV23	.125 (3,18)	.218 (5,54)	.090 (2,29)	1/4 (6,35)
26RIV024	RIV24	.125 (3,18)	.218 (5,54)	.090 (2,29)	5/16 (7,94)
26RIV025	RIV25	.125 (3,18)	.218 (5,54)	.090 (2,29)	3/8 (9,53)
26RIV026	RIV26	.125 (3,18)	.218 (5,54)	.090 (2,29)	1/2 (12,70)
26RIV050	RIV50	.125 (3,18)	.255 (6,48)	.051 (1,30)	1/4 (6,35)
26RIV055	RIV55	.125 (3,18)	.255 (6,48)	.051 (1,30)	3/8 (9,53)

NYLON P.C.B. SUPPORTS "LOCK/TENSION" SERIES

THE "ITP" SERIES IS DESIGNED TO SECURELY LOCK TO THE BOTTOM CHASSIS AND SNAP INTO TOP BOARD.

ITEM NUMBER	DESCRIPTION	B
27ITP0187	3/16" LOCK/TENSION	.307 (7,80)
27ITP0250	1/4" LOCK/TENSION	.365 (9,27)
27ITP0375	3/8" LOCK/TENSION	.495 (12,57)
27ITP0437	7/16" LOCK/TENSION	.557 (14,15)
27ITP0500	1/2" LOCK/TENSION	.625 (15,88)
27ITP0625	5/8" LOCK/TENSION	.745 (18,92)
27ITP0750	3/4" LOCK/TENSION	.870 (22,10)
27ITP0875	7/8" LOCK/TENSION	.995 (25,27)
27ITP1000	1" LOCK/TENSION	1.120 (28,45)
27ITP1125	1 1/8" LOCK/TENSION	1.245 (31,62)
27ITP1250	1 1/4" LOCK/TENSION	1.370 (34,80)
27ITP1375	1 3/8" LOCK/TENSION	1.495 (37,97)
27ITP1750	1 3/4" LOCK/TENSION	1.810 (45,97)



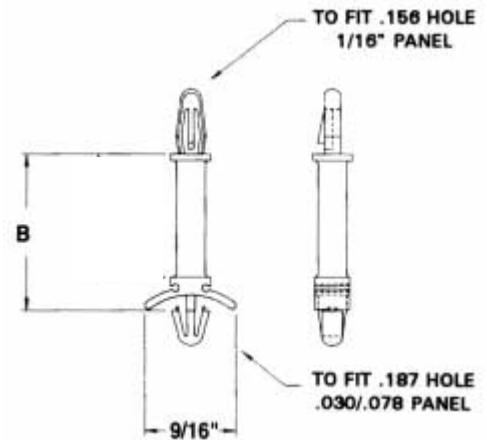
Micro Plastics Circuit Board Supports eliminate screws nuts, and lockwashers in mounting printed circuit boards on metal chassis or stacking in multiple tiers. Unique locking designs provide mechanically secure, reusable connection in predrilled or punched holes while saving considerable assembly time and expense.



NYLON P.C.B. SUPPORTS "LOCK/LOCK" SERIES

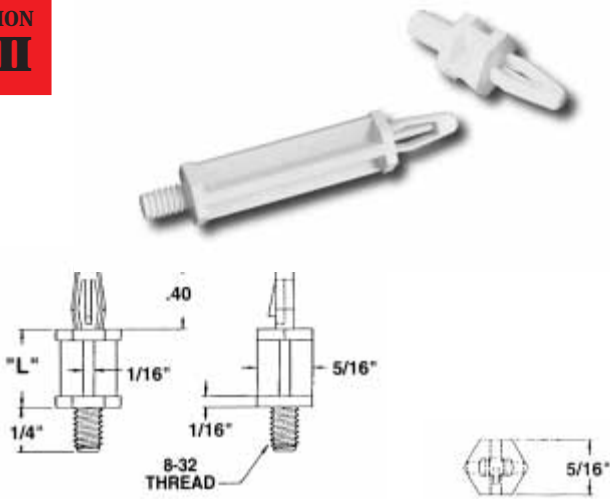
THE "LLP" SERIES IS DESIGNED TO SECURELY LOCK BOTH THE CHASSIS END AND THE PRINTED CIRCUIT BOARD ON TOP.

ITEM NUMBER	DESCRIPTION	B
27LLP0125	1/8" LOCK/LOCK	.21 (5,33)
27LLP0187	3/16" LOCK/LOCK	.307 (7,80)
27LLP0250	1/4" LOCK/LOCK	.365 (9,27)
27LLP0375	3/8" LOCK/LOCK	.495 (12,57)
22LLP0437	7/16" LOCK/LOCK	.557 (14,15)
27LLP0500	1/2" LOCK/LOCK	.625 (15,88)
27LLP0625	5/8" LOCK/LOCK	.745 (18,92)
27LLP0750	3/4" LOCK/LOCK	.870 (22,10)
27LLP0875	7/8" LOCK/LOCK	.995 (25,27)
27LLP1000	1" LOCK/LOCK	1.120 (28,45)
27LLP1125	1 1/8" LOCK/LOCK	1.245 (31,62)
27LLP1250	1 1/4" LOCK/LOCK	1.370 (34,80)
27LLP1375	1 3/8" LOCK/LOCK	1.495 (37,97)
27LLP1750	1 3/4" LOCK/LOCK	1.810 (45,97)

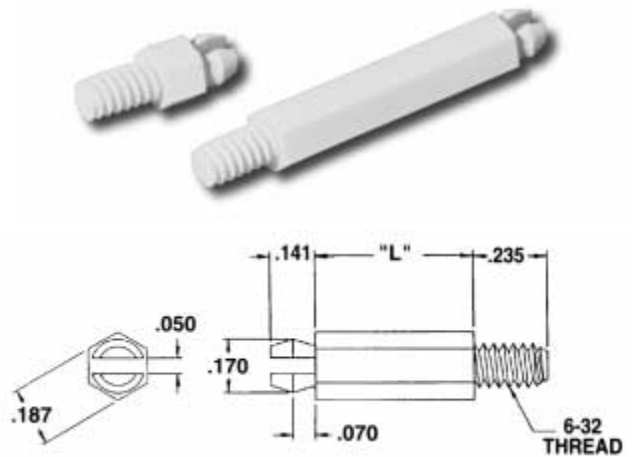


CIRCUIT BOARD HARDWARE

SECTION VIII



HOLE SIZE .156 PANEL THICKNESS 1/16"



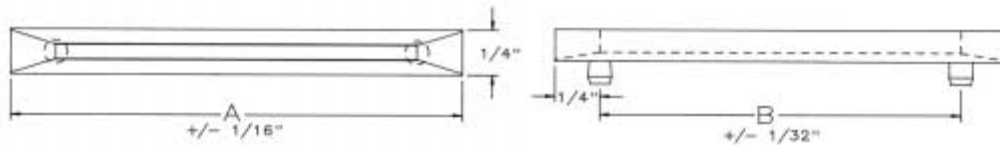
HOLE SIZE .156" PANEL THICKNESS 1/16" *THREAD LENGTH IS 11/32"

NYLON MALE P.C.B. SUPPORT POSTS "LOCKING" SERIES

ITEM NUMBER	DESCRIPTION	A
27LMIP00250	LMTP 250	.250 (6,35)
27LMIP00375	LMTP 375	.375 (9,53)
27LMIP00500	LMTP 500	.500 (12,70)
27LMIP00625	LMTP 625	.625 (15,88)
27LMIP00750	LMTP 750	.750 (19,05)
27LMIP00875	LMTP 875	.875 (22,23)
27LMIP01000	LMTP 1000	1.000 (25,40)
27LMIP01125	LMTP 1125	1.125 (28,58)

NYLON MALE P.C.B. SUPPORT POSTS "MTP" SERIES

ITEM NUMBER	DESCRIPTION	L
27MIP00125	MTP 125	.125 (3,18)
27MIP00187	MTP 187	.187 (4,75)
27MIP00250	MTP 250	.250 (6,35)
27MIP00375	MTP 375	.375 (9,53)
27MIP00395*	MTP 395	.395 (10,03)
27MIP00500	MTP 500	.500 (12,70)
27MIP00625	MTP 625	.625 (15,88)
27MIP00750	MTP 750	.750 (19,05)
27MIP00875	MTP 875	.875 (22,23)



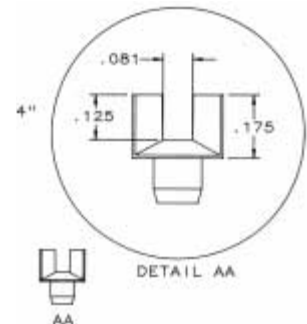
Micro Plastics' Printed Circuit board Support Guides are an economical and fast solution to mount P.C. Boards. Card insertion is simple and fast. The smooth positive channel guides the P.C. Board and firmly supports and protects the board. Guides are molded of tough, electrically insulating nylon 6/6 and are designed to snap into pre-punched holes in the chassis. Micro Plastics has available the seven most popular sizes. Other sizes will be tooled on request.

NYLON P.C. BOARD CARD GUIDES



The Printed Circuit Board Card Guide is designed to fit a .125" +.003" - .001" front diameter hole and a .120" +/- .005" x .218" slot rear hole.

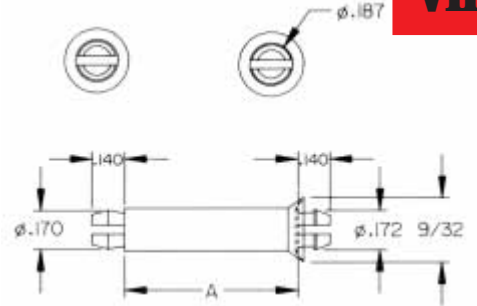
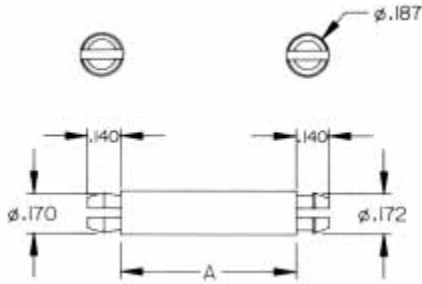
ITEM NUMBER	DESCRIPTION	A	B
21CGS00250	2 1/2" GUIDE	2.5	2.0
21CGS00300	3" GUIDE	3.0	2.5
21CGS00350	3 1/2" GUIDE	3.5	3.0
21CGS00400	4" GUIDE	4.0	3.5
21CGS00450	4 1/2" GUIDE	4.5	4.0
21CGS00500	5" GUIDE	5.0	4.5
21CGS00550	5 1/2" GUIDE	5.5	5.0
21CGS00600	6" GUIDE	6.0	5.5



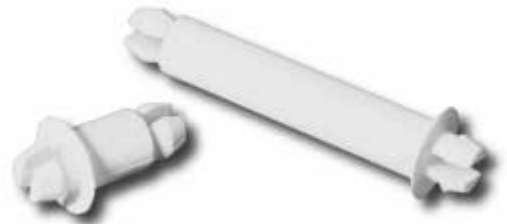
Economical locking spacers eliminate screws, nuts and lock washers in mounting P.C. Boards on metal chassis or stacking in multiple tiers.

Unique locking clips provide a mechanically secure, reusable connection in predrilled or punched holes while saving considerable assembly time.

The new improved "MSP" series greatly increases stability and integrity of the printed circuit board assembly, while improving the pull-out strength of the connection.



PARTS CAN BE FURNISHED COLOR CODED
FOR IDENTIFICATION.
RECOMMENDED HOLE SIZE .156" +/-
.002"



PANEL THICKNESS 1/16"

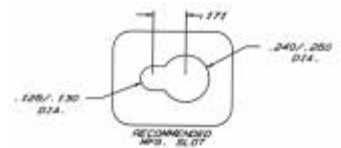
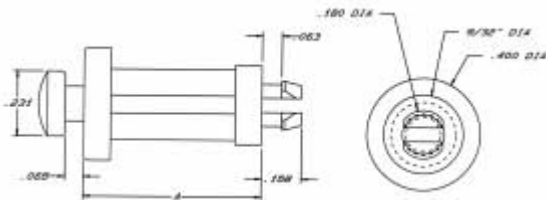
NYLON P.C.B. POSTS "MP" SERIES

ITEM NUMBER	DESCRIPTION	"A"
27MP00125	MP 125	.125 (3,18)
27MP00250	MP 250	.250 (6,35)
27MP00312	MP 312	.312 (7,92)
27MP00375	MP 375	.375 (9,53)
27MP00437	MP 437	.437 (11,11)
*27MP00437S	MP 437S	.437 (11,11)
27MP00500	MP 500	.500 (12,70)
27MP00625	MP 625	.625 (15,88)
27MP00750	MP 750	.750 (19,05)
27MP00875	MP 875	.875 (22,23)
27MP01000	MP1000	1.00 (25,40)

* FITS HOLE SIZE OF .093"

NYLON P.C.B. POSTS "MSP" SERIES

ITEM NUMBER	DESCRIPTION	A
27MSP00125	MSP 125	.125 (3,18)
27MSP00156	MSP 156	.156 (3,96)
27MSP00250	MSP 250	.250 (6,35)
27MSP00312	MSP 312	.312 (7,92)
27MSP00375	MSP 375	.375 (9,53)
27MSP00437	MSP 437	.437 (11,11)
27MSP00500	MSP 500	.500 (12,70)
27MSP00625	MSP 625	.625 (15,88)
27MSP00700	MSP 700	.685 (17,40)
27MSP00750	MSP 750	.750 (19,05)
27MSP00875	MSP 875	.875 (22,23)
27MSP01000	MSP1000	1.00 (25,40)
27MSP01800	MSP1800	1.80 (45,72)



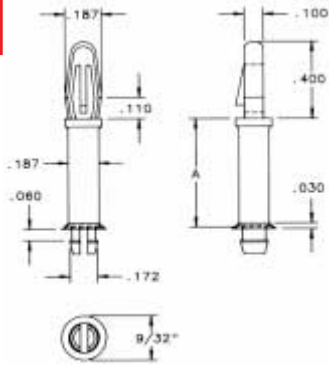
NYLON KEY-SLOT P.C.B. POSTS

ITEM NUMBER	DESCRIPTION	A
27KYP00187	KYP 187	3/16 (4,8)
27KYP00250	KYP 250	1/4 (6,4)
27KYP00375	KYP 375	3/8 (9,5)
27KYP00500	KYP 500	1/2 (12,7)
27KYP00625	KYP 625	5/8 (15,9)
27KYP00750	KYP 750	3/4 (19,1)
27KYP00875	KYP 875	7/8 (22,2)
27KYP01000	KYP 1000	1 (25,4)

For use in combination with a key-slot hole so that the circuit board may be removed for repairs.

CIRCUIT BOARD HARDWARE

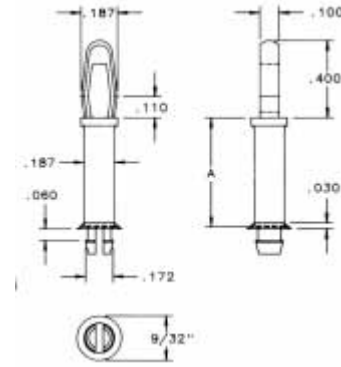
SECTION VIII



NYLON P.C.B. SUPPORTS "ICSP" SERIES

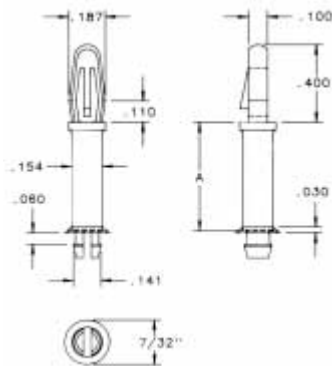
ITEM NUMBER	DESCRIPTION	"A"
27LCSP00125	LCSP 125	.125 (3,18)
27LCSP00250	LCSP 250	.250 (6,35)
27LCSP00312	LCSP 312	.312 (7,92)
27LCSP00375	LCSP 375	.375 (9,53)
27LCSP00437	LCSP 437	.437 (11,11)
27LCSP00500	LCSP 500	.500 (12,70)
27LCSP00625	LCSP 625	.625 (15,88)
27LCSP00750	LCSP 750	.750 (19,05)
27LCSP00875	LCSP 875	.875 (22,23)
27LCSP01000	LCSP 1000	1.000 (25,40)

SPRING END FITS .156" HOLE
LOCK OR TENSION END FITS .156" HOLE
PANEL THICKNESS 1/16"



NYLON P.C.B. SUPPORTS "TCSP" SERIES

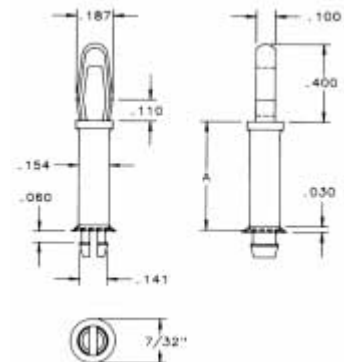
ITEM NUMBER	DESCRIPTION	"A"
27TCSP00125	TCSP 125	.125 (3,18)
27TCSP00250	TCSP 250	.250 (6,35)
27TCSP00312	TCSP 312	.312 (7,92)
27TCSP00375	TCSP 375	.375 (9,53)
27TCSP00437	TCSP 437	.437 (11,11)
27TCSP00500	TCSP 500	.500 (12,70)
27TCSP00625	TCSP 625	.625 (15,88)
27TCSP00750	TCSP 750	.750 (19,05)
27TCSP00875	TCSP 875	.875 (22,23)
27TCSP01000	TCSP 1000	1.000 (25,40)



NYLON P.C.B. SUPPORTS "LMSP" SERIES

ITEM NUMBER	DESCRIPTION	"A"
27LMSP00125	LMSP 125	.125 (3,18)
27LMSP00250	LMSP 250	.250 (6,35)
27LMSP00312	LMSP 312	.312 (7,92)
27LMSP00375	LMSP 375	.375 (9,53)
27LMSP00437	LMSP 437	.437 (11,11)
27LMSP00500	LMSP 500	.500 (12,70)
27LMSP00625	LMSP 625	.625 (15,88)
27LMSP00750	LMSP 750	.750 (19,05)
27LMSP00875	LMSP 875	.875 (22,23)
27LMSP01000	LMSP 1000	1.000 (25,40)

SPRING END FITS .156" HOLE
LOCK OR TENSION END FITS .125" HOLE
PANEL THICKNESS 1/16"

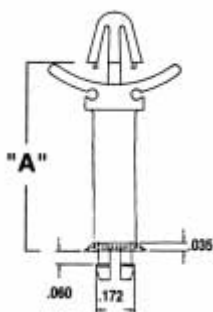


NYLON P.C.B. SUPPORTS "TMSP" SERIES

ITEM NUMBER	DESCRIPTION	"A"
27TMSP00125	TMSP 125	.125 (3,18)
27TMSP00250	TMSP 250	.250 (6,35)
27TMSP00312	TMSP 312	.312 (7,92)
27TMSP00375	TMSP 375	.375 (9,53)
27TMSP00437	TMSP 437	.437 (11,11)
27TMSP00500	TMSP 500	.500 (12,70)
27TMSP00625	TMSP 625	.625 (15,88)
27TMSP00750	TMSP 750	.750 (19,05)
27TMSP00875	TMSP 875	.875 (22,23)
27TMSP01000	TMSP 1000	1.000 (25,40)

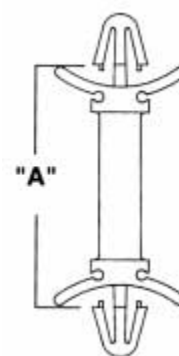
CIRCUIT BOARD HARDWARE

SECTION
VIII



**"LSP" SERIES - MSP END FITS A .156" HOLE
LOCKING END FITS .187" HOLE
PANEL THICKNESS .030 / .078**

**"DLP" SERIES - BOTH ENDS FIT A .187" HOLE
PANEL THICKNESS .030 / .078**



NYLON P.C.B. SUPPORTS "LSP" SERIES

ITEM NUMBER	DESCRIPTION	"A" *
27LSP00187	LSP 187	.307 (7,80)
27LSP00250	LSP 250	.365 (9,27)
27LSP00375	LSP 375	.495 (12,57)
27LSP00437	LSP 437	.557 (14,15)
27LSP00500	LSP 500	.625 (15,88)
27LSP00625	LSP 625	.745 (18,92)
27LSP00750	LSP 750	.870 (22,10)
27LSP00875	LSP 875	.995 (25,27)
27LSP01000	LSP 1000	1.120 (28,45)
27LSP01125	LSP 1125	1.245 (31,62)
27LSP01250	LSP 1250	1.370 (34,80)
27LSP01375	LSP 1375	1.495 (37,97)

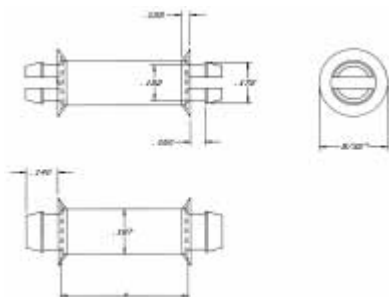
* EQUAL TO THE DISTANCE BETWEEN PANELS



NYLON P.C.B. SUPPORTS "DLP" SERIES

ITEM NUMBER	DESCRIPTION	"A" *
27DLP00187	DLP 187	.307 (7,80)
27DLP00250	DLP 250	.365 (9,27)
27DLP00375	DLP 375	.495 (12,57)
27DLP00437	DLP 437	.557 (14,15)
27DLP00500	DLP 500	.625 (15,88)
27DLP00625	DLP 625	.745 (18,92)
27DLP00750	DLP 750	.870 (22,10)
27DLP00875	DLP 875	.995 (25,27)
27DLP01000	DLP 1000	1.120 (28,45)
27DLP01125	DLP 1125	1.245 (31,62)
27DLP01250	DLP 1250	1.370 (34,80)
27DLP01375	DLP 1375	1.495 (37,97)

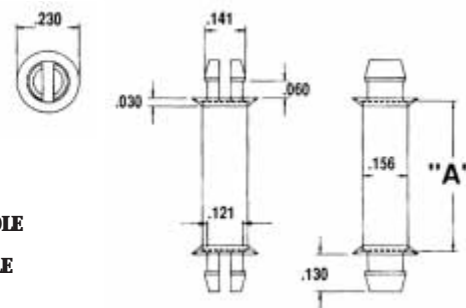
* EQUAL TO THE DISTANCE BETWEEN PANELS



"DSP" SERIES - BOTH ENDS FITS A .156" HOLE

"DMSP" SERIES - BOTH ENDS FIT A .125" HOLE

PANEL THICKNESS 1/16"



"DSP" SERIES

ITEM NUMBER	DESCRIPTION	"A"
27DSP00125	DSP 125	.125 (3,18)
27DSP00250	DSP 250	.250 (6,35)
27DSP00260	DSP 260	.260 (6,60)
27DSP00312	DSP 312	.312 (7,92)
27DSP00375	DSP 375	.375 (9,53)
27DSP00437	DSP 437	.437 (11,11)
27DSP00500	DSP 500	.500 (12,70)
27DSP00625	DSP 625	.625 (15,88)
27DSP00750	DSP 750	.750 (19,05)
27DSP00788	DSP 788	.788 (20,02)
27DSP00875	DSP 875	.875 (22,23)
27DSP01000	DSP 1000	1.000 (25,40)
27DSP01250	DSP 1250	1.250 (31,75)



"DMSP" SERIES

ITEM NUMBER	DESCRIPTION	"A"
27DMSP00125	DMSP 125	.125 (3,18)
27DMSP00250	DMSP 250	.250 (6,35)
27DMSP00312	DMSP 312	.312 (7,92)
27DMSP00375	DMSP 375	.375 (9,53)
27DMSP00437	DMSP 437	.437 (11,11)
27DMSP00500	DMSP 500	.500 (12,70)
27DMSP00625	DMSP 625	.625 (15,88)
27DMSP00750	DMSP 750	.750 (19,05)
27DMSP00875	DMSP 875	.875 (22,23)
27DMSP00950	DMSP 950	.950 (24,13)
27DMSP01000	DMSP 1000	1.000 (25,40)

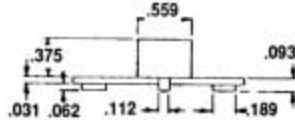
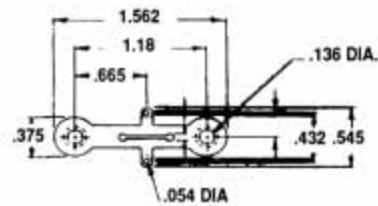
CIRCUIT BOARD HARDWARE

SECTION VIII



increase the amount of interface surface between device and sink by minimizing clearance holes required for all feed-thru connectors. They also have a built-in barrier which not only eliminates need for sleeving of base and emitter connections but also serves as an assembly aid during installation.

