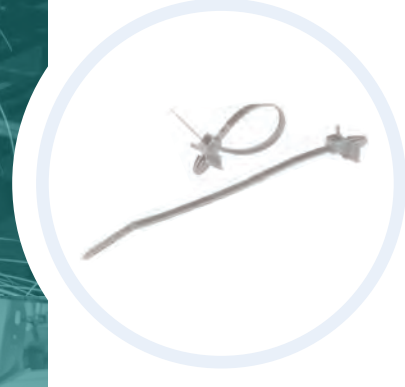
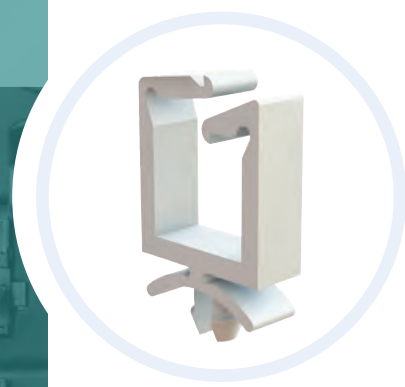




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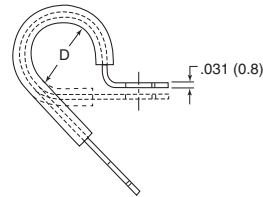
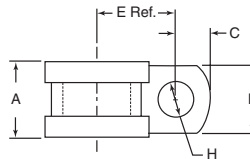
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CABLE CLAMPS

SPN/SPNW Series
Steel Clamps with Rubber Cushion

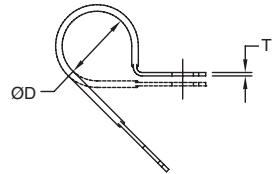
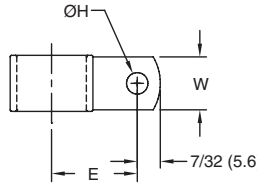
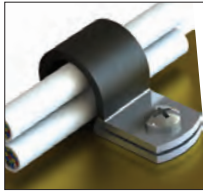
- Specifications:
- Material: Cold Rolled Steel, Zinc Electroplated, Elastomer Cushion
 - Color: Steel with Black Cushion

- Features:
- Provides electrical insulation and vibration absorption
 - Ideal for long-life applications



Item No.	Ø D Holding		Ø H Hole		B		A		E Ref.		C		Bulk Pack Qty
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	
SPN-3	3/16	4.8	0.266	6.7	0.500	12.7	0.650	16.5	0.500	12.7	0.260	6.6	500
SPN-4	1/4	6.4	0.266	6.7	0.500	12.7	0.650	16.5	0.530	13.5	0.260	6.6	500
SPNW-4	1/4	6.4	0.406	10.3	0.625	15.9	0.750	19.1	0.530	13.5	0.313	7.9	100
SPN-5	5/16	7.9	0.266	6.7	0.500	12.7	0.650	16.5	0.560	14.2	0.260	6.6	500
SPNW-5	5/16	7.9	0.406	10.3	0.625	15.9	0.750	19.1	0.560	14.2	0.313	7.9	100
SPN-6	3/8	9.5	0.266	6.7	0.500	12.7	0.650	16.5	0.590	15	0.260	6.6	500
SPNW-6	3/8	9.5	0.406	10.3	0.625	15.9	0.750	19.1	0.590	15	0.313	7.9	100
SPN-7	7/16	11.1	0.266	6.7	0.500	12.7	0.650	16.5	0.620	15.7	0.260	6.6	500
SPNW-7	7/16	11.1	0.406	10.3	0.625	15.9	0.750	19.1	0.620	15.7	0.313	7.9	100
SPN-8	1/2	12.7	0.266	6.7	0.500	12.7	0.650	16.5	0.650	16.5	0.260	6.6	500
SPNW-8	1/2	12.7	0.406	10.3	0.625	15.9	0.750	19.1	0.650	16.5	0.313	7.9	100
SPN-9	9/16	14.3	0.266	6.7	0.500	12.7	0.650	16.5	0.750	19.1	0.260	6.6	500
SPN-10	5/8	15.9	0.266	6.7	0.500	12.7	0.650	16.5	0.780	19.8	0.260	6.6	500
SPNW-10	5/8	15.9	0.406	10.3	0.625	15.9	0.750	19.1	0.780	19.8	0.313	7.9	100
SPN-11	11/16	17.5	0.266	6.7	0.500	12.7	0.650	16.5	0.810	20.6	0.260	6.6	500
SPNW-11	11/16	17.5	0.406	10.3	0.625	15.9	0.750	19.1	0.810	20.6	0.313	7.9	100
SPN-12	3/4	19.1	0.266	6.7	0.500	12.7	0.650	16.5	0.840	21.3	0.260	6.6	500
SPN-14	7/8	22.2	0.266	6.7	0.500	12.7	0.650	16.5	0.900	22.9	0.260	6.6	100
SPNW-14	7/8	22.2	0.406	10.3	0.625	15.9	0.750	19.1	0.900	22.9	0.313	7.9	100
SPN-16	1	25.4	0.266	6.7	0.500	12.7	0.650	16.5	0.960	24.4	0.260	6.6	100
SPNW-16	1	25.4	0.406	10.3	0.625	15.9	0.750	19.1	0.960	24.4	0.313	7.9	100
SPN-18	1-1/8	28.6	0.266	6.7	0.500	12.7	0.650	16.5	1.050	26.7	0.260	6.6	100
SPN-20	1-1/4	31.8	0.266	6.7	0.500	12.7	0.650	16.5	1.110	28.2	0.260	6.6	100
SPNW-20	1-1/4	31.8	0.406	10.3	0.625	15.9	0.750	19.1	1.110	28.2	0.313	7.9	100

NE Series
Aluminum Clamps with Vinyl Coating

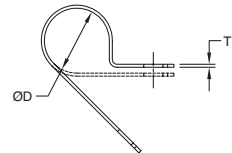
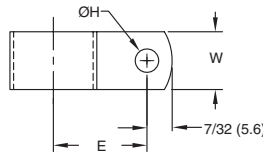
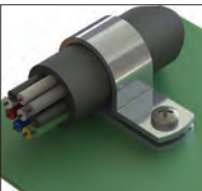


- Specifications:
- Material: Aluminum Alloy 5052 H-32, TPV Coating
 - Color: Aluminum with Black Coating

- Features:
- Vinyl coating allows a more permanent solution for protecting cables against vibration
 - Screw mount area is bare to ensure firm tightening

Item No.	Ø D Holding		Ø H Hole		W		E Ref.		T		Bulk Pack Qty
	in	mm	in	mm	in	mm	in	mm	in	mm	
NE3	3/16	4.8	0.204	5.2	0.375	9.5	0.50	12.7	1/32	0.8	1000
NE4	1/4	6.4	0.204	5.2	0.375	9.5	0.53	13.5	1/32	0.8	1000
NE5	5/16	7.9	0.204	5.2	0.375	9.5	0.56	14.2	1/32	0.8	1000
NE6	3/8	9.5	0.204	5.2	0.375	9.5	0.59	15.0	1/32	0.8	1000
NE7	7/16	11.1	0.204	5.2	0.375	9.5	0.62	15.7	1/32	0.8	1000
NE8	1/2	12.7	0.204	5.2	0.375	9.5	0.65	16.5	1/32	0.8	1000
NE9	9/16	14.3	0.204	5.2	0.375	9.5	0.75	19.1	1/32	0.8	1000
NE10	5/8	15.9	0.204	5.2	0.375	9.5	0.78	19.8	1/32	0.8	1000
NE11	11/16	17.5	0.204	5.2	0.500	12.7	0.81	20.6	1/16	1.6	500
NE12	3/4	19.1	0.204	5.2	0.500	12.7	0.84	21.3	1/16	1.6	500
NE14	7/8	22.2	0.204	5.2	0.500	12.7	0.90	22.9	1/16	1.6	500
NE16	1	25.4	0.204	5.2	0.500	12.7	0.96	24.4	1/16	1.6	500
NE18	1-1/8	28.6	0.204	5.2	0.500	12.7	1.05	26.7	1/16	1.6	500
NE20	1-1/4	31.8	0.204	5.2	0.500	12.7	1.11	28.2	1/16	1.6	500

AL Series
Aluminum Clamps



- Specifications:
- Material: Aluminum Alloy 5052 H-32
 - Color: Aluminum

- Features:
- Corrosion resistant
 - Protects and holds cable, wire, hoses and loom

Item No.	Ø D Holding		Ø H Hole		W		E Ref.		T		Bulk Pack Qty
	in	mm	in	mm	in	mm	in	mm	in	mm	
AL2A	1/8	3.2	0.204	5.2	0.375	9.5	0.46	11.7	1/32	0.8	1000
AL3A	3/16	4.8	0.204	5.2	0.375	9.5	0.50	12.7	1/32	0.8	1000
AL4A	1/4	6.4	0.204	5.2	0.375	9.5	0.53	13.5	1/32	0.8	1000
AL5A	5/16	7.9	0.204	5.2	0.375	9.5	0.56	14.2	1/32	0.8	1000
AL6A	3/8	9.5	0.204	5.2	0.375	9.5	0.59	15.0	1/32	0.8	1000
AL7A	7/16	11.1	0.204	5.2	0.375	9.5	0.62	15.7	1/32	0.8	1000
AL8A	1/2	12.7	0.204	5.2	0.375	9.5	0.65	16.5	1/32	0.8	1000
AL9A	9/16	14.3	0.204	5.2	0.375	9.5	0.75	19.1	1/32	0.8	1000
AL10A	5/8	15.9	0.204	5.2	0.375	9.5	0.78	19.8	1/32	0.8	1000
AL11	11/16	17.5	0.204	5.2	0.500	12.7	0.81	20.6	1/32	0.8	500
AL12	3/4	19.1	0.204	5.2	0.500	12.7	0.84	21.3	1/32	0.8	500
AL14	7/8	22.2	0.204	5.2	0.500	12.7	0.90	22.9	1/32	0.8	500
AL16	1	25.4	0.204	5.2	0.500	12.7	0.96	24.4	1/16	1.6	500
AL18	1-1/8	28.6	0.204	5.2	0.500	12.7	1.05	26.7	1/16	1.6	500
AL20	1-1/4	31.8	0.204	5.2	0.500	12.7	1.11	28.2	1/16	1.6	500

CABLE CLAMPS

WHC Series
Wire Harness Clamps

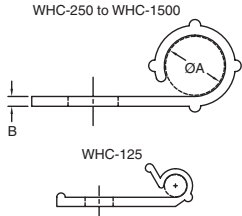
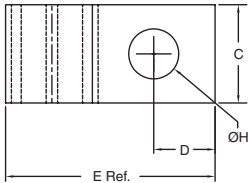
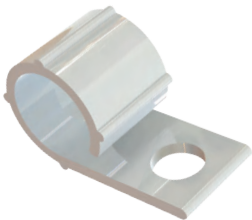


Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: See Table

Features:

- Can be preinstalled to chassis with cables inserted at a later time
- Cables can be removed for wiring changes or replacements



Item No.		Approval	Ø A Holding		Ø H Hole		C		B		D		E Ref.		Bulk Pack Qty
Natural	Black		in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	
WHC-125-01	WHC-125-01BK		0.125	3.2	0.156	4.0	0.33	8.4	0.05	1.3	0.23	5.8	0.750	19.1	1000
WHC-250-01	WHC-250-01BK		0.250	6.4	0.204	5.2	0.40	10.2	0.04	1.0	0.25	6.4	0.830	21.1	1000
WHC-375-01	WHC-375-01BK		0.375	9.5	0.204	5.2	0.40	10.2	0.05	1.3	0.19	4.8	0.830	21.1	1000
WHC-500-01	WHC-500-01BK		0.500	12.7	0.204	5.2	0.40	10.2	0.07	1.8	0.25	6.4	1.156	29.4	1000
WHC-625-01	WHC-625-01BK		0.625	15.9	0.204	5.2	0.50	12.7	0.08	2.0	0.19	4.8	1.125	28.6	1000
WHC-750-01	WHC-750-01BK		0.750	19.1	0.204	5.2	0.50	12.7	0.09	2.2	0.19	4.8	1.281	32.5	1000
WHC-1000-01	WHC-1000-01BK		1.000	25.4	0.204	5.2	0.50	12.7	0.09	2.2	0.19	4.8	1.531	38.9	500
WHC-1500-01	WHC-1500-01BK		1.500	38.1	0.204	5.2	0.50	12.7	0.10	2.5	0.19	4.8	2.125	53.9	500

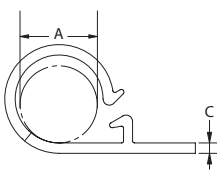
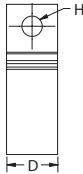
EXWHC Series
Wire Harness Clamps

Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:

- Cables are easily inserted into clamp and locked in place
- Cables can be removed for wiring change or replacements



* No latch feature

Item No.	Ø A Holding		Ø H Hole		C		D Ref.		Bulk Pack Qty
	in	mm	in	mm	in	mm	in	mm	
EXWHC2-250-01*	0.250	6.4	0.156	4.0	0.039	1.0	0.394	10.0	1000
EXWHC2-500-01	0.500	12.7	0.156	4.0	0.075	1.9	0.394	10.0	1000
EXWHC2-750-01	0.708	18.0	0.156	4.0	0.075	1.9	0.500	12.7	1000

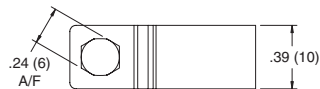
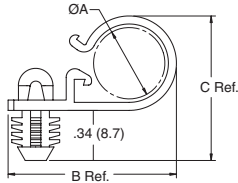
BHLWHC Series
Blind Hole Mounted Clamps

Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:

- Easily pushed into mounting hole using a standard 6mm hexagonal socket pressed onto mounting head
- Releasable and reusable for easy wire bundling



Item No.	Ø A Holding		Ø Mounting Hole		B Ref.		C Ref.		Min. Panel Thickness		Bulk Pack Qty
	in	mm	in	mm	in	mm	in	mm	in	mm	
BHLWHC-500-01	0.500	12.7	0.312	7.9	1.150	29.3	1.000	25.4	0.250	6.4	1000
BHLWHC-750-01	0.750	19.1	0.312	7.9	1.440	36.5	1.340	34.1	0.250	6.4	1000

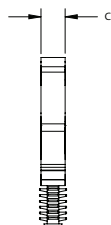
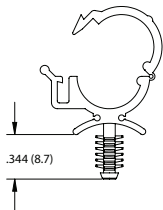
23RCFB Series
Releasable Clamps

Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: See Table

Features:

- Wires can easily be removed or added to the clip
- Can be used in a variety of panel thicknesses and materials
- Large contoured base assures stable mounting
- Corrosion, vibration and abrasion resistant



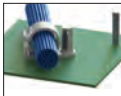
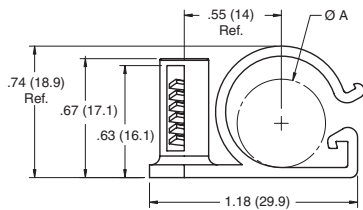
Item No.		Ø Bundle		Ø Mounting Hole		C		Bulk Pack Qty
Natural	Black	in	mm	in	mm	in	mm	
23RCFB037	23RCFB037B	0.375	9.5	0.187	4.8	0.187	4.8	1000
23RCFB050	23RCFB050B	0.500	12.7	0.187	4.8	0.187	4.8	1000
23RCFB05025	23RCFB05025B	0.500	12.7	0.250	6.4	0.187	4.8	1000
23RCFB100	23RCFB100B	1.000	25.4	0.250	6.4	0.375	9.5	250

CABLE CLAMPS & CLIPS

SMWHC Series
Stud Mount Wire Harness Clips

- Specifications:
- Material: UL94 V-2 Nylon 6/6
 - Color: Natural

- Features:
- Installed by pushing clamp onto an exposed screw or stud
 - No protrusion under the chassis
 - Fits several different threads; M4, M5, #8, or #10

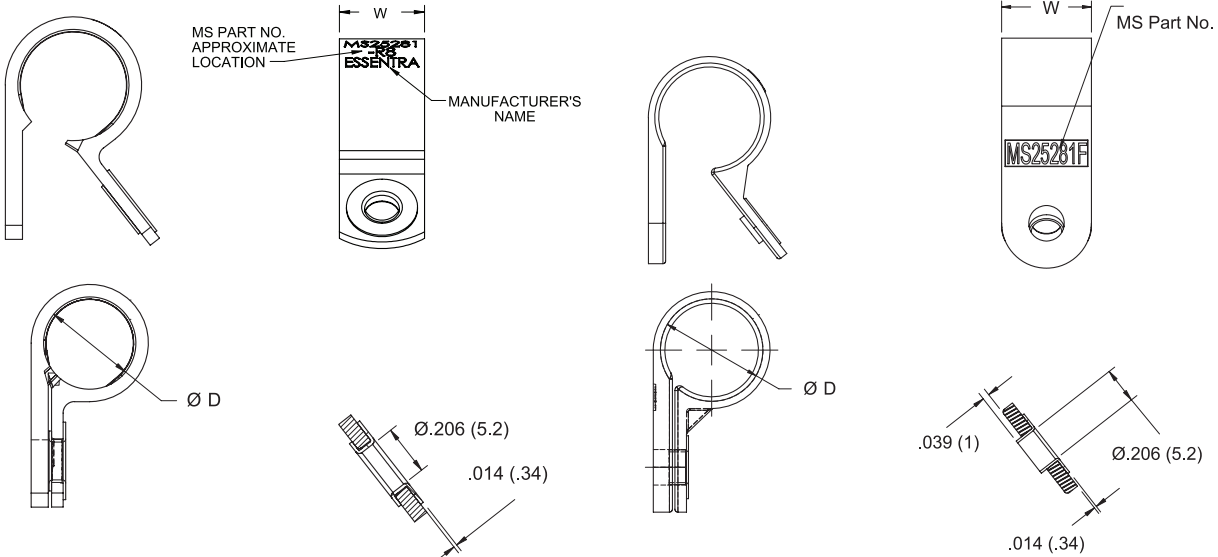


Item No.	Ø A Holding		Mounting Method	Bulk Pack Qty
	in	mm		
SMWHC-500-01	0.500	12.7	Push onto a #8, #10, M4 or M5 Screw or Stud	500

NM-MS25281 Series
Heavy Duty Support Clamps



- Specifications:
- Material: UL94 V-2 Heat Stabilized Nylon, conforms to MIL-M-20693/ASTM D-4066 Eyelet: Aluminum, anodized in accordance with MIL-A-8625
 - Color: Green
- Features:
- Qualified to MS25281
 - Strong and durable part design built for heavy duty cable applications
 - NM-R series has a rib running around the inside of the clamp to grip bundle; NM-F series has no rib inside clamp
 - NM-R eyelet is crimped to the top leg; the NM-F eyelet's legs protrude all the way through the bottom hole