Simplify power transistor mountings and insulation, and improve thermal efficiency with molded insulators. These insulators are molded of Type 66 Nylon for regular applications and of Glass Filled Polyester for heavy-duty uses. They replace up to six pieces of conventional insulation required with previous mountings. They also



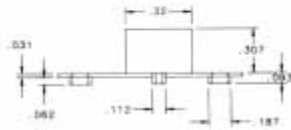
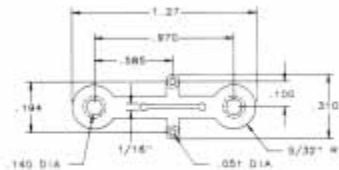
STANDARD



POWER TRANSISTOR MOUNTS

PTI-1 for TO-3

ITEM NUMBER	DESCRIPTION
19PTI1	PTI-1
18PTI1WOB	PTI-1 W/O BARRIER

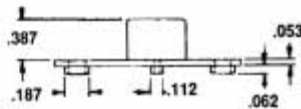
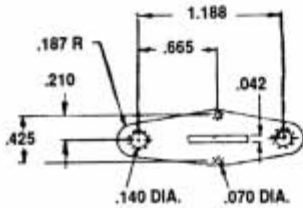


STANDARD

POWER TRANSISTOR MOUNTS

PTI-2 for TO-66

ITEM NUMBER	DESCRIPTION
19PTI2	PTI-2
18PTI2WOB	PTI-2 W/O BARRIER

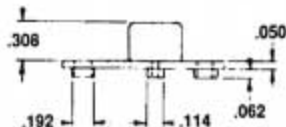
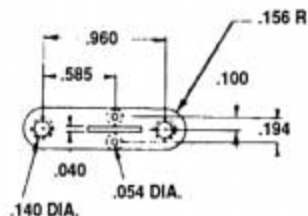


HEAVY DUTY

POWER TRANSISTOR MOUNTS

PTI-1-H for TO-3

ITEM NUMBER	DESCRIPTION
20PTI1HD	PTI-1 HD
18PTI1HDWOB	PTI-1 HD W/O BARRIER



HEAVY DUTY

POWER TRANSISTOR MOUNTS

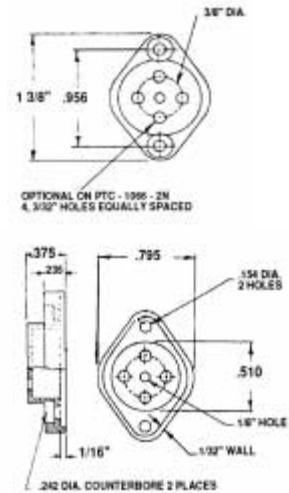
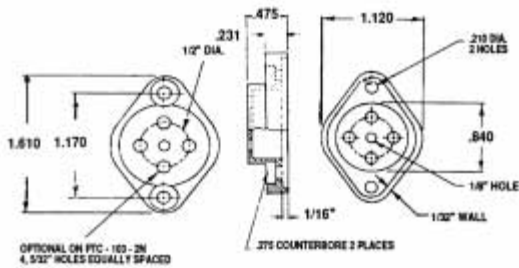
PTI-2-H for TO-66

ITEM NUMBER	DESCRIPTION
20PTI2HD	PTI-2 HD
18PTI2HDWOB	PTI-2 HD W/O BARRIER

CIRCUIT BOARD HARDWARE

SECTION
VIII

Micro Plastics' Power Transistor Covers are available in both TO-3 and TO-66 configurations. Both 1 hole, 5 hole and no hole styles are offered. Transistor covers are stocked in Nylon 6/6. Other materials are available upon request.

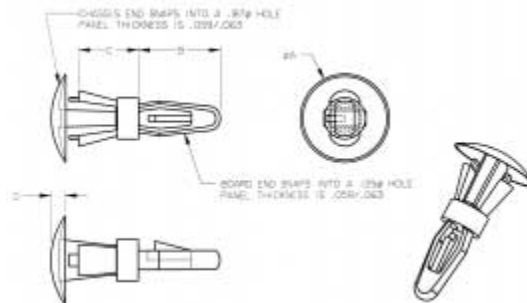


POWER TRANSISTOR COVERS TO-3

ITEM NUMBER	DESCRIPTION
21PTC01031	PTC 103-1N 1 HOLE
21PTC01032	PTC103-2N 5 HOLE
21PTC01033	PTC 103-ON NO HOLE

POWER TRANSISTOR COVERS TO-66

ITEM NUMBER	DESCRIPTION
21PTC010661	PTC1066-1N 1-HOLE
21PTC010662	PTC1066-2N 5-HOLE
21PTC010663	PTC1066-ON NO HOLE



REVERSE LOCKING CIRCUIT BOARD SUPPORTS

ITEM NUMBER	DESCRIPTION	A	B	C	D
27RV00250	RV 250	.375 (9,53)	11/32" (8,71)	.250 (6,35)	.060 (1,52)
27RV00375	RV 375	.375 (9,53)	11/32" (8,71)	.375 (9,53)	.060 (1,52)



REVERSE LOCKING CIRCUIT BOARD SUPPORT STANDOFF

ITEM NUMBER	DESCRIPTION	HEAD DIA.	BODY DIA.	HEAD HEIGHT	HOLE SIZE	A
27RVS00500	RVS 500	.375 (9,53)	.150 (3,81)	.045 (1,14)	.178 (4,52)	.500 (12,70)

HOSE CLAMPS AND INSTALLATION TOOLS

SECTION IX

- APPLIANCE -

Dishwashers, laundry, refrigerators, food preparation equipment.

- ELECTRICAL/ELECTRONIC -

Positioning and placement of components and wiring.

- R.V./BOATING -

Plumbing and Accessories.

- AUTOMOTIVE -

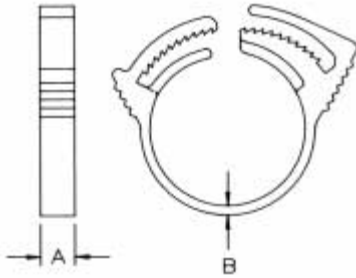
Underhood applications, Heat-Stabilized material is available, call for details.



PREMIUM NYLON HOSE CLAMPS

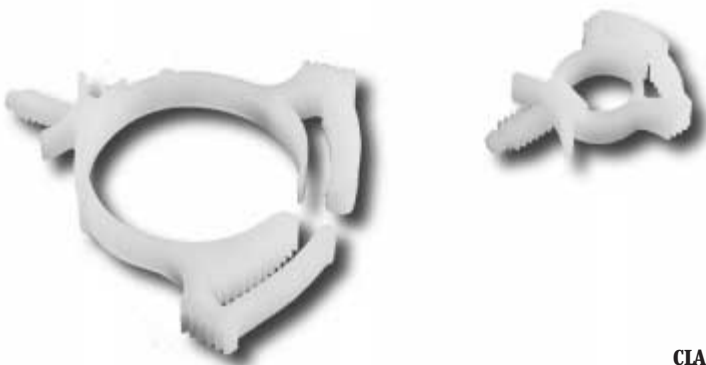
PATENTED INTERLOCKING DESIGN ELIMINATES LEAK PATH

Easy installation on most liquid, gas, or vacuum lines.
Nylon clamps tough, corrosion resistant and resilient.
Parts are removable and reusable.

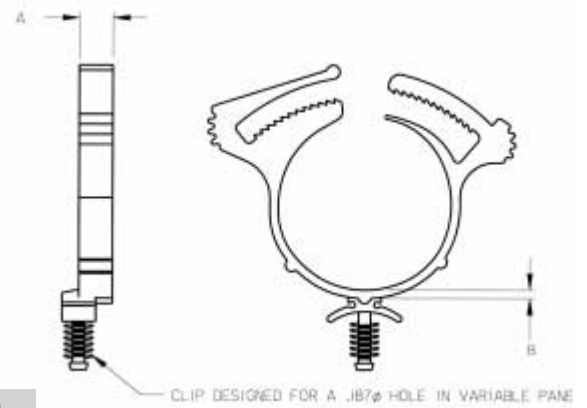


ITEM NUMBER	DESCRIPTION	A	B	CLAMPING RANGE	
				MIN.	MAX
22HC0250	1/4" Hose Clamp	7/32" (5,56)	1/16" (1,59)	.246 (6,25)	.290 (7,37)
22HC0312	5/16" Hose Clamp	7/32" (5,56)	3/64" (1,19)	.300 (7,62)	.350 (8,89)
22HC0344	11/32" Hose Clamp	7/32" (5,56)	1/16" (1,59)	.360 (9,14)	.406 (10,31)
22HC0406	13/32" Hose Clamp	1/4" (6,35)	1/16" (1,59)	.410 (10,41)	.468 (11,89)
22HC0468	15/32" Hose Clamp	7/32" (5,56)	1/16" (1,59)	.475 (12,07)	.536 (13,61)
22HC0531	17/32" Hose Clamp	1/4" (6,35)	1/16" (1,59)	.538 (13,67)	.608 (15,44)
22HC0593	19/32" Hose Clamp	1/4" (6,35)	1/16" (1,59)	.597 (15,16)	.665 (16,89)
22HC0672	43/64" Hose Clamp	7/32" (5,56)	1/16" (1,59)	.670 (17,02)	.780 (19,81)
22HC0750	3/4" Hose Clamp	7/32" (5,56)	1/16" (1,59)	.730 (18,54)	.830 (21,08)
22HC0875	7/8" Hose Clamp	7/32" (5,56)	1/16" (1,59)	.870 (22,10)	.975 (24,77)
22HC0953	61/64" Hose Clamp	1/4" (6,35)	1/16" (1,59)	.953 (24,21)	1.093 (27,76)
22HC1031	1-1/32" Hose Clamp	5/16" (7,94)	1/16" (1,59)	1.031 (26,19)	1.187 (30,15)
22HC1250	1-1/4" Hose Clamp	5/16" (7,94)	1/16" (1,59)	1.250 (31,75)	1.425 (36,20)
22HC1406	1-13/32" Hose Clamp	11/32" (8,73)	1/16" (1,59)	1.406 (35,71)	1.610 (40,89)
22HC1593	1-19/32" Hose Clamp	11/32" (8,73)	1/16" (1,59)	1.593 (40,46)	1.812 (46,02)
22HC1687	1-11/16" Hose Clamp	11/32" (8,73)	1/16" (1,59)	1.790 (45,47)	2.110 (53,59)
22HC1875	1-7/8" Hose Clamp	13/32" (10,32)	1/16" (1,59)	1.870 (47,50)	2.125 (53,98)
22HC2125	2-1/8" Hose Clamp	13/32" (10,32)	1/16" (1,59)	2.120 (53,85)	2.390 (60,71)

STANDARD HOSE CLAMPS FIN CLIP BASE



ITEM NUMBER	A		B		CLAMPING RANGE	
	MIN.	MAX	MIN.	MAX	MIN.	MAX
22HCFC037188	.230 (5,84)	.070 (1,78)	.360 (9,14)	.395 (10,03)		
22HCFC106188	.250 (6,35)	.070 (1,78)	.990 (25,15)	1.135 (28,83)		



HOSE CLAMPS AND INSTALLATION TOOLS

- APPLIANCE -

Dishwashers, laundry, refrigerators, food preparation equipment.

- ELECTRICAL/ELECTRONIC -

Positioning and placement of components and wiring.

- R.V./BOATING -

Plumbing and Accessories.

- AUTOMOTIVE -

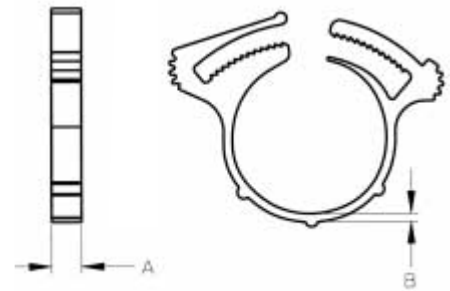
Underhood applications, Heat-Stabilized material is available, call for details.



STANDARD NYLON HOSE CLAMPS

ITEM NUMBER	DESCRIPTION	A	B	CLAMPING RANGE	
				MIN.	MAX
22HSC0312	Hose Clamp	.150 (3,81)	.070 (1,78)	.307 (7,80)	.342 (8,69)
22HSC0375	3/8" Hose Clamp	.250 (6,35)	.070 (1,78)	.360 (9,14)	.395 (10,03)
22HSC0437	7/16" Hose Clamp	.230 (5,84)	.070 (1,78)	.404 (10,26)	.452 (11,48)
22HSC0500	1/2" Hose Clamp	.230 (5,84)	.070 (1,78)	.449 (11,70)	.511 (12,98)
22HSC0562	9/16" Hose Clamp	.230 (5,84)	.230 (5,84)	.513 (13,03)	.586 (14,88)
22HSC0625	5/8" Hose Clamp	.230 (5,84)	.070 (1,78)	.569 (14,45)	.650 (16,51)
22HSC0687	1 1/16" Hose Clamp	.230 (5,84)	.070 (1,78)	.616 (15,65)	.707 (17,96)
22HSC0750	3/4" Hose Clamp	.230 (5,84)	.070 (1,78)	.702 (17,83)	.801 (20,35)
22HSC0875	7/8" Hose Clamp	.230 (5,84)	.070 (1,78)	.779 (19,79)	.899 (22,83)
22HSC0937	15/16" Hose Clamp	.230 (5,84)	.070 (1,78)	.859 (21,82)	.989 (25,12)
22HSC1000	1" Hose Clamp	.230 (5,84)	.070 (1,78)	.928 (23,57)	1.072 (27,23)
22HSC1060	1 1/16" Hose Clamp	.250 (6,35)	.070 (1,78)	.990 (25,15)	1.135 (28,83)
22HSC1208	13/16" Hose Clamp	.230 (5,84)	.070 (1,78)	1.123 (28,52)	1.296 (32,92)

Nylon clamps tough, corrosion resistant and resilient. Parts are removable and reusable.



HOSE CLAMP INSTALLATION TOOLS



**PNEUMATIC
HOSE CLAMP TOOL**
ITEM NUMBER 22PHCT0100

Micro Plastics' Pneumatic -Ergonomic Hose Clamp Installation Tool has been carefully designed to help reduce the wrist fatigue associated with the rapid assembly of Nylon Hose Clamps. The easy trigger-type actuation of this air tool, in combination with the ergonomic angle of the hand grip, allows natural alignment of the wrist and hand during normal clamp installation. The tool operates on standard shop air from 30-100 PSE. Lightweight, only 18 ounces. Tools are configured prior to shipping. Please specify Hose Clamp sizes to be installed when ordering.

NOT AVAILABLE FOR HOSE CLAMP SIZES LARGER THAN .953



**PNEUMATIC ERGONOMIC
HOSE CLAMP TOOL**
ITEM NUMBER 22PHCET0100

PATENT PENDING

CABLE TIES AND MOUNTING HARDWARE

SECTION

X

CABLE TIES

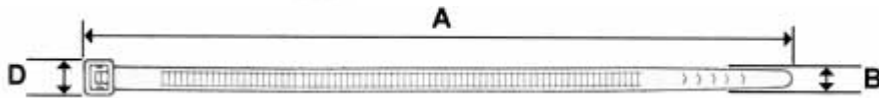


Manufactured from tough, durable Nylon 6/6 material which is self extinguishing to U.L. 94V2. The Nylon is inert to fungus or mold and is resistant to petrols, oil, grease and alkalis, etc. Ties can be tensioned by hand or by the use of applied tensioning tools.

Ties are offered in Natural and Black Nylon.

Ties are packaged 100 per bag.

For ties packaged 1,000 per bag, change the "C" at the end of the part number to an "M".



MINIATURE RANGE

PART NUMBER		LENGTH		WIDTH		MAX. DIAMETER		MIN. STRENGTH	
NATURAL	BLACK	STANDARD	METRIC	STANDARD	METRIC	STANDARD	METRIC	STANDARD	METRIC
NT08025C	NT08025CB	3.15"	80MM	.098"	2.5MM	.55"	14MM	18 lb.	8.1 kg
NT10025C	NT10025CB	3.96"	100MM	.098"	2.5MM	.79"	20MM	18 lb.	8.1 kg
NT16025C	NT16025CB	6.30"	160MM	.098"	2.5MM	1.48"	36MM	18 lb.	8.1 kg
NT20025C	NT20025CB	7.87"	200MM	.098"	2.5MM	1.97"	50MM	18 lb.	8.1 kg

INTERMEDIATE RANGE

PART NUMBER		LENGTH		WIDTH		MAX. DIAMETER		MIN. STRENGTH	
NATURAL	BLACK	STANDARD	METRIC	STANDARD	METRIC	STANDARD	METRIC	STANDARD	METRIC
NT14036C	NT14036CB	5.51"	140MM	.142"	3.6MM	1.18"	30MM	40 lb.	8.2 kg
NT20036C	NT20036CB	7.87"	200MM	.142"	3.6MM	1.97"	50MM	40 lb.	8.2 kg
NT29536C	NT29536CB	11.61"	295MM	.142"	3.6MM	2.95"	75MM	40 lb.	8.2 kg

STANDARD RANGE

PART NUMBER		LENGTH		WIDTH		MAX. DIAMETER		MIN. STRENGTH	
NATURAL	BLACK	STANDARD	METRIC	STANDARD	METRIC	STANDARD	METRIC	STANDARD	METRIC
NT16048C	NT16048CB	6.30"	160MM	.189"	4.8MM	1.42"	36MM	50 lb.	22.2 kg
NT18048C	NT18048CB	7.08"	180MM	.189"	4.8MM	1.56"	40MM	50 lb.	22.2 kg
NT20048C	NT20048CB	7.87"	200MM	.189"	4.8MM	1.97"	50MM	50 lb.	22.2 kg
NT25048C	NT25048CB	9.84"	250MM	.189"	4.8MM	2.76"	70MM	50 lb.	22.2 kg
NT29548C	NT29548CB	11.61"	295MM	.189"	4.8MM	2.95"	75MM	50 lb.	22.2 kg
NT37048C	NT37048CB	14.57"	370MM	.189"	4.8MM	3.94"	100MM	50 lb.	22.2 kg

LIGHT HEAVY RANGE

PART NUMBER		LENGTH		WIDTH		MAX. DIAMETER		MIN. STRENGTH	
NATURAL	BLACK	STANDARD	METRIC	STANDARD	METRIC	STANDARD	METRIC	STANDARD	METRIC
NT15076C	NT15076CB	5.91"	150MM	.299"	7.6MM	1.42"	36MM	120 lb.	54.5 kg
NT20076C	NT20076CB	7.87"	200MM	.299"	7.6MM	1.97"	50MM	120 lb.	54.5 kg
NT29076C	NT29076CB	11.42"	290MM	.299"	7.6MM	3.15"	80MM	120 lb.	54.5 kg
NT37076C	NT37076CB	14.57"	370MM	.299"	7.6MM	4.13"	105MM	120 lb.	54.5 kg

CABLE TIE INSTALLATION TOOLS

STANDARD METAL TENSIONING TOOLS

ITEM NUMBER

NTTOOLMHD



FOR USE CABLE TIE WIDTHS FROM .189" TO .512"

STANDARD ADJUSTABLE NYLON TENSIONING TOOLS

ITEM NUMBER

NTTOOLI



FOR USE CABLE TIE WIDTHS FROM .087" TO .189"

STANDARD ADJUSTABLE METAL TENSIONING TOOLS

ITEM NUMBER

NTTOOLMI



FOR USE CABLE TIE WIDTHS FROM .087" TO .189"

FIN CLIP PUSH MOUNTS

"Fin clip push mounts" are available in 2 sizes for 3/16" and 1/4" diameter holes. The special head configuration allows use with beaded ties, as well as conventional cable ties. parts are molded in black U.V. stabilized high density polyethylene, and are suitable for use in pre-drilled holes in wood, masonry, and a variety of other materials.



ITEM NUMBER

23FCPM18765

DESCRIPTION

3/16" PUSH MOUNT

ITEM NUMBER

23FCPM25095

DESCRIPTION

1/4" PUSH MOUNT

TOLERANCE +/- .015"

CABLE TIES AND MOUNTING HARDWARE

SECTION

X

CLIP MOUNTS

Clip Mounts are designed to securely connect a tie to a predrilled hole. Clip Mounts can be used in applications where the back of the panel is inaccessible.



ITEM NUMBER	DESCRIPTION
23TA00100	.187 (4,75) CLIP MOUNT
23TA00110	.250 (6,35) CLIP MOUNT

ITEM NUMBER	DESCRIPTION
23TA00120	.250 (6,35) CLIP MOUNT

SCREW TABS

Screw Tabs are designed for use where space is limited. Tabs are fastened with a screw to provide a low profile assembly.

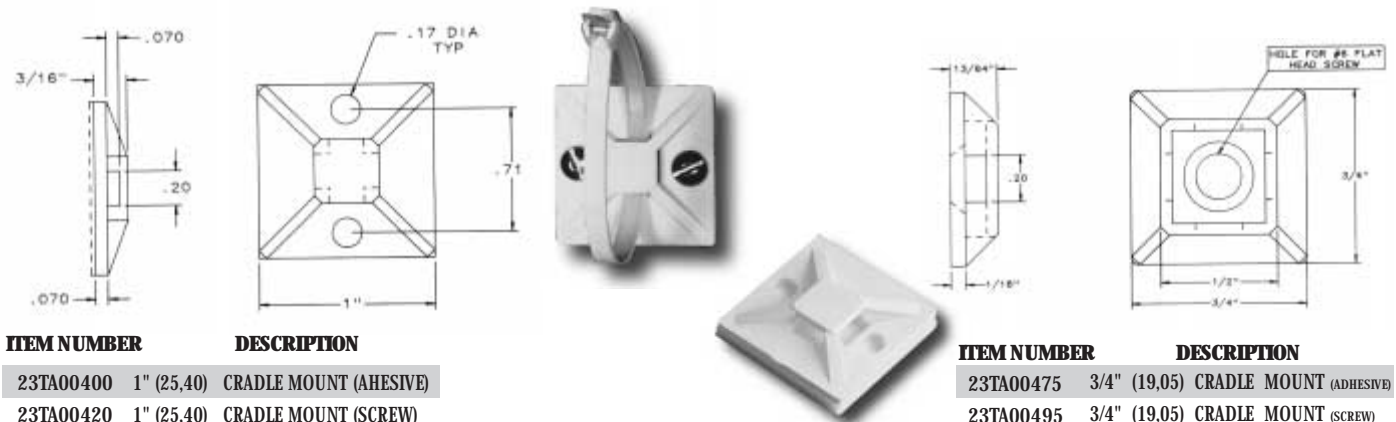


ITEM NUMBER	DESCRIPTION
23TA00200	#8 SCREW TAB

ITEM NUMBER	DESCRIPTION
23TA00250	1/4" (6,35) SCREW TAB

CRADLE MOUNTS

Cradle Mounts are used in applications where a low profile is necessary. Each mount offers a four way entry and is secured with either a screw or adhesive backing. 23TA00400 is secured with a #2 - #4 or #6 screw, 23TA00495 uses #6 Flat Head Screw. NOTE: the adhesive mounts have an acrylic foam backing that should be used on a smooth, clean, dry surface.