NM-R

NM-F

Item No.	MS Part Number	Ø D Holding		Recommended Mounting Screw	W		E		Bulk Pack Qty
		in	mm		in	mm	in	mm	
NM-3-R3	MS25281-R3	3/16	4.8	#10 or M5	0.503	12.8	0.485	12.3	500
NM-4-R4	MS25281-R4	1/4	6.4	#10 or M5	0.503	12.8	0.510	13.0	500
NM-5-R5	MS25281-R5	5/16	7.9	#10 or M5	0.503	12.8	0.546	13.9	500
NM-6-R6	MS25281-R6	3/8	9.5	#10 or M5	0.503	12.8	0.578	14.7	500
NM-7-R7	MS25281-R7	7/16	11.1	#10 or M5	0.503	12.8	0.608	15.4	500
NM-8-R8	MS25281-R8	1/2	12.7	#10 or M5	0.503	12.8	0.639	16.2	500
NM-9-R9	MS25281-R9	9/16	14.3	#10 or M5	0.503	12.8	0.661	16.8	500
NM-10-R10	MS25281-R10	5/8	15.9	#10 or M5	0.553	14.1	0.706	17.9	500
NM-11-R11	MS25281-R11	11/16	17.5	#10 or M5	0.553	14.1	0.785	19.9	500
NM-12-R12	MS25281-R12	3/4	19.1	#10 or M5	0.553	14.1	0.816	20.7	500
NM-13-R13	MS25281-R13	13/16	20.6	#10 or M5	0.553	14.1	0.827	21.0	500
NM-14-R14	MS25281-R14	7/8	22.2	#10 or M5	0.553	14.1	0.878	22.3	500
NM-16-R16	MS25281-R16	1	25.4	#10 or M5	0.553	14.1	0.941	23.9	500
NM-18-R18	MS25281-R18	1-1/8	28.6	#10 or M5	0.553	14.1	0.983	25.0	500
NM-20-R20	MS25281-R20	1-1/4	31.8	#10 or M5	0.553	14.1	1.006	27.1	100
NM-22-R22	MS25281-R22	1-3/8	34.9	#10 or M5	0.553	14.1	1.110	28.2	100
NM-24-R24	MS25281-R24	1-1/2	38.1	#10 or M5	0.553	14.1	1.170	29.7	100
NM-26-R26	MS25281-R26	1-5/8	41.3	#10 or M5	0.553	14.1	1.250	31.8	100
NM-28-R28	MS25281-R28	1-3/4	44.5	#10 or M5	0.553	14.1	1.300	33.0	100
NM-3-F3	MS25281-F3	3/16	4.8	#10 or M5	0.500	12.7	0.498	12.6	500
NM-4-F4	MS25281-F4	1/4	6.4	#10 or M5	0.500	12.7	0.529	13.4	500
NM-5-F5	MS25281-F5	5/16	7.9	#10 or M5	0.500	12.7	0.560	14.2	500
NM-6-F6	MS25281-F6	3/8	9.5	#10 or M5	0.500	12.7	0.592	15.0	500
NM-7-F7	MS25281-F7	7/16	11.1	#10 or M5	0.500	12.7	0.623	15.8	500
NM-8-F8	MS25281-F8	1/2	12.7	#10 or M5	0.500	12.7	0.654	16.6	500
NM-10-F10	MS25281-F10	5/8	15.9	#10 or M5	0.600	15.2	0.783	19.9	500
NM-13-F13	MS25281-F13	13/16	20.6	#10 or M5	0.600	15.2	0.877	22.3	500

CABLE CLAMPS

N/22CC/CCL Series
Cable Clamps

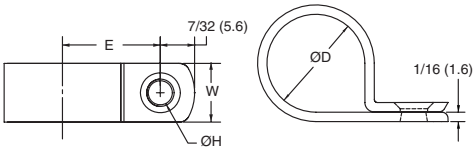


Specifications:

- Material: Nylon 6/6
- Color: See Table

Features:

- Designed to secure wires and cables in place
- Clamp down and screw clamp to chassis to secure



Item No.				Ø D Holding		Ø H Hole		W		E		Bulk Pack Qty
Natural UL94 V-2	Black UL94 V-2	Natural UL94 V-0	Approval	in	mm	in	mm	in	mm	in	mm	
22CC16A0062	22CC16A0062B	—	⚡	0.063	1.6	0.096	2.4	0.156	4.0	0.187	4.8	1000
N-1	N-1-BK	N-1-19	—	0.063	1.6	0.125	3.2	0.375	9.5	0.270	6.9	1000
22CC16A0093	22CC16A0093B	—	⚡	0.094	2.3	0.096	2.4	0.156	4.0	0.203	5.2	1000
22CC16A0125	22CC16A0125B	—	⚡	0.125	3.2	0.096	2.4	0.156	4.0	0.217	5.5	1000
22CC37B0125	22CC37B0125B	—	⚡	0.125	3.2	0.140	3.6	0.375	9.5	0.329	8.4	5000
22CC37C0125	22CC37C0125B	—	⚡	0.125	3.2	0.167	4.2	0.375	9.5	0.329	8.4	5000
22CC50C0125	22CC50C0125B	—	⚡	0.125	3.2	0.167	4.2	0.500	12.7	0.315	8.0	5000
N-2	N-2-BK	N-2-19	—	0.125	3.2	0.172	4.4	0.375	9.5	0.328	8.3	1000
CCL001A	—	—	—	0.125	3.2	0.188	4.8	0.377	9.6	0.374	9.5	100
22CC37D0125	22CC37D0125B	—	⚡	0.125	3.2	0.203	5.2	0.375	9.5	0.329	8.4	5000
22CC50D0125	22CC50D0125B	—	⚡	0.125	3.2	0.203	5.2	0.500	12.7	0.315	8.0	5000
N-2B	N-2B-BK	N-2B-19	—	0.125	3.2	0.204	5.2	0.500	12.7	0.328	8.3	1000
22CC16A0156	22CC16A0156B	—	⚡	0.156	4.0	0.096	2.4	0.156	4.0	0.233	5.9	1000
22CC16A0187	22CC16A0187B	—	⚡	0.188	4.8	0.096	2.4	0.156	4.0	0.250	6.4	1000
22CC37B0187	22CC37B0187B	—	⚡	0.188	4.8	0.140	3.6	0.375	9.5	0.430	10.9	5000
22CC37B0187E	22CC37B0187EB	—	⚡	0.188	4.8	0.140	3.6	0.375	9.5	0.378	9.6	5000
22CC37C0187	22CC37C0187B	—	⚡	0.188	4.8	0.167	4.2	0.375	9.5	0.430	10.9	5000
22CC37C0187E	22CC37C0187EB	—	⚡	0.188	4.8	0.167	4.2	0.375	9.5	0.378	9.6	5000
22CC50C0187	22CC50C0187B	—	⚡	0.188	4.8	0.167	4.2	0.500	12.7	0.425	10.8	4000
22CC37D0187	22CC37D0187B	—	⚡	0.188	4.8	0.203	5.2	0.375	9.5	0.430	10.9	5000
22CC37D0187E	22CC37D0187EB	—	⚡	0.188	4.8	0.203	5.2	0.375	9.5	0.378	9.6	5000
22CC50D0187	22CC50D0187B	—	⚡	0.188	4.8	0.203	5.2	0.500	12.7	0.425	10.8	4000
N-3	N-3-BK	N-3-19	—	0.188	4.7	0.172	4.4	0.375	9.5	0.391	9.9	1000
CCL002A	—	—	—	0.188	4.7	0.188	4.7	0.377	9.6	0.413	10.5	100
N-3B	N-3B-BK	N-3B-19	—	0.188	4.7	0.204	5.2	0.500	12.7	0.391	9.9	1000
22CC28E0250	22CC28E0250B	—	⚡	0.250	6.4	0.128	3.3	0.281	7.1	0.337	8.6	1000
22CC37B0250	22CC37B0250B	—	⚡	0.250	6.4	0.140	3.6	0.375	9.5	0.410	10.4	4000
22CC37C0250	22CC37C0250B	—	⚡	0.250	6.4	0.167	4.2	0.375	9.5	0.410	10.4	4000
22CC50C0250	22CC50C0250B	—	⚡	0.250	6.4	0.167	4.2	0.500	12.7	0.410	10.4	3000
N-4	N-4-BK	N-4-19	—	0.250	6.4	0.172	4.4	0.375	9.5	0.422	10.7	1000
CCL003A	—	—	—	0.250	6.4	0.181	4.6	0.393	10.0	0.394	10.0	100
22CC37D0250	22CC37D0250B	—	⚡	0.250	6.4	0.203	5.2	0.375	9.5	0.410	10.4	4000
22CC50D0250	22CC50D0250B	—	⚡	0.250	6.4	0.203	5.2	0.500	12.7	0.410	10.4	3000
N-4B	N-4B-BK	N-4B-19	—	0.250	6.4	0.204	5.2	0.500	12.7	0.422	10.7	1000
22CC28E0312	22CC28E0312B	—	⚡	0.313	7.9	0.128	3.3	0.281	7.1	0.360	9.1	1000
22CC37B0312	22CC37B0312B	—	⚡	0.313	7.9	0.140	3.6	0.375	9.5	0.495	12.6	3000
22CC37C0312	22CC37C0312B	—	⚡	0.313	7.9	0.167	4.2	0.375	9.5	0.495	12.6	3000
22CC50C0312	22CC50C0312B	—	⚡	0.313	7.9	0.167	4.2	0.500	12.7	0.500	12.7	2500
22CC37D0312	22CC37D0312B	—	⚡	0.313	7.9	0.203	5.2	0.375	9.5	0.495	12.6	3000
22CC50D0312	22CC50D0312B	—	⚡	0.313	7.9	0.203	5.2	0.500	12.7	0.500	12.7	2500
N-5	N-5-BK	N-5-19	—	0.313	7.9	0.172	4.4	0.375	9.5	0.453	11.5	1000
CCL004A	—	—	—	0.313	7.9	0.181	4.6	0.393	10.0	0.472	12.0	100
N-5B	N-5B-BK	N-5B-19	—	0.313	7.9	0.204	5.2	0.500	12.7	0.453	11.5	1000
22CC28E0375	22CC28E0375B	—	⚡	0.375	9.5	0.128	3.3	0.281	7.1	0.400	10.2	1000
22CC37B0375	22CC37B0375B	—	⚡	0.375	9.5	0.140	3.6	0.375	9.5	0.595	15.1	2500
22CC37C0375	22CC37C0375B	—	⚡	0.375	9.5	0.167	4.2	0.375	9.5	0.595	15.1	2500
22CC50C0375	22CC50C0375B	—	⚡	0.375	9.5	0.167	4.2	0.500	12.7	0.530	13.5	2000
N-6	N-6-BK	N-6-19	—	0.375	9.5	0.172	4.4	0.375	9.5	0.484	12.3	1000
CCL005A	—	—	—	0.375	9.5	0.181	4.6	0.472	12.0	0.492	12.5	100
22CC37D0375	22CC37D0375B	—	⚡	0.375	9.5	0.203	5.2	0.375	9.5	0.595	15.1	2500
22CC50D0375	22CC50D0375B	—	⚡	0.375	9.5	0.203	5.2	0.500	12.7	0.530	13.5	2000
N-6B	N-6B-BK	N-6B-19	—	0.375	9.5	0.204	5.2	0.500	12.7	0.484	12.3	1000
22CC50G0375	22CC50G0375B	—	⚡	0.375	9.5	0.250	6.4	0.500	12.7	0.585	14.9	2000
22CC37B0437	22CC37B0437B	—	⚡	0.438	11.1	0.140	3.6	0.375	9.5	0.574	14.6	2000
22CC37C0437	22CC37C0437B	—	⚡	0.438	11.1	0.167	4.2	0.375	9.5	0.574	14.6	2000
22CC50C0437	22CC50C0437B	—	⚡	0.438	11.1	0.167	4.2	0.500	12.7	0.560	14.2	3000
22CC37D0437	22CC37D0437B	—	⚡	0.438	11.1	0.203	5.2	0.375	9.5	0.574	14.6	2000
22CC50D0437	22CC50D0437B	—	⚡	0.438	11.1	0.203	5.2	0.500	12.7	0.560	14.2	3000
N-7	N-7-BK	N-7-19	—	0.438	11.1	0.172	4.4	0.375	9.5	0.531	13.5	1000
N-7B	N-7B-BK	N-7B-19	—	0.438	11.1	0.204	5.2	0.500	12.7	0.531	13.5	1000
22CC37B0500	22CC37B0500B	—	⚡	0.500	12.7	0.140	3.6	0.375	9.5	0.605	15.4	4000
22CC37C0500	22CC37C0500B	—	⚡	0.500	12.7	0.167	4.2	0.375	9.5	0.605	15.4	4000
22CC50C0500	22CC50C0500B	—	⚡	0.500	12.7	0.167	4.2	0.500	12.7	0.595	15.1	2500
N-8	N-8-BK	N-8-19	—	0.500	12.7	0.172	4.4	0.375	9.5	0.563	14.3	1000

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CABLE CLAMPS

N/22CC/CCL Series (continued)
Cable Clamps

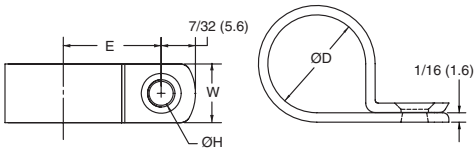


Specifications:

- Material: Nylon 6/6
- Color: See Table

Features:

- Designed to secure wires and cables in place
- Clamp down and screw clamp to chassis to secure



Item No.				Ø D Holding		Ø H Hole		W		E		Bulk Pack Qty
Natural UL94 V-2	Black UL94 V-2	Natural UL94 V-0	Approval	in	mm	in	mm	in	mm	in	mm	
CCL006A	—	—	—	0.500	12.7	0.196	5.0	0.472	12.0	0.598	15.2	100
22CC37D0500	22CC37D0500B	—	UL	0.500	12.7	0.203	5.2	0.375	9.5	0.605	15.4	4000
22CC50D0500	22CC50D0500B	—	UL	0.500	12.7	0.203	5.2	0.500	12.7	0.595	15.1	2500
N-8B	N-8B-BK	N-8B-19	—	0.500	12.7	0.204	5.2	0.500	12.7	0.563	14.3	1000
22CC50C0562	22CC50C0562B	—	UL	0.563	14.3	0.167	4.2	0.500	12.7	0.606	15.4	2500
22CC37D0562	22CC37D0562B	—	UL	0.563	14.3	0.203	5.2	0.375	9.5	0.606	15.4	3000
22CC50D0562	22CC50D0562B	—	—	0.563	14.3	0.203	5.2	0.500	12.7	0.606	15.4	2500
N-9B	N-9B-BK	N-9B-19	—	0.563	14.3	0.204	5.2	0.500	12.7	0.594	15.0	1000
22CC50C0625	22CC50C0625B	—	UL	0.625	15.9	0.167	4.2	0.500	12.7	0.655	16.6	2000
CCL007A	—	—	—	0.625	15.9	0.181	4.6	0.472	12.0	0.717	18.8	100
22CC37D0625	22CC37D0625B	—	UL	0.625	15.9	0.203	5.2	0.375	9.5	0.678	17.2	2500
22CC50D0625	22CC50D0625B	—	UL	0.625	15.9	0.203	5.2	0.500	12.7	0.655	16.6	2000
N-10B	N-10B-BK	N-10B-19	—	0.625	15.9	0.204	5.2	0.500	12.7	0.625	15.9	1000
22CC50C0687	—	—	UL	0.688	17.5	0.167	4.2	0.500	12.7	0.755	19.2	2000
22CC50D0687	22CC50D0687B	—	UL	0.688	17.5	0.203	5.2	0.500	12.7	0.755	19.2	2000
N-11B	N-11B-BK	N-11B-19	—	0.688	17.5	0.204	5.2	0.500	12.7	0.656	16.7	1000
22CC50C0750	22CC50C0750B	—	UL	0.750	19.1	0.167	4.2	0.500	12.7	0.780	19.8	3500
22CC50D0750	22CC50D0750B	—	UL	0.750	19.1	0.203	5.2	0.500	12.7	0.780	19.8	3500
N-12B	N-12B-BK	N-12B-19	—	0.750	19.1	0.204	5.2	0.500	12.7	0.766	19.4	1000
22CC87F0750	22CC87F0750B	—	UL	0.750	19.1	0.387	9.8	0.875	22.2	1.000	25.4	1500
22CC50C0812	22CC50C0812B	—	UL	0.813	20.6	0.167	4.2	0.500	12.7	0.815	20.7	3000
22CC50D0812	22CC50D0812B	—	UL	0.813	20.6	0.203	5.2	0.500	12.7	0.815	20.7	3000
22CC50C0875	22CC50C0875B	—	UL	0.875	22.2	0.167	4.2	0.500	12.7	0.845	21.5	2500
22CC50D0875	22CC50D0875B	—	UL	0.875	22.2	0.203	5.2	0.500	12.7	0.845	21.5	2500
N-14B	N-14B-BK	N-14B-19	—	0.875	22.2	0.204	5.2	0.500	12.7	0.813	20.6	500
CCL009A	—	—	—	1.000	25.4	0.181	4.6	0.472	12.0	0.866	22.0	100
22CC50D1000	22CC50D1000B	—	UL	1.000	25.4	0.203	5.2	0.500	12.7	0.910	23.1	2000
N-16B	N-16B-BK	N-16B-19	—	1.000	25.4	0.204	5.2	0.500	12.7	0.906	23.0	500
22CC87D1003	22CC87D1003B	—	UL	1.031	26.2	0.203	5.2	0.875	22.2	1.125	28.6	1000
22CC87F1003	22CC87F1003B	—	UL	1.031	26.2	0.387	9.8	0.875	22.2	1.125	28.6	1000
CCL010A	—	—	—	1.062	27.0	0.181	4.6	0.472	12.0	0.945	24.0	100
22CC50D1125	22CC50D1125B	—	UL	1.125	28.6	0.203	5.2	0.500	12.7	0.970	24.6	1500
N-18B	N-18B-BK	N-18B-19	—	1.125	28.6	0.204	5.2	0.500	12.7	0.969	24.6	500
22CC50D1187	22CC50D1187B	—	UL	1.188	30.2	0.203	5.2	0.500	12.7	1.000	25.4	1500
CCL011A	—	—	—	1.250	31.8	0.181	4.6	0.472	12.0	1.031	26.2	100
22CC50D1250	22CC50D1250B	—	UL	1.250	31.8	0.203	5.2	0.500	12.7	1.060	26.9	1250
22CC50D1375	22CC50D1375B	—	UL	1.375	34.9	0.203	5.2	0.500	12.7	1.125	28.6	1250
CCL012A	—	—	—	1.446	36.7	0.181	4.6	0.472	12.0	1.181	30.0	100
22CC50D1500	22CC50D1500B	—	UL	1.500	38.1	0.203	5.2	0.500	12.7	1.190	30.2	1000

NB-3 Series
Adjustable Cable Clamps

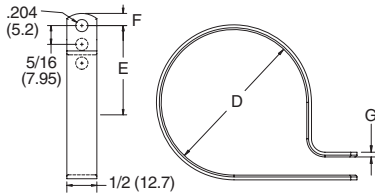


Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: See Table

Features:

- Adjustable design allows you to bundle multiple diameters of wires and cables while securing in place



Item No.		Ø D Holding						E Ref.		F		G		Bulk Pack Qty
Natural	Black	Inside Hole		Center Hole		Outside Hole		in	mm	in	mm	in	mm	
N-20B	N-20B-BK	1	25.4	1-1/8	28.6	1.2	30.2	0.906	23.0	0.219	5.6	0.063	1.6	500
N-24B	N-24B-BK	1-1/4	31.8	1-3/8	34.9	1.47	37.3	1.031	26.2	0.219	5.6	0.063	1.6	500
N-32B	N-32B-BK	1-3/4	44.5	1-7/8	47.6	2.0	50.8	1.453	36.9	0.203	5.2	0.065	1.7	500

CABLE CLIPS & CLAMPS

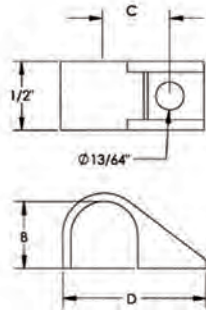
22HDCC Series
Heavy Duty Cable Clips

Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: See Table

Features:

- Secure, insulate and route cable, wiring, tubing, piping and fiber optics
- Tough, durable, corrosion and chemical resistant
- Perfect for applications in electronics, automotive, aircraft and many other industries



Item No.		Ø Holding		B		C		D		Bulk Pack Qty
Natural	Black	in	mm	in	mm	in	mm	in	mm	
22HDCC1250	22HDCC1250B	0.125	3.2	0.115	2.9	0.307	7.8	0.675	17.1	500
22HDCC1720	22HDCC1720B	0.188	4.8	0.172	4.4	0.328	8.3	0.732	18.6	500
22HDCC2340	22HDCC2340B	0.250	6.4	0.234	6.0	0.366	9.3	0.793	20.1	500
22HDCC2970	22HDCC2970B	0.313	7.9	0.297	7.5	0.400	10.2	0.859	21.8	500
22HDCC3590	22HDCC3590B	0.375	9.5	0.359	9.1	0.430	10.9	0.910	23.1	1000
22HDCC4220	22HDCC4220B	0.438	11.1	0.422	10.7	0.460	11.7	0.980	24.9	1000
22HDCC4840	22HDCC4840B	0.500	12.7	0.484	12.3	0.492	12.5	1.044	26.5	1000

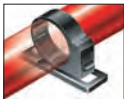
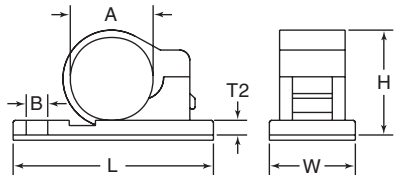
CCA Series
Adhesive Mount Cable Clamps

Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Black

Features:

- Fixed diameter clamp range
- Can be mounted with adhesive tape backing or via screw mounting hole



Item No.	Ø A Holding		Ø B Hole		T2		L		W		H		Bulk Pack Qty
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	
CCA001A	0.22	5.5	0.197	5.0	0.118	3.0	1.02	25.8	0.53	13.4	0.48	12.2	100
CCA002A	0.30	7.5	0.197	5.0	0.126	3.2	1.13	28.8	0.53	13.4	0.57	14.5	100
CCA003A	0.47	12.0	0.209	5.3	0.118	3.0	1.37	34.8	0.65	16.5	0.73	18.5	100
CCA004A	0.55	14.0	0.197	5.0	0.126	3.2	1.44	36.5	0.65	16.4	0.77	19.5	100
CCA005A	0.59	15.0	0.197	5.0	0.106	2.7	1.50	38.2	0.63	16.0	0.80	20.3	100
CCA006A	0.67	17.0	0.189	4.8	0.122	3.1	1.63	41.3	0.61	15.6	0.98	25.0	100

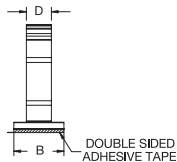
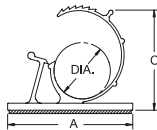
AKKL/22AAWC Series
Adhesive Mount Adjustable Clamps

Specifications:

- Material: Nylon 6/6
- Color: See Table

Features:

- Available in High Bond Rubber Adhesive
- Locks securely and easily, reopens for routing changes
- Ratcheting clip holds bundle securely in place
- Good for high vibration applications; once closed the clip will not open until tab is released



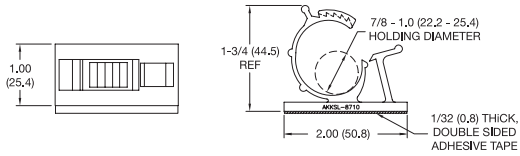
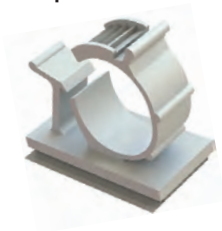
Item No.		Acrylic Adhesive UL94 V-0	High Bond Rubber Adhesive UL94 V-2	Bundle Range		A		B		C Ref.		D		Bulk Pack Qty
Acrylic Adhesive UL94 V-2	Natural			in	mm	in	mm	in	mm	in	mm	in	mm	
AKKL-2140A-RT	—	AKKL-2140A-19	—	0.215 - 0.258	5.5 - 6.5	0.850	21.6	0.650	16.5	0.708	18.0	0.390	10.0	100
AKKL-3140A-RT	—	AKKL-3140A-19	AKKL-3140-DHB	0.312 - 0.406	7.9 - 10.3	1.000	25.4	0.750	19.1	0.866	22.0	0.400	10.2	100
—	22AAWC310400	—	—	0.311 - 0.390	7.9 - 9.9	1.000	25.4	0.750	19.1	—	—	0.390	9.9	1000
—	22AAWC390490	—	—	0.390 - 0.485	9.9 - 12.3	1.281	32.5	0.750	19.1	—	—	0.406	10.3	1000
—	—	AKKL-4756A-19	AKKL-4756-DHB	0.469 - 0.562	11.9 - 14.3	1.250	31.8	0.750	19.1	1.090	27.7	0.400	10.2	100
—	22AAWC500600	—	—	0.445 - 0.560	11.3 - 14.2	1.455	36.7	0.750	19.1	—	—	0.468	11.9	1500
AKKL-5775A-RT	—	AKKL-5775A-19	AKKL-5775-DHB	0.578 - 0.750	14.7 - 19.1	1.500	38.1	0.750	19.1	1.250	31.8	0.500	12.7	100
—	22AAWC650790	—	—	0.620 - 0.765	15.8 - 19.4	1.660	42.2	1.000	25.4	—	—	0.500	12.7	1500
—	22AAWC830930	—	—	0.755 - 0.935	19.2 - 23.6	1.750	44.5	1.000	25.4	—	—	0.500	12.7	1500
AKKL-8710A-RT	—	AKKL-8710A-19	—	0.875 - 1.000	22.2 - 25.4	2.000	50.8	1.000	25.4	1.750	44.5	0.500	12.7	100
AKKL-10112A-RT	—	AKKL-10112A-19	—	1.000 - 1.250	25.4 - 31.7	2.500	63.5	1.000	25.4	2.000	50.8	0.500	12.7	100

CABLE CLAMPS

AKKSL Series
Side Lock Adhesive Mount Adjustable Clamps

- Specifications:
- Material: UL94 V-2 Nylon 6/6
 - Color: Natural

- Features:
- Side locks on top of clamp prevent clip from sliding open
 - Ratcheting clip holds bundle securely in place

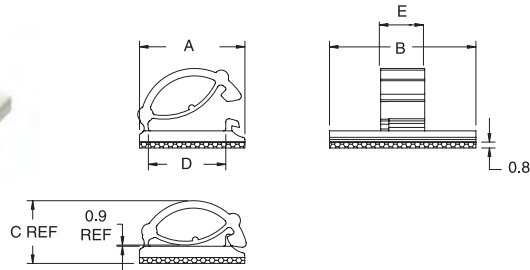
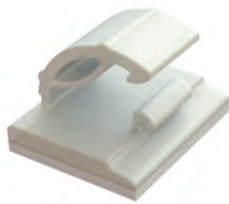


Item No.	Approval	Bulk Pack Qty
AKKSL-8710A-RT		100

CLC Series
Stock Adhesive Mount Adjustable Clamps

- Specifications:
- Material: UL94 V-2 Nylon 6/6
 - Color: Natural

- Features:
- Tension bar grips the cable into place
 - Can be reopened for removal or routing changes
 - Easily installed with adhesive base
 - Low profile where space is an issue

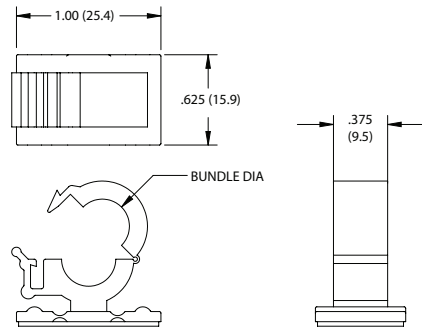
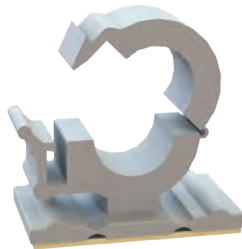


Item No.	A		B		C		D		E		Bulk Pack Qty
	in	mm	in	mm	in	mm	in	mm	in	mm	
CLC-1A	0.39	10.0	0.47	12.0	0.2	5.1	0.24	6.0	0.24	6	500
CLC-2A	0.55	14.1	0.77	19.6	0.33	8.4	0.41	10.4	0.23	5.9	500

22CAW Series
Releasable Contour Clips

- Specifications:
- Material: UL94 V-2 Nylon 6/6
 - Color: Natural

- Features:
- Available with 3M Very High Bond (VHB) tape
 - Flexible base allows for clip to be used on cylindrical surfaces such as pipes or tubing
 - Releasable clip design allows for easy removal of wires after assembly
 - Quick, easy installation
 - Resistant to corrosion, vibration and abrasion



Item No.	Adhesive	Ø Bundle		L		W		C		Bulk Pack Qty
		in	mm	in	mm	in	mm	in	mm	
22CAWC00375	Standard	0.375	9.5	1.000	25.4	0.625	15.9	0.375	9.5	1000
22CAWC00375VHB	VHB	0.375	9.5	1.000	25.4	0.625	15.9	0.375	9.5	1000

PAKKL Series
Snap In Adjustable Clips

- Specifications:
- Material: Nylon 6/6
 - Color: Natural

- Features:
- Gathers and routes cables and wires
 - Adjusts to diameter needed to bundle
 - Push mount design allows for fast installation

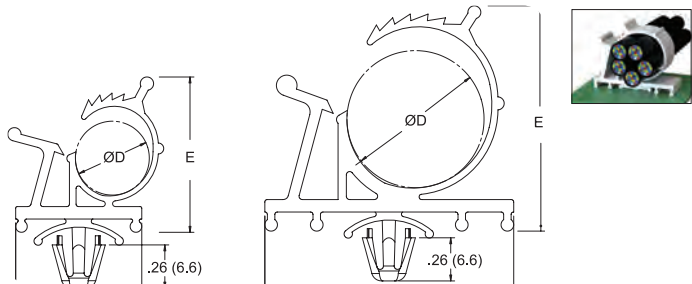


Figure 1

Figure 2

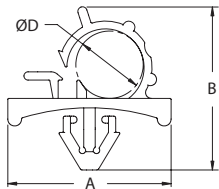
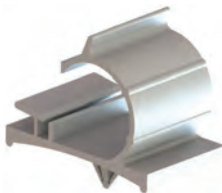
Item No.		Figure	Ø D Bundle Range		Ø Mounting Hole		Panel Thickness		A		E Ref.		Depth		Bulk Pack Qty
UL94 V-2	UL94 V-0		in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	
PAKKL-3140-01	PAKKL-3140-19	1	0.310 - 0.400	7.9 - 10.2	0.250	6.4	0.030 - 0.060	0.8 - 1.5	0.75	19.1	0.94	23.8	0.350	8.9	100
PAKKL-4756-01	PAKKL-4756-19	1	0.469 - 0.563	11.9 - 14.3	0.250	6.4	0.030 - 0.060	0.8 - 1.5	1.24	31.5	1.17	29.8	0.620	15.7	100
PAKKL-5775-01	PAKKL-5775-19	2	0.578 - 0.750	14.7 - 19.1	0.250	6.4	0.030 - 0.060	0.8 - 1.5	1.50	38.1	1.36	34.5	0.750	19.1	100

CABLE CLIPS & CLAMPS

PKKL/22SEAPM Series
Plug In Locking Clamps

- Specifications:
- Material: UL94 V-2 Nylon 6/6
 - Color: Natural

- Features:
- Part can be opened and closed multiple times for adding or removing wires
 - Large contoured base assures stable mounting



Item No.	A		B		Ø D Holding		Ø Mounting Hole		Panel Thickness		Depth		Bulk Pack Qty
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	
PKKL-3	1.020	25.9	0.921	23.4	0.374	9.5	0.256	6.5	0.031 - 0.062	0.8 - 1.6	0.67	17.0	200
PKKL-3S	0.830	21.1	0.828	21.0	0.307	7.8	0.256	6.5	0.031 - 0.062	0.8 - 1.6	0.75	19.1	200
PKKL-4	1.19	30.3	1.260	32.0	0.532	13.5	0.256	6.5	0.031 - 0.062	0.8 - 1.6	0.76	19.4	100
22SEAPM250750	1.365	34.7	0.870	22.1	0.750	19.1	0.250	6.350	0.020 - 0.070	0.5-1.8	0.87	22.1	1000

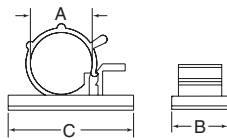
CCP/CCA Series
Push Mount & Adhesive Clamps

- Specifications:
- Material: UL94 V-2 Nylon 6/6
 - Color: Gray

- Features:
- Two-stage lock design to accommodate different cable sizes in a single clamp
 - Easy to reopen with thumb tab release
 - Available in two styles: CCP for push mount into pre-drilled hole and CCA with a self adhesive backing



CCP Push Mount



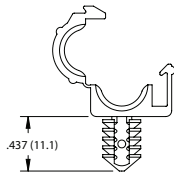
CCA Adhesive

Item No.		Ø A Bundle		Ø Mounting Hole		Panel Thickness		B		C		Bulk Pack Qty
		in	mm	in	mm	in	mm	in	mm	in	mm	
—	CCA007A	0.230 - 0.280	6.0 - 7.0	0.189	4.8	0.070 - 0.110	1.8 - 2.8	0.787	20.0	0.984	25.0	100
—	CCA008A	0.280 - 0.310	7.0 - 8.0	0.189	4.8	0.070 - 0.111	1.8 - 2.8	0.787	20.0	0.984	25.0	100
—	CCA009A	0.350 - 0.390	9.0 - 10.0	0.189	4.8	0.070 - 0.112	1.8 - 2.8	0.965	24.5	1.181	30.0	100
CCP004A	CCA010A	0.470 - 0.550	12.0 - 14.0	0.189	4.8	0.070 - 0.113	1.8 - 2.8	0.965	24.5	1.181	30.0	100
CCP005A	CCA011A	0.620 - 0.710	16.0 - 18.0	0.189	4.8	0.070 - 0.114	1.8 - 2.8	0.965	24.5	1.181	30.0	100

23RCFB035C Series
Releasable Clamps on Fin Base

- Specifications:
- Material: UL94 V-2 Nylon 6/6
 - Color: See Table

- Features:
- Wires can easily be removed or added to the clip
 - Can be used in a variety of panel thicknesses and materials
 - An internal rib spanning the diameter of the clamp provides a tight grip



Item No.		Ø Mounting Hole		Panel Thickness		Ø Bundle		Bulk Pack Qty
		in	mm	in	mm	in	mm	
23RCFB035C	23RCFB035CB	0.265	6.5	0.020 - 0.203	0.5 - 5.2	0.350	8.9	1000

WAC Series
Webbed Adjustable Clips

- Specifications:
- Material: UL94 V-2 Nylon 6/6
 - Color: Natural

- Features:
- Locks securely and easily; reopens for routing changes
 - Adjustable, ratcheting clip holds bundle securely in place
 - Spring in the top of the clamp adds additional tension to grip the bundle
 - Finger grip eases installation
 - Cupped base adds stability to the mounting and covers the hole completely

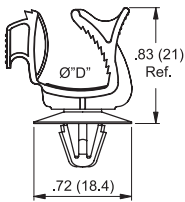


Figure 1

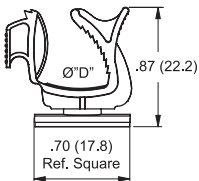


Figure 2

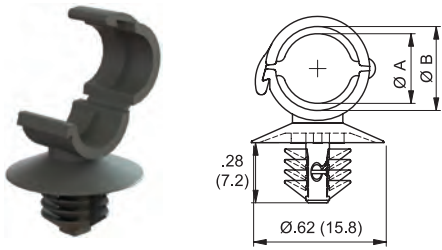
Item No.	Figure	Ø D Bundle Range		Ø Mounting Hole		Panel Thickness		Bulk Pack Qty
		in	mm	in	mm	in	mm	
WAC1-01	1	0.12 - 0.34	3.0 - 8.5	0.157 - 0.189	4.0 - 4.8	0.019 - 0.063	0.5 - 1.6	1000
WAC2-01	1	0.12 - 0.34	3.0 - 8.5	0.236 - 0.267	6.0 - 6.8	0.019 - 0.098	0.5 - 2.5	1000
WAC3-01A4-RT	2	0.12 - 0.34	3.0 - 8.5	Adhesive	Adhesive	Adhesive	Adhesive	1000

CABLE CLIPS & CLAMPS

HLCC Series
Hinged Locking Clamps

- Specifications:
- Material: UL94 V-2 Heat Stabilized Nylon 6/6
 - Color: Black

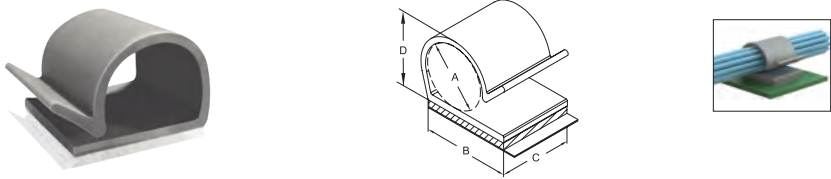
- Features:
- Securely holds corrugated/convoluted tubing or other bundles
 - An internal rib spanning the diameter of the clamp provides a tight grip
 - Releasable latch convenient for maintenance
 - Fir-tree mount accommodates a large range of panel thicknesses



Item No.	Recommended Corrugated Tube Size				Ø Mounting Hole		Panel Thickness		Ø A Ref.		Ø B Ref.		Bulk Pack Qty
	ID	mm	OD	mm									
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	
HLCC-1BK	0.20	5.0	0.28	7.1	0.26 - 0.28	6.5 - 7.0	0.03 - 0.12	0.8 - 3.0	0.23	5.8	0.28	7.2	1000
HLCC-2BK	0.27	6.9	0.39	9.9	0.26 - 0.28	6.5 - 7.0	0.03 - 0.12	0.8 - 3.0	0.33	8.3	0.39	10.0	1000

KKR Series
Adhesive Mount Clamps

- Specifications:
- Material: UL94 V-0 PVC
 - Color: Gray

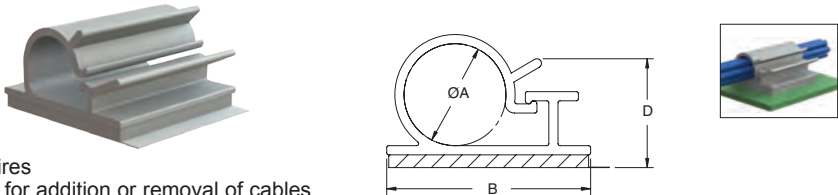


Item No.	Ø A Bundle		Max Capacity D		B		C		Bulk Pack Qty
	in	mm	in	mm	in	mm	in	mm	
KKR-5A1-RT	0.521	13.2	0.680	17.3	0.750	19.1	0.625	15.9	500

KKL Series
Adhesive Mount Locking Clamps

- Specifications:
- Material: UL94 V-0 PVC
 - Color: Gray

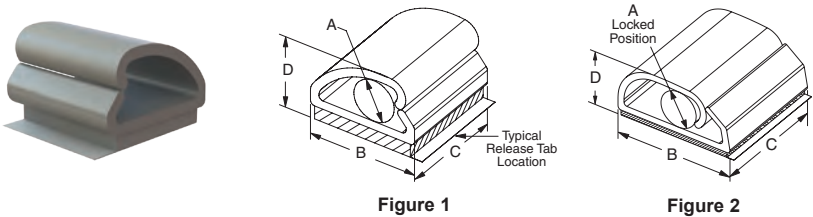
- Features:
- Gathers, routes, and locks cables and wires
 - Can be opened and closed multiple times for addition or removal of cables



Item No.	Ø A Bundle		B		Depth		D at Max Bundle Ref.		Bulk Pack Qty
	in	mm	in	mm	in	mm	in	mm	
KKL-4-RT	1/4	6.4	0.750	19.1	0.750	19.1	0.38	9.6	500
KKL-8-RT	1/2	12.7	1.000	25.4	1.000	25.4	0.69	17.4	100
KKL-12-RT	3/4	19.1	1.000	25.4	1.000	25.4	0.92	23.5	100

KKD/KKDL Series
Adhesive Mount Clamps

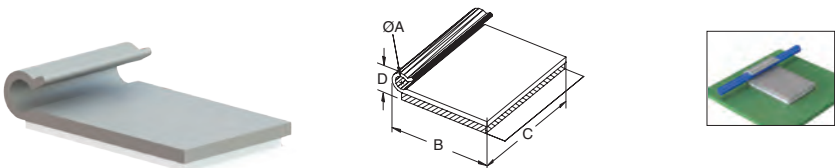
- Specifications:
- Material: UL94 V-0 PVC
 - Color: Gray