ITEM NUMBER	DESCRIPTION
23TA00400	1" (25,40) CRADLE MOUNT (ADHESIVE)
23TA00420	1" (25,40) CRADLE MOUNT (SCREW)

ITEM NUMBER	DESCRIPTION
23TA00475	3/4" (19,05) CRADLE MOUNT (ADHESIVE)
23TA00495	3/4" (19,05) CRADLE MOUNT (SCREW)

FASTENER ASSORTMENT KITS

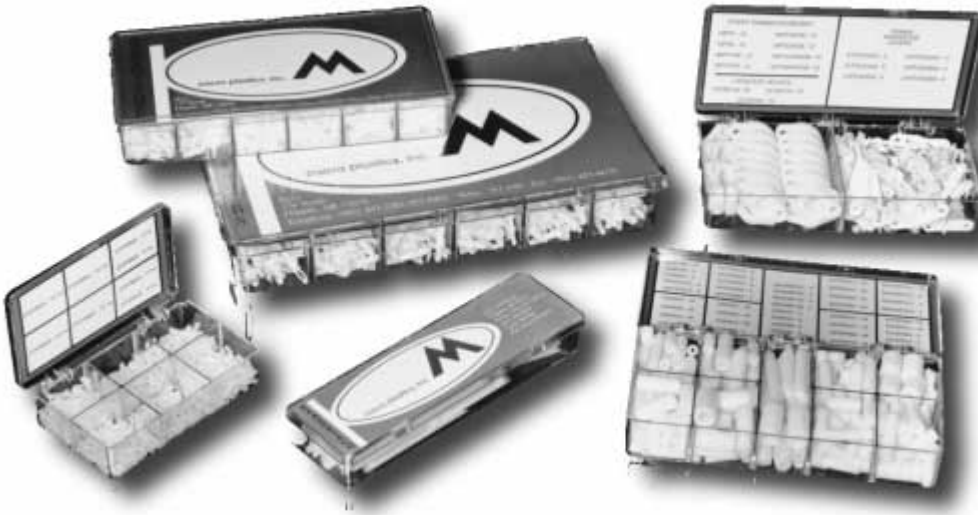
SECTION
XI

MOLDED NYLON FASTENERS PROVIDE ELECTRICAL INSULATION, VIBRATION AND CORROSION RESISTANCE. HAVE A LOW THERMAL CONDUCTIVITY, ARE

NON-MAGNETIC AND HAVE A HIGH STRENGTH-TO-WEIGHT RATIO. PACKAGED IN LARGE REUSABLE TRANSPARENT PLASTIC STORAGE BOXES.

IDEAL FOR:

- PROTOTYPE WORK** - Large working assortments.
- PRODUCT DESIGN** - Latest designs for increased productivity.
- MODEL MAKING** - Commercially available standard parts.
- SHOP AND MAINTENANCE** - Convenient selection.



04AS0475HC



PREMIUM HOSE CLAMPS

ASSORTMENT CONSISTS OF APPROXIMATELY:

- 50 - 22HC0250
- 45 - 22HC0344
- 40 - 22HC0406
- 40 - 22HC0468
- 40 - 22HC0531
- 40 - 22HC0593
- 35 - 22HC0750
- 30 - 22HC0875
- 30 - 22HC0953
- 25 - 22HC1031
- 20 - 22HC1250
- 15 - 22HC1406
- 20 - 22HC1593
- 15 - 22HC1687
- 15 - 22HC1875
- 10 - 22HC2125

04AS0075SR



STRAIN RELIEF BUSHINGS

ASSORTMENT CONSISTS OF APPROXIMATELY:

- 20 - 23MP02M40
- 16 - 23MP03P40
- 10 - 23MP04K40
- 10 - 23MP04N40
- 10 - 23MP05P40
- 4 - 23MP06N40
- 6 - 23MP06P34
- 12 - 23MP06W10
- 2 - 23MP07W20
- 2 - 23MP03020
- 8 - 23MP14L10
- 8 - 23MP15L10

04AS0180TCH



Over 100 Transistor Covers
Transistor and Capacitor Mounts in
17 Different Styles and Configurations

TRANSISTOR HARDWARE

ASSORTMENT CONSISTS OF APPROXIMATELY:

- 12 - 19PT11
- 12 - 19PT12
- 12 - 19PT11HD
- 12 - 19PT12HD
- 12 - 19PT11WOB
- 12 - 19PT12WOB
- 12 - 19PT11HDWOB
- 12 - 19PT12HDWOB
- 4 - 21PTC01031
- 4 - 21PTC01032
- 4 - 21PTC01033
- 4 - 21PTC010661
- 4 - 21PTC010662
- 2 - 21PTC010663
- 20 - 22CM0100
- 20 - 22CM0150
- 20 - 22CM0200



FASTENER ASSORTMENT KITS

SECTION XI

MOLDED NYLON FASTENERS PROVIDE ELECTRICAL INSULATION, VIBRATION AND CORROSION RESISTANCE. HAVE A LOW THERMAL CONDUCTIVITY, ARE

NON-MAGNETIC AND HAVE A HIGH STRENGTH-TO-WEIGHT RATIO. PACKAGED IN LARGE REUSABLE TRANSPARENT PLASTIC STORAGE BOXES.

IDEAL FOR:

PROTOTYPE WORK - Large working assortments.

PRODUCT DESIGN - Latest designs for increased productivity.

MODEL MAKING - Commercially available standard parts.

SHOP AND MAINTENANCE - Convenient selection.

04AS0750MSN



Over 750 Nylon Fasteners
Over 40 Different Sizes and Types

SCREWS AND NUTS

ASSORTMENT CONSISTS OF APPROXIMATELY: ROUND, HEX, PAN, BINDER, AND FILLISTER HEADSTYLE MACHINE SCREWS. IN THE FOLLOWING SIZES;

100 - 440 X 1/4" to 1" LONG

ASSORTED HEADSTYLES

100 - 623 X 1/4" to 5/8" LONG

ASSORTED HEADSTYLES

100 - 832 X 1/4" to 3/4" LONG

ASSORTED HEADSTYLES

100 - 1032 X 1/4" to 1/2" LONG

ASSORTED HEADSTYLES

30 - 1/4-20 X 1/4" to 3/4" LONG

ROUND and FILLISTER HEAD

100 - 440, 632, 832, 1032, & 1/4-20

SOCKET SET SCREWS

100 - 440, 632, 832, 1032, & 1/4-20

HEX NUTS

125 - #4, #6, #8, #10, & 1/4

FLATWASHERS

04AS0900FAS



Over 900 Nylon Fasteners
Over 65 Different Sizes and Types.

FASTENERS

250 MOLDED NYLON SCREWS
Assorted sizes and headstyles;
Round, Pan, Fillister, Flat, Binder, Hex and Set.

100 - SOCKET SET SCREWS

50 - POIY DRIVE RIVETS

100 - FLAT WASHERS

100 - HEX NUTS

50 - LOCK NUTS

40 - CAP NUTS

10 - WING NUTS

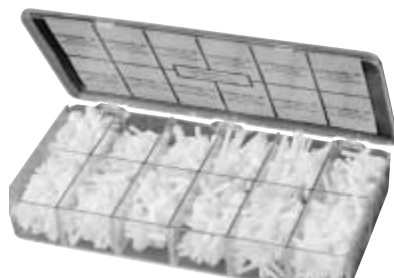
50 - PUSH-IN FASTENERS

50 - ARROW CLIPS

100 - SCREW INSULATORS

20 - THUMB SCREWS

04AS0380PRT



Over 380 Assorted Nylon Drive Rivets
with Insertion Tool

POIY DRIVE RIVETS

ASSORTMENT CONSISTS OF APPROXIMATELY:

40 - 61PR200000 .187 .156/.281

40 - 61PR300000 .187 .312/.440

50 - 61PR300100 .187 .062/.187

40 - 61PR300300 .187 .078/.375

40 - 61PR300800 .187 .375/.750

30 - 61PR400500 .187 .375/.500

40 - 61PR500500 .218 .031/.062

40 - 61PR010000 .218 .187/.250

40 - 61PR100000 .218 .093/.350

20 - 61PR010100 .226 .125/.312

1 - 61PRT0125 DRIVE RIVET INSERTION TOOL

04AS0320SWS



All in Assorted Lengths and
Shoulder Height Combinations.

SHOULDER WASHERS

ASSORTMENT CONSISTS OF APPROXIMATELY:

150 - SHOULDER WASHERS

.093 to 1/4" ID

.125 to .500 OD

30 - #2 SCREW INSULATORS

30 - #4 SCREW INSULATORS

25 - #6 SCREW INSULATORS

25 - #8 SCREW INSULATORS

25 - #10 SCREW INSULATORS

25 - 1/4 SCREW INSULATORS

10 - 5/16 SCREW INSULATORS

04AS0581NIC



Over 500 Nail-In Clips
In 6 Different Sizes and Types.

NAIL-IN CLIPS

ASSORTMENT CONSISTS OF APPROXIMATELY:

155 - 22NCC0400R

4mm 75 COAX

155 - 22NCC0450F

4.5MM BELL

125 - 22NCC0500R

5mm RG-58

45 - 22NCC0700R

7mm RG-6

56 - 22NCO800F

8MM 59 TRIAX

45 - 22NCC0900F

9MM DUAL RG-6



04AS0162CA



Over 150 Cable Clips in 12 Popular Sizes Including: Nail-in Clips, Heavy Duty Clips, Wire Clips and Spring Clips.

CLIPS

ASSORTMENT CONSISTS OF APPROXIMATELY:

- 15 - 22NCC0450F
- 10 - 22NCC0900F
- 5 - 22NCC0800R
- 8 - 22NCC0700R
- 15 - 22NCC0400R
- 12 - 22WC0500312
- 25 - 22SPC375132
- 20 - 22HDC4840
- 12 - 22HDC4220
- 15 - 22HDC3590
- 15 - 22HDC2970
- 10 - 22NCC0500R

04AS0340SP



SPACERS/STANDOFFS

ASSORTMENT CONSISTS OF APPROXIMATELY:

- 100 - ROUND SPACERS - PLAIN 3/16", 1/4", 3/8", 1/2" DIAMETERS, 1/8" to 1" Long.
- 80 - HEX SPACERS - PLAIN 1/4" to 1" Long.
- 35 - ROUND SPACERS - TAPPED 440, 632, 832, 1032, 1/4-20, 1/4", 5/16", 3/8", 1/2" Diameter, 1/4" to 1" Long.
- 30 - HEX SPACERS - TAPPED 440, 632, 832, Diameter, 1/4" to 1" Long.
- 45 - HEX MALE/FEMALE STANDOFFS - THREADED 440, 632, 832 Diameter, 1/4" to 1" Long.

04AS0290CC



Over 290 Cable Clamps in 18 Popular Sizes.

CABLE CLAMPS

ASSORTMENT CONSISTS OF APPROXIMATELY:

- 40 - 1/8" X 1/8" CABLE CLAMPS
- 25 - 3/16" X 1/2" CABLE CLAMPS
- 1/4" X 1/2" CABLE CLAMPS
- 1/4" X 3/8" CABLE CLAMPS
- 20 - 5/16" X 3/8" CABLE CLAMPS
- 3/8" X 3/8" CABLE CLAMPS
- 7/16" X 3/8" CABLE CLAMPS
- 1/2" X 3/8" CABLE CLAMPS
- 15 - 5/16" X 1/2" CABLE CLAMPS
- 3/8" X 1/2" CABLE CLAMPS
- 7/16" X 1/2" CABLE CLAMPS
- 10 - 1/2" X 1/2" CABLE CLAMPS
- 9/16" X 1/2" CABLE CLAMPS
- 5/8" X 1/2" CABLE CLAMPS
- 3/4" X 1/2" CABLE CLAMPS
- 5 - 1" X 1/2" CABLE CLAMPS
- 3 - 1 1/4" X 1/2" CABLE CLAMPS
- 1 1/2" X 1/2" CABLE CLAMPS

04AS0305MCS



Over 300 NYLON METAL CORE SCREWS Over 30 Different Sizes and Headstyles.

METAL CORE SCREWS

ASSORTMENT CONSISTS OF APPROXIMATELY: ALL IN ASSORTED ROUND, ROUND WASHER, FLAT AND FILLISTER HEADSTYLES.

- 130 - 632 X 1/4" to 1" METAL CORE SCREWS
- 75 - 832 X 3/8" to 1" METAL CORE SCREWS
- 60 - 1032 X 3/8" to 1" METAL CORE SCREWS
- 40 - 1/4-20 X 3/8" to 1 1/2" METAL CORE SCREWS

MOLED NYLON FASTENERS PROVIDE ELECTRICAL INSULATION, VIBRATION AND CORROSION RESISTANCE. HAVE A LOW THERMAL CONDUCTIVITY, ARE NON-MAGNETIC AND HAVE A HIGH STRENGTH-TO-WEIGHT RATIO. PACKAGED IN LARGE REUSABLE TRANSPARENT PLASTIC STORAGE BOXES.

IDEAL FOR:

- PROTOTYPE WORK - Large working assortments.
- PRODUCT DESIGN - Latest designs for increased productivity.
- MODEL MAKING - Commercially available standard parts.
- SHOP AND MAINTENANCE - Convenient selection.

04AS0107ABC



Over 100 Adhesive Backed Cable Clips in 10 Sizes including Single, Double and Releasable Styles.

ADHESIVE BACKED CLIPS

ASSORTMENT CONSISTS OF APPROXIMATELY:

- 10 - 22AWCO0375
- 20 - 22AWCO0125
- 10 - 22DPC25550
- 20 - 22DPC13037
- 4 - 22DPC38062
- 4 - 22SPC38562
- 3 - 22DPC50575
- 6 - 22SPC50575
- 20 - 22SPC13037
- 10 - 22SPC25550



FASTENER ASSORTMENT KITS

SECTION XI

MOLED NYLON FASTENERS PROVIDE ELECTRICAL INSULATION, VIBRATION AND CORROSION RESISTANCE. HAVE A LOW THERMAL CONDUCTIVITY, ARE

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04AS0480CBS



CIRCUIT BOARD SUPPORTS

ASSORTMENT CONSISTS OF APPROXIMATELY:

- 25 - 27ITP1375
- 25 - 27LLP1375
- 15 - 27ITP1250
- 15 - 27LLP1250
- 15 - 27ITP1000
- 15 - 27LLP1000
- 25 - 27ITP0500
- 25 - 27LLP0500
- 25 - 27ITP0437
- 25 - 27LLP0437
- 25 - 27ITP0375
- 25 - 27LLP0375
- 25 - 27ITP0250
- 25 - 27LLP0250
- 25 - 27ITP0187
- 25 - 27LLP0187
- 20 - 27ITP0875
- 20 - 27LLP0875
- 20 - 27ITP0750
- 20 - 27LLP0750
- 20 - 27ITP0625
- 20 - 27LLP0625

04AS0140CC



Over 140 Cable Clips
In 15 Different Styles & Sizes

CABLE CLIPS

ASSORTMENT CONSISTS OF APPROXIMATELY:

- 12 - 22DPC13037
- 10 - 22DPC25550
- 6 - 22DPC38062
- 4 - 22DPC50575
- 12 - 22SPC13037
- 10 - 22SPC25550
- 6 - 22SPC38062
- 4 - 22SPC50575
- 12 - 22HDCC1250
- 12 - 22HDCC1750
- 12 - 22HDCC2340
- 12 - 22HDCC2970
- 12 - 22HDCC3590
- 12 - 22HDCC4240
- 6 - 22HDCC4840

04AS0700ECA



Over 700 Connectors
3 Different Body and Pin assemblies

2PC. EDGE CONNECTORS

ASSORTMENT CONSISTS OF APPROXIMATELY:

- 100 - 27TPF0003A
- 100 - 27TPF0003B
- 100 - 27TPF0004A
- 100 - 27TPF0004B
- 75 - 27TPF0002A
- 75 - 27TPF0002B
- 75 - 27TPF0001A
- 75 - 27TPF0001B

04AS0368DHP



DELUXE HOLE PLUGS

ASSORTMENT CONSISTS OF APPROXIMATELY:

- 2 - 62MP2000
- 2 - 62MP1750
- 2 - 62MP1500
- 2 - 62MP1375
- 2 - 62MP1250
- 2 - 62MP1187
- 3 - 62MP1093
- 5 - 62MP1000
- 40 - 62MP0250
- 50 - 62MP0187
- 25 - 62MP0375
- 20 - 62MP0500
- 8 - 62MP0812
- 10 - 62MP0875
- 10 - 62MP0750
- 5 - 62MP1000V
- 8 - 62MP0875V
- 4 - 62VP100BM11
- 6 - 62PP100BG11
- 6 - 62PP087BG11
- 6 - 62PP087BM11
- 4 - 62PP081BG11
- 4 - 62PP081BM11
- 5 - 62PP075BG11
- 5 - 62PP075BM11
- 5 - 62PP062BG07
- 5 - 62PP062BM07
- 10 - 62PP050BM14
- 10 - 62PP050BG14
- 10 - 62PP043BM17
- 10 - 62PP043BG17
- 10 - 62PP037BG31
- 10 - 62PP037BM31
- 10 - 62PP025BG06
- 10 - 62PP025BM06
- 15 - 62PP018BG14
- 15 - 62PP018BM14

04AS0725MSP



PC.B. POSTS

ASSORTMENT CONSISTS OF APPROXIMATELY:

- 100 - 27MSP00125
- 100 - 27MSP00250
- 95 - 27MSP00312
- 80 - 27MSP00375
- 70 - 27MSP00437
- 60 - 27MSP00500
- 50 - 27MSP00625
- 40 - 27MSP00750
- 75 - 27MSP00875
- 65 - 27MSP01000

04AS0036CG



PC.B. CARD GUIDES

ASSORTMENT CONSISTS OF APPROXIMATELY:

- 4 - 21CG00600 CARD GUIDES
- 4 - 21CG00550 CARD GUIDES
- 4 - 21CG00450 CARD GUIDES
- 6 - 21CG00400 CARD GUIDES
- 6 - 21CG00350 CARD GUIDES
- 6 - 21CG00300 CARD GUIDES
- 6 - 21CG00250 CARD GUIDES

04AS0120WAR



*Over 115 Nylon Screw Anchors
in 12 Different Styles and Sizes.*

WALL ANCHOR / RIVETS

ASSORTMENT CONSISTS OF APPROXIMATELY:

- 40 - #6 / #8 SCREW ANCHORS
- 24 - #10 / #12 SCREW ANCHORS
- 20 - #14 / #16 SCREW ANCHORS
- 4 - 3/16" X 3/4" 2 PIECE RIVET, STEEL
- 12 - 1/4" X 1" TWO PIECE RIVET, STEEL
- 4 - 1/4" X 3/4" TWO PIECE RIVET, NYLON
- 8 - 1/4" X 1 1/2" TWO PIECE RIVET, NYLON
- 4 - 1/4" X 1" TWO PIECE RIVET, NYLON

04AS0510FW



*All in Assorted Outside Diameters
and Thickness Ranges.*

FLAT WASHERS

ASSORTMENT CONSISTS OF APPROXIMATELY:

- 50 - #2 FLATWASHERS
- 60 - #4 FLATWASHERS
- 60 - #6 FLATWASHERS
- 60 - #8 FLATWASHERS
- 60 - #10 FLATWASHERS
- 60 - 1/4" FLATWASHERS
- 40 - 3/8" FLATWASHERS
- 20 - 1/2" FLATWASHERS
- 100 - 9/16" to 3/4" FLATWASHERS

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IDEAL FOR:

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PRODUCT DESIGN - Latest designs for increased productivity.

MODEL MAKING - Commercially available standard parts.

SHOP AND MAINTENANCE - Convenient selection.

04AS0190TTT



*Over 180 Assorted Nylon Twist Lock Ties
in 6 Popular Sizes.*

"EZ" TWIST LOCKS

ASSORTMENT CONSISTS OF APPROXIMATELY:

- 50 - 1/4" TWIST LOCK TIES
- 30 - 3/8" TWIST LOCK TIES
- 30 - 1/2" TWIST LOCK TIES
- 20 - 5/8" TWIST LOCK TIES
- 30 - 3/4" TWIST LOCK TIES
- 30 - 15/16" TWIST LOCK TIES

0AS0201AFB



ALL-FIT BUSHINGS

ASSORTMENT CONSISTS OF APPROXIMATELY:

- 15 - 22AF1000
- 15 - 22AF1093
- 30 - 22AF0875
- 36 - 22AF0812
- 45 - 22AF0750
- 60 - 22AF0625

*Over 200 Nylon All-Fit Bushings
in 6 Popular Sizes*

FASTENER ASSORTMENT KITS

SECTION XI

MOLDED NYLON FASTENERS PROVIDE ELECTRICAL INSULATION, VIBRATION AND CORROSION RESISTANCE. HAVE A LOW THERMAL CONDUCTIVITY, ARE

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MODEL MAKING - Commercially available standard parts.

SHOP AND MAINTENANCE - Convenient selection.

04AS0113ICA



Over 100 Lamp Accessories

LAMP ACCESSORIES

ASSORTMENT CONSISTS OF APPROXIMATELY:

- 10 - 3 1/2" THREADED TUBING
- 25 - 1/8" LAMP SNAP BUSHING
- 8 - 1/8 NPS LAMPCORD BUSHING
- 6 - 1/4 NPS LAMPCORD BUSHING
- 4 - 3/8 NPS LAMPCORD BUSHING
- 3 - 1/2 NPS LAMPCORD BUSHING
- 3 - 1/2 NPS 2 PC. THREADED BUSHING
- 10 - 23MP04K10
- 10 - 23MP04L40
- 10 - 23MP04N40
- 10 - 22MP05005
- 15 - 22MP01020

04AS0180WT



WIRE/CABLE TIES

ASSORTMENT CONSISTS OF APPROXIMATELY:

- 144 - WIRE TIES 4" to 6 3/4" Natural & Black
- 40 - BEADED TIES 4 1/4" Long
- 26 - ASSORTED CLIPS, TABS AND MOUNTS

04AS0150SB



INSULATING BUSHINGS

ASSORTMENT CONSISTS OF APPROXIMATELY:

- 24 - 22MP01010
- 24 - 22MP01015
- 24 - 22MP01030
- 24 - 22MP01050
- 12 - 22MP01060
- 12 - 22MP01080
- 24 - 22MP03754
- 24 - 22MP05004
- 12 - 22MP05627
- 6 - 22MP06258
- 6 - 22MP07510
- 6 - 22MP10012

04AS0130NHP

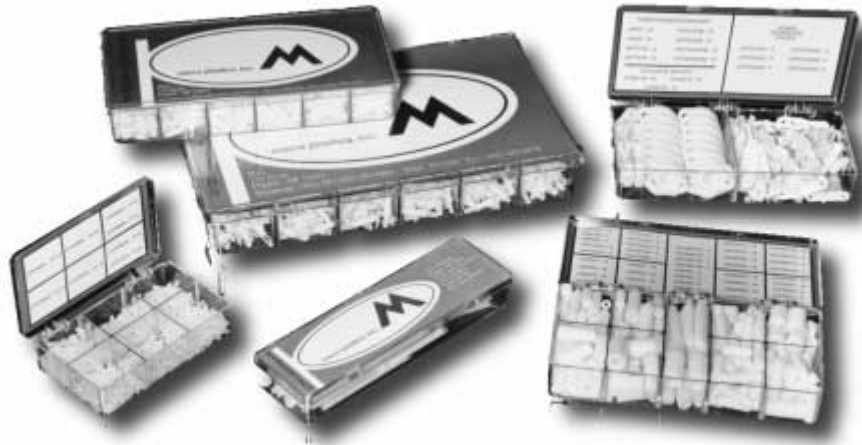


HOLE PLUGS

ASSORTMENT CONSISTS OF THE FOLLOWING HOLE PLUGS IN SMOOTH AND MATTE FINISH. APPROXIMATE COUNTS.