Item No.	Figure	Ø A Bundle		B		C		D at Max Bundle Ref.		Bulk Pack Qty
		in	mm	in	mm	in	mm	in	mm	
KKDL-4-RT	2	0.125	3.2	0.50	12.7	0.500	12.7	0.28	7.1	500
KKDL-8-RT	2	0.219	5.6	0.75	19.1	0.750	19.1	0.43	10.9	100
KKD-4-RT	1	0.250	6.4	0.50	12.7	0.500	12.7	0.40	10.2	500
KKD-8-RT	1	0.500	12.7	0.75	19.1	0.750	19.1	0.73	18.5	100
KKD-12-RT	1	0.750	19.1	1.13	28.6	1.000	25.4	1.02	25.9	100
KKD-16-RT	1	1.000	25.4	1.50	38.1	1.250	31.8	1.30	33.0	100

KKJ Series
Adhesive Mount Clamps

- Specifications:
- Material: UL94 V-0 PVC
 - Color: Gray



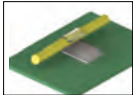
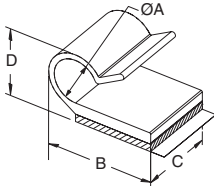
Item No.	Ø A Bundle		B		C		D at Max Bundle Ref.		Bulk Pack Qty
	in	mm	in	mm	in	mm	in	mm	
KKJ-2-RT	1/8	3.2	0.843	21.4	1.00	25.4	1/4	6.4	1000
KKJ-3-RT	3/16	4.8	0.875	22.2	1.25	31.8	5/16	7.9	1000
KKJ-4-RT	1/4	6.4	0.906	23.0	1.50	38.1	13/32	10.3	1000
KKJ-5-RT	5/16	7.9	1.219	31.0	1.75	44.5	7/16	11.1	1000
KKJ-6-RT	3/8	9.5	1.281	32.5	2.00	50.8	17/32	13.5	1000

CABLE CLAMPS

MKKJ Series
Mini Adhesive Mount Clamps

- Specifications:
- Material: UL94 V-0 PVC
 - Color: Clear

- Features:
- Clear color hides clamp

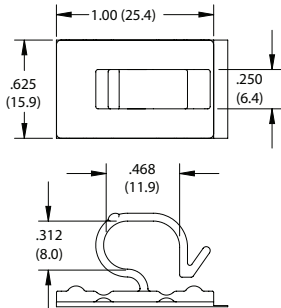


Item No.	Ø A Bundle		B		C		D at Max Bundle Ref		Bulk Pack Qty
	in	mm	in	mm	in	mm	in	mm	
MKKJ-2-RT	0.125	3.2	0.437	11.1	0.375	9.5	0.234	6.0	1000
MKKJ-3-RT	0.187	4.8	0.625	15.9	0.437	11.1	0.328	8.3	1000
MKKJ-4-RT	0.250	6.4	0.656	16.7	0.500	12.7	0.406	10.3	1000
MKKJ-5-RT	0.312	7.9	0.812	20.6	0.562	14.3	0.484	12.3	1000
MKKJ-6-RT	0.375	9.5	0.875	22.2	0.625	15.9	0.562	14.3	1000

22CAWC Series
Adhesive Mount Contour Clips

- Specifications:
- Material: UL94 V-2 Nylon 6/6
 - Color: Natural

- Features:
- Available with 3M Very High Bond (VHB) tape
 - Flexible base allows for clip to be used on cylindrical surfaces such as pipes or tubing
 - Quick, easy installation
 - Resistant to corrosion, vibration and abrasion

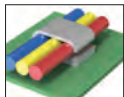
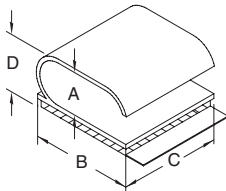
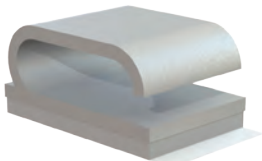


Item No.	Adhesive	Bulk Pack Qty
22CAWC00440TAB	Standard	1000
22CAWC00440VHB	VHB	1000

KKF Series
Adhesive Mount Clamps

- Specifications:
- Material: UL94 V-0 PVC
 - Color: Gray

- Features:
- Can hold three wire leads (such as air conditioning leads)

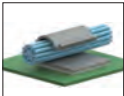
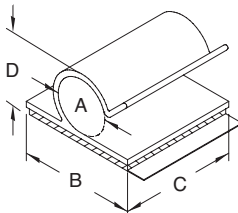
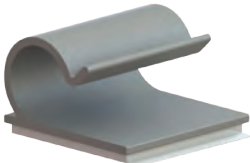


Item No.	Holding Capacity A		B		C		Max Capacity D		Bulk Pack Qty
	in	mm	in	mm	in	mm	in	mm	
KKF-10X4-RT	0.20 x 0.56	5.1 x 14.3	0.750	19.1	0.750	19.1	0.36	9.1	100

KKC Series
Adhesive Mount Clamps

- Specifications:
- Material: UL94 V-0 PVC
 - Color: Gray

- Features:
- For securely clamping cable or tubing



Item No.	Ø Holding Capacity A		B		C		D		Bulk Pack Qty
	in	mm	in	mm	in	mm	in	mm	
KKC-2-RT	1/8	3.2	0.750	19.1	0.750	19.1	0.31	7.9	500
KKC-3-RT	3/16	4.8	0.750	19.1	0.750	19.1	0.33	8.4	500
KKC-4-RT	1/4	6.4	0.750	19.1	0.750	19.1	0.42	10.7	500
KKC-5-RT	5/16	7.9	0.750	19.1	0.750	19.1	0.48	12.2	500
KKC-6-RT	3/8	9.5	0.750	19.1	0.750	19.1	0.60	15.2	500
KKC-8-RT	1/2	12.7	1.000	25.4	1.000	25.4	0.69	17.5	100
KKC-12-RT	3/4	19.1	1.000	25.4	1.000	25.4	0.94	23.9	100

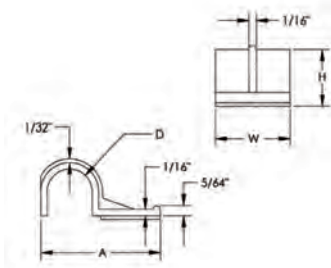
CABLE CLIPS & CLAMPS

22SPC Series
Adhesive Mount U Clips



- Specifications:
- Material: UL94 V-2 Nylon 6/6
 - Color: Natural

- Features:
- Fast, easy, convenient way to install wires and cable to almost any surface
 - Great for use in areas where space is limited
 - Corrosion, vibration and abrasion resistant



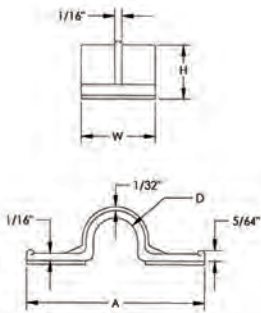
Item No.	Ø D Bundle		A		H		W		Bulk Pack Qty
	in	mm	in	mm	in	mm	in	mm	
22SPC13037	0.125	3.2	0.493	12.5	0.217	5.5	0.375	9.5	1000
22SPC20000	0.203	5.2	0.808	20.5	0.289	7.3	0.500	12.7	1000
22SPC25550	0.250	6.4	0.865	22.0	0.343	8.7	0.500	12.7	1000
22SPC38562	0.375	9.5	1.000	25.4	0.475	12.1	0.625	15.9	1000
22SPC50575	0.500	12.7	1.125	28.6	0.593	15.1	0.750	19.1	50

22DPC Series
Double Adhesive Backed Cable Clips



- Specifications:
- Material: UL94 V-2 Nylon 6/6
 - Color: See Table

- Features:
- Fast, easy, convenient way to install wires and cable to almost any surface
 - Double clip design allows for greater shear loads and holding power
 - Corrosion, vibration and abrasion resistant



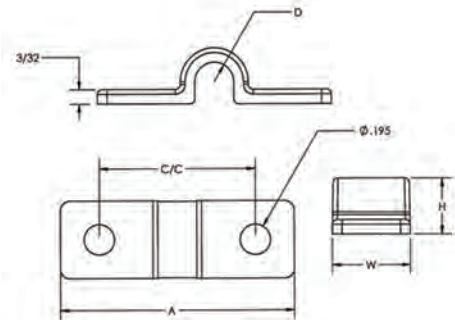
Item No.		Ø D Bundle		A		H		W		Bulk Pack Qty
Natural	Black	in	mm	in	mm	in	mm	in	mm	
22DPC13037	22DPC13037B	0.125	3.2	0.760	19.3	0.216	5.5	0.375	9.5	100
22DPC15637	22DPC15637B	0.156	4.0	1.281	32.5	0.248	6.3	0.375	9.5	100
22DPC25550	22DPC25550B	0.250	6.4	1.380	35.1	0.326	8.3	0.500	12.7	1000
22DPC38062	22DPC38062B	0.375	9.5	1.505	38.2	0.455	11.6	0.625	15.9	500
22DPC50575	22DPC50575B	0.500	12.7	1.600	40.6	0.580	14.7	0.750	19.1	500

22DSC Series
Double Screw Clips



- Specifications:
- Material: UL94 V-2 Nylon 6/6
 - Color: Natural

- Features:
- Resistant to corrosion, vibration and abrasion
 - Holds wires or cables securely in place



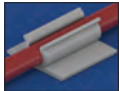
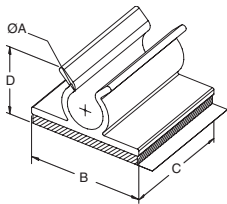
Item No.	Ø D Bundle		A		W		H		C/C		Bulk Pack Qty
	in	mm	in	mm	in	mm	in	mm	in	mm	
22DSC500250	0.250	6.4	1.500	38.1	0.500	12.7	0.359	9.1	1.000	25.4	1000

CABLE CLIPS & CLAMPS

KKU Series
Adhesive Mount Clamps

- Specifications:
- Material: UL94 V-0 PVC
 - Color: Gray

- Features:
- To hold wires, cords, or cables in place

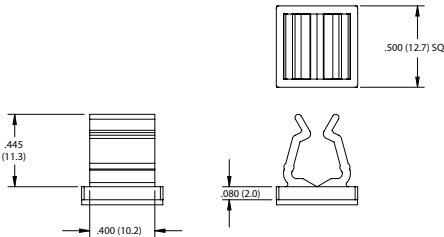


Item No.	Ø A Bundle		B		C		D Ref.		Bulk Pack Qty
	in	mm	in	mm	in	mm	in	mm	
KKU-2-RT	1/8	3.2	0.750	19.1	0.750	19.1	0.281	7.1	500
KKU-4-RT	1/4	6.4	0.750	19.1	0.750	19.1	0.468	11.9	500
KKU-6-RT	3/8	9.5	0.750	19.1	0.750	19.1	0.593	15.1	500
KKU-8-RT	1/2	12.7	1.000	25.4	1.000	25.4	0.687	17.5	100
KKU-9-RT	9/16	14.3	1.000	25.4	1.000	25.4	0.750	19.1	100
KKU-12-RT	3/4	19.1	1.000	25.4	1.000	25.4	0.906	23.0	100

22AWC Series
Releasable Adhesive Backed Wire Clips

- Specifications:
- Material: UL94 V-2 Nylon 6/6
 - Color: Natural

- Features:
- Quick and easy installation
 - Releasable clip, wires can be removed after assembly if desired



Item No.	Bulk Pack Qty
22AWC00312	1000

WCK/MWCK/22AWC Series
Adhesive Mount Clips

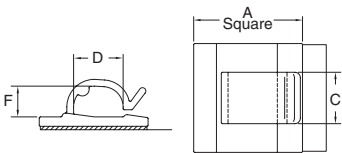
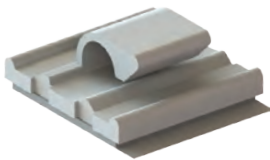


Figure 1

- Specifications:
- Material: UL94 V-2 Nylon 6/6
 - Color: Natural

- Features:
- To hold wires, cords, or cables in place

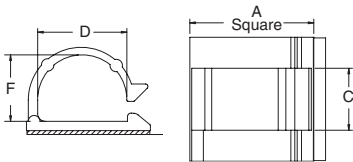


Figure 2

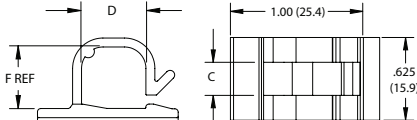


Figure 3

Item No.	Figure	Approval	A		C		D		F		Bulk Pack Qty
			in	mm	in	mm	in	mm	in	mm	
WCK-180-01A-RT	1	UL	0.630	16.0	0.310	7.9	0.340	8.6	0.160	4.0	1000
WCK-280-01A4-RT	1	—	0.750	19.0	0.390	10.0	0.263	6.7	0.220	5.7	1000
22AWC00375	1	—	0.750	19.0	0.375	9.5	0.460	11.7	0.310	7.9	1000
WCK-460-01A-RT	1	UL	0.990	25.1	0.470	11.9	0.450	11.4	0.280	7.1	1000
MWCK-460-01A4	2	—	0.750	19.0	0.470	11.9	0.450	11.4	0.280	7.1	1000
22AWC00440	3	—	1.000	25.4	0.250	6.4	0.460	11.7	0.440	11.2	1000
WCK-720-01A-RT	2	—	1.000	25.4	0.500	12.7	0.720	18.3	0.540	13.6	1000
22AWC00580	2	—	1.000	25.4	0.500	12.7	0.720	18.3	0.578	14.7	250

CABLE CLIPS & CLAMPS

WCA/22AWC Series
Adhesive Mount Clips

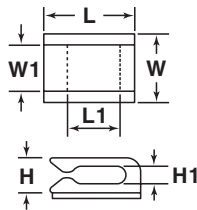


Figure 1

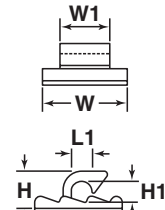


Figure 2

Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:

- Designed to support lightweight wire bundles when properly applied on any clean, smooth, grease-free surface

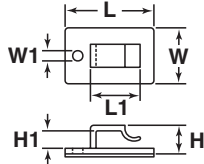


Figure 3

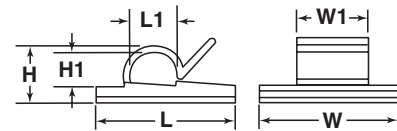


Figure 4

Item No.	Figure	L		L1		W		W1		H		H1		Bulk Pack Qty
		in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	
22AWCF328110	1	0.500	12.7	0.328	8.3	0.375	9.5	0.270	6.9	0.190	4.8	0.110	2.8	1000
22AWC00125	4	0.516	13.1	0.125	3.2	0.469	11.9	0.200	5.1	0.125	3.2	0.125	3.2	1000
22AWC00187	2	0.656	16.7	0.188	4.8	0.656	16.7	0.375	9.5	0.266	6.7	0.188	4.8	500
WCA005A	4	0.750	19.0	0.230	5.9	0.750	19.0	0.390	10.0	0.280	7.2	0.190	4.9	100

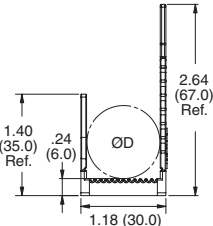
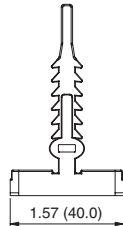
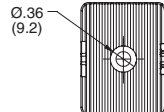
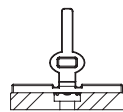
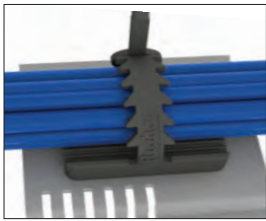
UMB Series
Universal Rubber Clamps

Specifications:

- Material: Neoprene Rubber, 50 Shore A
- Color: Black

Features:

- Flexible, serrated buckle style clamp provides a tight grip to the bundle
- Large, ribbed base gives the cables extra surface area which provides some strain relief
- Two mounting styles available: #10 screw or adhesive



Item No.	Mounting Method	D Approx. Max Cable Ø Bundle		Bulk Pack Qty
		in	mm	
UMB-1	#10 or M5 Screw	0.79	20.0	200
UMB-1A-RT	Adhesive	0.79	20.0	200

WM Series
Adhesive Mount Wire Mounts

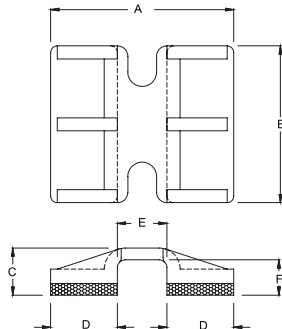
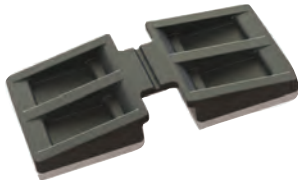


Figure 1

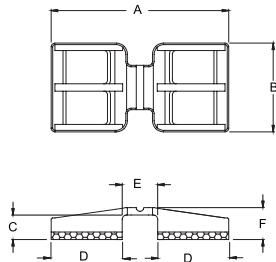


Figure 2

Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Black

Features:

- Mounted over wires to hold them in place
- Quick, secure mounting

Item No.	Figure	E		F		A		B		C		D		Bulk Pack Qty
		in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	
WM-1A	1	0.150	3.8	0.102	2.6	0.551	14.0	0.472	12.0	0.138	3.5	0.201	5.1	1000
WM-2A	1	0.189	4.8	0.102	2.6	0.945	24.0	0.472	12.0	0.142	3.6	0.378	9.6	500
WM-3A	1	0.189	4.8	0.102	2.6	0.787	20.0	0.472	12.0	0.142	3.6	0.299	7.6	500
WM-4A	1	0.205	5.2	0.110	2.8	0.945	24.0	0.472	12.0	0.150	3.8	0.370	9.4	500
WM-5A	2	0.189	4.8	0.102	2.6	0.945	24.0	0.472	12.0	0.142	3.6	0.378	9.6	500
WM-6A	2	0.189	4.8	0.122	3.1	0.945	24.0	0.472	12.0	0.161	4.1	0.378	9.6	500
WM-7A	2	0.205	5.2	0.122	3.1	0.945	24.0	0.472	12.0	0.161	4.1	0.370	9.4	500