- 10 - 3/16" HOLE PLUGS
- 10 - 1/4" HOLE PLUGS
- 10 - 5/16" HOLE PLUGS
- 10 - 3/8" HOLE PLUGS
- 10 - 7/16" HOLE PLUGS
- 10 - 1/2" HOLE PLUGS
- 10 - 9/16" HOLE PLUGS
- 10 - 5/8" HOLE PLUGS
- 10 - 11/16" HOLE PLUGS
- 10 - 3/4" HOLE PLUGS
- 10 - 13/16" HOLE PLUGS
- 10 - 7/8" HOLE PLUGS
- 10 - 1" HOLE PLUGS

Over 130 Plugs in 13 Different Sizes and Types



METRIC SCREWS, BOLTS, AND THREADED ROD

ALL DIMENSIONS ARE IN MILLIMETERS

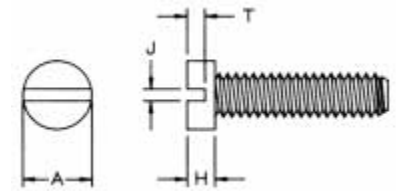
Nominal Screw Length	Tolerance On Length mm
to 3 mm incl.	0.2
over 3 to 10 mm	0.3
over 10 to 16 mm	0.4
over 16 to 50 mm	0.5
over 50 mm	1.0

All tolerances are plus and minus.

THREAD SIZE	THREAD			
	A	H	J	T
M2 X 0.4	3.80	1.30	0.70	0.90
M2.5 X 0.45	4.50	1.60	0.80	1.00
M3 X 0.5	5.50	2.00	1.00	1.30
M3.5 X 0.6	6.00	2.40	1.10	1.40
M4 X 0.7	7.00	2.60	1.20	1.60
M5 X .08	8.50	3.30	1.50	2.00
M6 X 1.0	10.00	3.90	1.90	2.30
M8 X 1.25	13.00	5.00	2.30	2.80
M10 X 1.5	15.63	6.00	2.80	3.20

ITEM NUMBER	DESCRIPTION	ITEM NUMBER	DESCRIPTION
50M020040D004	M2 X .4 X 4MM Cheese Slot	50M040070D020	M4 X .7 X 20MM Cheese Slot
50M020040D005	M2 X .4 X 5MM Cheese Slot	50M040070D025	M4 X .7 X 25MM Cheese Slot
50M020040D006	M2 X .4 X 6MM Cheese Slot	50M040070D030	M4 X .7 X 30MM Cheese Slot
50M020040D008	M2 X .4 X 8MM Cheese Slot	50M040070D035	M4 X .7 X 35MM Cheese Slot
50M020040D010	M2 X .4 X 10MM Cheese Slot	50M040070D040	M4 X .7 X 40MM Cheese Slot
50M020040D012	M2 X .4 X 12MM Cheese Slot	50M050080D006	M5 X .8 X 6MM Cheese Slot
50M020040D016	M2 X .4 X 16MM Cheese Slot	50M050080D008	M5 X .8 X 8MM Cheese Slot
50M020040D020	M2 X .4 X 20MM Cheese Slot	50M050080D010	M5 X .8 X 10MM Cheese Slot
50M020040D025	M2 X .4 X 25MM Cheese Slot	50M050080D012	M5 X .8 X 12MM Cheese Slot
50M025045D004	M2.5 X .45 X 4MM Cheese Slot	50M050080D016	M5 X .8 X 16MM Cheese Slot
50M025045D005	M2.5 X .45 X 5MM Cheese Slot	50M050080D020	M5 X .8 X 20MM Cheese Slot
50M025045D006	M2.5 X .45 X 6MM Cheese Slot	50M050080D025	M5 X .8 X 25MM Cheese Slot
50M025045D008	M2.5 X .45 X 8MM Cheese Slot	50M050080D030	M5 X .8 X 30MM Cheese Slot
50M025045D010	M2.5 X .45 X 10MM Cheese Slot	50M050080D035	M5 X .8 X 35MM Cheese Slot
50M025045D012	M2.5 X .45 X 12MM Cheese Slot	50M050080D040	M5 X .8 X 40MM Cheese Slot
50M025045D016	M2.5 X .45 X 16MM Cheese Slot	50M060100D005	M6 X 1.0 X 5MM Cheese Slot
50M025045D020	M2.5 X .45 X 20MM Cheese Slot	50M060100D008	M6 X 1.0 X 8MM Cheese Slot
50M025045D025	M2.5 X .45 X 25MM Cheese Slot	50M060100D010	M6 X 1.0 X 10MM Cheese Slot
50M030050D004	M3 X .5 X 4MM Cheese Slot	50M060100D012	M6 X 1.0 X 12MM Cheese Slot
50M030050D005	M3 X .5 X 5MM Cheese Slot	50M060100D016	M6 X 1.0 X 16MM Cheese Slot
50M030050D006	M3 X .5 X 6MM Cheese Slot	50M060100D020	M6 X 1.0 X 20MM Cheese Slot
50M030050D008	M3 X .5 X 8MM Cheese Slot	50M060100D025	M6 X 1.0 X 25MM Cheese Slot
50M030050D010	M3 X .5 X 10MM Cheese Slot	50M060100D030	M6 X 1.0 X 30MM Cheese Slot
50M030050D012	M3 X .5 X 12MM Cheese Slot	50M060100D035	M6 X 1.0 X 35MM Cheese Slot
50M030050D016	M3 X .5 X 16MM Cheese Slot	50M060100D040	M6 X 1.0 X 40MM Cheese Slot
50M030050D020	M3 X .5 X 20MM Cheese Slot	50M060100D045	M6 X 1.0 X 45MM Cheese Slot
50M030050D025	M3 X .5 X 25MM Cheese Slot	50M060100D050	M6 X 1.0 X 50MM Cheese Slot
50M030050D030	M3 X .5 X 30MM Cheese Slot	50M060100D060	M6 X 1.0 X 60MM Cheese Slot
50M030050D035	M3 X .5 X 35MM Cheese Slot	50M060100D065	M6 X 1.0 X 65MM Cheese Slot
50M030050D042	M3 X .5 X 42MM Cheese Slot	50M060100D070	M6 X 1.0 X 70MM Cheese Slot
50M035060D005	M3.5 X .6 X 5MM Cheese Slot	50M060100D075	M6 X 1.0 X 75MM Cheese Slot
50M035060D006	M3.5 X .6 X 6MM Cheese Slot	50M080125D010	M8 X 1.25 X 10MM Cheese Slot
50M035060D008	M3.5 X .6 X 8MM Cheese Slot	50M080125D016	M8 X 1.25 X 16MM Cheese Slot
50M035060D010	M3.5 X .6 X 10MM Cheese Slot	50M080125D020	M8 X 1.25 X 20MM Cheese Slot
50M035060D012	M3.5 X .6 X 12MM Cheese Slot	50M080125D025	M8 X 1.25 X 25MM Cheese Slot
50M035060D016	M3.5 X .6 X 16MM Cheese Slot	50M080125D030	M8 X 1.25 X 30MM Cheese Slot
50M035060D020	M3.5 X .6 X 20MM Cheese Slot	50M080125D035	M8 X 1.25 X 35MM Cheese Slot
50M035060D025	M3.5 X .6 X 25MM Cheese Slot	50M080125D050	M8 X 1.25 X 50MM Cheese Slot
50M035060D015	M3.5 X .6 X 35MM Cheese Slot	50M080125D070	M8 X 1.25 X 70MM Cheese Slot
50M035060D042	M3.5 X .6 X 42MM Cheese Slot	50M100150D016	M10 X 1.5 X 16MM Cheese Slot
50M040070D006	M4 X .7 X 6MM Cheese Slot	50M100150D020	M10 X 1.5 X 20MM Cheese Slot
50M040070D008	M4 X .7 X 8MM Cheese Slot	50M100150D025	M10 X 1.5 X 25MM Cheese Slot
50M040070D010	M4 X .7 X 10MM Cheese Slot	50M100150D030	M10 X 1.5 X 30MM Cheese Slot
50M040070D012	M4 X .7 X 12MM Cheese Slot	50M100150D035	M10 X 1.5 X 35MM Cheese Slot
50M040070D016	M4 X .7 X 16MM Cheese Slot	50M100150D050	M10 X 1.5 X 50MM Cheese Slot
		50M100150D060	M10 X 1.5 X 60MM Cheese Slot

CHEESE SLOTTED



METRIC SCREWS, BOLTS, AND THREADED ROD

SECTION XII

THREAD SIZE	A	H	W
M2	3.02 - 3.20	1.3 - 1.6	3.38 min.
M2.5	3.82 - 4.00	1.8 - 2.1	4.28 min.
M3	4.82 - 5.00	2.0 - 2.3	5.40 min.
M3.5	5.32 - 5.50	2.3 - 2.6	5.96 min.
M4	6.78 - 7.00	2.6 - 3.0	7.59 min.
M5	7.78 - 8.00	3.3 - 3.8	8.71 min.
M6	9.78 - 10.00	4.1 - 4.7	10.95 min.
M8	12.73 - 13.00	5.2 - 6.0	14.26 min.
M10	15.73 - 16.00	6.5 - 7.5	17.62 min.
M12	17.73 - 18.00	7.8 - 9.0	19.86 min.

HEX CODE "J"

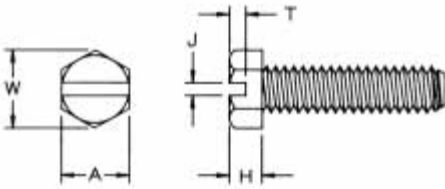
HEX SLOTTED CODE "K"

THREAD SIZE	A	W	H	J	T
M2	.302 - .320	3.38 min.	1.3 - 1.6	.60	.46
M2.5	3.82 - 4.00	4.28 min.	1.8 - 2.1	.80	.99
M3	4.82 - 5.00	5.40 min.	2.0 - 2.3	.99	1.30
M3.5	5.32 - 5.50	5.96 min.	2.3 - 2.6	1.20	1.28
M4	6.78 - 7.00	7.59 min.	2.6 - 3.0	1.24	1.28
M5	7.78 - 8.00	8.71 min.	3.3 - 3.8	1.30	1.40
M6	9.78 - 10.00	10.95 min.	4.17 - 4.7	1.70	2.24
M8	12.73 - 13.00	14.26 min.	5.2 - 6.0	2.15	2.27
M10	15.73 - 16.00	17.62 min.	6.5 - 7.5	2.38	2.90

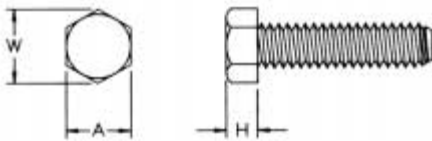
Nominal Screw Length	Tolerance On Length mm
to 3 mm incl.	0.2
over 3 to 10 mm	0.3
over 10 to 16 mm	0.4
over 16 to 50 mm	0.5
over 50 mm	1.0

All tolerances are plus and minus.

HEX SLOTTED CODE "K"



HEX CODE "J"



ITEM NUMBER	DESCRIPTION
50M020040 004	M2 X .4 X 4MM
50M020040 005	M2 X .4 X 5MM
50M020040 006	M2 X .4 X 6MM
50M020040 008	M2 X .4 X 8MM
50M020040 010	M2 X .4 X 10MM
50M020040 012	M2 X .4 X 12MM
50M020040 016	M2 X .4 X 16MM
50M020040 020	M2 X .4 X 20MM
50M020040 025	M2 X .4 X 25MM
50M025045 004	M2.5 X .45 X 4MM
50M025045 005	M2.5 X .45 X 5MM
50M025045 006	M2.5 X .45 X 6MM
50M025045 008	M2.5 X .45 X 8MM
50M025045 010	M2.5 X .45 X 10MM
50M025045 012	M2.5 X .45 X 12MM
50M025045 016	M2.5 X .45 X 16MM
50M025045 020	M2.5 X .45 X 20MM
50M025045 025	M2.5 X .45 X 25MM
50M030050 004	M3 X .5 X 4MM
50M030050 005	M3 X .5 X 5MM
50M030050 006	M3 X .5 X 6MM
50M030050 008	M3 X .5 X 8MM
50M030050 010	M3 X .5 X 10MM
50M030050 012	M3 X .5 X 12MM
50M030050 016	M3 X .5 X 16MM
50M030050 020	M3 X .5 X 20MM
50M030050 025	M3 X .5 X 25MM
50M030050 030	M3 X .5 X 30MM
50M030050 035	M3 X .5 X 35MM
50M030050 042	M3 X .5 X 42MM
50M035060 005	M3.5 X .6 X 5MM
50M035060 006	M3.5 X .6 X 6MM
50M035060 007	M3.5 X .6 X 7MM
50M035060 008	M3.5 X .6 X 8MM
50M035060 010	M3.5 X .6 X 10MM
50M035060 012	M3.5 X .6 X 12MM
50M035060 016	M3.5 X .6 X 16MM
50M035060 020	M3.5 X .6 X 20MM
50M035060 025	M3.5 X .6 X 25MM
50M035060 035	M3.5 X .6 X 35MM
50M035060 042	M3.5 X .6 X 42MM
50M040070 006	M4 X .7 X 6MM
50M040070 008	M4 X .7 X 8MM
50M040070 010	M4 X .7 X 10MM
50M040070 012	M4 X .7 X 12MM
50M040070 016	M4 X .7 X 16MM
50M040070 020	M4 X .7 X 20MM

ITEM NUMBER	DESCRIPTION
50M040070 025	M4 X .7 X 25MM
50M040070 030	M4 X .7 X 30MM
50M040070 035	M4 X .7 X 35MM
50M040070 040	M4 X .7 X 40MM
50M050080 006	M5 X .8 X 6MM
50M050080 008	M5 X .8 X 8MM
50M050080 010	M5 X .8 X 10MM
50M050080 012	M5 X .8 X 12MM
50M050080 016	M5 X .8 X 16MM
50M050080 020	M5 X .8 X 20MM
50M050080 025	M5 X .8 X 25MM
50M050080 030	M5 X .8 X 30MM
50M050080 035	M5 X .8 X 35MM
50M050080 040	M5 X .8 X 40MM
* 50M050080 070	M5 X .8 X 70MM
50M060100 005	M6 X 1.00 X 5MM
50M060100 008	M6 X 1.00 X 8MM
50M060100 010	M6 X 1.00 X 10MM
50M060100 012	M6 X 1.00 X 12MM
50M060100 016	M6 X 1.00 X 16MM
50M060100 020	M6 X 1.00 X 20MM
50M060100 025	M6 X 1.00 X 25MM
50M060100 030	M6 X 1.00 X 30MM
50M060100 035	M6 X 1.00 X 35MM
50M060100 040	M6 X 1.00 X 40MM
50M060100 045	M6 X 1.00 X 45MM
50M060100 050	M6 X 1.00 X 50MM
50M060100 060	M6 X 1.00 X 60MM
50M060100 070	M6 X 1.00 X 70MM
50M060100 075	M6 X 1.00 X 75MM
50M080125 010	M8 X 1.25 X 10MM
50M080125 016	M8 X 1.25 X 16MM
50M080125 020	M8 X 1.25 X 20MM
50M080125 025	M8 X 1.25 X 25MM
50M080125 030	M8 X 1.25 X 30MM
50M080125 035	M8 X 1.25 X 35MM
50M080125 040	M8 X 1.25 X 40MM
50M080125 050	M8 X 1.25 X 50MM
50M080125 070	M8 X 1.25 X 70MM
50M100150 016	M10 X 1.50 X 16MM
50M100150 020	M10 X 1.50 X 20MM
50M100150 025	M10 X 1.50 X 25MM
50M100150 030	M10 X 1.50 X 30MM
50M100150 035	M10 X 1.50 X 35MM
50M100150 050	M10 X 1.50 X 50MM
50M100150 060	M10 X 1.50 X 60MM
50M100150 070	M10 X 1.50 X 70MM
* 50M120175J 040	M12 X 1.75 X 40MM

* NOT AVAILABLE IN SLOT HEX HEAD.

METRIC SCREWS, BOLTS, AND THREADED ROD

ALL DIMENSIONS ARE IN MILLIMETERS

SECTION
XII



THREAD SIZE	B	A	C	T
M3 X .5	5.2	7.6	1.0	1.1
M3.5 X .6	6.1	8.5	1.1	1.3
M4 X .7	7.1	9.40	1.2	1.5
M5 X .8	7.7	10.0	1.3	1.5
M6 X 1.0	7.75	12.21	1.14	1.53

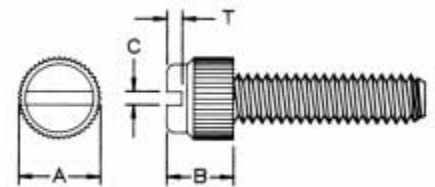
Nominal Screw Length	Tolerance On Length mm
to 3 mm incl.	0.2
over 3 to 10 mm	0.3
over 10 to 16 mm	0.4
over 16 to 50 mm	0.5
over 50 mm	1.0

All tolerances are plus and minus.

ITEM NUMBER	DESCRIPTION
50M030050T004	M3 X .5 X 4MM Thumb Screw
50M030050T005	M3 X .5 X 5MM Thumb Screw
50M030050T006	M3 X .5 X 6MM Thumb Screw
50M030050T008	M3 X .5 X 8MM Thumb Screw
50M030050T010	M3 X .5 X 10MM Thumb Screw
50M030050T012	M3 X .5 X 12MM Thumb Screw
50M030050T016	M3 X .5 X 16MM Thumb Screw
50M030050T020	M3 X .5 X 20MM Thumb Screw
50M030050T025	M3 X .5 X 25MM Thumb Screw
50M030050T030	M3 X .5 X 30MM Thumb Screw
50M030050T035	M3 X .5 X 35MM Thumb Screw
50M030050T042	M3 X .5 X 42MM Thumb Screw
50M035060T005	M3.5 X .6 X 5MM Thumb Screw
50M035060T006	M3.5 X .6 X 6MM Thumb Screw
50M035060T008	M3.5 X .6 X 8MM Thumb Screw
50M035060T010	M3.5 X .6 X 10MM Thumb Screw
50M035060T012	M3.5 X .6 X 12MM Thumb Screw
50M035060T016	M3.5 X .6 X 16MM Thumb Screw
50M035060T020	M3.5 X .6 X 20MM Thumb Screw
50M035060T025	M3.5 X .6 X 25MM Thumb Screw
50M035060T035	M3.5 X .6 X 35MM Thumb Screw
50M035060T042	M3.5 X .6 X 42MM Thumb Screw
50M040070T003	M4 X .7 X 3MM Thumb Screw
50M040070T006	M4 X .7 X 6MM Thumb Screw
50M040070T008	M4 X .7 X 8MM Thumb Screw
50M040070T010	M4 X .7 X 10MM Thumb Screw
50M040070T012	M4 X .7 X 12MM Thumb Screw
50M040070T016	M4 X .7 X 16MM Thumb Screw

ITEM NUMBER	DESCRIPTION
50M040070T020	M4 X .7 X 20MM Thumb Screw
50M040070T025	M4 X .7 X 25MM Thumb Screw
50M040070T030	M4 X .7 X 30MM Thumb Screw
50M040070T035	M4 X .7 X 35MM Thumb Screw
50M040070T040	M4 X .7 X 40MM Thumb Screw
50M050080T006	M5 X .8 X 6MM Thumb Screw
50M050080T008	M5 X .8 X 8MM Thumb Screw
50M050080T010	M5 X .8 X 10MM Thumb Screw
50M050080T012	M5 X .8 X 12MM Thumb Screw
50M050080T016	M5 X .8 X 16MM Thumb Screw
50M050080T020	M5 X .8 X 20MM Thumb Screw
50M050080T025	M5 X .8 X 25MM Thumb Screw
50M050080T030	M5 X .8 X 30MM Thumb Screw
50M050080T040	M5 X .8 X 40MM Thumb Screw
50M060100T005	M6 X 1.00 X 5MM Thumb Screw
50M060100T008	M6 X 1.00 X 8MM Thumb Screw
50M060100T010	M6 X 1.00 X 10MM Thumb Screw
50M060100T012	M6 X 1.00 X 12MM Thumb Screw
50M060100T016	M6 X 1.00 X 16MM Thumb Screw
50M060100T020	M6 X 1.00 X 20MM Thumb Screw
50M060100T022	M6 X 1.00 X 22MM Thumb Screw
50M060100T025	M6 X 1.00 X 25MM Thumb Screw
50M060100T035	M6 X 1.00 X 35MM Thumb Screw
50M060100T040	M6 X 1.00 X 40MM Thumb Screw
50M060100T045	M6 X 1.00 X 45MM Thumb Screw
50M060100T050	M6 X 1.00 X 50MM Thumb Screw
50M060100T060	M6 X 1.00 X 60MM Thumb Screw
50M060100T070	M6 X 1.00 X 70MM Thumb Screw
50M060100T075	M6 X 1.00 X 75MM Thumb Screw

ECONOMY GRADE THUMB SCREW



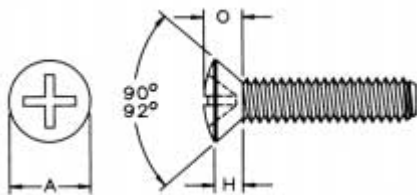
METRIC SCREWS, BOLTS, AND THREADED ROD

SECTION XII

ALL DIMENSIONS ARE IN MILLIMETERS

THREAD SIZE	A	H	O
M2 X 0.4	3.5 - 4.4	1.2 max ref.	1.7 max
M2.5 X 0.45	4.4 - 5.5	1.5 max ref.	2.1 max
M3 X 0.5	5.2 - 6.3	1.7 max ref.	2.4 max
M3.5 X 0.6	6.9 - 8.2	2.3 max ref.	3.1 max
M4 X 0.7	8.0 - 9.4	2.7 max ref.	3.7 max
M5 X 0.8	8.9 - 10.4	2.7 max ref.	3.9 max
M6 X 1	10.9 - 12.6	3.3 max ref.	4.7 max
M8 X 1.25	15.4 - 17.3	4.6 max ref.	6.6 max
M10 X 1.5	17.8 - 20.0	5.0 max ref.	7.3 max

OVAL PHILLIPS



ITEM NUMBER	DESCRIPTION	ITEM NUMBER	DESCRIPTION
50M025045M004	M2.5 X .45 X 4MM Oval Phil	50M040070M016	M 4 X .7 X 16MM Oval Phil
50M025045M005	M2.5 X .45 X 5MM Oval Phil	50M040070M020	M 4 X .7 X 20MM Oval Phil
50M025045M006	M2.5 X .45 X 6MM Oval Phil	50M040070M025	M 4 X .7 X 25MM Oval Phil
50M025045M008	M2.5 X .45 X 8MM Oval Phil	50M050080M006	M5 X .8 X 6MM Oval Phil
50M025045M010	M2.5 X .45 X 10MM Oval Phil	50M050080M008	M5 X .8 X 8MM Oval Phil
50M025045M012	M2.5 X .45 X 12MM Oval Phil	50M050080M010	M5 X .8 X 10MM Oval Phil
50M025045M016	M2.5 X .45 X 16MM Oval Phil	50M050080M012	M5 X .8 X 12MM Oval Phil
50M025045M020	M2.5 X .45 X 20MM Oval Phil	50M050080M016	M5 X .8 X 16MM Oval Phil
50M025045M025	M2.5 X .45 X 25MM Oval Phil	50M050080M020	M5 X .8 X 20MM Oval Phil
50M030050M005	M3 X .5 X 5MM Oval Phil	50M050080M025	M5 X .8 X 25MM Oval Phil
50M030050M006	M3 X .5 X 6MM Oval Phil	50M050080M030	M5 X .8 X 30MM Oval Phil
50M030050M008	M3 X .5 X 8MM Oval Phil	50M050080M040	M5 X .8 X 40MM Oval Phil
50M030050M010	M3 X .5 X 10MM Oval Phil	50M060100M008	M6 X 1.00 X 8MM Oval Phil
50M030050M012	M3 X .5 X 12MM Oval Phil	50M060100M010	M6 X 1.00 X 10MM Oval Phil
50M030050M016	M3 X .5 X 16MM Oval Phil	50M060100M012	M6 X 1.00 X 12MM Oval Phil
50M030050M020	M3 X .5 X 20MM Oval Phil	50M060100M016	M6 X 1.00 X 16MM Oval Phil
50M030050M025	M3 X .5 X 25MM Oval Phil	50M060100M020	M6 X 1.00 X 20MM Oval Phil
50M035060M005	M3.5 X .6 X 5MM Oval Phil	50M060100M025	M6 X 1.00 X 25MM Oval Phil
50M035060M006	M3.5 X .6 X 6MM Oval Phil	50M060100M035	M6 X 1.00 X 35MM Oval Phil
50M035060M008	M3.5 X .6 X 8MM Oval Phil	50M060100M045	M6 X 1.00 X 45MM Oval Phil
50M035060M010	M3.5 X .6 X 10MM Oval Phil	50M080125M010	M8 X 1.25 X 10MM Oval Phil
50M035060M012	M3.5 X .6 X 12MM Oval Phil	50M080125M016	M8 X 1.25 X 16MM Oval Phil
50M035060M016	M3.5 X .6 X 16MM Oval Phil	50M080125M020	M8 X 1.25 X 20MM Oval Phil
50M035060M020	M3.5 X .6 X 20MM Oval Phil	50M080125M025	M8 X 1.25 X 25MM Oval Phil
50M035060M025	M3.5 X .6 X 25MM Oval Phil	50M080125M030	M8 X 1.25 X 30MM Oval Phil
50M035060M035	M3.5 X .6 X 35MM Oval Phil	50M080125M050	M8 X 1.25 X 50MM Oval Phil
50M040070M006	M4 X .7 X 6MM Oval Phil	50M100150M020	M10 X 1.5 X 20MM Oval Phil
50M040070M008	M4 X .7 X 8MM Oval Phil	50M100150M025	M10 X 1.5 X 25MM Oval Phil
50M040070M010	M4 X .7 X 10MM Oval Phil	50M100150M035	M10 X 1.5 X 35MM Oval Phil
50M040070M012	M4 X .7 X 12MM Oval Phil		

METRIC SCREWS, BOLTS, AND THREADED ROD

ALL DIMENSIONS ARE IN MILLIMETERS

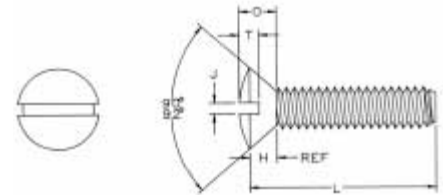
SECTION
XII

THREAD SIZE	A	H	O	J	T
M2 X 0.4	3.5 - 4.4	1.2 max ref.	1.7 max	0.5 - 0.7	0.8 - 1.0
M2.5 X 0.45	4.4 - 5.5	1.5 max ref.	2.1 max	0.6 - 0.8	1.0 - 1.2
M3 X 0.5	5.2 - 6.3	1.7 max ref.	2.4 max	0.8 - 1.0	1.2 - 1.5
M3.5 X 0.6	6.9 - 8.2	2.3 max ref.	3.1 max	1.0 - 1.2	1.4 - 1.7
M4 X 0.7	8.0 - 9.4	2.7 max ref.	3.7 max	1.2 - 1.5	1.6 - 1.9
M5 X 0.8	8.9 - 10.4	2.7 max ref.	3.9 max	1.2 - 1.5	2.0 - 2.4
M6 X 1	10.9 - 12.6	3.3 max ref.	4.7 max	1.6 - 1.9	2.4 - 2.8
M8 X 1.25	15.4 - 17.3	4.6 max ref.	6.6 max	2.0 - 2.3	3.2 - 3.7
M10 X 1.5	17.8 - 20.0	5.0 max ref.	7.3 max	2.5 - 2.8	3.8 - 4.4

ITEM NUMBER	DESCRIPTION
50M020040L004	M2 X .4 X 4MM Oval Slot
50M020040L005	M2 X .4 X 5MM Oval Slot
50M020040L006	M2 X .4 X 6MM Oval Slot
50M020040L008	M2 X .4 X 8MM Oval Slot
50M020040L010	M2 X .4 X 10MM Oval Slot
50M020040L011	M2 X .4 X 11MM Oval Slot
50M020040L012	M2 X .4 X 12MM Oval Slot
50M020040L016	M2 X .4 X 16MM Oval Slot
50M020040L025	M2 X .4 X 25MM Oval Slot
50M025045L004	M2.5 X .45 X 4MM Oval Slot
50M025045L005	M2.5 X .45 X 5MM Oval Slot
50M025045L006	M2.5 X .45 X 6MM Oval Slot
50M025045L008	M2.5 X .45 X 8MM Oval Slot
50M025045L010	M2.5 X .45 X 10MM Oval Slot
50M025045L012	M2.5 X .45 X 12MM Oval Slot
50M025045L016	M2.5 X .45 X 16MM Oval Slot
50M025045L020	M2.5 X .45 X 20MM Oval Slot
50M025045L025	M2.5 X .5 X 25MM Oval Slot
50M030050L005	M3 X .5 X 5MM Oval Slot
50M030050L006	M3 X .5 X 6MM Oval Slot
50M030050L008	M3 X .5 X 8MM Oval Slot
50M030050L010	M3 X .5 X 10MM Oval Slot
50M030050L012	M3 X .5 X 12MM Oval Slot
50M030050L015	M3 X .5 X 15MM Oval Slot
50M030050L016	M3 X .5 X 16MM Oval Slot
50M030050L020	M3 X .5 X 20MM Oval Slot
50M030050L025	M3 X .5 X 25MM Oval Slot
50M030050L030	M3 X .5 X 30MM Oval Slot
50M030050L042	M3 X .5 X 42MM Oval Slot
50M035060L005	M3.5 X .6 X 5MM Oval Slot
50M035060L006	M3.5 X .6 X 6MM Oval Slot
50M035060L008	M3.5 X .6 X 8MM Oval Slot
50M035060L010	M3.5 X .6 X 10MM Oval Slot
50M035060L016	M3.5 X .6 X 16MM Oval Slot
50M035060L020	M3.5 X .6 X 20MM Oval Slot
50M035060L025	M3.5 X .6 X 25MM Oval Slot
50M035060L035	M3.5 X .6 X 35MM Oval Slot
50M040070L006	M4 X .7 X 6MM Oval Slot
50M040070L008	M4 X .7 X 8MM Oval Slot
50M040070L010	M4 X .7 X 10MM Oval Slot

ITEM NUMBER	DESCRIPTION
50M040070L012	M4 X .7 X 12MM Oval Slot
50M040070L015	M4 X .7 X 15MM Oval Slot
50M040070L016	M4 X .7 X 16MM Oval Slot
50M040070L020	M4 X .7 X 20MM Oval Slot
50M040070L025	M4 X .7 X 25MM Oval Slot
50M040070L030	M4 X .7 X 30MM Oval Slot
50M040070L035	M4 X .7 X 35MM Oval Slot
50M050080L006	M5 X .8 X 6MM Oval Slot
50M050080L010	M5 X .8 X 10MM Oval Slot
50M050080L012	M5 X .8 X 12MM Oval Slot
50M050080L015	M5 X .8 X 15MM Oval Slot
50M050080L016	M5 X .8 X 16MM Oval Slot
50M050080L020	M5 X .8 X 20MM Oval Slot
50M050080L025	M5 X .8 X 25MM Oval Slot
50M050080L030	M5 X .8 X 30MM Oval Slot
50M050080L035	M5 X .8 X 35MM Oval Slot
50M050080L040	M5 X .8 X 40MM Oval Slot
50M060100L008	M6 X 1.0 X 8MM Oval Slot
50M060100L010	M6 X 1.0 X 10MM Oval Slot
50M060100L012	M6 X 1.0 X 12MM Oval Slot
50M060100L016	M6 X 1.0 X 16MM Oval Slot
50M060100L020	M6 X 1.0 X 20MM Oval Slot
50M060100L025	M6 X 1.0 X 25MM Oval Slot
50M060100L035	M6 X 1.0 X 35MM Oval Slot
50M060100L040	M6 X 1.0 X 40MM Oval Slot
50M060100L045	M6 X 1.0 X 45MM Oval Slot
50M060100L050	M6 X 1.0 X 50MM Oval Slot
50M080125L016	M8 X 1.25 X 16MM Oval Slot
50M080125L020	M8 X 1.25 X 20MM Oval Slot
50M080125L025	M8 X 1.25 X 25MM Oval Slot
50M080125L030	M8 X 1.25 X 30MM Oval Slot
50M080125L050	M8 X 1.25 X 50MM Oval Slot
50M100150L020	M10 X 1.50 X 20MM Oval Slot
50M100150L025	M10 X 1.50 X 25MM Oval Slot
50M100150L030	M10 X 1.50 X 30MM Oval Slot
50M100150L035	M10 X 1.50 X 35MM Oval Slot
50M100150L060	M10 X 1.50 X 60MM Oval Slot

OVAL SLOTTED 

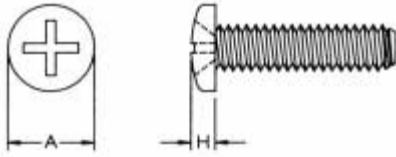


METRIC SCREWS, BOLTS, AND THREADED ROD

ALL DIMENSIONS ARE IN MILLIMETERS

SECTION
XII

PAN PHILLIPS



THREAD SIZE	A	H
M2	3.7 - 4.0	1.4 - 1.6
M2.5	4.7 - 5.0	1.9 - 2.1
M3	5.3 - 5.6	2.2 - 2.4
M3.5	6.6 - 7.0	2.3 - 2.6
M4	7.6 - 8.0	2.8 - 3.1
M5	9.1 - 9.5	3.4 - 3.7
M6	11.5 - 12.0	4.3 - 4.6
M8	15.5 - 16.0	5.6 - 6.0
M10	19.4 - 20.0	7.1 - 7.5

Nominal Screw Length	Tolerance On Length mm
to 3 mm incl.	0.2
over 3 to 10 mm	0.3
over 10 to 16 mm	0.4
over 16 to 50 mm	0.5
over 50 mm	1.0

All tolerances are plus and minus.



ITEM NUMBER	DESCRIPTION	ITEM NUMBER	DESCRIPTION
50M020040P004	M2 X .4 X 4MM Pan Phil	50M040070P025	M4 X .7 X 25MM Pan Phil
50M020040P005	M2 X .4 X 5MM Pan Phil	50M040070P030	M4 X .7 X 30MM Pan Phil
50M020040P006	M2 X .4 X 6MM Pan Phil	50M040070P035	M4 X .7 X 35MM Pan Phil
50M020040P008	M2 X .4 X 8MM Pan Phil	50M040070P040	M4 X .7 X 40MM Pan Phil
50M020040P010	M2 X .4 X 10MM Pan Phil	50M050080P006	M5 X .8 X 6MM Pan Phil
50M020040P012	M2 X .4 X 12MM Pan Phil	50M050080P008	M5 X .8 X 8MM Pan Phil
50M020040P016	M2 X .4 X 16MM Pan Phil	50M050080P010	M5 X .8 X 10MM Pan Phil
50M020040P020	M2 X .4 X 20MM Pan Phil	50M050080P012	M5 X .8 X 12MM Pan Phil
50M020040P025	M2 X .4 X 25MM Pan Phil	50M050080P015	M5 X .8 X 15MM Pan Phil
50M025045P004	M2.5 X .45 X 4MM Pan Phil	50M050080P016	M5 X .8 X 16MM Pan Phil
50M025045P005	M2.5 X .45 X 5MM Pan Phil	50M050080P020	M5 X .8 X 20MM Pan Phil
50M025045P006	M2.5 X .45 X 6MM Pan Phil	50M050080P025	M5 X .8 X 25MM Pan Phil
50M025045P008	M2.5 X .45 X 8MM Pan Phil	50M050080P030	M5 X .8 X 30MM Pan Phil
50M025045P010	M2.5 X .45 X 10MM Pan Phil	50M050080P035	M5 X .8 X 35MM Pan Phil
50M025045P012	M2.5 X .45 X 12MM Pan Phil	50M050080P040	M5 X .8 X 40MM Pan Phil
50M025045P016	M2.5 X .45 X 16MM Pan Phil	50M060100P005	M6 X 1.00 X 5MM Pan Phil
50M025045P020	M2.5 X .45 X 20MM Pan Phil	50M060100P008	M6 X 1.00 X 8MM Pan Phil
50M025045P025	M2.5 X .45 X 25MM Pan Phil	50M060100P010	M6 X 1.00 X 10MM Pan Phil
50M030050P004	M3 X .5 X 4MM Pan Phil	50M060100P012	M6 X 1.00 X 12MM Pan Phil
50M030050P005	M3 X .5 X 5MM Pan Phil	50M060100P016	M6 X 1.00 X 16MM Pan Phil
50M030050P006	M3 X .5 X 6MM Pan Phil	50M060100P020	M6 X 1.00 X 20MM Pan Phil
50M030050P008	M3 X .5 X 8MM Pan Phil	50M060100P022	M6 X 1.00 X 22MM Pan Phil
50M030050P010	M3 X .5 X 10MM Pan Phil	50M060100P025	M6 X 1.00 X 25MM Pan Phil
50M030050P012	M3 X .5 X 12MM Pan Phil	50M060100P030	M6 X 1.00 X 30MM Pan Phil
50M030050P016	M3 X .5 X 16MM Pan Phil	50M060100P035	M6 X 1.00 X 35MM Pan Phil
50M030050P020	M3 X .5 X 20MM Pan Phil	50M060100P040	M6 X 1.00 X 40MM Pan Phil
50M030050P025	M3 X .5 X 25MM Pan Phil	50M060100P045	M6 X 1.00 X 45MM Pan Phil
50M030050P030	M3 X .5 X 30MM Pan Phil	50M060100P050	M6 X 1.00 X 50MM Pan Phil
50M030050P035	M3 X .5 X 35MM Pan Phil	50M060100P060	M6 X 1.00 X 60MM Pan Phil
50M030050P042	M3 X .5 X 42MM Pan Phil	50M060100P070	M6 X 1.00 X 70MM Pan Phil
50M035060P005	M3.5 X .6 X 5MM Pan Phil	50M060100P075	M6 X 1.00 X 75MM Pan Phil
50M035060P006	M3.5 X .6 X 6MM Pan Phil	50M080125P010	M8 X 1.25 X 10MM Pan Phil
50M035060P007	M3.5 X .6 X 7MM Pan Phil	50M080125P016	M8 X 1.25 X 16MM Pan Phil
50M035060P008	M3.5 X .6 X 8MM Pan Phil	50M080125P020	M8 X 1.25 X 20MM Pan Phil
50M035060P010	M3.5 X .6 X 10MM Pan Phil	50M080125P025	M8 X 1.25 X 25MM Pan Phil
50M035060P012	M3.5 X .6 X 12MM Pan Phil	50M080125P030	M8 X 1.25 X 30MM Pan Phil
50M035060P016	M3.5 X .6 X 16MM Pan Phil	50M080125P035	M8 X 1.25 X 35MM Pan Phil
50M035060P020	M3.5 X .6 X 20MM Pan Phil	50M080125P050	M8 X 1.25 X 50MM Pan Phil
50M035060P025	M3.5 X .6 X 25MM Pan Phil	50M080125P070	M8 X 1.25 X 70MM Pan Phil
50M035060P035	M3.5 X .6 X 35MM Pan Phil	50M100150P013	M10 X 1.50 X 13MM Pan Phil
50M035060P042	M3.5 X .6 X 42MM Pan Phil	50M100150P016	M10 X 1.50 X 16MM Pan Phil
50M040070P003	M4 X .7 X 3MM Pan Phil	50M100150P019	M10 X 1.50 X 19MM Pan Phil
50M040070P006	M4 X .7 X 6MM Pan Phil	50M100150P020	M10 X 1.50 X 20MM Pan Phil
50M040070P008	M4 X .7 X 8MM Pan Phil	50M100150P025	M10 X 1.50 X 25MM Pan Phil
50M040070P010	M4 X .7 X 10MM Pan Phil	50M100150P030	M10 X 1.50 X 30MM Pan Phil
50M040070P012	M4 X .7 X 12MM Pan Phil	50M100150P035	M10 X 1.50 X 35MM Pan Phil
50M040070P016	M4 X .7 X 16MM Pan Phil	50M100150P050	M10 X 1.50 X 50MM Pan Phil
50M040070P020	M4 X .7 X 20MM Pan Phil	50M100150P060	M10 X 1.50 X 60MM Pan Phil

METRIC SCREWS, BOLTS, AND THREADED ROD

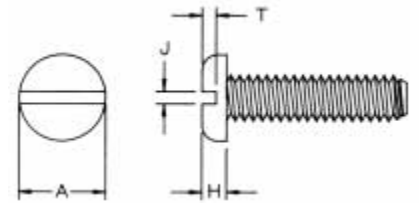
ALL DIMENSIONS ARE IN MILLIMETERS

SECTION
XII

ITEM NUMBER	DESCRIPTION
50M020040N004	M2 X .4 X 4MM Pan Slot
50M020040N005	M2 X .4 X 5MM Pan Slot
50M020040N006	M2 X .4 X 6MM Pan Slot
50M020040N008	M2 X .4 X 8MM Pan Slot
50M020040N010	M2 X .4 X 10MM Pan Slot
50M020040N012	M2 X .4 X 12MM Pan Slot
50M020040N016	M2 X .4 X 16MM Pan Slot
50M020040N020	M2 X .4 X 20MM Pan Slot
50M020040N025	M2 X .4 X 25MM Pan Slot
50M025045N004	M2.5 X .45 X 4MM Pan Slot
50M025045N005	M2.5 X .45 X 5MM Pan Slot
50M025045N006	M2.5 X .45 X 6MM Pan Slot
50M025045N008	M2.5 X .45 X 8MM Pan Slot
50M025045N010	M2.5 X .45 X 10MM Pan Slot
50M025045N012	M2.5 X .45 X 12MM Pan Slot
50M025045N016	M2.5 X .45 X 16MM Pan Slot
50M025045N020	M2.5 X .45 X 20MM Pan Slot
50M025045N025	M2.5 X .45 X 25MM Pan Slot
50M030050N004	M3 X .5 X 4MM Pan Slot
50M030050N005	M3 X .5 X 5MM Pan Slot
50M030050N006	M3 X .5 X 6MM Pan Slot
50M030050N008	M3 X .5 X 8MM Pan Slot
50M030050N010	M3 X .5 X 10MM Pan Slot
50M030050N012	M3 X .5 X 12MM Pan Slot
50M030050N016	M3 X .5 X 16MM Pan Slot
50M030050N020	M3 X .5 X 20MM Pan Slot
50M030050N025	M3 X .5 X 25MM Pan Slot
50M030050N030	M3 X .5 X 30MM Pan Slot
50M030050N035	M3 X .5 X 35MM Pan Slot
50M030050N042	M3 X .5 X 42MM Pan Slot
50M035060N005	M3.5 X .6 X 5MM Pan Slot
50M035060N006	M3.5 X .6 X 6MM Pan Slot
50M035060N007	M3.5 X .6 X 7MM Pan Slot
50M035060N008	M3.5 X .6 X 8MM Pan Slot
50M035060N010	M3.5 X .6 X 10MM Pan Slot
50M035060N012	M3.5 X .6 X 12MM Pan Slot
50M035060N016	M3.5 X .6 X 16MM Pan Slot
50M035060N020	M3.5 X .6 X 20MM Pan Slot
50M035060N025	M3.5 X .6 X 25MM Pan Slot
50M035060N035	M3.5 X .6 X 35MM Pan Slot
50M035060N042	M3.5 X .6 X 42MM Pan Slot
50M040070N003	M4 X .7 X 3MM Pan Slot
50M040070N006	M4 X .7 X 6MM Pan Slot
50M040070N008	M4 X .7 X 8MM Pan Slot
50M040070N010	M4 X .7 X 10MM Pan Slot
50M040070N012	M4 X .7 X 12MM Pan Slot
50M040070N016	M4 X .7 X 16MM Pan Slot
50M040070N020	M4 X .7 X 20MM Pan Slot

ITEM NUMBER	DESCRIPTION
50M040070N025	M4 X .7 X 25MM Pan Slot
50M040070N030	M4 X .7 X 30MM Pan Slot
50M040070N035	M4 X .7 X 35MM Pan Slot
50M040070N040	M4 X .7 X 40MM Pan Slot
50M050080N006	M5 X .8 X 6MM Pan Slot
50M050080N008	M5 X .8 X 8MM Pan Slot
50M050080N010	M5 X .8 X 10MM Pan Slot
50M050080N012	M5 X .8 X 12MM Pan Slot
50M050080N015	M5 X .8 X 15MM Pan Slot
50M050080N016	M5 X .8 X 16MM Pan Slot
50M050080N020	M5 X .8 X 20MM Pan Slot
50M050080N025	M5 X .8 X 25MM Pan Slot
50M050080N030	M5 X .8 X 30MM Pan Slot
50M050080N035	M5 X .8 X 35MM Pan Slot
50M050080N040	M5 X .8 X 40MM Pan Slot
50M060100N005	M6 X 1.00 X 5MM Pan Slot
50M060100N008	M6 X 1.00 X 8MM Pan Slot
50M060100N010	M6 X 1.00 X 10MM Pan Slot
50M060100N012	M6 X 1.00 X 12MM Pan Slot
50M060100N016	M6 X 1.00 X 16MM Pan Slot
50M060100N020	M6 X 1.00 X 20MM Pan Slot
50M060100N022	M6 X 1.00 X 22MM Pan Slot
50M060100N025	M6 X 1.00 X 25MM Pan Slot
50M060100N030	M6 X 1.00 X 30MM Pan Slot
50M060100N035	M6 X 1.00 X 35MM Pan Slot
50M060100N040	M6 X 1.00 X 40MM Pan Slot
50M060100N045	M6 X 1.00 X 45MM Pan Slot
50M060100N050	M6 X 1.00 X 50MM Pan Slot
50M060100N060	M6 X 1.00 X 60MM Pan Slot
50M060100N070	M6 X 1.00 X 70MM Pan Slot
50M060100N075	M6 X 1.00 X 75MM Pan Slot
50M080125N010	M8 X 1.25 X 10MM Pan Slot
50M080125N016	M8 X 1.25 X 16MM Pan Slot
50M080125N020	M8 X 1.25 X 20MM Pan Slot
50M080125N025	M8 X 1.25 X 25MM Pan Slot
50M080125N030	M8 X 1.25 X 30MM Pan Slot
50M080125N035	M8 X 1.25 X 35MM Pan Slot
50M080125N050	M8 X 1.25 X 50MM Pan Slot
50M080125N070	M8 X 1.25 X 70MM Pan Slot
50M100150N013	M10 X 1.50 X 13MM Pan Slot
50M100150N016	M10 X 1.50 X 16MM Pan Slot
50M100150N019	M10 X 1.50 X 19MM Pan Slot
50M100150N020	M10 X 1.50 X 20MM Pan Slot
50M100150N025	M10 X 1.50 X 25MM Pan Slot
50M100150N030	M10 X 1.50 X 30MM Pan Slot
50M100150N035	M10 X 1.50 X 35MM Pan Slot
50M100150N050	M10 X 1.50 X 50MM Pan Slot
50M100150N060	M10 X 1.50 X 60MM Pan Slot

PAN SLOTTED



THREAD SIZE	A	H	J	T
M2	3.7 - 4.0	1.1 - 1.3	0.5 - 0.7	0.5 min.
M2.5	4.7 - 5.0	1.3 - 1.5	0.6 - 0.8	0.6 min.
M3	5.3 - 5.6	1.6 - 1.8	0.8 - 1.0	0.7 min.
M3.5	6.6 - 7.0	1.9 - 2.1	1.0 - 1.2	0.8 min.
M4	7.6 - 8.0	2.2 - 2.4	1.2 - 1.5	1.0 min.
M5	9.1 - 9.5	2.7 - 3.0	1.2 - 1.5	1.2 min.
M6	11.5 - 12.0	3.3 - 3.6	1.6 - 1.9	1.4 min.
M8	15.5 - 16.0	4.5 - 4.8	2.0 - 2.3	1.9 min.
M10	19.4 - 20.0	5.7 - 6.0	2.5 - 2.8	2.4 min.

Nominal Screw Length	Tolerance On Length mm
to 3 mm incl.	0.2
over 3 to 10 mm	0.3
over 10 to 16 mm	0.4
over 16 to 50 mm	0.5
over 50 mm	1.0

All tolerances are plus and minus.