CABLE CLAMPS

HURC/DHURC/HURCBH/HURCS/DHURCS Series
U Clamps

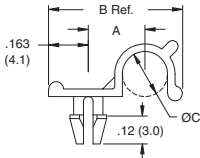


Figure 1

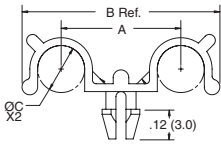


Figure 2

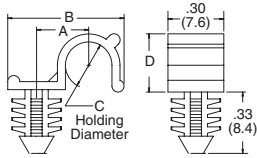


Figure 3

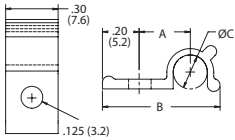


Figure 4

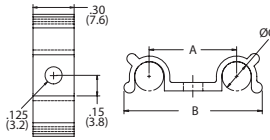


Figure 5

- Specifications:
- Material: UL94 V-2 Nylon 6/6
 - Color: Natural

Item No.	Figure	Ø C Bundle		Ø Mounting Hole		Approval	A		B Ref.		Panel Thickness		Bulk Pack Qty
		in	mm	in	mm		in	mm	in	mm	in	mm	
HURC-2-01	1	0.125	3.2	0.125	3.2	✓	0.20	5.1	0.49	12.4	0.062	1.6	1000
HURC-3-01	1	0.187	4.8	0.125	3.2	✓	0.24	6.1	0.56	14.2	0.062	1.6	1000
HURC-4-01	1	0.250	6.4	0.125	3.2	✓	0.27	6.9	0.62	15.7	0.062	1.6	1000
HURC1-2-01	1	0.125	3.2	0.125	3.2	✓	0.20	5.1	0.49	12.4	0.093	2.4	1000
HURC1-3-01	1	0.187	4.8	0.125	3.2	✓	0.24	6.1	0.56	14.2	0.093	2.4	1000
HURC1-4-01	1	0.250	6.4	0.125	3.2	✓	0.27	6.9	0.62	15.7	0.093	2.4	1000
DHURC-2-01	2	0.125	3.2	0.125	3.2	✓	0.41	10.4	0.66	16.8	0.062	1.6	1000
DHURC-3-01	2	0.187	4.8	0.125	3.2	✓	0.48	12.2	0.79	20.1	0.062	1.6	1000
DHURC-4-01	2	0.250	6.4	0.125	3.2	✓	0.55	14.0	0.94	23.9	0.062	1.6	1000
HURCS-2-01	4	0.125	3.2	0.125	3.2	—	0.25	6.2	0.59	15.0	—	—	1000
HURCS-3-01	4	0.187	4.8	0.125	3.2	—	0.28	7.1	0.65	15.6	—	—	1000
HURCS-4-01	4	0.250	6.4	0.125	3.2	—	0.32	8.1	0.72	18.3	—	—	1000
DHURCS-2-01	5	0.125	3.2	0.125	3.2	—	0.49	12.4	0.75	19.0	—	—	1000
DHURCS-3-01	5	0.187	4.8	0.125	3.2	—	0.56	14.2	0.89	22.6	—	—	1000
DHURCS-4-01	5	0.250	6.4	0.125	3.2	—	0.64	16.2	1.02	25.9	—	—	1000
HURCBH-2-01	3	0.125	3.2	0.250	6.4	—	0.49	12.4	0.17	4.3	0.250	6.4	1000
HURCBH-3-01	3	0.187	4.8	0.250	6.4	—	0.56	14.2	0.24	6.1	0.250	6.4	1000
HURCBH-4-01	3	0.250	6.4	0.250	6.4	—	0.62	15.7	0.30	7.6	0.250	6.4	1000

WCA/23SWRC Series
Split Routing Clamps

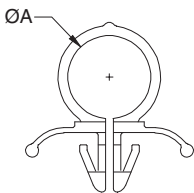


Figure 1

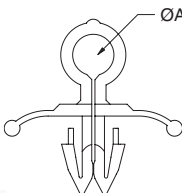


Figure 2

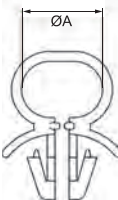


Figure 3

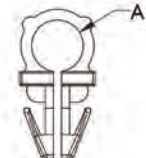


Figure 4



- Specifications:
- Material: UL94 V-2 Nylon 6/6
 - Color: See Table
- Features:
- Split design allows bundles to be loaded by separating the clip at the base
 - Cannot be removed without removing the clip from the blind side of the application

Item No.	Natural	Gray	Black	Approval	Figure	Ø A Bundle		Ø Mounting Hole		Panel Thickness		Bulk Pack Qty
						in	mm	in	mm	in	mm	
SRC-1-01	—	—	—	—	2	0.197	5.0	0.246	6.2	0.079 - 0.118	2.0 - 3.0	1000
SRC-4-01	—	—	—	✓	1	0.250	6.4	0.250	6.4	0.050 - 0.060	1.3 - 1.5	1000
23SWRC250250	—	—	23SWRC250250B	—	4	0.250	6.4	0.250	6.4	0.030 - 0.125	0.8 - 3.2	1000
23SWRC250375	—	—	23SWRC250375B	—	4	0.375	9.5	0.025	6.4	0.030 - 0.125	0.8 - 3.2	500
—	101001000202	—	—	—	3	0.413	10.5	0.250	6.4	0.028 - 0.079	0.7 - 2.0	500
SRC-7-01	—	—	—	✓	1	0.438	11.1	0.250	6.4	0.050 - 0.060	1.3 - 1.5	1000
SRC-8-01	—	—	—	✓	1	0.500	12.7	0.250	6.4	0.050 - 0.060	1.3 - 1.5	1000
—	101001400202	—	—	—	3	0.551	14.0	0.250	6.4	0.028 - 0.079	0.7 - 2.0	500
SRC-10-01	—	—	—	—	1	0.625	15.9	0.250	6.4	0.050 - 0.060	1.3 - 1.5	1000
101002100202	101002100202	—	—	—	3	0.846	21.5	0.250	6.4	0.028 - 0.079	0.7 - 2.0	250
101003000202	101003000202	—	—	—	3	1.181	30.0	0.250	6.4	0.028 - 0.079	0.7 - 2.0	250

CABLE CLIPS & CLAMPS

SRCC Series
Strain Relief Clamps



Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: See Table

Features:

- Grips cable providing slight strain relief
- Securely installed with two screws

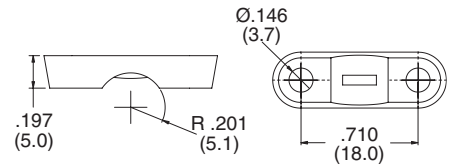


Figure 1

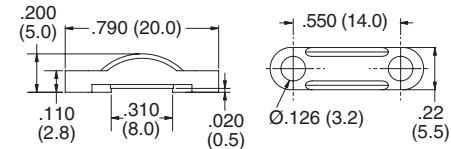
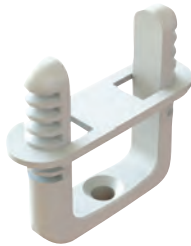


Figure 2

Item No.	Figure	Color	Ø Max Cable	Mounting Screws	Bulk Pack Qty
1441741	1	Gray	0.177	M3 or #6	1000
SRCC-2	2	Black	0.310	M3 or #4	1000

D Series
Two-Piece Locking Clamps

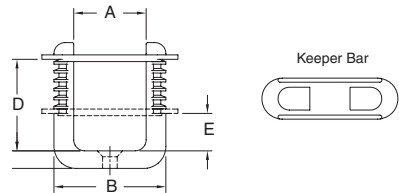


Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

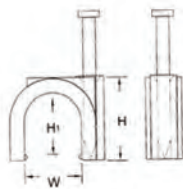
Features:

- Mounts with a #8 or M4 flat-head machine screw
- Adjustable holding capacity
- Keeper bar is removable for changes or repairs

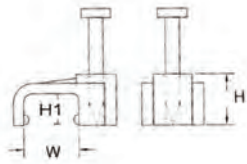


Item No.	A Ref.		B Ref.		D Ref.		E Ref.		Bulk Pack Qty
	in	mm	in	mm	in	mm	in	mm	
D-1	0.990	25.1	1.530	38.9	1.25	31.8	0.51	13.0	100
D-1.5	1.457	37.0	2.175	55.3	1.65	41.9	0.66	16.8	100

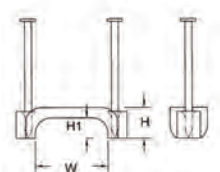
22NCC Series
Nail In Cable Clips



Single Round



Single Flat



Double

Specifications:

- Material: Polyethylene
- Color: See Table

Features:

- Pre-assembled with nickel plated steel nails, ready for use in wood, stucco, plaster or masonry
- Contact edges are rounded to protect cable or tubing from damage
- Molded in tough, electrically insulating, high density Polyethylene

Single Round

Item No.		W		H		H1		Bulk Pack Qty
Black	White	in	mm	in	mm	in	mm	
22NCC0400R	22NCC0400RW	0.145	3.6	0.257	6.5	0.155	3.9	100
22NCC0500R	22NCC0500RW	0.190	5.0	0.299	7.6	0.209	5.3	100
22NCC0700R	22NCC0700RW	0.236	6.0	0.354	9.0	0.260	6.6	100
22NCC0800R	22NCC0800RW	0.302	7.6	0.453	11.5	0.335	8.5	100

Single Flat

Item No.		W		H		H1		Bulk Pack Qty
Black	White	in	mm	in	mm	in	mm	
22NCC0450F	22NCC0450FW	0.492	12.5	0.217	5.5	0.122	3.1	100
22NCC0900F	22NCC0900FW	0.335	8.5	0.315	8.0	0.205	5.2	100

Double

Item No.		W		H		H1		Bulk Pack Qty
Black	White	in	mm	in	mm	in	mm	
22NCC1250FB	22NCC1250FW	0.492	12.5	0.315	8.0	0.209	5.3	100
22NCC1900FB	22NCC1900FW	0.736	18.7	0.315	8.0	0.209	5.3	100

CABLE CLIPS & CLAMPS

CH/RSC/22WTR Series
Snap In Cable Hanger

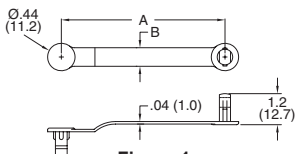


Figure 1

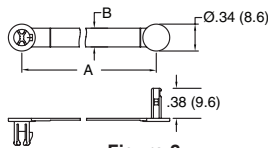


Figure 2

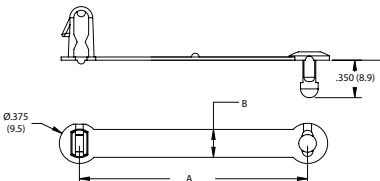


Figure 3



Specifications:

- Material: See Table
- Color: See Table

Features:

- Gathers and routes cables and wires
- Push mount design allows for fast installation



Item No.		Figure	Ø Max Bundle		Ø Mounting Hole		Length		Width		Material	Bulk Pack Qty
Natural	Black		in	mm	in	mm	in	mm	in	mm		
22WTR2500312	22WTR2500312B	3	0.312	7.9	0.250	6.4	1.530	38.9	0.266	6.7	UL94 V-2 Nylon 6/6	1000
CH-1-01	CH-1-01BK	1	0.375	9.5	0.250	6.4	1.750	44.5	0.297	7.5	UL94 V-2 Nylon 6/6	1000
22WTR2500437	22WTR2500437B	3	0.437	11.1	0.250	6.4	1.930	49.0	0.266	6.7	UL94 V-2 Nylon 6/6	1000
22WTR2500500	22WTR2500500B	3	0.500	12.7	0.250	6.4	2.130	54.1	0.266	6.7	UL94 V-2 Nylon 6/6	1000
22WTR2500562	22WTR2500562B	3	0.562	14.3	0.250	6.4	2.360	59.9	0.266	6.7	UL94 V-2 Nylon 6/6	1000
CH-2-01	CH-2-01BK	1	0.625	15.9	0.250	6.4	2.625	66.7	0.297	7.5	UL94 V-2 Nylon 6/6	1000
CH-1-10	CH-1-10BK	1	0.375	9.5	0.250	6.4	1.750	44.5	0.297	7.5	UL94 HB Polypropylene	1000
CH-2-10	CH-2-10BK	1	0.625	15.9	0.250	6.4	2.625	66.7	0.297	7.5	UL94 HB Polypropylene	1000
—	RSC-3-01	2	0.218	5.6	0.189	4.8	1.100	28.0	0.160	4.0	UL94 V-2 Nylon 6/6	1000
—	RSC-4-01	2	0.250	6.4	0.189	4.8	1.300	33.0	0.240	6.0	UL94 V-2 Nylon 6/6	1000
—	RSC-6-01	2	0.375	9.5	0.189	4.8	1.690	43.0	0.240	6.0	UL94 V-2 Nylon 6/6	1000
—	RSC-9-01	2	0.625	15.9	0.189	4.8	2.480	63.0	0.240	6.0	UL94 V-2 Nylon 6/6	1000
—	RSC-9-01	2	0.625	15.9	0.189	4.8	2.480	63.0	0.240	6.0	UL94 V-2 Nylon 6/6	1000

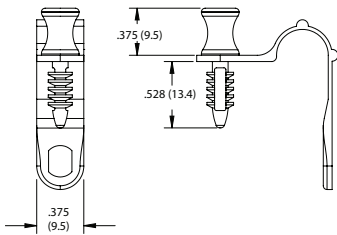
22QCC Series
Quick Cable Clamp

Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: See Table

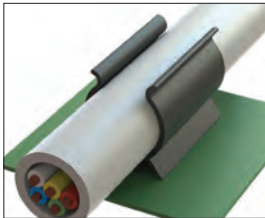
Features:

- Quick, easy, one handed installation
- Features an integrated ratchet fastener which eliminates the need for a screw or other fastener
- Self-aligning



Item No.		Ø Bundle		Ø Mounting Hole		Bulk Pack Qty
Natural	Black	in	mm	in	mm	
22QCC187250	22QCC187250B	0.250	6.4	0.188	4.8	1000
22QCC187312	22QCC187312B	0.313	7.9	0.188	4.8	1000
22QCC187375	22QCC187375B	0.375	9.5	0.188	4.8	1000
22QCC187437	22QCC187437B	0.438	11.1	0.188	4.8	1000

V Series
Screw Mount Component Clip



Specifications:

- Material: UL94 V-0 PVC
- Color: Black

Features:

- Legs prevent shifting and tipping
- Mounts securely with screws or rivets
- Holds parts firmly

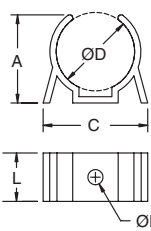


Figure 1

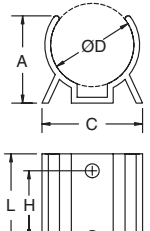


Figure 2

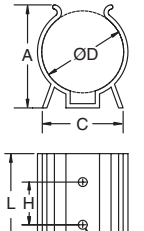


Figure 3

Item No.	Figure	Ø D Holding		Ø F Hole Ref.		A Ref.		C Ref.		H Ref.		L		Bulk Pack Qty
		in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	
V-1000	1	0.25	6.4	0.094	2.4	0.30	7.5	0.50	12.7	Single Hole In Center		0.50	12.7	1000
V-1001	1	0.31	7.9	0.094	2.4	0.36	9.1	0.50	12.7	Single Hole In Center		0.50	12.7	1000
V-1002	1	0.38	9.5	0.094	2.4	0.41	10.3	0.50	12.7	Single Hole In Center		0.50	12.7	1000
V-1003	1	0.44	11.1	0.094	2.4	0.45	11.5	0.52	13.1	Single Hole In Center		0.50	12.7	1000
V-1004	1	0.50	12.7	0.094	2.4	0.50	12.7	0.66	16.7	Single Hole In Center		0.50	12.7	1000
V-1005	1	0.56	14.3	0.094	2.4	0.61	15.5	0.72	18.3	Single Hole In Center		0.50	12.7	1000
V-1006	1	0.63	15.9	0.094	2.4	0.63	15.9	0.83	21.0	Single Hole In Center		0.50	12.7	1000
V-1007	1	0.69	17.6	0.156	4.0	0.63	15.9	0.84	21.0	Single Hole In Center		0.50	12.7	1000
V-1008	1	0.75	19.7	0.156	4.0	0.78	19.8	0.89	22.6	Single Hole In Center		0.50	12.7	100
V-1009	1	0.88	22.2	0.156	4.0	0.91	23.0	1.08	27.4	Single Hole In Center		0.50	12.7	100
V-1010	2	1.00	25.4	0.156	4.0	0.98	25.0	1.13	28.6	0.75	19.1	1.13	28.5	100
V-1011	2	1.38	34.9	0.156	4.0	1.34	34.1	1.25	31.8	0.75	19.1	1.13	28.5	100
V-1024	3	1.50	38.1	0.156	4.0	1.81	46.0	1.42	36.1	0.75	19.1	1.75	44.5	100
V-1028	3	1.75	44.5	0.156	4.0	1.92	48.8	1.50	38.1	0.75	19.1	1.75	44.5	100
V-1030	3	2.25 - 2.75	57.1 - 69.9	0.156	4.0	2.44	61.9	2.61	66.3	0.75	19.1	1.50	38.1	100

CABLE CLIPS & CLAMPS

VM Series
Screw Mount Component Clip



- Specifications:
- Material: UL94 V-2 Nylon 6/6
 - Color: Black

- Features:
- Smooth edges protect components from wear and abrasion
 - Legs prevent shifting and tipping
 - Mounts securely with screws or rivets

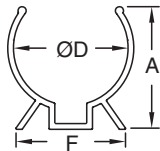


Figure 1

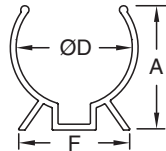


Figure 2



Figure 3

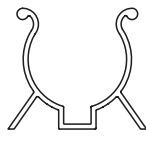
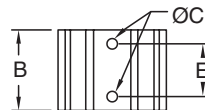
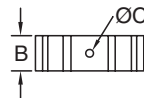


Figure 4



Item No.	Figure	Ø D Holding		Ø C Hole		A Ref.		B		E		F Ref.		Bulk Pack Qty
		in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	
VM-1002	1	3/8	9.5	0.11	2.8	0.44	11.2	0.50	12.7	Single Hole in Center		0.54	13.7	100
VM-1004	1	1/2	12.7	0.11	2.8	0.52	13.2	0.50	12.7	Single Hole in Center		0.75	19.1	100
VM-1007	1	11/16	17.5	0.15	3.8	0.78	19.8	0.50	12.7	Single Hole in Center		0.82	20.8	100
VM-1008	1	3/4	19.1	0.15	3.8	0.97	24.6	0.50	12.7	Single Hole in Center		0.98	24.9	100
VM-1010	2	1	25.4	0.15	3.8	1.03	26.1	1.12	28.4	0.750	19.1	1.25	31.8	100
VM-1011	2	1-3/8	34.9	0.15	3.8	1.51	38.4	1.16	29.5	0.750	19.1	1.37	34.8	100
VM-1024	3	1-1/2	38.1	0.15	3.8	1.67	42.4	1.70	43.2	0.750	19.1	1.50	38.1	100
VM-1030	4	2-1/4	57.2	0.15	3.8	2.50	63.5	1.52	38.6	0.750	19.1	3.00	76.2	100

ASK/RAK Series
Adhesive Mount Aluminum Clamp



- Specifications:
- Material: Aluminum, Bright Finish

- Features:
- Aluminum arms are flexed around bundle
 - Lightweight and durable
 - Adhesive mount for quick installation

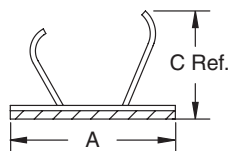


Figure 1

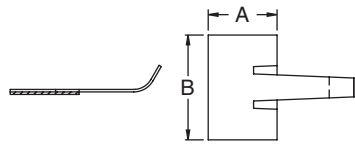
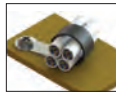


Figure 2

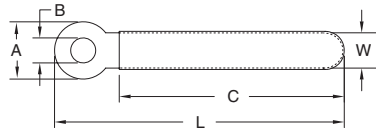
Item No.	Figure	Ø Max Bundle		A		B Base Depth		Bulk Pack Qty
		in	mm	in	mm	in	mm	
ASK-3	1	0.234	6.0	0.44	11.3	0.66	16.8	250
ASK-6	1	0.375	9.5	0.62	15.7	0.74	18.8	250
RAK-1	2	0.234	6.0	0.44	11.3	0.67	17.1	250
RAK-2	2	0.375	9.5	0.64	16.3	0.76	19.3	250

VCC Series
Vinyl Coated Adjustable Steel Clamp



- Specifications:
- Material: PVC Coated Soft Steel
 - Color: Body - Steel Coating - Black

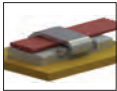
- Features:
- For bundling and clamping cable or tubing securely
 - Vinyl coating grips and insulates the cable
 - Easily bends and forms to desired shape for varying holding diameters