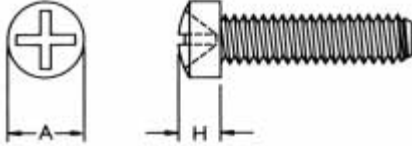
METRIC SCREWS, BOLTS, AND THREADED ROD

ALL DIMENSIONS ARE IN MILLIMETERS

SECTION
XII

THREAD SIZE	A	H
M2 X 0.4	3.8	1.60
M2.5 X 0.45	5.0	2.00
M3 X 0.5	6.0	2.40
M3.5 X 0.6	7.0	2.70
M4 X 0.7	8.0	3.10
M5 X 0.8	10.0	3.80
M6 X 1.0	12.0	4.60
M8 X 1.25	16.0	6.00
M10 X 1.5	18.0	7.00

FILLISTER PHILLIPS



ITEM NUMBER	DESCRIPTION
50M020040G004	M2 X .4 X 4MM Fill Phil
50M020040G005	M2 X .4 X 5MM Fill Phil
50M020040G006	M2 X .4 X 6MM Fill Phil
50M020040G008	M2 X .4 X 8MM Fill Phil
50M020040G010	M2 X .4 X 10MM Fill Phil
50M020040G012	M2 X .4 X 12MM Fill Phil
50M020040G016	M2 X .4 X 16MM Fill Phil
50M020040G020	M2 X .4 X 20MM Fill Phil
50M020040G025	M2 X .4 X 25MM Fill Phil
50M025045G004	M2.5 X .45 X 4MM Fill Phil
50M025045G005	M2.5 X .45 X 5MM Fill Phil
50M025045G006	M2.5 X .45 X 6MM Fill Phil
50M025045G008	M2.5 X .45 X 8MM Fill Phil
50M025045G010	M2.5 X .45 X 10MM Fill Phil
50M025045G012	M2.5 X .45 X 12MM Fill Phil
50M025045G016	M2.5 X .45 X 16MM Fill Phil
50M025045G020	M2.5 X .45 X 20MM Fill Phil
50M025045G025	M2.5 X .45 X 25MM Fill Phil
50M030050G004	M3 X .5 X 4MM Fill Phil
50M030050G005	M3 X .5 X 5MM Fill Phil
50M030050G006	M3 X .5 X 6MM Fill Phil
50M030050G008	M3 X .5 X 8MM Fill Phil
50M030050G010	M3 X .5 X 10MM Fill Phil
50M030050G012	M3 X .5 X 12MM Fill Phil
50M030050G016	M3 X .5 X 16MM Fill Phil
50M030050G020	M3 X .5 X 20MM Fill Phil
50M030050G025	M3 X .5 X 25MM Fill Phil
50M030050G030	M3 X .5 X 30MM Fill Phil
50M030050G035	M3 X .5 X 35MM Fill Phil
50M030050G042	M3 X .5 X 42MM Fill Phil
50M035060G005	M3.5 X .6 X 5MM Fill Phil
50M035060G006	M3.5 X .6 X 6MM Fill Phil
50M035060G007	M3.5 X .6 X 7MM Fill Phil
50M035060G008	M3.5 X .6 X 8MM Fill Phil
50M035060G010	M3.5 X .6 X 10MM Fill Phil
50M035060G012	M3.5 X .6 X 12MM Fill Phil
50M035060G016	M3.5 X .6 X 16MM Fill Phil
50M035060G020	M3.5 X .6 X 20MM Fill Phil
50M035060G025	M3.5 X .6 X 25MM Fill Phil
50M035060G035	M3.5 X .6 X 35MM Fill Phil
50M035060G042	M3.5 X .6 X 42MM Fill Phil
50M040070G003	M4 X .7 X 3MM Fill Phil
50M040070G006	M4 X .7 X 6MM Fill Phil
50M040070G008	M4 X .7 X 8MM Fill Phil
50M040070G010	M4 X .7 X 10MM Fill Phil
50M040070G012	M4 X .7 X 12MM Fill Phil
50M040070G016	M4 X .7 X 16MM Fill Phil
50M040070G020	M4 X .7 X 20MM Fill Phil

ITEM NUMBER	DESCRIPTION
50M040070G025	M4 X .7 X 25MM Fill Phil
50M040070G030	M4 X .7 X 30MM Fill Phil
50M040070G035	M4 X .7 X 35MM Fill Phil
50M040070G040	M4 X .7 X 40MM Fill Phil
50M050080G006	M5 X .8 X 6MM Fill Phil
50M050080G008	M5 X .8 X 8MM Fill Phil
50M050080G010	M5 X .8 X 10MM Fill Phil
50M050080G012	M5 X .8 X 12MM Fill Phil
50M050080G015	M5 X .8 X 15MM Fill Phil
50M050080G016	M5 X .8 X 16MM Fill Phil
50M050080G020	M5 X .8 X 20MM Fill Phil
50M050080G025	M5 X .8 X 25MM Fill Phil
50M050080G030	M5 X .8 X 30MM Fill Phil
50M050080G035	M5 X .8 X 35MM Fill Phil
50M050080G040	M5 X .8 X 40MM Fill Phil
50M060100G005	M6 X 1.0 X 5MM Fill Phil
50M060100G008	M6 X 1.0 X 8MM Fill Phil
50M060100G010	M6 X 1.0 X 10MM Fill Phil
50M060100G012	M6 X 1.0 X 12MM Fill Phil
50M060100G016	M6 X 1.0 X 16MM Fill Phil
50M060100G020	M6 X 1.0 X 20MM Fill Phil
50M060100G022	M6 X 1.0 X 22MM Fill Phil
50M060100G025	M6 X 1.0 X 25MM Fill Phil
50M060100G030	M6 X 1.0 X 30MM Fill Phil
50M060100G035	M6 X 1.0 X 35MM Fill Phil
50M060100G040	M6 X 1.0 X 40MM Fill Phil
50M060100G045	M6 X 1.0 X 45MM Fill Phil
50M060100G050	M6 X 1.0 X 50MM Fill Phil
50M060100G060	M6 X 1.0 X 60MM Fill Phil
50M060100G070	M6 X 1.0 X 70MM Fill Phil
50M060100G075	M6 X 1.0 X 75MM Fill Phil
50M080125G010	M8 X 1.25 X 10MM Fill Phil
50M080125G016	M8 X 1.25 X 16MM Fill Phil
50M080125G020	M8 X 1.25 X 20MM Fill Phil
50M080125G025	M8 X 1.25 X 25MM Fill Phil
50M080125G030	M8 X 1.25 X 30MM Fill Phil
50M080125G035	M8 X 1.25 X 35MM Fill Phil
50M080125G050	M8 X 1.25 X 50MM Fill Phil
50M080125G070	M8 X 1.25 X 70MM Fill Phil
50M100150G013	M10 X 1.50 X 13MM Fill Phil
50M100150G016	M10 X 1.50 X 16MM Fill Phil
50M100150G019	M10 X 1.50 X 19MM Fill Phil
50M100150G020	M10 X 1.50 X 20MM Fill Phil
50M100150G025	M10 X 1.50 X 25MM Fill Phil
50M100150G030	M10 X 1.50 X 30MM Fill Phil
50M100150G035	M10 X 1.50 X 35MM Fill Phil
50M100150G050	M10 X 1.50 X 50MM Fill Phil
50M100150G060	M10 X 1.50 X 60MM Fill Phil

METRIC SCREWS, BOLTS, AND THREADED ROD

ALL DIMENSIONS ARE IN MILLIMETERS

SECTION
XII

THREAD SIZE	A	H	J	T
M2 X 0.4	3.8	1.60	0.60	0.90
M2.5 X 0.45	5.0	2.00	0.70	1.10
M3 X 0.5	6.0	2.40	1.00	1.30
M3.5 X 0.6	7.0	2.70	1.10	1.40
M4 X 0.7	8.0	3.10	1.20	1.60
M5 X 0.8	9.4	3.80	1.50	2.00
M6 X 1.0	12.0	4.60	1.90	2.30
M8 X 1.25	16.0	6.00	2.30	2.80
M10 X 1.5	20.0	7.50	2.80	3.20

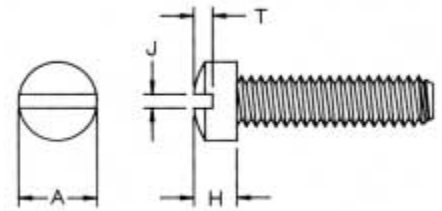
ITEM NUMBER ----- DESCRIPTION -----

50M020040F004	M2 X .4 X 4MM	Fill Slot
50M020040F005	M2 X .4 X 5MM	Fill Slot
50M020040F006	M2 X .4 X 6MM	Fill Slot
50M020040F008	M2 X .4 X 8MM	Fill Slot
50M020040F010	M2 X .4 X 10MM	Fill Slot
50M020040F012	M2 X .4 X 12MM	Fill Slot
50M020040F016	M2 X .4 X 16MM	Fill Slot
50M020040F020	M2 X .4 X 20MM	Fill Slot
50M020040F025	M2 X .4 X 25MM	Fill Slot
50M025045F004	M2.5 X .45 X 4MM	Fill Slot
50M025045F005	M2.5 X .45 X 5MM	Fill Slot
50M025045F006	M2.5 X .45 X 6MM	Fill Slot
50M025045F008	M2.5 X .45 X 8MM	Fill Slot
50M025045F010	M2.5 X .45 X 10MM	Fill Slot
50M025045F012	M2.5 X .45 X 12MM	Fill Slot
50M025045F016	M2.5 X .45 X 16MM	Fill Slot
50M025045F020	M2.5 X .45 X 20MM	Fill Slot
50M025045F025	M2.5 X .45 X 25MM	Fill Slot
50M030050F004	M3 X .5 X 4MM	Fill Slot
50M030050F005	M3 X .5 X 5MM	Fill Slot
50M030050F006	M3 X .5 X 6MM	Fill Slot
50M030050F008	M3 X .5 X 8MM	Fill Slot
50M030050F010	M3 X .5 X 10MM	Fill Slot
50M030050F012	M3 X .5 X 12MM	Fill Slot
50M030050F016	M3 X .5 X 16MM	Fill Slot
50M030050F020	M3 X .5 X 20MM	Fill Slot
50M030050F025	M3 X .5 X 25MM	Fill Slot
50M030050F030	M3 X .5 X 30MM	Fill Slot
50M030050F035	M3 X .5 X 35MM	Fill Slot
50M030050F042	M3 X .5 X 42MM	Fill Slot
50M035060F005	M3.5 X .6 X 5MM	Fill Slot
50M035060F006	M3.5 X .6 X 6MM	Fill Slot
50M035060F007	M3.5 X .6 X 7MM	Fill Slot
50M035060F008	M3.5 X .6 X 8MM	Fill Slot
50M035060F010	M3.5 X .6 X 10MM	Fill Slot
50M035060F012	M3.5 X .6 X 12MM	Fill Slot
50M035060F016	M3.5 X .6 X 16MM	Fill Slot
50M035060F020	M3.5 X .6 X 20MM	Fill Slot
50M035060F025	M3.5 X .6 X 25MM	Fill Slot
50M035060F035	M3.5 X .6 X 35MM	Fill Slot
50M035060F042	M3.5 X .6 X 42MM	Fill Slot
50M040070F003	M4 X .7 X 3MM	Fill Slot
50M040070F006	M4 X .7 X 6MM	Fill Slot
50M040070F008	M4 X .7 X 8MM	Fill Slot
50M040070F010	M4 X .7 X 10MM	Fill Slot
50M040070F012	M4 X .7 X 12MM	Fill Slot
50M040070F016	M4 X .7 X 16MM	Fill Slot
50M040070F020	M4 X .7 X 20MM	Fill Slot

ITEM NUMBER ----- DESCRIPTION -----

50M040070F025	M4 X .7 X 25MM	Fill Slot
50M040070F030	M4 X .7 X 30MM	Fill Slot
50M040070F035	M4 X .7 X 35MM	Fill Slot
50M040070F040	M4 X .7 X 40MM	Fill Slot
50M050080F006	M5 X .8 X 6MM	Fill Slot
50M050080F008	M5 X .8 X 8MM	Fill Slot
50M050080F010	M5 X .8 X 10MM	Fill Slot
50M050080F012	M5 X .8 X 12MM	Fill Slot
50M050080F015	M5 X .8 X 15MM	Fill Slot
50M050080F016	M5 X .8 X 16MM	Fill Slot
50M050080F020	M5 X .8 X 20MM	Fill Slot
50M050080F025	M5 X .8 X 25MM	Fill Slot
50M050080F030	M5 X .8 X 30MM	Fill Slot
50M050080F040	M5 X .8 X 40MM	Fill Slot
50M060100F005	M6 X 1.0 X 5MM	Fill Slot
50M060100F008	M6 X 1.0 X 8MM	Fill Slot
50M060100F010	M6 X 1.0 X 10MM	Fill Slot
50M060100F012	M6 X 1.0 X 12MM	Fill Slot
50M060100F016	M6 X 1.0 X 16MM	Fill Slot
50M060100F020	M6 X 1.0 X 20MM	Fill Slot
50M060100F022	M6 X 1.0 X 22MM	Fill Slot
50M060100F025	M6 X 1.0 X 25MM	Fill Slot
50M060100F030	M6 X 1.0 X 30MM	Fill Slot
50M060100F035	M6 X 1.0 X 35MM	Fill Slot
50M060100F040	M6 X 1.0 X 40MM	Fill Slot
50M060100F045	M6 X 1.0 X 45MM	Fill Slot
50M060100F050	M6 X 1.0 X 50MM	Fill Slot
50M060100F060	M6 X 1.0 X 60MM	Fill Slot
50M060100F070	M6 X 1.0 X 70MM	Fill Slot
50M060100F075	M6 X 1.0 X 75MM	Fill Slot
50M080125F010	M8 X 1.25 X 10MM	Fill Slot
50M080125F016	M8 X 1.25 X 16MM	Fill Slot
50M080125F020	M8 X 1.25 X 20MM	Fill Slot
50M080125F025	M8 X 1.25 X 25MM	Fill Slot
50M080125F030	M8 X 1.25 X 30MM	Fill Slot
50M080125F035	M8 X 1.25 X 35MM	Fill Slot
50M080125F050	M8 X 1.25 X 50MM	Fill Slot
50M080125F070	M8 X 1.25 X 70MM	Fill Slot
50M100150F013	M10 X 1.5 X 13MM	Fill Slot
50M100150F016	M10 X 1.5 X 16MM	Fill Slot
50M100150F019	M10 X 1.5 X 19MM	Fill Slot
50M100150F020	M10 X 1.5 X 20MM	Fill Slot
50M100150F025	M10 X 1.5 X 25MM	Fill Slot
50M100150F030	M10 X 1.5 X 30MM	Fill Slot
50M100150F035	M10 X 1.5 X 35MM	Fill Slot
50M100150F050	M10 X 1.5 X 50MM	Fill Slot
50M100150F060	M10 X 1.5 X 60MM	Fill Slot

FILLISTER SLOTTED 



METRIC SCREWS, BOLTS, AND THREADED ROD

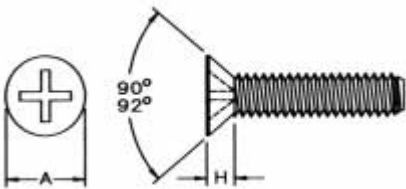
ALL DIMENSIONS ARE IN MILLIMETERS

SECTION
XII

THREAD SIZE	A	* H
M2 X 0.4	3.5 - 4.4	1.2 max ref.
M2.5 X 0.45	4.4 - 5.5	1.5 max ref.
M3 X 0.5	5.2 - 6.3	1.7 max ref.
M3.5 X 0.6	6.9 - 8.2	2.3 max ref.
M4 X 0.7	8.0 - 9.4	2.7 max ref.
M5 X 0.8	8.9 - 10.4	2.7 max ref.
M6 X 1	10.9 - 12.6	3.3 max ref.
M8 X 1.25	15.4 - 17.3	4.6 max ref.
M10 X 1.5	17.8 - 20.0	5.0 max ref.

* H Dimension is a reference dimension only.

FLAT PHILLIPS



ITEM NUMBER	DESCRIPTION	ITEM NUMBER	DESCRIPTION
50M025045I004	M2.5 X .45 X 4MM Flat Phil	50M040070I016	M4 X .7 X 16MM Flat Phil
50M025045I005	M2.5 X .45 X 5MM Flat Phil	50M040070I020	M4 X .7 X 20MM Flat Phil
50M025045I006	M2.5 X .45 X 6MM Flat Phil	50M040070I025	M4 X .7 X 25MM Flat Phil
50M025045I008	M2.5 X .45 X 8MM Flat Phil	50M050080I006	M5 X .8 X 6MM Flat Phil
50M025045I010	M2.5 X .45 X 10MM Flat Phil	50M050080I008	M5 X .8 X 8MM Flat Phil
50M025045I012	M2.5 X .45 X 12MM Flat Phil	50M050080I010	M5 X .8 X 10MM Flat Phil
50M025045I016	M2.5 X .45 X 16MM Flat Phil	50M050080I012	M5 X .8 X 12MM Flat Phil
50M025045I020	M2.5 X .45 X 20MM Flat Phil	50M050080I016	M5 X .8 X 16MM Flat Phil
50M025045I025	M2.5 X .45 X 25MM Flat Phil	50M050080I020	M5 X .8 X 20MM Flat Phil
50M030050I005	M3 X .5 X 5MM Flat Phil	50M050080I025	M5 X .8 X 25MM Flat Phil
50M030050I006	M3 X .5 X 6MM Flat Phil	50M050080I030	M5 X .8 X 30MM Flat Phil
50M030050I008	M3 X .5 X 8MM Flat Phil	50M050080I040	M5 X .8 X 40MM Flat Phil
50M030050I010	M3 X .5 X 10MM Flat Phil	50M060100I008	M6 X 1.00 X 8MM Flat Phil
50M030050I012	M3 X .5 X 12MM Flat Phil	50M060100I010	M6 X 1.00 X 10MM Flat Phil
50M030050I016	M3 X .5 X 16MM Flat Phil	50M060100I012	M6 X 1.00 X 12MM Flat Phil
50M030050I020	M3 X .5 X 20MM Flat Phil	50M060100I016	M6 X 1.00 X 16MM Flat Phil
50M030050I025	M3 X .5 X 25MM Flat Phil	50M060100I020	M6 X 1.00 X 20MM Flat Phil
50M035060I005	M3.5 X .6 X 5MM Flat Phil	50M060100I025	M6 X 1.00 X 25MM Flat Phil
50M035060I006	M3.5 X .6 X 6MM Flat Phil	50M060100I035	M6 X 1.00 X 35MM Flat Phil
50M035060I008	M3.5 X .6 X 8MM Flat Phil	50M060100I045	M6 X 1.00 X 45MM Flat Phil
50M035060I010	M3.5 X .6 X 10MM Flat Phil	50M080125I010	M8 X 1.25 X 10MM Flat Phil
50M035060I012	M3.5 X .6 X 12MM Flat Phil	50M080125I016	M8 X 1.25 X 16MM Flat Phil
50M035060I016	M3.5 X .6 X 16MM Flat Phil	50M080125I020	M8 X 1.25 X 20MM Flat Phil
50M035060I020	M3.5 X .6 X 20MM Flat Phil	50M080125I025	M8 X 1.25 X 25MM Flat Phil
50M035060I025	M3.5 X .6 X 25MM Flat Phil	50M080125I030	M8 X 1.25 X 30MM Flat Phil
50M035060I035	M3.5 X .6 X 35MM Flat Phil	50M080125I050	M8 X 1.25 X 50MM Flat Phil
50M040070I006	M4 X .7 X 6MM Flat Phil	50M100150I020	M10 X 1.50 X 20MM Flat Phil
50M040070I008	M4 X .7 X 8MM Flat Phil	50M100150I025	M10 X 1.50 X 25MM Flat Phil
50M040070I010	M4 X .7 X 10MM Flat Phil	50M100150I035	M10 X 1.50 X 35MM Flat Phil
50M040070I012	M4 X .7 X 12MM Flat Phil		

METRIC SCREWS, BOLTS, AND THREADED ROD

ALL DIMENSIONS ARE IN MILLIMETERS

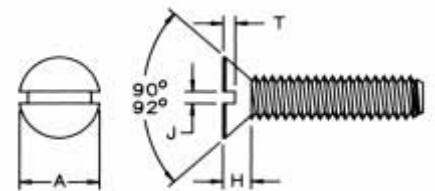
SECTION
XII

THREAD SIZE	A	H	J	T
M2 X 0.4	3.5 - 4.4	1.2 max ref	0.5 - 0.7	0.4 - 0.6
M2.5 X 0.45	4.4 - 5.5	1.5 max ref	0.6 - 0.8	0.5 - 0.7
M3 X 0.5	5.2 - 6.3	1.7 max ref	.08 - 1.0	0.6 - 0.9
M3.5 X 0.6	6.9 - 8.2	2.3 max ref	1.0 - 1.2	0.9 - 1.2
M4 X 0.7	8.0 - 9.4	2.7 max ref	1.2 - 1.5	1.0 - 1.3
M5 X 0.8	8.9 - 10.4	2.7 max ref	1.2 - 1.5	1.1 - 1.4
M6 X 1	10.9 - 12.6	3.3 max ref	1.6 - 1.9	1.2 - 1.6
M8 X 1.25	15.4 - 17.3	4.6 max ref	2.0 - 2.3	1.8 - 2.3
M10 X 1.5	17.8 - 20.0	5.0 max ref	2.5 - 2.8	2.0 - 2.6

ITEM NUMBER	DESCRIPTION
50M020040H004	M2 X .4 X 4MM Flat Slot
50M020040H005	M2 X .4 X 5MM Flat Slot
50M020040H006	M2 X .4 X 6MM Flat Slot
50M020040H008	M2 X .4 X 8MM Flat Slot
50M020040H010	M2 X .4 X 10MM Flat Slot
50M020040H011	M2 X .4 X 11MM Flat Slot
50M020040H012	M2 X .4 X 12MM Flat Slot
50M020040H016	M2 X .4 X 16MM Flat Slot
50M020040H025	M2 X .4 X 25MM Flat Slot
50M025045H004	M2.5 X .45 X 4MM Flat Slot
50M025045H005	M2.5 X .45 X 5MM Flat Slot
50M025045H006	M2.5 X .45 X 6MM Flat Slot
50M025045H008	M2.5 X .45 X 8MM Flat Slot
50M025045H010	M2.5 X .45 X 10MM Flat Slot
50M025045H012	M2.5 X .45 X 12MM Flat Slot
50M025045H016	M2.5 X .45 X 16MM Flat Slot
50M025045H020	M2.5 X .45 X 20MM Flat Slot
50M025045H025	M2.5 X .45 X 25MM Flat Slot
50M030050H005	M3 X .5 X 5MM Flat Slot
50M030050H006	M3 X .5 X 6MM Flat Slot
50M030050H008	M3 X .5 X 8MM Flat Slot
50M030050H010	M3 X .5 X 10MM Flat Slot
50M030050H012	M3 X .5 X 12MM Flat Slot
50M030050H015	M3 X .5 X 15MM Flat Slot
50M030050H016	M3 X .5 X 16MM Flat Slot
50M030050H020	M3 X .5 X 20MM Flat Slot
50M030050H025	M3 X .5 X 25MM Flat Slot
50M030050H030	M3 X .5 X 30MM Flat Slot
50M030050H042	M3 X .5 X 42MM Flat Slot
50M035060H005	M3.5 X .6 X 5MM Flat Slot
50M035060H006	M3.5 X .6 X 6MM Flat Slot
50M035060H008	M3.5 X .6 X 8MM Flat Slot
50M035060H010	M3.5 X .6 X 10MM Flat Slot
50M035060H016	M3.5 X .6 X 16MM Flat Slot
50M035060H025	M3.5 X .6 X 25MM Flat Slot
50M035060H035	M3.5 X .6 X 35MM Flat Slot
50M040070H006	M4 X .7 X 6MM Flat Slot
50M040070H008	M4 X .7 X 8MM Flat Slot

ITEM NUMBER	DESCRIPTION
50M040070H010	M4 X .7 X 10MM Flat Slot
50M040070H012	M4 X .7 X 12MM Flat Slot
50M040070H015	M4 X .7 X 15MM Flat Slot
50M040070H016	M4 X .7 X 16MM Flat Slot
50M040070H020	M4 X .7 X 20MM Flat Slot
50M040070H025	M4 X .7 X 25MM Flat Slot
50M040070H030	M4 X .7 X 30MM Flat Slot
50M040070H035	M4 X .7 X 35MM Flat Slot
50M050080H006	M5 X .8 X 6MM Flat Slot
50M050080H008	M5 X .8 X 8MM Flat Slot
50M050080H010	M5 X .8 X 10MM Flat Slot
50M050080H012	M5 X .8 X 12MM Flat Slot
50M050080H015	M5 X .8 X 15MM Flat Slot
50M050080H016	M5 X .8 X 16MM Flat Slot
50M050080H020	M5 X .8 X 20MM Flat Slot
50M050080H025	M5 X .8 X 25MM Flat Slot
50M050080H030	M5 X .8 X 30MM Flat Slot
50M050080H040	M5 X .8 X 40MM Flat Slot
50M060100H008	M6 X 1.0 X 8MM Flat Slot
50M060100H010	M6 X 1.0 X 10MM Flat Slot
50M060100H012	M6 X 1.0 X 12MM Flat Slot
50M060100H016	M6 X 1.0 X 16MM Flat Slot
50M060100H020	M6 X 1.0 X 20MM Flat Slot
50M060100H025	M6 X 1.0 X 25MM Flat Slot
50M060100H035	M6 X 1.0 X 35MM Flat Slot
50M060100H040	M6 X 1.0 X 40MM Flat Slot
50M060100H045	M6 X 1.0 X 45MM Flat Slot
50M060100H050	M6 X 1.0 X 50MM Flat Slot
50M080125H016	M8 X 1.25 X 16MM Flat Slot
50M080125H020	M8 X 1.25 X 20MM Flat Slot
50M080125H025	M8 X 1.25 X 25MM Flat Slot
50M080125H030	M8 X 1.25 X 30MM Flat Slot
50M080125H050	M8 X 1.25 X 50MM Flat Slot
50M100150H020	M10 X 1.5 X 20MM Flat Slot
50M100150H025	M10 X 1.5 X 25MM Flat Slot
50M100150H030	M10 X 1.5 X 30MM Flat Slot
50M100150H035	M10 X 1.5 X 35MM Flat Slot
50M100150H060	M10 X 1.5 X 60MM Flat Slot

FLAT SLOTTED



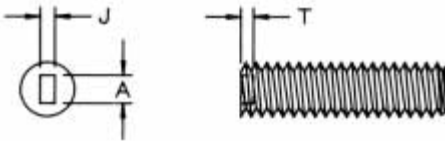
METRIC SCREWS, BOLTS, AND THREADED ROD

ALL DIMENSIONS ARE IN MILLIMETERS

SECTION
XII

THREAD SIZE	A	J	T
M4 X 0.7	2.0	.64	.76
M5 X 0.8	3.3	.89	1.3
M6 X 1.0	4.1	1.0	1.5
M8 X 1.25	5.2	1.6	2.4
M10 X 1.5	6.6	1.5	2.5

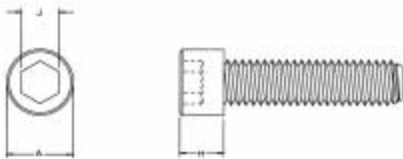
GRUB SLOTTED



ITEM NUMBER	DESCRIPTION
50M040070R003	M4 X .7 X 3MM Grub Slot
50M040070R006	M4 X .7 X 6MM Grub Slot
50M040070R008	M4 X .7 X 8MM Grub Slot
50M040070R010	M4 X .7 X 10MM Grub Slot
50M040070R012	M4 X .7 X 12MM Grub Slot
50M040070R016	M4 X .7 X 16MM Grub Slot
50M040070R020	M4 X .7 X 20MM Grub Slot
50M040070R025	M4 X .7 X 25MM Grub Slot
50M040070R030	M4 X .7 X 30MM Grub Slot
50M040070R035	M4 X .7 X 35MM Grub Slot
50M040070R040	M4 X .7 X 40MM Grub Slot
50M050080R006	M5 X .8 X 6MM Grub Slot
50M050080R008	M5 X .8 X 8MM Grub Slot
50M050080R010	M5 X .8 X 10MM Grub Slot
50M050080R012	M5 X .8 X 12MM Grub Slot
50M050080R016	M5 X .8 X 16MM Grub Slot
50M050080R020	M5 X .8 X 20MM Grub Slot
50M050080R025	M5 X .8 X 25MM Grub Slot
50M050080R030	M5 X .8 X 30MM Grub Slot
50M050080R040	M5 X .8 X 40MM Grub Slot
50M060100R005	M6 X 1.00 X 5MM Grub Slot
50M060100R008	M6 X 1.00 X 8MM Grub Slot
50M060100R010	M6 X 1.00 X 10MM Grub Slot
50M060100R012	M6 X 1.00 X 12MM Grub Slot
50M060100R016	M6 X 1.00 X 16MM Grub Slot

ITEM NUMBER	DESCRIPTION
50M060100R020	M6 X 1.00 X 20MM Grub Slot
50M060100R022	M6 X 1.00 X 22MM Grub Slot
50M060100R025	M6 X 1.00 X 25MM Grub Slot
50M060100R030	M6 X 1.00 X 30MM Grub Slot
50M060100R035	M6 X 1.00 X 35MM Grub Slot
50M060100R045	M6 X 1.00 X 45MM Grub Slot
50M060100R050	M6 X 1.00 X 50MM Grub Slot
50M060100R060	M6 X 1.00 X 60MM Grub Slot
50M060100R070	M6 X 1.00 X 70MM Grub Slot
50M060100R075	M6 X 1.00 X 75MM Grub Slot
50M080125R010	M8 X 1.25 X 10MM Grub Slot
50M080125R016	M8 X 1.25 X 16MM Grub Slot
50M080125R020	M8 X 1.25 X 20MM Grub Slot
50M080125R025	M8 X 1.25 X 25MM Grub Slot
50M080125R030	M8 X 1.25 X 30MM Grub Slot
50M080125R035	M8 X 1.25 X 35MM Grub Slot
50M080125R050	M8 X 1.25 X 50MM Grub Slot
50M100150R013	M10 X 1.50 X 13MM Grub Slot
50M100150R016	M10 X 1.50 X 16MM Grub Slot
50M100150R019	M10 X 1.50 X 19MM Grub Slot
50M100150R020	M10 X 1.50 X 20MM Grub Slot
50M100150R025	M10 X 1.50 X 25MM Grub Slot
50M100150R030	M10 X 1.50 X 30MM Grub Slot
50M100150R035	M10 X 1.50 X 35MM Grub Slot
50M100150R050	M10 X 1.50 X 50MM Grub Slot
50M100150R060	M10 X 1.50 X 60MM Grub Slot

HEX SOCKET HEAD CAP SCREW



ITEM NUMBER	DESCRIPTION
50M100150S013	M10 X 1.50 X 13MM Hex Soc
50M100150S016	M10 X 1.50 X 16MM Hex Soc
50M100150S019	M10 X 1.50 X 19MM Hex Soc
50M100150S020	M10 X 1.50 X 20MM Hex Soc
50M100150S025	M10 X 1.50 X 25MM Hex Soc
50M100150S030	M10 X 1.50 X 30MM Hex Soc
50M100150S035	M10 X 1.50 X 35MM Hex Soc
50M100150S050	M10 X 1.50 X 50MM Hex Soc
50M100150S060	M10 X 1.50 X 60MM Hex Soc

Nominal Screw Size	M1.6 thru M10	M12 thru M20	Over M20
	Nominal Screw Length	Tolerance on Length, mm	
to 16 mm, incl.	0.3	0.3	--
over 16 to 50 mm	0.4	0.4	0.7
over 50 to 120 mm	0.7	1.0	1.5
over 120 to 200mm	1.0	1.5	2.0
over 200 mm	2.0	2.5	3.0

All tolerances are plus and minus.

THREAD SIZE	A	H	J	HEX DEPTH
M 10	15.67 - 16.00	9.81 - 10.00	8.0 nom.	5.00 min.



METRIC SCREWS, BOLTS, AND THREADED ROD

ALL DIMENSIONS ARE IN MILLIMETERS

SECTION
XII

NYLON THREADED ROD

This versatile threaded rod stock is easily cut to size, resistant to most chemicals, electrically insulating, non-magnetic, light-weight, low thermal conductivity, vibration and abrasion resistant. Stock length is 1 meter. We can furnish cut to your length with a nominal cutting charge. Other plastic materials can be furnished on special order.



ITEM NUMBER	DESCRIPTION
38M040070TR	M 4 X .07 THREADED ROD
38M050080TR	M 5 X .08 THREADED ROD
38M060100TR	M 6 X 1.0 THREADED ROD
38M080125TR	M 8 X 1.25 THREADED ROD

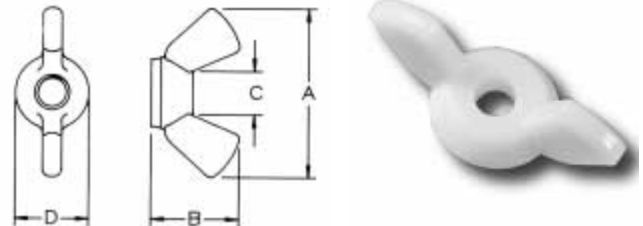
METRIC NUTS

ALL DIMENSIONS ARE IN MILLIMETERS

SECTION
XIII

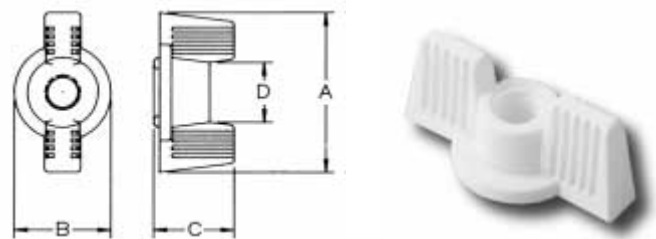
NYLON WING NUTS TOLERANCE +/- .26 mm

ITEM NUMBER	DESCRIPTION	A	B	C	D
06M040070WN	M4 X 0.7	22.8	12.2	5.8	10.2
06M050080WN	M5 X 0.8	22.8	12.2	5.8	10.2
06M060100WN	M6 X 1.0	28.0	16.0	7.6	14.2
06M080125WN	M8 X 1.25	35.1	18.3	9.1	16.5
06M100150WN	M10 X 1.5	35.1	18.3	9.1	16.5
06M120175WN	M12 X 1.7	44.7	22.7	15.0	21.1



DECO WING NUTS TOLERANCE +/- .26 mm

ITEM NUMBER	DESCRIPTION	A	B	C	D
06M030050DWN	M3 X 0.5	16.0	9.5	8.0	6.0
06M040070DWN	M4 X 0.7	16.0	9.5	8.0	6.0
06M050080DWN	M5 X 0.8	22.2	12.7	11.1	7.9
06M060100DWN	M6 X 1.0	29.7	15.8	13.4	9.5



ITEM NUMBER	DESCRIPTION	A	B	C	D
06M030050DLWN	M3 X 0.5	16.0	9.5	8.0	6.0
06M040070DLWN	M4 X 0.7	16.0	9.5	8.0	6.0
06M050080DLWN	M5 X 0.8	22.2	12.7	11.1	7.9
06M060100DLWN	M6 X 1.0	29.7	15.8	13.4	9.5

DECO LOCKING WING NUTS

METRIC NUTS

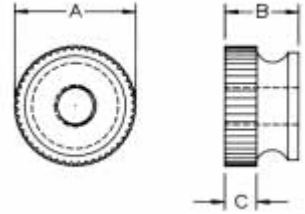
ALL DIMENSIONS ARE IN MILLIMETERS

SECTION
XIII



NYLON THUMB NUTS

TOLERANCE +/- .26 mm



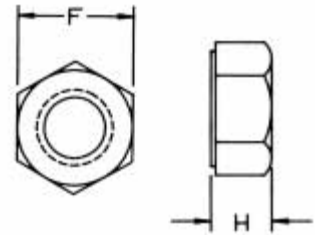
ITEM NUMBER	DESCRIPTION	A	B	C
08M040070TN	M4 X 0.7	10.8	7.7	3.5

NYLON HEX NUTS

TOLERANCE +/- .26 mm



ITEM NUMBER	DESCRIPTION	F	H
04M020040HN	M2 X 0.4	3.9	1.2
04M025045HN	M2.5 X 0.45	4.9	1.8
04M030050HN	M3 X 0.5	5.4	2.2
04M035060HN	M3.5 X 0.6	6.9	2.7
04M040070HN	M4 X 0.7	6.9	3.0
04M050080HN	M5 X 0.8	7.9	4.3
04M060100HN	M6 X 1.0	10.0	5.4
04M080125HN	M8 X 1.25	12.9	6.4
04M100150HN	M10 X 1.50	14.8	9.8

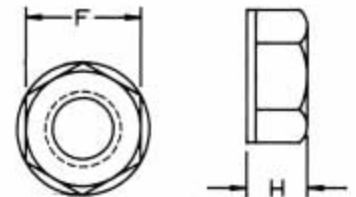


DESIGNED FOR STEEL SCREWS

NYLON LOCK NUTS

TOLERANCE +/- .26 mm

ITEM NUMBER	DESCRIPTION	F	H
07M060100LN	M6 X 1.0	10.9	6.7

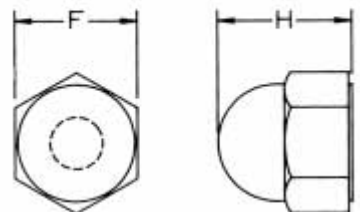


NYLON CAP NUTS

TOLERANCE +/- .26 mm



ITEM NUMBER	DESCRIPTION	F	H * REE
05M040070CN	M4 X 0.7	7.0	8.0
05M050080CN	M5 X 0.8	8.0	10.0
05M060100CN	M6 X 1.0	10.0	12.0
05M080125CN	M8 X 1.25	13.0	15.0
05M100150CN	M10 X 1.5	17.0	18.0
05M120175CN	M12 X 1.75	18.9	20.5
05M160200CN	M16 X 2.0	23.7	24.8
05M200250CN	M20 X 2.5	26.7	29.1

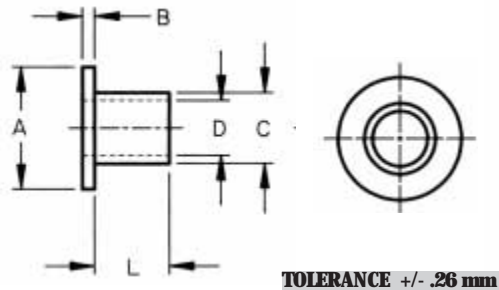


LOCKING CAP NUTS

05M040070LCN	M4 X 0.7	7.0	8.0
05M050080LCN	M5 X 0.8	8.0	10.0
05M060100LCN	M6 X 1.0	10.0	12.0

METRIC WASHERS AND SCREW INSULATORS

Nylon Screw Insulators are used to isolate metal screws electrically as well as to reduce corrosion. They can be used as light load bearings in many applications. Specials can be made to order for small tool charge. Specify the screw size and length when ordering.



TOLERANCE +/- .26 mm



SIZES NOT SHOWN WILL BE TOOLED UPON REQUEST

NYLON SCREW INSULATORS

ITEM NUMBER	DESCRIPTION	L	A	B	C	D
10SCM002003	SCM 2 X 3	3 MM	4.2 MM	1.0 MM	3.0 MM	2.1 MM
10SCM002004	SCM 2 X 4	4 MM	4.2 MM	1.0 MM	3.0 MM	2.1 MM
10SCM002005	SCM 2 X 5	5 MM	4.2 MM	1.0 MM	3.0 MM	2.1 MM
10SCM002006	SCM 2 X 6	6 MM	4.2 MM	1.0 MM	3.0 MM	2.1 MM
10SCM003002	SCM 3 X 2	2 MM	6.2 MM	1.0 MM	4.0 MM	3.1 MM
10SCM003003	SCM 3 X 3	3 MM	6.2 MM	1.0 MM	4.0 MM	3.1 MM
10SCM003004	SCM 3 X 4	4 MM	6.2 MM	1.0 MM	4.0 MM	3.1 MM
10SCM003005	SCM 3 X 5	5 MM	6.2 MM	1.0 MM	4.0 MM	3.1 MM
10SCM003006	SCM 3 X 6	6 MM	6.2 MM	1.0 MM	4.0 MM	3.1 MM
10SCM003007	SCM 3 X 7	7 MM	6.2 MM	1.0 MM	4.0 MM	3.1 MM
10SCM003008	SCM 3 X 8	8 MM	6.2 MM	1.0 MM	4.0 MM	3.1 MM
10SCM003009	SCM 3 X 9	9 MM	6.2 MM	1.0 MM	4.0 MM	3.1 MM
10SCM003010	SCM 3 X 10	10 MM	6.2 MM	1.0 MM	4.0 MM	3.1 MM
10SCM004003	SCM 4 X 3	3 MM	8.4 MM	1.5 MM	6.0 MM	4.1 MM
10SCM004004	SCM 4 X 4	4 MM	8.4 MM	1.5 MM	6.0 MM	4.1 MM
10SCM004005	SCM 4 X 5	5 MM	8.4 MM	1.5 MM	6.0 MM	4.1 MM
10SCM004007	SCM 4 X 7	7 MM	8.4 MM	1.5 MM	6.0 MM	4.1 MM
10SCM004009	SCM 4 X 9	9 MM	8.4 MM	1.5 MM	6.0 MM	4.1 MM
10SCM005003	SCM 5 X 3	3 MM	10.2 MM	2.0 MM	7.0 MM	5.1 MM
10SCM005004	SCM 5 X 4	4 MM	10.2 MM	2.0 MM	7.0 MM	5.1 MM
10SCM005005	SCM 5 X 5	5 MM	10.2 MM	2.0 MM	7.0 MM	5.1 MM
10SCM005007	SCM 5 X 7	7 MM	10.2 MM	2.0 MM	7.0 MM	5.1 MM
10SCM005009	SCM 5 X 9	9 MM	10.2 MM	2.0 MM	7.0 MM	5.1 MM
10SCM006004	SCM 6 X 4	4 MM	12.2 MM	2.0 MM	8.0 MM	6.1 MM
10SCM006006	SCM 6 X 6	6 MM	12.2 MM	2.0 MM	8.0 MM	6.1 MM
10SCM006008	SCM 6 X 8	8 MM	12.2 MM	2.0 MM	8.0 MM	6.1 MM
10SCM006010	SCM 6 X 10	10 MM	12.2 MM	2.0 MM	8.0 MM	6.1 MM
10SCM006012	SCM 6 X 12	12 MM	12.2 MM	2.0 MM	8.0 MM	6.1 MM
10SCM008004	SCM 8 X 4	4 MM	14.2 MM	2.5 MM	10.0 MM	8.1 MM
10SCM008006	SCM 8 X 6	6 MM	14.2 MM	2.5 MM	10.0 MM	8.1 MM
10SCM008008	SCM 8 X 8	8 MM	14.2 MM	2.5 MM	10.0 MM	8.1 MM
10SCM008010	SCM 8 X 10	10 MM	14.2 MM	2.5 MM	10.0 MM	8.1 MM
10SCM008012	SCM 8 X 12	12 MM	14.2 MM	2.5 MM	10.0 MM	8.1 MM



TOLERANCE +/- .13 mm

NYLON FLAT WASHERS

ITEM NUMBER	DESCRIPTION	A	B	T
16M02050080	M2	5.00	2.15	0.80
16M02556080	M2.5	5.60	2.65	0.80
16M03080080	M3	8.00	3.20	0.80
16M03580080	M3.5	8.00	3.70	0.80
16M04090080	M4	9.00	4.30	0.80
16M05011100	M5	11.00	5.30	1.00
16M06012150	M6	12.00	6.40	1.50
16M08018200	M8	18.00	8.40	2.00
16M08525200	M8.5	25.00	8.50	2.00
16M10022250	M10	22.00	10.50	2.50

METRIC SPACERS

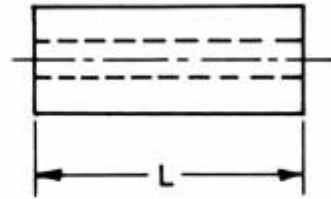
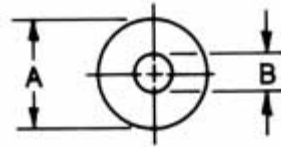
SECTION XV

ALL DIMENSIONS ARE IN MILLIMETERS

TOLERANCE ON A AND L DIMENSIONS ARE +/- .38 mm
TOLERANCE ON B DIMENSION IS +/- .26 mm

ITEM NUMBER	DESC.	A	B	L
13ME001	ME 1	4 MM	2.6 MM	2 MM
13ME002	ME 2	4 MM	2.6 MM	3 MM
13ME003	ME 3	4 MM	2.6 MM	5 MM
13ME004	ME 4	4 MM	2.6 MM	7.5 MM
13ME005	ME 5	4 MM	2.6 MM	10 MM
13ME006	ME 6	4 MM	2.6 MM	15 MM
13ME007	ME 7	4 MM	2.6 MM	20 MM
13ME008	ME 8	4 MM	2.6 MM	25 MM
13ME009	ME 9	4 MM	2.6 MM	30 MM
13ME010	ME 10	5 MM	2.6 MM	2 MM
13ME011	ME 11	5 MM	2.6 MM	3 MM
13ME012	ME 12	5 MM	2.6 MM	5 MM
13ME013	ME 13	5 MM	2.6 MM	7.5 MM
13ME014	ME 14	5 MM	2.6 MM	10 MM
13ME015	ME 15	5 MM	2.6 MM	15 MM
13ME016	ME 16	5 MM	2.6 MM	20 MM
13ME017	ME 17	5 MM	2.6 MM	25 MM
13ME018	ME 18	5 MM	2.6 MM	30 MM
13ME019	ME 19	5 MM	3.2 MM	2 MM
13ME020	ME 20	5 MM	3.2 MM	3 MM
13ME021	ME 21	5 MM	3.2 MM	5 MM
13ME022	ME 22	5 MM	3.2 MM	7.5 MM
13ME023	ME 23	5 MM	3.2 MM	10 MM
13ME024	ME 24	5 MM	3.2 MM	15 MM
13ME025	ME 25	5 MM	3.2 MM	20 MM
13ME026	ME 26	5 MM	3.2 MM	25 MM
13ME027	ME 27	5 MM	3.2 MM	30 MM
13ME028	ME 28	6 MM	3.2 MM	3 MM
13ME029	ME 29	6 MM	3.2 MM	5 MM
13ME030	ME 30	6 MM	3.2 MM	7.5 MM
13ME031	ME 31	6 MM	3.2 MM	10 MM
13ME032	ME 32	6 MM	3.2 MM	15 MM
13ME033	ME 33	6 MM	3.2 MM	20 MM
13ME034	ME 34	6 MM	3.2 MM	25 MM
13ME035	ME 35	6 MM	3.2 MM	30 MM
13ME036	ME 36	8 MM	3.2 MM	3 MM
13ME037	ME 37	8 MM	3.2 MM	5 MM
13ME038	ME 38	8 MM	3.2 MM	7.5 MM
13ME039	ME 39	8 MM	3.2 MM	10 MM
13ME040	ME 40	8 MM	3.2 MM	15 MM
13ME041	ME 41	8 MM	3.2 MM	20 MM
13ME042	ME 42	8 MM	3.2 MM	25 MM
13ME043	ME 43	8 MM	3.2 MM	30 MM
13ME044	ME 44	6 MM	3.6 MM	3 MM
13ME045	ME 45	6 MM	3.6 MM	5 MM
13ME046	ME 46	6 MM	3.6 MM	7.5 MM
13ME047	ME 47	6 MM	3.6 MM	10 MM
13ME048	ME 48	6 MM	3.6 MM	15 MM
13ME049	ME 49	6 MM	3.6 MM	20 MM
13ME050	ME 50	6 MM	3.6 MM	25 MM
13ME051	ME 51	6 MM	3.6 MM	30 MM
13ME052	ME 52	8 MM	4.3 MM	3 MM
13ME053	ME 53	8 MM	4.3 MM	5 MM
13ME054	ME 54	8 MM	4.3 MM	7.5 MM

ITEM NUMBER	DESC.	A	B	L
13ME055	ME 55	8 MM	4.3 MM	10 MM
13ME056	ME 56	8 MM	4.3 MM	15 MM
13ME057	ME 57	8 MM	4.3 MM	20 MM
13ME058	ME 58	8 MM	4.3 MM	25 MM
13ME059	ME 59	8 MM	4.3 MM	30 MM
13ME060	ME 60	10 MM	5.3 MM	3 MM
13ME061	ME 61	10 MM	5.3 MM	5 MM
13ME062	ME 62	10 MM	5.3 MM	7.5 MM
13ME063	ME 63	10 MM	5.3 MM	10 MM
13ME064	ME 64	10 MM	5.3 MM	15 MM
13ME065	ME 65	10 MM	5.3 MM	20 MM
13ME066	ME 66	10 MM	5.3 MM	25 MM
13ME067	ME 67	10 MM	5.3 MM	30 MM
13ME068	ME 68	10 MM	6.3 MM	3 MM
13ME069	ME 69	10 MM	6.3 MM	5 MM
13ME070	ME 70	10 MM	6.3 MM	7.5 MM
13ME071	ME 71	10 MM	6.3 MM	10 MM
13ME072	ME 72	10 MM	6.3 MM	15 MM
13ME073	ME 73	10 MM	6.3 MM	20 MM
13ME074	ME 74	10 MM	6.3 MM	25 MM
13ME075	ME 75	10 MM	6.3 MM	30 MM
13ME076	ME 76	15 MM	6.5 MM	3 MM
13ME077	ME 77	15 MM	6.5 MM	5 MM
13ME078	ME 78	15 MM	6.5 MM	7.5 MM
13ME079	ME 79	15 MM	6.5 MM	10 MM
13ME080	ME 80	15 MM	6.5 MM	15 MM
13ME081	ME 81	15 MM	6.5 MM	20 MM
13ME082	ME 82	15 MM	6.5 MM	25 MM
13ME083	ME 83	15 MM	6.5 MM	30 MM
13ME084	ME 84	12 MM	8.3 MM	3 MM
13ME085	ME 85	12 MM	8.3 MM	5 MM
13ME086	ME 86	12 MM	8.3 MM	7.5 MM
13ME087	ME 87	12 MM	8.3 MM	10 MM
13ME088	ME 88	12 MM	8.3 MM	15 MM
13ME089	ME 89	12 MM	8.3 MM	20 MM
13ME090	ME 90	12 MM	8.3 MM	25 MM
13ME091	ME 91	12 MM	8.3 MM	30 MM
13ME092	ME 92	18 MM	8.3 MM	3 MM
13ME093	ME 93	18 MM	8.3 MM	5 MM
13ME094	ME 94	18 MM	8.3 MM	7.5 MM
13ME095	ME 95	18 MM	8.3 MM	10 MM
13ME096	ME 96	18 MM	8.3 MM	15 MM
13ME097	ME 97	18 MM	8.3 MM	20 MM
13ME098	ME 98	18 MM	8.3 MM	25 MM
13ME099	ME 99	18 MM	8.3 MM	30 MM
13ME100	ME 100	15 MM	10.4MM	3 MM
13ME101	ME 101	15 MM	10.4MM	5 MM
13ME102	ME 102	15 MM	10.4MM	7.5 MM
13ME103	ME 103	15 MM	10.4MM	10 MM
13ME104	ME 104	15 MM	10.4MM	15 MM
13ME105	ME 105	15 MM	10.4MM	20 MM
13ME106	ME 106	15 MM	10.4MM	25 MM
13ME107	ME 107	15 MM	10.4MM	30 MM
13ME108	ME 108	22 MM	10.4MM	5 MM



METRIC NYLON SPACERS

MATERIAL: HEAT STABILIZED BLACK NYLON

ITEM NUMBER	DESC.	A	B	L
13ME109	ME 109	22 MM	10.4 MM	10 MM
13ME110	ME 110	22 MM	10.4 MM	15 MM
13ME111	ME 111	22 MM	10.4 MM	20 MM
13ME112	ME 112	22 MM	10.4 MM	25 MM
13ME113	ME 113	22 MM	10.4 MM	30 MM
13ME118	ME 118	18 MM	13.3 MM	3 MM
13ME119	ME 119	18 MM	13.3 MM	5 MM
13ME120	ME 120	18 MM	13.3 MM	7.5 MM
13ME121	ME 121	18 MM	13.3 MM	10 MM
13ME122	ME 122	18 MM	13.3 MM	15 MM
13ME123	ME 123	18 MM	13.3 MM	20 MM
13ME124	ME 124	18 MM	13.3 MM	25 MM
13ME125	ME 125	18 MM	13.3 MM	30 MM
13ME126	ME 126	25 MM	13.3 MM	5 MM
13ME127	ME 127	25 MM	13.3 MM	10 MM
13ME128	ME 128	25 MM	13.3 MM	15 MM
13ME129	ME 129	25 MM	13.3 MM	20 MM
13ME130	ME 130	25 MM	13.3 MM	25 MM
13ME131	ME 131	25 MM	13.3 MM	30 MM
13ME132	ME 132	10 MM	6.3 MM	28 MM



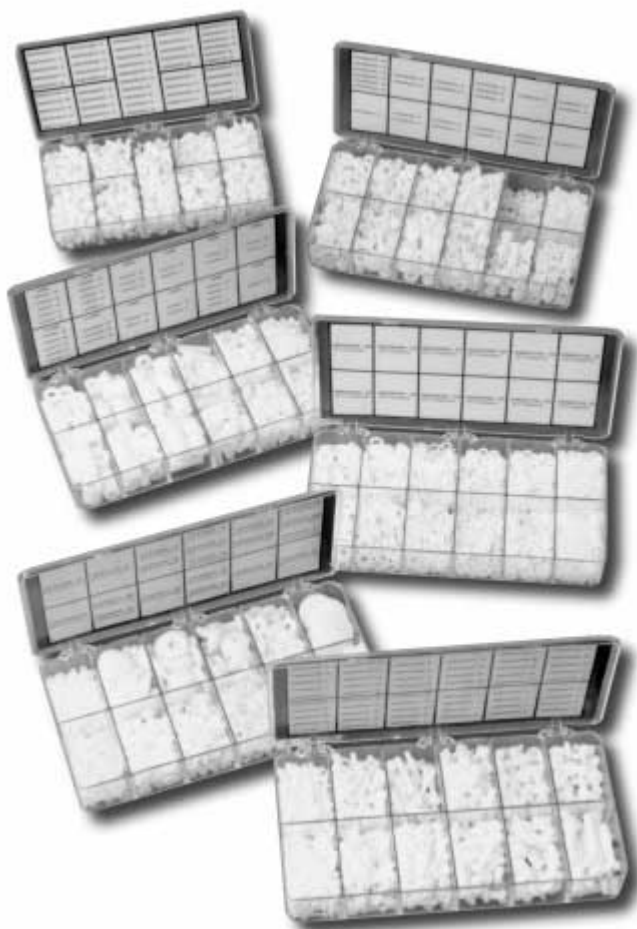
METRIC FASTENER ASSORTMENT KITS

SECTION
XVI

MOLDED NYLON FASTENERS PROVIDE ELECTRICAL INSULATION, VIBRATION AND CORROSION RESISTANCE. NYLON KITS HAVE A LOW THERMAL CONDUCTIVITY, ARE NON-MAGNETIC AND HAVE A HIGH STRENGTH-TO-WEIGHT RATIO. PACKAGED IN LARGE REUSABLE TRANSPARENT PLASTIC STORAGE BOXES.

IDEAL FOR:

PROTOTYPE WORK - Large working assortments.
PRODUCT DESIGN - Latest designs for increased productivity.
MODEL MAKING - Commercially available standard parts.
SHOP AND MAINTENANCE - Convenient selection.



04AS04115FWM FLAT WASHERS

OVER 700 NYLON FASTENERS

Assortment Kit Consists of Approximately:

900 - M2	Flat Washers
825 - M2.5	Flat Washers
700 - M3	Flat Washers
650 - M3.5	Flat Washers
570 - M4	Flat Washers
300 - M5	Flat Washers
170 - M6	Flat Washers

04AS0705SCM SCREW INSULATORS

**OVER 700
NYLON FASTENERS
OVER 20 DIFFERENT
SIZES AND TYPES**

Assortment Kit Consists of Approximately:

150 - M2	Screw Insulators
125 - M3	Screw Insulators
200 - M4	Screw Insulators
125 - M5	Screw Insulators
105 - M6	Screw Insulators

04AS0690SPM SPACERS

**OVER 600 NYLON FASTENERS
OVER 30 DIFFERENT SIZES AND TYPES**

Assortment Kit Consists of Approximately:

105 - M2	X 3MM to 25MM Long
95 - M2.5	X 3MM to 25MM Long
80 - M3	X 3MM to 25MM Long
150 - M3.5	X 3MM to 10MM Long
110 - M4	X 3MM to 25MM Long
50 - M5	X 3MM to 25MM Long
55 - M6	X 3MM to 25MM Long

04AS0700WSM SHOULDER WASHERS

**OVER 1000
NYLON FASTENERS
OVER 20 DIFFERENT
SIZES AND TYPES**

Assortment Kit Consists of Approximately:

315 - M2	Shoulder Washers
245 - M3	Shoulder Washers
180 - M4	Shoulder Washers
225 - M5	Shoulder Washers
105 - M6	Shoulder Washers

04AS0965MSM MACHINE SCREWS

**OVER 950 NYLON FASTENERS
OVER 60 DIFFERENT
SIZES AND TYPES**

Assortment Kit Consists of Approximately:

220 - M2	X 4MM to 25MM Long
170 - M2.5	X 4MM to 25MM Long
115 - M3	X 5MM to 25MM Long
110 - M3.5	X 5MM to 25MM Long
130 - M4	X 6MM to 25MM Long
135 - M4	X 6MM to 25MM Long
85 - M6	X 5MM to 25MM Long

04AS0655MMN MACHINE SCREWS AND NUTS

**OVER 655
NYLON FASTENERS
OVER 30 DIFFERENT
SIZES AND TYPES**

Slotted Cheese Head, Hex Head, Fillister Head and 90° Flat Head Styles, MACHINE SCREWS in sizes;

Assortment Kit Consists of Approximately:

100 - M3	X 5	X 6 to 25MM
100 - M3.5	X 6	X 5 to 25MM
100 - M4	X 7	X 6 to 16MM
100 - M5	X 8	X 6 to 16MM
30 - M6	X 1.00	X 8 to 16MM
200 - Metric Nuts & Washers		



MICRO PLASTICS' MOLDED NYLON 6/6 FASTENERS

MECHANICAL TEST DATA - UNC - UNF

INFO

Nylon 6/6 meets MIL-M20693B "A" Type 1, LP410A, and ASTM D789-66 Type 1, GDE 2

All test performed per ASTM specifications. Parts molded in Nylon 6/6, dry as molded, unmoisturized, at 73° F/23° C. Results are average of random parts tested.

MACHINE SCREWS

SIZE	ULTIMATE TORQUE	BEFORE DEFORMATION	TENSILE TEST MAX TORQUE		DOUBLE SHEAR	
			YIELD LBS.	BREAK LBS.	YIELD LBS.	BREAK LBS.
256	----- NO TEST -----	----- NO TEST -----	16	19	-----NO TEST -----	
440	24 In Oz.	12-16 In Oz.	38	41	45	50
632	30 In Oz.	18-20 In Oz.	65	69	91	97
832	5 In Lbs.	2-3 In Lbs.	99	108	158	164
1024	6 In Lbs.	2-4 In Lbs.	139	149	187	257
1032	7 In Lbs.	3-4 In Lbs.	155	165	234	241
1/4-20	13 In Lbs.	9-10 In Lbs.	296	312	413	432

HEX NUTS

SIZE	#1 TENSILE LBS.	#2 TENSILE TORQUE	RECOMMENDED TORQUE BEFORE DEFORMATION
440	85	2 In Lbs.	1.5 In Lbs.
632	135	5.2 In Lbs.	4 In Lbs.
832	172	6.8 In Lbs.	5 In Lbs.
1024	211	7 In Lbs.	5.5 In Lbs.
1032	276	8 In Lbs.	6.5 In Lbs.
1/4-20	311	19.3 In Lbs.	17 In Lbs.
5/16-18	877	44.3 In Lbs.	42 In Lbs.
3/8-16	994	74 In Lbs.	72 In Lbs.
1/2-13	2,367	15.7 Ft Lbs.	13 Ft Lbs.
5/8-11	3,487	31.7 Ft.Lbs.	30 Ft Lbs.

Test #1 Pull Test -Nylon Nut on Metal Screw Test #2 Torque on Nylon Nut on Metal Screw

CAP SCREWS

SIZE	ULTIMATE TORQUE	BEFORE DEFORMATION	TENSILE TEST MAX TORQUE		DOUBLE SHEAR	
			YIELD LBS.	BREAK LBS.	YIELD LBS.	BREAK LBS.
1/4-20	19 In Lbs.	15-16 In Lbs.	200	228	413	432
5/16-18	37 In Lbs.	32-34 In Lbs.	403	424	866	880
3/8-16	49 In Lbs.	45-46 In Lbs.	480	513	1108	1173
1/2-13	11 Ft. Lbs.	7-8 Ft. Lbs.	1393	1425	2276	2313
5/8-11	22 Ft. Lbs.	18-19 Ft. Lbs.	2260	2303	3340	3410

MICRO PLASTICS' MOLDED NYLON 6/6 FASTENERS MECHANICAL TEST DATA - METRIC

INFO

Data listed if for informational purposes only shall not be used to establish specifications limits or used alone as the basis of design.

MACHINE SCREWS

SIZE	ULTIMATE TORQUE	BEFORE DEFORMATION	TENSILE TEST MAX TORQUE		DOUBLE SHEAR	
			YIELD LBS.	BREAK LBS.	YIELD LBS.	BREAK LBS.
M2 X .4	NO TEST	NO TEST	712 N.	N/B	89 N.	116 N.
M2.5 X .45	NO TEST	NO TEST	8.9 N.	N/B	156 N.	169 N.
M3 X .5	.32 Nm.	.2-.26 Nm.	22 N.	N/B	294 N.	329 N.
M3.5 X .6	.43 N.	.28-.34 Nm.	53 N.	N/B	378 N.	405 N.
M4 X .7	.45Nm.	.36-.43 Nm.	214 N.	N/B	600 N.	636 N.
M5 X .8	.93 Nm.	.73-.79 Nm.	271 N.	N/B	1081 N.	1134 N.
M6 X .1	1.83 Nm.	1.41-1.47 Nm.	845 N.	912 N.	1806 N.	1877 N.
M8 X 1.25	3.39 Nm.	2.45-2.82 Nm.	1.677 N.	1744 N.	2980 N.	3034 N.
M10 X 150	5.31 Nm.	4.52 - 4.86 Nm.	2749 N.	N/B	5026 N.	5280 N.

HEX NUTS


SIZE	TENSILE	ULTIMATE TORQUE
M2	NO TEST	NO TEST
M2.5	135.23 N.	NO TEST
M3	142.34 N.	NO TEST
M3.5	369.20 N.	2.3 CM/KG
M4	451.94 N.	4.5 CM/KG
M5	940.35 N.	8.3
M6	1556.65 N.	17.6 CM/KG
M8	2597.76 N.	56.2 CM/KG
M10	6283.11 N.	89.93 CM/KG


NYLON 6/6 MECHANICAL PROPERTIES (73° F / 23° C)


Tensile Strength	D638	12,000psi	82.7 MPa
Elongation	D638	60%	60%
Shear Strength	D732	9,600psi	66.2 MPa
Flexural Modulus	D790	410,000psi	2,287 MPa
Impact Strength	D256	1.0 ft/lb/in	5.5 kg/cm ²
Hardness	D785	R121	M79
Specific gravity	D792	1.13	1.13
Melting Point	D789	500 F	260 ° C
Dielectric Strength	D149	600 v/mil	10 OHM-CM
Underwriters Laboratory Rating	BUL 94	94V2	94V2


TOLERANCES AND QUALITY OF INJECTION MOLDED NYLON SCREWS


Micro Plastics' molded nylon components are accurately molded of Type 6/6 Nylon. They are tough, resistant to corrosion, light weight and good electrical insulators. Nylon components conform to irregular surfaces, provide vibration dampening, and offer an inexpensive alternative to more expensive metal parts. Molded threads approximate UNC/UNF 2A and 2B. Metric approximate 6g/6H.


 Tolerances are generally held to Industrial Fasteners Institute Standards for inch and metric screws. However, it is often more sensible to try samples or small order quantities before changing from one product to another. Plastic molding has varying degrees of quality. It often involves small amounts of flash, knockout pin marks, gates, sinks, and other slight imperfections. Screws and bolts are gated on the threaded end. It is possible for the gate to leave an extra projection of up to .025"

 Nylon screws have been available for many years commercially. They are either machined on a screw machine or injection molded. The machined parts are made from extruded nylon rod stock and can be held to relatively close tolerances during the machining process. Nylon, however, has the unfortunate property of absorbing moisture from its environment which causes significant changes in its dimensions. So even though parts may have been accurately machined, a moist atmosphere can cause fit problems. Conversely, parts that have been moisture conditioned can "lose" moisture causing dimensional problems. If the overall length of a screw grows, it obviously affects the threads per inch thus causing a tight fit. Changes in the moisture content can also have an affect on the outside diameter, pitch diameter and the root diameter.

 Injection molded nylon screws also suffer from moisture problems but in addition, have inherent tooling problems. All molded nylon screws come from mold cavities parted along the length of the screw. These cavities have two halves that must be matched exactly to produce a perfect part. The cavity halves are doweled together with leader pins when the mold closes to provide the match required. Other locking devices are also employed to hold the halves of the mold in alignment. In the course of molding production quantities, these leader pins and locks suffer some wear. The mold base holding the cavities wears. The molding machine wears causing slight press platen misalignment. Small amounts of dirt on the mold can cause slight mismatch. From the time the tooling begins to run in production, the entire process begins to work against perfect alignment. Mold temperature changes from room temperature to production temperature causes the mismatch condition to worsen. At some point in time, the various factors affecting mismatch reach a condition that causes the molded screw to be unsatisfactory for the user. Then it is necessary to rework the mold to bring it up to its original condition. Since nylon is somewhat flexible, generally molded nylon screws are not held to as quite close tolerances as metal screws. A slight mismatch and minor flash at the parting line is not as serious as it would be in a metal part. End users who submit nylon screws to go-no go gages without trying the fastener in its actual functional application are generally causing unnecessary difficulties for themselves and their supplier. The fact is that because of the many areas of potential process variables, nylon screws made by injection molding are simply not measurable by the same methods as metal screws. They just are not capable of being manufactured to as close tolerances as metal screws.

 The development of the tooling for nylon screws, plus the molded conditions, is a carefully kept secret. Tooling such as this is an evolutionary process. The quality of parts being manufactured today with today's tooling is obviously superior to those made in the beginning. Slight improvements have gradually been made over the years. Since we have production tooling for nearly 3,000 sizes, if we make tooling improvements it is not practical to go back and remake 3,000 molds each time we make an improvement. We do, however, rework and replace as we go along any obviously unsatisfactory tooling. This is a continual process with new sizes being added constantly and at the same time remaking tooling whenever the circumstances require it.

 Occasionally, a few unacceptable parts may escape our quality control procedures. If you receive unsuitable parts, let us know immediately. We will do whatever we can to correct them.

 All nylon screws are molded in a natural color resin. If you require black color, or some other identifying color (not a color match) these parts are made by dyeing the nylon screw with "RIT" dye in a water solution held at about 200 ° F. which adds color but also moisture to the nylon. As stated previously, nylon screws change considerably with the loss or gain of moisture. Nylon screw, as they come from the molding machine contain about .5% moisture. After dyeing in a "RIT" dye, the moisture content increases to about 3-4%. Low moisture nylon is more rigid than moisture conditioned material. Impact strength and toughness increases with moisture addition. Flexibility also increases with higher moisture content which causes difficulties for the user on occasion. If you need a solid molded color, a closer than normal tolerance a special grade of nylon or other plastic material, we can furnish whatever variation or specialty using special molds and set up. This, of course, adds considerably to the cost. We are here to serve you, so tell us what you need.

TOLERANCES OF INJECTION MOLDED NYLON STANDARD COMPONENTS

+/- .005 ON DIMENSIONS THRU .625

+/- .008 ON DIMENSIONS FROM .626 THRU 1.000

+/- .010 ON DIMENSIONS FROM 1.001 THRU 1.500

+/- .015 ON DIMENSIONS LARGER THAN 1.500

+/- .015 ON FRACTIONAL DIMENSIONS

+/- .13MM ON DIMENSIONS THRU 15.88MM

+/- .20MM ON DIMENSIONS FROM 15.89MM THRU 25.41MM

+/- .25MM ON DIMENSIONS FROM 25.42MM THRU 38.10MM

+/- .38MM ON DIMENSIONS LARGER THAN 38.10MM



MINIMUM ORDER \$100.00
MINIMUM LINE CHARGE \$10.00

INFO

**PLEASE MARK ALL TELEPHONE ORDERS
 "CONFIRMING" TO AVOID POSSIBLE DUPLICATION.**

General - 1% 10 net 30. FOB Flippin, Arkansas, No transportation allowed. Shipping method to be at seller's discretion unless buyer specifies routing. Shipments will not be insured unless requested by buyer. Buyer will bear cost of insurance and any other unusual transportation cost. Orders will be acknowledged with our standard terms of sale current at the time order is placed.

Prices - Quantity prices apply only to orders for parts which can be produced in one production run and are scheduled for release within a 60 day period from the first scheduled production run.

Prices - We reserve the right to increase prices when a careful review of our costs indicates a need for additional revenue.

Tooling - We will maintain tooling for a reasonable time in accordance with good industry practice. Molds that will not produce acceptable parts after reasonable maintenance will be subject to negotiation.

Tooling is not insured unless specifically requested. In those cases an additional charge will be made for insurance cost. Delivery - Unless otherwise specifically provided in writing, delivery of the products hereunder shall be FOB point of shipment. In all cases, risk of loss or damage to goods in transit shall fall upon the purchaser, whose responsibility it shall be to file claims with the carrier.

Shipping dates are approximate and are based upon the prompt receipt of all necessary information. We shall not be liable for delay in delivery due to causes beyond our reasonable control.

Cancellation - Orders are not subject to cancellation, change, reduction in amount, or suspension of deliveries except with our consent and upon terms which protect us from loss.

Patents - The Purchaser shall hold us harmless against any expense or loss resulting from infringement of patents or trademarks arising from compliance with Purchaser's designs or specifications or instructions. Quantity - All parts are accurately counted on sophisticated electronic scales compensated for slight weight variations due to minor mold cavity differentials. Custom part shipments are subject to a +/- 10% order quantity variation.

Returned Material Authorization - If parts are found to deviate beyond tolerances, mail samples back to us with your report, we will then, upon our findings issue a RMA number. **NO MATERIAL** will be accepted for credit without a RMA. Unauthorized returns will be shipped back and re invoiced with a minimum handling charge of \$50.00 added.

Claims - Inspect all shipments within 15 days of the date of shipment. Failure to advise us of defects on shipments within the 15-day period will constitute acceptance of the shipment.

Any purchase order with terms or clauses which are in conflict with the terms listed above, and/or any order with terms other than those listed herein is voidable by Micro Plastics, Inc. We reserve the right to discontinue items, change specifications or design at any time without notice and without incurring any obligations.

CAUTION: All shipments are moisture packed. Do not open sealed package until use, reseal after opening.



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