Item No.	Ø Bundle		C Ref.		L Ref.		W Ref.		A		Ø B		Pack Qty	Bulk Pack Qty
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm		
VCC-83028	0.22	5.7	0.71	18.0	1.10	28.0	0.12	3.0	0.315	8.0	0.118	3.0	1	1000
VCC-83535	0.31	7.9	0.98	25.0	1.34	35.0	0.20	5.0	0.315	8.0	0.138	3.5	1	1000
VCC-83540	0.37	9.5	1.18	30.0	1.57	40.0	0.12	3.0	0.315	8.0	0.138	3.5	1	1000
VCC-63048	0.50	12.7	1.57	40.0	1.89	48.0	0.08	2.0	0.236	6.0	0.118	3.0	1	1000
VCC-84554	0.52	13.3	1.65	42.0	2.13	54.0	0.19	4.8	0.315	8.0	0.177	4.5	1	1000
VCC-63254	0.57	14.6	1.81	46.0	2.13	54.0	0.14	3.6	0.236	6.0	0.126	3.2	1	1000
VCC-83664	0.66	16.9	2.09	53.0	2.52	64.0	0.20	5.0	0.315	8.0	0.161	4.1	1	1000
VCC-84576	0.81	20.7	2.56	65.0	2.99	76.0	0.18	4.5	0.315	8.0	0.177	4.5	1	1000
VCC-84584	0.90	22.9	2.83	72.0	3.31	84.0	0.18	4.5	0.315	8.0	0.177	4.5	1	1000
VCC-845126	1.40	35.6	4.41	112.0	4.96	126.0	0.24	6.0	0.315	8.0	0.177	4.5	1	100

CABLE CLIPS & CLAMPS

PFC Series
Adhesive Mount Foam Coated
Adjustable Steel Clamps

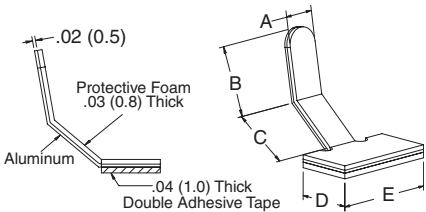


Specifications:

- Material: Foam Coated Aluminum
- Color: Gray Coated

Features:

- Made of aluminum with a protective foam coating on the inside of the clamp that protects cables and fibers
- Flexible arm holds flat, round or oddly shaped components
- Arm may be opened or closed repeatedly and reshaped for varying holding diameters



Item No.	A Ref.		B Ref.		C Ref.		D		E		Bulk Pack Qty
	in	mm	in	mm	in	mm	in	mm	in	mm	
PFC-25M	0.189	4.8	0.494	12.6	0.437	11.1	0.397	10.1	0.751	19.1	1000
PFC-50M	0.205	5.2	0.573	14.6	0.555	14.1	0.553	14.1	0.982	25.0	1000

RWS/RWSB Series
Round Clamps

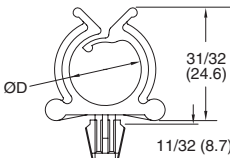


Figure 1

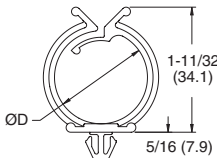


Figure 2

Specifications:

- Material: Nylon 6/6
- Color: See Table

Features:

- Gathers and routes cables nd wires
- Push mount design allows for fast installation
- Adhesive base makes installation quick and easy

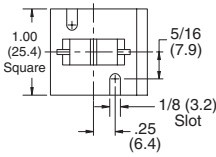


Figure 3



Item No.		Mounting Method	Approval	Figure	Ø D Holding		Ø Mounting Hole		Panel Thickness		Depth		Color	Bulk Pack Qty
UL94 V-2	UL94 V-0				in	mm	in	mm	in	mm	in	mm		
RWS-10-01	RWS-10-19	Snap-In	UL	1	0.625	15.9	Ø.250	6.4	0.030 - 0.060	0.8 - 1.5	0.297	17.5	Natural	1000
RWS-10-01BK	—	Snap-In	UL	1	0.625	15.9	Ø.250	6.4	0.030 - 0.060	0.8 - 1.5	0.297	17.5	Black	1000
RWS-16-01	RWS-16-19	Snap-In	UL	2	1.000	25.4	.250 Square	6.4	0.058 - 0.064	1.5 - 1.6	0.297	17.5	Natural	1000
RWS-16-01BK	—	Snap-In	UL	2	1.000	25.4	.250 Square	6.4	0.058 - 0.064	1.5 - 1.6	0.297	17.5	Black	1000
RWSB-10-01A-RT	—	Adhesive	—	3	0.625	15.9	—	—	—	—	1.000	25.4	Natural	1000
RWSB-16-01A-RT	—	Adhesive	—	3	1.000	25.4	—	—	—	—	1.000	25.4	Natural	1000
RWSB-10-01	—	Screw	—	3	0.625	15.9	—	—	—	—	1.000	25.4	Natural	1000
RWSB-16-01	—	Screw	—	3	1.000	25.4	—	—	—	—	1.000	25.4	Natural	1000

WCB Series
Cord Clips On Adhesive Base

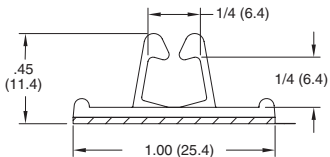
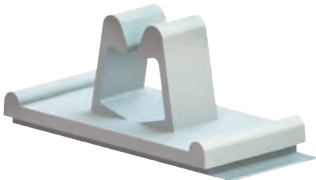


Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:

- Routes and fastens cords and cables
- Adhesive mount design for quick and easy installation



Item No.	Approval	Depth		Bulk Pack Qty
		in	mm	
WCB-250-01A-RT	UL	0.500	12.7	1000

CABLE CLIPS

SCCA/SCCB Series
Standoff Cable Clips



Specifications:

- Material: Nylon 6/6
- Color: Natural
- Mounting Hole: 0.256 - 0.276 (6.5 - 7.0)
- Panel Thickness: 0.024 - 0.079 (0.6 - 2.0)

Features:

- Gathers and routes wires
- Standoff design provides spacing between the wires and chassis

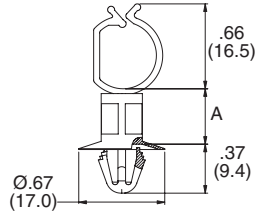


Figure 1

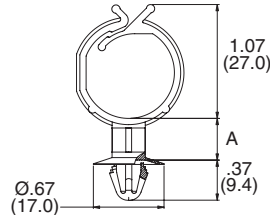


Figure 2

Item No.		Figure	Ø Max Bundle		A		Bulk Pack Qty
UL94 V-2	UL94 V-0		in	mm	in	mm	
SCCA-1-01	SCCA-1-19	1	0.43	11.0	0.16	4.0	1000
SCCA-2-01	SCCA-2-19	1	0.43	11.0	0.24	6.0	1000
SCCA-3-01	SCCA-3-19	1	0.43	11.0	0.32	8.0	1000
SCCA-4-01	—	1	0.43	11.0	0.39	10.0	1000
SCCA-5-01	SCCA-5-19	1	0.43	11.0	0.47	12.0	1000
SCCB-1-01	SCCB-1-19	2	0.87	22.0	0.16	4.0	1000
SCCB-2-01	—	2	0.87	22.0	0.24	6.0	1000
SCCB-3-01	SCCB-3-19	2	0.87	22.0	0.32	8.0	1000
SCCB-4-01	—	2	0.87	22.0	0.39	10.0	1000
SCCB-5-01	SCCB-5-19	2	0.87	22.0	0.47	12.0	1000
SCCB-6-01	—	2	0.87	22.0	1.18	30.0	1000

SLCS/SLCSE Series
Standoff Locking Clips

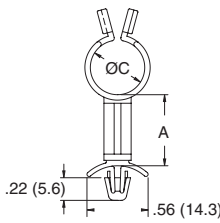


Figure 1

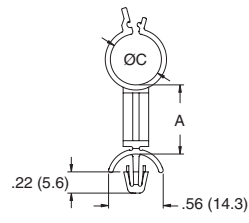


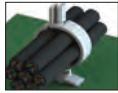
Figure 2

Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural
- Mounting Hole: .187 (4.8)
- SLCS/SLCSE Panel Thickness: 0.031 - 0.078 (0.8 - 2.0)
- SLCSE2 Panel Thickness: 0.078 - 0.160 (2.0 - 4.0)

Features:

- Gathers and routes wires
- Easy locking design makes it easy to open and close with very little effort
- Standoff design provides spacing between the wires and the chassis



Item No.	Approval	Figure	A		Ø C Max Bundle		Bulk Pack Qty
			in	mm	in	mm	
SLCS-250-3-01	UL	1	0.187	4.8	0.187	4.8	1000
SLCS-250-4-01	UL	1	0.250	6.4	0.187	4.8	1000
SLCS-250-6-01	UL	1	0.375	9.5	0.187	4.8	1000
SLCS-250-8-01	UL	1	0.500	12.7	0.187	4.8	1000
SLCS-250-16-01	UL	1	1.000	25.4	0.187	4.8	1000
SLCS-370-3-01	UL	1	0.187	4.8	0.312	7.9	1000
SLCS-370-4-01	UL	1	0.250	6.4	0.312	7.9	1000
SLCS-370-6-01	UL	1	0.375	9.5	0.312	7.9	1000
SLCS-370-8-01	UL	1	0.500	12.7	0.312	7.9	1000
SLCS-370-16-01	UL	1	1.000	25.4	0.312	7.9	1000
SLCS-500-3-01	UL	1	0.187	4.8	0.437	11.1	1000
SLCS-500-4-01	UL	1	0.250	6.4	0.437	11.1	1000
SLCS-500-6-01	UL	1	0.375	9.5	0.437	11.1	1000
SLCS-500-8-01	UL	1	0.500	12.7	0.437	11.1	1000

Item No.	Approval	Figure	A		Ø C Max Bundle		Bulk Pack Qty
			in	mm	in	mm	
SLCS-500-16-01	UL	1	1.000	25.4	0.437	11.1	1000
SLCS-750-3-01	UL	1	0.187	4.8	0.687	17.5	1000
SLCS-750-4-01	UL	1	0.250	6.4	0.687	17.5	1000
SLCS-750-6-01	UL	1	0.375	9.5	0.687	17.5	1000
SLCS-750-8-01	UL	1	0.500	12.7	0.687	17.5	1000
SLCS-750-16-01	UL	1	1.000	25.4	0.687	17.5	1000
SLCSE-250-3-01	UL	2	0.187	4.8	0.220	5.6	1000
SLCSE-370-3-01	UL	2	0.187	4.8	0.350	8.9	1000
SLCSE-500-3-01	UL	2	0.187	4.8	0.470	12.0	1000
SLCSE-750-3-01	UL	2	0.187	4.8	0.730	18.4	1000
SLCSE2-250-3-01	UL	2	0.187	4.8	0.220	5.6	1000
SLCSE2-370-3-01	UL	2	0.187	4.8	0.350	8.9	1000
SLCSE2-500-3-01	UL	2	0.187	4.8	0.470	12.0	1000
SLCSE2-750-3-01	UL	2	0.187	4.8	0.730	18.4	1000

- Gathers and routes wire harnesses
- Standoff design provides spacing between the wire harnesses and the chassis

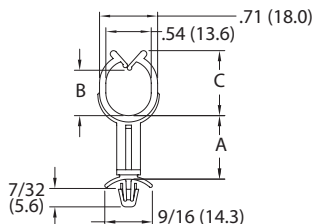
[illegible]

Figure 1

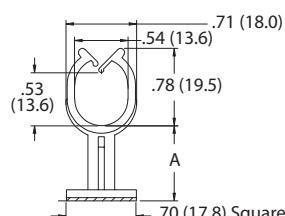
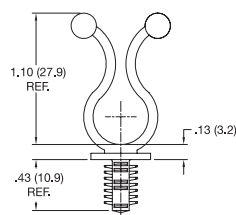
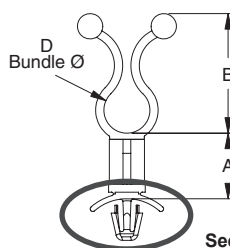
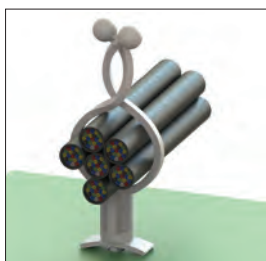


Figure 2

- Lifts wires off board to isolate from other board components
- Cable and wire bundles load and unload with a fingertip twist



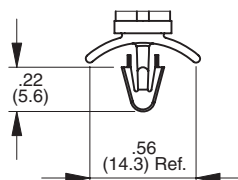
Item No.	Ø Bundle		Ø Mounting Hole		Min Board Thickness		Bulk Pack Qty
	in	mm	in	mm	in	mm	
STL-8-450-2-01	0.400 - 0.500	10.2 - 12.7	0.250	6.4	0.250	7.2	1000



Hole Ø: .187 (4.75)
Panel Thickness:
.031-.078 (0.8-2)

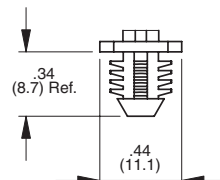
See Individual Styles for Mounting Details

STL Basic Style



Hole Ø: .156 (4)
Panel Thickness:
.031-.078 (0.8-2)

STL-1



Hole Ø: .312 (7.9)
Panel Thickness:
.250 (7.9) Minimum

STL-3

- Lifts wires off board to isolate from other board components
- Cable and wire bundles load and unload with a fingertip twist
- Four mounting styles

Item No.				Ø D Bundle		A Spacer Length		B Ref.		Bulk Pack Qty
STL Basic Style	STL-1	STL-3	Approval	in	mm	in	mm	in	mm	
STL-250-3-01	STL-1-250-3-01	STL-3-250-3-01	允	0.200 - 0.300	5.1 - 7.6	0.187	4.8	0.750	19.1	1000
STL-250-8-01	STL-1-250-8-01	STL-3-250-8-01	允	0.200 - 0.300	5.1 - 7.6	0.500	12.7	0.750	19.1	1000
STL-350-3-01	STL-1-350-3-01	STL-3-350-3-01	允	0.300 - 0.400	7.6 - 10.2	0.187	4.8	0.910	23.1	1000
STL-350-8-01	STL-1-350-8-01	STL-3-350-8-01	允	0.300 - 0.400	7.6 - 10.2	0.500	12.7	0.910	23.1	1000
STL-450-3-01	STL-1-450-3-01	STL-3-450-3-01	允	0.400 - 0.500	10.2 - 12.7	0.187	4.8	1.090	27.7	1000
STL-450-8-01	STL-1-450-8-01	STL-3-450-8-01	允	0.400 - 0.500	10.2 - 12.7	0.500	12.7	1.090	27.7	1000
STL-600-3-01	STL-1-600-3-01	STL-3-600-3-01	允	0.500 - 0.600	12.7 - 15.2	0.187	4.8	1.280	32.5	1000
STL-600-8-01	STL-1-600-8-01	STL-3-600-8-01	允	0.500 - 0.600	12.7 - 15.2	0.500	12.7	1.280	32.5	1000
STL-750-3-01	STL-1-750-3-01	STL-3-750-3-01	允	0.700 - 0.800	17.8 - 20.3	0.187	4.8	1.450	36.8	1000
STL-750-8-01	STL-1-750-8-01	STL-3-750-8-01	允	0.700 - 0.800	17.8 - 20.3	0.500	12.7	1.450	36.8	1000

TWIST TIES

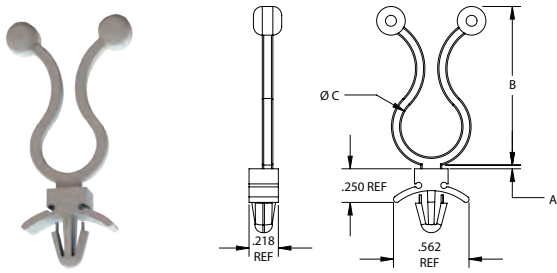
23EVS Series
Standoff Twist Locks

Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: See Table

Features:

- Unique locking base easily snaps into chassis by hand
- Cables and wires can be added or removed with the twist of a fingertip



Item No.		Ø C Bundle		Ø Mounting Hole		Panel Thickness		A Spacer Length		Ø Hole		B Ref.		Bulk Pack Qty
Natural	Black	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	
23EVS0200N0030	23EVS0200N0030B	0.200	5.1	0.187	4.7	0.030 - 0.078	0.8 - 2.0	0.011	0.3	0.187	4.7	0.844	21.4	1000
23EVS0250N0954	23EVS0250N0954B	0.250	6.4	0.187	4.7	0.030 - 0.078	0.8 - 2.0	0.954	24.2	0.187	4.7	0.876	22.3	1000
23EVS0375N0030	23EVS0375N0030B	0.375	9.5	0.187	4.7	0.030 - 0.078	0.8 - 2.0	0.050	1.3	0.187	4.7	1.066	27.1	1000
23EVS0450N0030	23EVS0450N0030B	0.450	11.4	0.187	4.7	0.030 - 0.078	0.8 - 2.0	0.028	0.7	0.187	4.7	1.180	30.0	1000
23EVS0450N0625	23EVS0450N0625B	0.450	11.4	0.187	4.7	0.030 - 0.078	0.8 - 2.0	0.615	15.6	0.187	4.7	1.184	30.1	1000
23EVS0625N0028	23EVS0625N0028B	0.625	15.9	0.187	4.7	0.030 - 0.078	0.8 - 2.0	0.028	0.7	0.187	4.7	1.270	32.3	1000

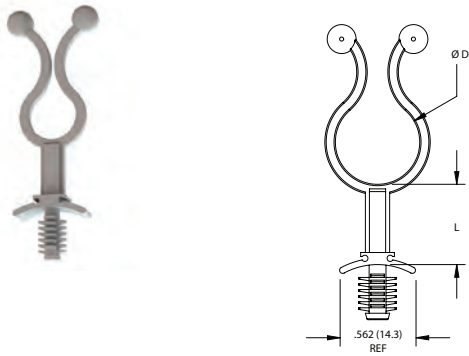
23EZF Series
Fir Tree Standoff Twist Locks

Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: See Table

Features:

- Lifts wires off board to isolate from other board components
- Quick and easy to use
- Cables and wires can be added or removed with the twist of a fingertip



Item No.		Ø D Bundle		Ø Mounting Hole		Panel Thickness		L		Bulk Pack Qty
Natural	Black	in	mm	in	mm	in	mm	in	mm	
23EZF037B025	23EZF037B025B	0.375	9.5	0.187	4.8	0.031 - 0.250	0.8 - 6.4	0.200	5.1	1000
23EZF037B037	—	0.375	9.5	0.187	4.8	0.031 - 0.250	0.8 - 6.4	0.315	8.0	1000
23EZF037B050	—	0.375	9.5	0.187	4.8	0.031 - 0.250	0.8 - 6.4	0.437	11.1	1000
23EZF037B062	23EZF037B062B	0.375	9.5	0.187	4.8	0.031 - 0.250	0.8 - 6.4	0.555	14.1	1000
23EZF050C037	23EZF050C037B	0.500	12.7	0.250	6.4	0.031 - 0.250	0.8 - 6.4	0.318	8.1	1000
23EZF050C050	—	0.500	12.7	0.250	6.4	0.031 - 0.250	0.8 - 6.4	0.447	11.4	1000
23EZF050C062	—	0.500	12.7	0.250	6.4	0.031 - 0.250	0.8 - 6.4	0.596	15.1	500
23EZF050C100	—	0.500	12.7	0.250	6.4	0.031 - 0.250	0.8 - 6.4	0.942	23.9	500
23EZF062C037	23EZF062C037B	0.625	15.9	0.250	6.4	0.031 - 0.250	0.8 - 6.4	0.319	8.1	1000
23EZF062C050	—	0.625	15.9	0.250	6.4	0.031 - 0.250	0.8 - 6.4	0.442	11.2	500
23EZF062C062	—	0.625	15.9	0.250	6.4	0.031 - 0.250	0.8 - 6.4	0.595	15.1	500
23EZF062C100	—	0.625	15.9	0.250	6.4	0.031 - 0.250	0.8 - 6.4	0.935	23.8	500

BHKL Series
Fir-Tree Curly Locks

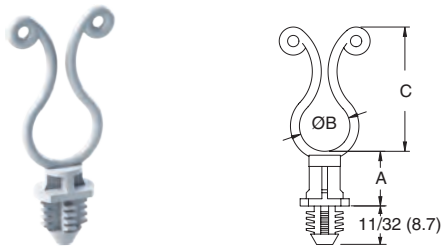


Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural
- To press fit in a .312 (7.9) Ø hole in a 0.250 (6.4) minimum panel thickness

Features:

- Ends twist into place with very little effort
- Releasable and reusable for easy wire bundling
- Rounded edges prevent abrasion



Item No.	Approval	Ø B Bundle		A		C Ref.		Bulk Pack Qty
		in	mm	in	mm	in	mm	
BHKL-350-4-01	RA	0.300 - 0.400	7.6 - 10.2	0.250	6.4	1.000	25.4	1000
BHKL-350-10-01	RA	0.300 - 0.400	7.6 - 10.2	0.625	15.9	1.000	25.4	1000
BHKL-450-4-01	RA	0.400 - 0.500	10.2 - 12.7	0.250	6.4	1.125	28.6	1000
BHKL-450-6-01	RA	0.400 - 0.500	10.2 - 12.7	0.375	9.5	1.125	28.6	1000
BHKL-750-4-01	RA	0.700 - 0.800	17.8 - 20.3	0.250	6.4	1.500	38.1	1000
BHKL-750-6-01	RA	0.700 - 0.800	17.8 - 20.3	0.375	9.5	1.500	38.1	1000

KLBS/23EZAB Series
Adhesive Mount Standoff Curly Locks



Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: See Table

Features:

- Ends twist into place with very little effort
- Releasable and reusable for easy wire bundling
- Rounded edges prevent abrasion

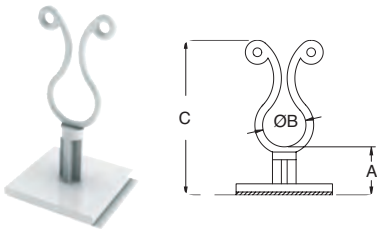


Figure 1



Figure 2

Item No.		Figure	Approval	A		Ø B Bundle		C Ref.		Base		Bulk Pack Qty
Natural	Black			in	mm	in	mm	in	mm	in	mm	
KLBS-350-401A	—	1	RU	0.250	6.4	0.300 - 0.400	7.6 - 10.2	1.281	32.5	1.000 x 1.000	25.4 x 25.4	1000
KLBS-3508-01A	—	1	RU	0.500	12.7	0.300 - 0.401	7.6 - 10.2	1.531	38.9	1.000 x 1.000	25.4 x 25.4	1000
KLBS-35012-01A	—	1	RU	0.750	19.1	0.300 - 0.402	7.6 - 10.2	1.781	45.2	1.000 x 1.000	25.4 x 25.4	1000
KLBS-35016-01A	—	1	RU	1.000	25.4	0.300 - 0.403	7.6 - 10.2	2.031	51.6	1.000 x 1.000	25.4 x 25.4	1000
23EZABS450TAB	23EZABS450TABB	2	—	1.070	27.2	0.450	11.4	2.149	54.6	1.000 x 1.000	25.4 x 25.4	1000
23EZAB450TAB	23EZAB450TABB	2	—	0.190	4.8	0.450	11.4	1.230	31.2	1.000 x 0.520	25.4 x 13.2	1000
23EZAB580TAB	—	2	—	0.190	4.8	0.580	14.7	1.400	35.6	0.870 x 0.520	22.1 x 13.2	1000

KLB Series
Adhesive Mount Curly Locks

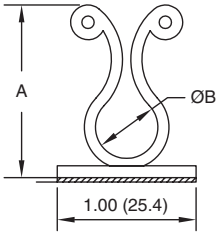


Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:

- Cables are locked in place with a fingertip twist
- Cables are easily removable with another fingertip twist
- Quick mounting adhesive base does not require through-hole



Item No.	Approval	Ø B Bundle		A Ref.		Base Depth		Bulk Pack Qty
		in	mm	in	mm	in	mm	
KLB-350A-RT	RU	0.300 - 0.400	7.6 - 10.2	1.070	27.2	0.510	13.0	1000
KLB-450A-RT	RU	0.400 - 0.500	10.2 - 12.7	1.230	31.2	0.510	13.0	1000
KLB-750A-RT	RU	0.700 - 0.800	17.8 - 20.3	1.580	40.1	0.510	13.0	1000

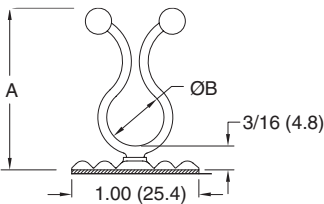
TLFB Series
Twist Locks on Flexible Adhesive Base

Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:

- Flexible rubber based adhesive base can be mounted onto contoured surfaces
- Cables are locked into place with a fingertip twist



Item No.	Ø B Bundle		A Ref.		Base Depth		Bulk Pack Qty
	in	mm	in	mm	in	mm	
TLFB-350-01A1	0.300 - 0.400	0.08 - 10.2	1.150	29.3	0.500	12.7	1000
TLFB-450-01A1	0.400 - 0.500	10.2 - 12.7	1.270	32.3	0.500	12.7	1000
TLFB-750-01A1	0.700 - 0.800	17.8 - 20.3	1.610	40.9	0.500	12.7	1000

TLJ Series
Snap In Twist Locks

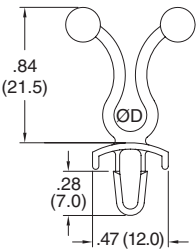


Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:

- Ends twist into place with very little effort
- Releasable and reusable for easy wire bundling



Item No.	Approval	Ø D Bundle		Ø Mounting Hole		Panel Thickness		Bulk Pack Qty
		in	mm	in	mm	in	mm	
TLJ-200-01	RU	0.150 - 0.250	3.8 - 6.4	0.187	4.8	0.031 - 0.078	0.8 - 2.0	1000

TWIST TIES

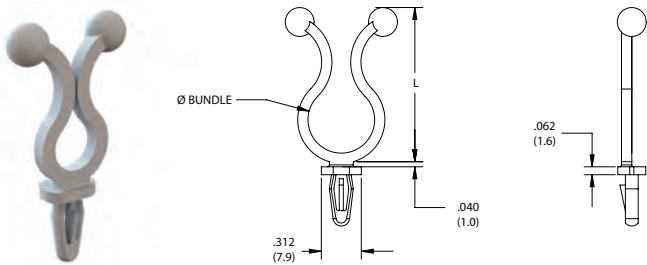
23EVS Series
Snap In Twist Locks

Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:

- Unique locking base easily snaps into chassis by hand
- Cables and wires can be added or removed with the twist of a fingertip



Item No.	Ø Bundle		Ø Mounting Hole		Panel Thickness		L		Bulk Pack Qty
	in	mm	in	mm	in	mm	in	mm	
23EVS0250C0040	0.250	6.4	0.156	4.0	0.063	1.6	0.875	22.2	1000
23EVS0375C0040	0.375	9.5	0.156	4.0	0.063	1.6	1.078	27.4	1000
23EVS0500C0040	0.500	12.7	0.156	4.0	0.063	1.6	1.203	30.6	1000

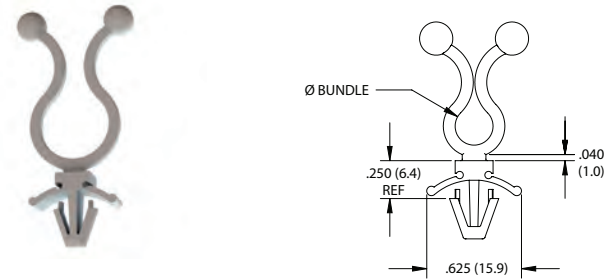
23EVS Series
Snap In Twist Locks

Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: See Table

Features:

- Unique locking base easily snaps into chassis by hand
- Cables and wires can be added or removed with the twist of a fingertip



Item No.		Ø Bundle		Ø Mounting Hole		Panel Thickness		Bulk Pack Qty
Natural	Black	in	mm	in	mm	in	mm	
23EVS0250B0040	23EVS0250B0040B	0.250	6.4	0.250	6.4	0.047 - 0.109	1.2 - 2.8	1000
23EVS0375B0040	23EVS0375B0040B	0.375	9.5	0.250	6.4	0.047 - 0.109	1.2 - 2.8	1000
23EVS0500B0040	23EVS0500B0040B	0.500	12.7	0.250	6.4	0.047 - 0.109	1.2 - 2.8	1000

SKL/SKLO Series
Side Entry & 45° Curly Locks



Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural
- Mounting Hole: .187 (4.8)
- Panel Thickness: .031 - .078 (0.8 - 2.0)

Features:

- Gathers and routes wires
- Ends twist into place with very little effort
- Releasable and reusable for easy wire bundling
- Eases installation in hard to reach places

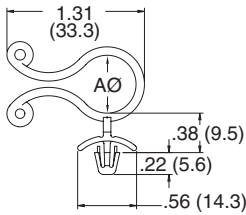


Figure 1

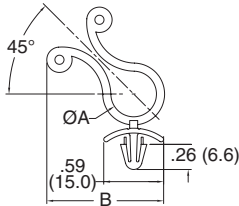


Figure 2

Item No.	Approval	Figure	Ø A Bundle		B Ref.		Bulk Pack Qty
			in	mm	in	mm	
SKLO-550-01	UL	1	0.500 - 0.600	12.7 - 15.2	See Figure 1		1000
SKL45-250	UL	2	0.150 - 0.250	3.8 - 6.35	0.980	24.9	1000
SKL45-350	UL	2	0.300 - 0.400	7.6 - 10.0	1.070	27.2	1000
SKL45-450	UL	2	0.400 - 0.470	10.0 - 12.0	1.120	28.4	1000

KLH/TLH/TLHE Series
Screw Mount Hinged Twist Locks

Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:

- Ends twist into place with very little effort
- Releasable and reusable for easy wire bundling
- Hinged design makes it easier to adjust your wire angles as needed for the application
- Screw mount design for easy and fast assembly

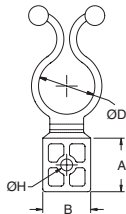


Figure 1

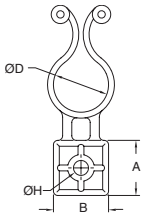
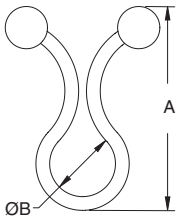


Figure 2



Item No.	Approval	Figure	Ø D Bundle		Ø H Hole		Recommended Screw Size	A		B		Bulk Pack Qty
			in	mm	in	mm		in	mm	in	mm	
TLH-800-01	UL	1	0.750 - 0.850	19.0 - 21.6	0.160	4.1	#6 or M3	0.75	19.0	0.67	17.0	1000
TLH-500-01	—	1	0.450 - 0.550	11.4 - 14.0	0.170	4.2	#8 or M4	0.56	14.2	0.55	14.0	1000
TLHE-1-750-01	—	1	0.700 - 0.800	17.8 - 20.3	0.204	5.2	#10 or M5	0.75	19.0	0.67	17.0	1000
KLH-750-01	UL	2	0.700 - 0.800	17.8 - 20.3	0.204	5.2	#10 or M5	0.75	19.0	0.75	19.0	1000

TL/TT/23EZ Series
Twist Locks



Specifications:

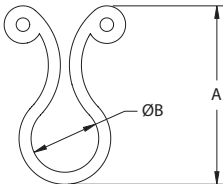
- Material: UL94 V-2 Nylon 6/6
- Color: See Table

Features:

- Ends twist into place with very little effort
- Releasable and reusable for easy wire bundling
- Smooth ball shaped ends won't cut into wire or cable insulation

Item No.		Approval	Ø B Bundle		A Ref.		Bulk Pack Qty
Natural	Black		in	mm	in	mm	
23EZ0125N	23EZ0125NB	—	0.110 - 0.140	2.8 - 3.6	0.715	18.1	1000
TT001A	—	—	0.15 - 0.19	3.8 - 4.8	0.850	21.6	100
TL-250	—		0.2 - 0.3	5.1 - 7.6	0.900	22.9	1000
TL-350	—		0.3 - 0.4	7.6 - 10.2	1.030	26.1	1000
TL-450	—		0.4 - 0.5	10.2 - 12.7	1.200	30.5	1000
TL-600	—		0.55 - 0.65	14.0 - 16.5	1.330	33.7	1000
TL-750	—		0.7 - 0.8	17.8 - 20.3	1.550	39.4	1000
TL-950	—		Max 1.000	25.4	1.700	43.4	1000
TL-1125	—		Max 1.187	30.2	2.190	55.6	1000
23EZ1125N	23EZ1125NB	—	1.200 - 1.300	30.5 - 33.0	2.170	55.1	1000
TL-1375	—		Max 1.437	36.5	2.680	68.1	1000
TL-1500	—		Max 1.562	39.7	2.930	74.4	1000
TL-1750	—		Max 1.812	46.0	3.450	87.6	1000
23EZ1750N	23EZ1750NB	—	1.900 - 2.000	48.3 - 50.8	3.460	87.9	1250

KL Series
Curly Locks



Specifications:

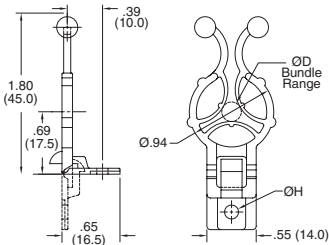
- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:

- Ends twist into place with very little effort
- Releasable and reusable for easy wire bundling
- Rounded edges prevent abrasion

Item No.	Approval	Ø B Bundle		A Ref.		Bulk Pack Qty
		in	mm	in	mm	
KL-125		0.125 - 0.150	3.2 - 3.8	0.48	12.2	1000
KL-200		0.160 - 0.240	4.1 - 6.1	0.82	20.7	1000
KL-250		0.200 - 0.300	5.1 - 7.6	0.91	23.0	1000
KL-350		0.300 - 0.400	7.6 - 10.2	1.03	26.2	1000
KL-450		0.400 - 0.500	10.2 - 12.7	1.20	30.5	1000
KL-600		0.550 - 0.650	14.0 - 16.5	1.25	31.8	1000
KL-750		0.700 - .0800	17.8 - 20.3	1.52	38.6	1000
KL-950		0.900 - 1.000	22.9 - 25.4	1.75	44.5	1000

WTLH Series
Webbed Hinged Twist Locks



Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:

- Once clamp is hinged, it locks into position
- Webbed design provides a positive lock

Item No.	Ø Bundle D		Ø H Hole		Recommended Screw Size	Bulk Pack Qty
	in	mm	in	mm		
WTLH90-300-4-01	0.140 - 0.480	3.6 - 12.2	0.130	3.3	#4 or M3	500
WTLH90-300-6-01	0.140 - 0.480	3.6 - 12.2	0.150	3.8	#6 or M3.5	500
WTLH90300-M4-01	0.140 - 0.480	3.6 - 12.2	0.170	4.3	#8 or M4	500

TWIST TIES

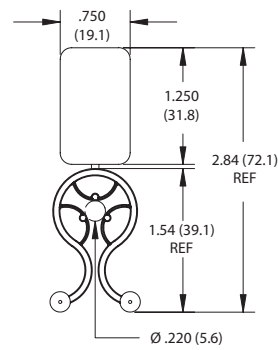
23EZLB Series
Webbed Labelled Twist Locks

Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:

- Cables and wires can be added or removed with the twist of a fingertip
- Additional arm inside the twist lock for holding smaller wires or bundles
- Can use permanent ink pens, felt tip pens, pressure sensitive adhesive labels or even Post-it notes on the polished label area



Item No.	Bulk Pack Qty
23EZLB0220	500

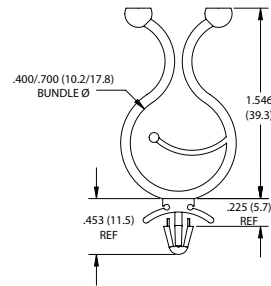
23EZSFA Series
Snap In Twist Locks with Locking Arm

Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:

- Unique locking base easily snaps into chassis by hand
- Cables and wires can be added or removed with the twist of a fingertip
- Additional arm inside the twist lock for holding smaller wires or bundles



Item No.	Ø Mounting Hole		Panel Thickness		Bulk Pack Qty
	in	mm	in	mm	
23EZSFA0500B0018	0.187	4.8	0.030 - 0.070	0.8 - 1.8	500

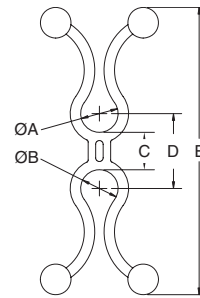
DTL/23DBEZ Series
Dual Twist Locks

Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:

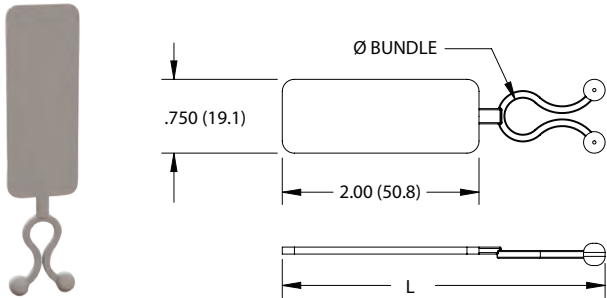
- Routes and separates two bundles
- Six bundle diameter ranges; from .20" - .80"
- Three spacer lengths; 1/4", 3/4" and 1-1/4"
- Cables are locked in place with a fingertip twist



Item No.	Ø A and Ø B Bundle		C		D		E		Bulk Pack Qty
	in	mm	in	mm	in	mm	in	mm	
DTL2525-4-01	0.200 - 0.300	5.1 - 7.6	0.250	6.4	0.500	12.7	1.920	48.8	500
DTL2525-12-01	0.200 - 0.300	5.1 - 7.6	0.750	19.1	1.000	25.4	2.420	61.5	500
DTL2525-20-01	0.200 - 0.300	5.1 - 7.6	1.250	31.8	1.500	38.1	2.920	74.2	500
DTL3535-4-01	0.300 - 0.400	7.6 - 10.2	0.250	6.4	0.600	15.2	2.180	55.4	500
23DBEZ001	0.300 - 0.400	7.6 - 10.2	0.688	17.5	—	—	2.750	69.8	500
DTL3535-12-01	0.300 - 0.400	7.6 - 10.2	0.750	19.1	1.100	27.9	2.680	68.1	500
DTL3535-20-01	0.300 - 0.400	7.6 - 10.2	1.250	31.8	1.600	40.6	3.180	80.8	500
DTL4545-4-01	0.400 - 0.500	10.2 - 12.7	0.250	6.4	0.600	15.2	2.180	55.4	500
23DBEZ002	0.400 - 0.500	10.2 - 12.7	0.688	17.5	—	—	2.969	74.4	250
DTL4545-12-01	0.400 - 0.500	10.2 - 12.7	0.750	19.1	1.100	27.9	2.680	68.1	500
DTL4545-20-01	0.400 - 0.500	10.2 - 12.7	1.250	31.8	1.600	40.6	3.180	80.8	500
DTL5555-4-01	0.500 - 0.600	12.7 - 15.2	0.250	6.4	0.600	15.2	2.180	55.4	500
DTL5555-12-01	0.500 - 0.600	12.7 - 15.2	0.750	19.1	1.100	27.9	2.680	68.1	500
DTL5555-20-01	0.500 - 0.600	12.7 - 15.2	1.250	31.8	1.600	40.6	3.180	80.8	500
DTL6565-4-01	0.600 - 0.700	15.2 - 17.8	0.250	6.4	0.600	15.2	2.180	55.4	500
DTL6565-12-01	0.600 - 0.700	15.2 - 17.8	0.750	19.1	1.100	27.9	2.680	68.1	500
DTL6565-20-01	0.600 - 0.700	15.2 - 17.8	1.250	31.8	1.600	40.6	3.180	80.8	500
DTL7575-4-01	0.700 - 0.800	17.8 - 20.3	0.250	6.4	1.000	25.4	3.100	78.7	500
DTL7575-12-01	0.700 - 0.800	17.8 - 20.3	0.750	19.1	1.500	38.1	3.600	91.4	500
DTL7575-20-01	0.700 - 0.800	17.8 - 20.3	1.250	31.8	2.000	50.8	4.100	104.1	500

TWIST TIES / CABLE CLIPS

23EZLB Series
Label Twist Locks



Specifications:

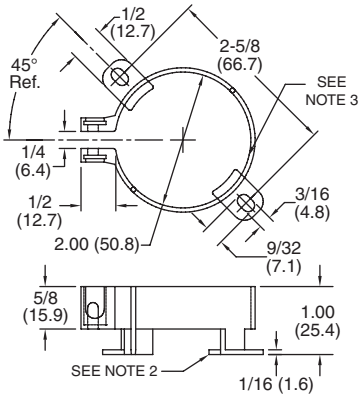
- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:

- Can use permanent ink pens, felt tip pens, pressure sensitive adhesive labels or even Post-it notes on the polished label area
- Resists corrosion and abrasion

Item No.	Ø Bundle		L		Bulk Pack Qty
	in	mm	in	mm	
23EZLB0250	0.250	6.4	3.094	78.6	500
23EZLB0375	0.375	9.5	3.281	83.3	500

SCH/SCHS Series
Standoff Capacitor Holders



Specifications:

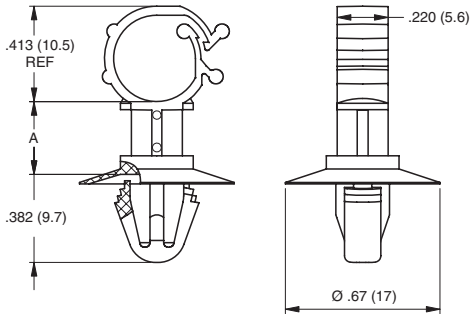
- Material: UL94 HB Glass Filled Nylon 6/6
- Color: Black

Optional:

1. Clamping hardware; Screw (S6B)
Stainless Steel, Zinc Plating;
Quick Nut (QN-6) Spring Steel C1050,
Coating: Black Phosphate
2. Spacer to elevate capacitor 3/32 (2.4)
from chassis
3. Anti-rotation rib (3 locations)

Item No.	Description	Bulk Pack Qty
SCHS-2	w/ Spacer, w/o Hardware (see 1 above)	100
SCH-2	w/o Spacer, w/o Hardware	100

SCC Series
Standoff Cable Clips Side Entry



Specifications:

- Material: UL94 V-0 Nylon 6/6
- Color: Natural

Features:

- Different spacer heights to lift cables away from other components
- Cables securely held in place

Item No.	A		Ø Mounting Hole		Panel Thickness Range		Ø Max Bundle		Bulk Pack Qty
	in	mm	in	mm	in	mm	in	mm	
SCC-SE-4-19	0.157	4.0	0.256 - 0.276	6.5 - 7.0	0.031 - 0.049	0.8 - 1.25	0.354	9.0	1000
SCC-SE-8-19	0.315	8.0	0.256 - 0.276	6.5 - 7.0	0.031 - 0.049	0.8 - 1.25	0.354	9.0	1000
SCC-SE-10-19	0.394	10.0	0.256 - 0.276	6.5 - 7.0	0.031 - 0.049	0.8 - 1.25	0.354	9.0	1000
SCC-SE-12-19	0.472	12.0	0.256 - 0.276	6.5 - 7.0	0.031 - 0.049	0.8 - 1.25	0.354	9.0	1000

CABLE CLIPS & CLEATS

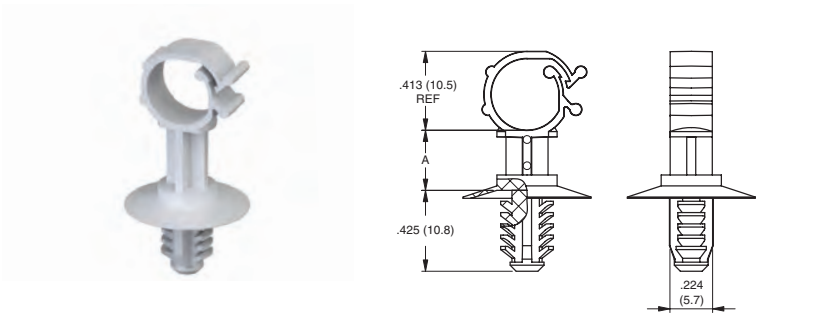
SCCBH Series
Standoff Cable Clips Side Entry

Specifications:

- Material: UL94 V-0 Nylon 6/6
- Color: Natural

Features:

- Different spacer heights to lift cables away from other components
- Cables securely held in place



Item No.	A		Ø Mounting Hole		Min. Panel Thickness		A		Ø Max Bundle		Bulk Pack Qty
	in	mm	in	mm	in	mm	in	mm	in	mm	
SCCBH-SE-4-19	0.157	4.0	0.256	6.5	0.028	0.7	0.157	4.0	0.354	9.0	1000
SCCBH-SE-8-19	0.315	8.0	0.256	6.5	0.028	0.7	0.315	8.0	0.354	9.0	1000
SCCBH-SE-10-19	0.394	10.0	0.256	6.5	0.028	0.7	0.394	10.0	0.354	9.0	1000
SCCBH-SE-12-19	0.472	12.0	0.256	6.5	0.028	0.7	0.472	12.0	0.354	9.0	1000

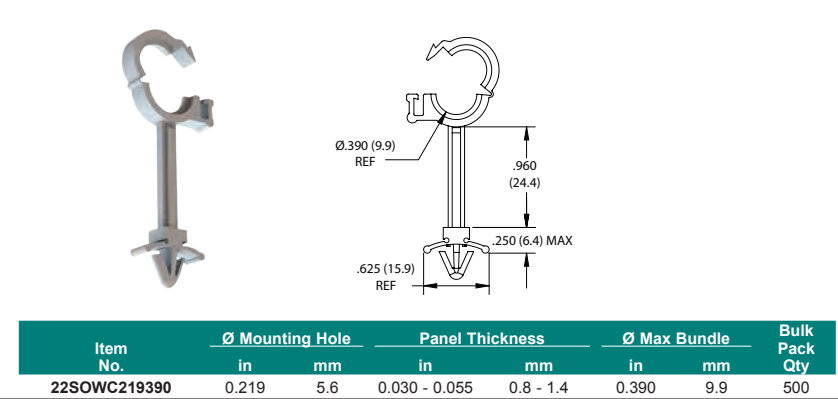
22SOWC Series
Standoff Clamps

Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

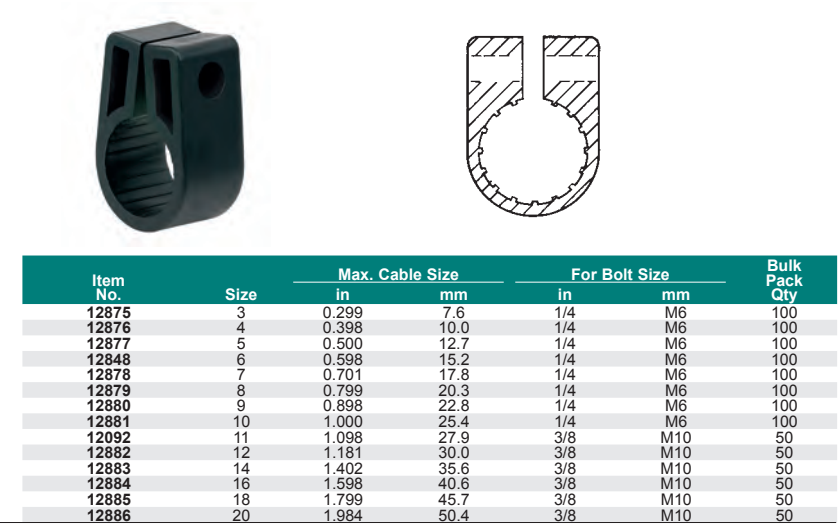
Features:

- Resistant to corrosion, vibration and abrasion



Item No.	Ø Mounting Hole		Panel Thickness		Ø Max Bundle		Bulk Pack Qty
	in	mm	in	mm	in	mm	
22SOWC219390	0.219	5.6	0.030 - 0.055	0.8 - 1.4	0.390	9.9	500

Cable Cleats



Specifications:

- Material: Low-Density Polyethylene
- Color: Black

Features:

- Offers a high-strength cable restraint
- Secures cables from various forces and provides strain relief
- Corrosion resistant

Item No.	Size	Max. Cable Size		For Bolt Size		Bulk Pack Qty
		in	mm	in	mm	
12875	3	0.299	7.6	1/4	M6	100
12876	4	0.398	10.0	1/4	M6	100
12877	5	0.500	12.7	1/4	M6	100
12848	6	0.598	15.2	1/4	M6	100
12878	7	0.701	17.8	1/4	M6	100
12879	8	0.799	20.3	1/4	M6	100
12880	9	0.898	22.8	1/4	M6	100
12881	10	1.000	25.4	1/4	M6	100
12092	11	1.098	27.9	3/8	M10	50
12882	12	1.181	30.0	3/8	M10	50
12883	14	1.402	35.6	3/8	M10	50
12884	16	1.598	40.6	3/8	M10	50
12885	18	1.799	45.7	3/8	M10	50
12886	20	1.984	50.4	3/8	M10	50

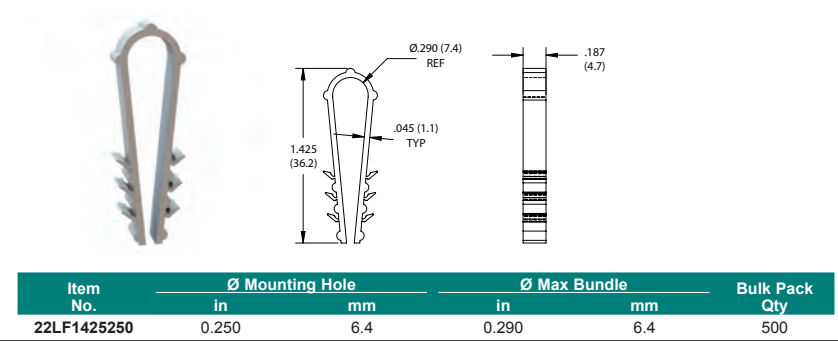
22LF Series
Loop Fasteners

Specifications:

- Material: High Density Polyethylene
- Color: Natural

Features:

- Used for the installation of pipes or cables on a wall or ceiling
- Easy to install
- Slip the "U" shaped fastener over wire or tube and push into drilled hole



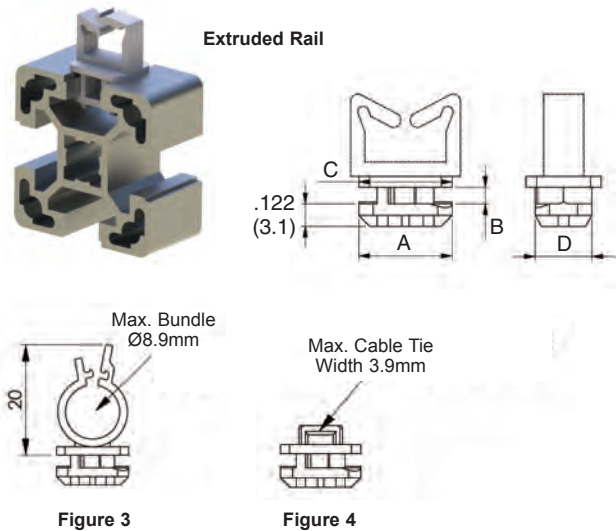
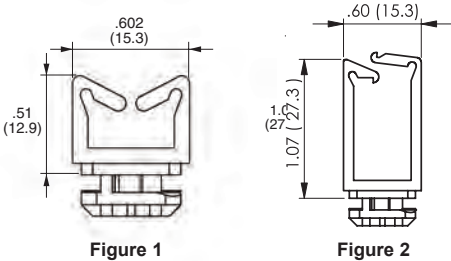
Item No.	Ø Mounting Hole		Ø Max Bundle		Bulk Pack Qty
	in	mm	in	mm	
22LF1425250	0.250	6.4	0.290	6.4	500

CABLE CLIPS / WIRE SADDLES

XRC Series
Cable Clips for Extruded Metal Rails

- Specifications:
- Material: UL94 V-2 Glass Filled Nylon 6/6
 - Color: Natural

- Features:
- Several clip styles available
 - Available for several different extruded rail sizes
 - Two types of mounting; quarter turn or push in

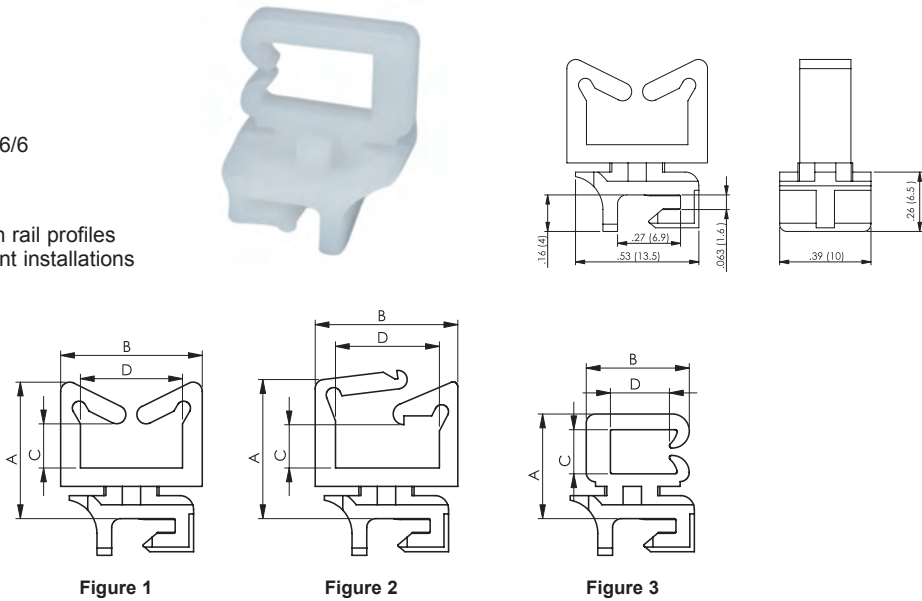


Item No.	Figure	A		B		C		D		Extruded Rail Size	Bulk Pack Qty
		in	mm	in	mm	in	mm	in	mm		
XRC2-WS101	1	0.394	10.0	0.063	1.6	0.394	10.0	0.228	5.8	20 x 20	1000
XRC3-WS101	1	0.512	13.0	0.091	2.3	0.512	13.0	0.311	7.9	30 x 30	1000
XRC4-WS101	1	0.630	16.0	0.242	6.2	0.630	16.0	0.386	9.8	40 x 40	1000
XRC2-LWS01	2	0.394	10.0	0.063	1.6	0.394	10.0	0.228	5.8	20 x 20	1000
XRC3-LWS01	2	0.512	13.0	0.091	2.3	0.512	13.0	0.311	7.9	30 x 30	1000
XRC4-LWS01	2	0.630	16.0	0.242	6.2	0.630	16.0	0.386	9.8	40 x 40	1000
XRC2-WSLT01	3	0.394	10.0	0.063	1.6	0.394	10.0	0.228	5.8	20 x 20	1000
XRC3-WSLT01	3	0.512	13.0	0.091	2.3	0.512	13.0	0.311	7.9	30 x 30	1000
XRC4-WSLT01	3	0.630	16.0	0.242	6.2	0.630	16.0	0.386	9.8	40 x 40	1000
XRC2-TH01	4	0.394	10.0	0.063	1.6	0.394	10.0	0.228	5.8	20 x 20	1000
XRC3-TH01	4	0.512	13.0	0.091	2.3	0.512	13.0	0.311	7.9	30 x 30	1000
XRC4-TH01	4	0.630	16.0	0.242	6.15	0.630	16.0	0.386	9.8	40 x 40	1000

DRC Series
DIN Rail Wire Saddles

- Specifications:
- Material: UL94 V-2 Nylon 6/6
 - Color: Natural

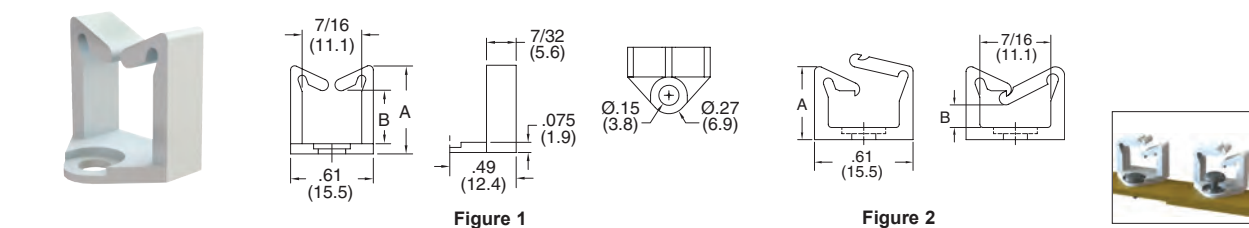
- Features:
- For use in all common DIN rail profiles
 - Can be retrofitted to current installations



Item No.	Figure	A		B		C		D		Din Rail Style	Bulk Pack Qty
		in	mm	in	mm	in	mm	in	mm		
DRCC-WS01	1	0.583	14.8	0.606	15.4	0.189	4.8	0.437	11.1	C-Profile	1000
DRCC-LWS01	2	0.594	15.1	0.610	15.5	0.142	3.6	0.445	11.3	C-Profile	1000
DRCC-SEC01	3	0.449	11.4	0.441	11.2	0.189	4.8	0.252	6.4	C-Profile	1000
DRCT-WS01	1	0.583	14.8	0.606	15.4	0.189	4.8	0.437	11.1	Top Hat Profile	1000
DRCT-LWS01	2	0.594	15.1	0.610	15.5	0.142	3.6	0.445	11.3	Top Hat Profile	1000
DRCT-SEC01	3	0.449	11.4	0.441	11.2	0.189	4.8	0.252	6.4	Top Hat Profile	1000
DRCG-WS01	1	0.583	14.8	0.606	15.4	0.189	4.8	0.437	11.1	G-Profile	1000
DRCG-LWS01	2	0.594	15.1	0.610	15.5	0.142	3.6	0.445	11.3	G-Profile	1000
DRCG-SEC01	3	0.449	11.4	0.441	11.2	0.189	4.8	0.252	6.4	G-Profile	1000

WIRE SADDLES

WS-SR/LWS-SR Series
Wire Saddles - Snap Rivet Mount

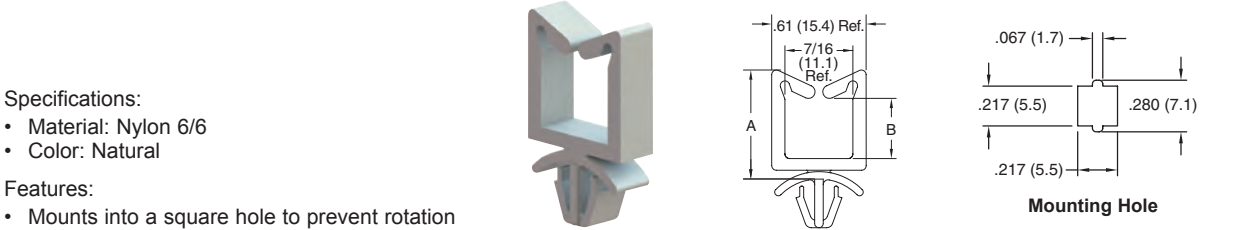


- Specifications:
- Material: UL94 V-2 Nylon 6/6
 - Color: Natural
- Features:
- Designed to mount easily on chassis with plastic SR rivet (See Table) or a #6 screw
 - Allows mounting to a wide range of panel thicknesses; up to 0.219" thick

Use Essentra Rivet Number	Chassis Thickness Range	
	in	mm
SR-3535	0.010 - 0.046	0.3 - 1.2
SR-3545	0.046 - 0.081	1.2 - 2.1
SR-3550	0.069 - 0.105	1.8 - 2.7
SR-3555	0.081 - 0.120	2.1 - 3.7
SR-3560	0.109 - 0.144	2.8 - 3.7
SR-3570	0.140 - 0.180	3.6 - 4.6
SR-3580	0.180 - 0.219	4.6 - 5.6

Item No.	Figure	A		B		Ø Mounting Hole		Bulk Pack Qty
		in	mm	in	mm	in	mm	
WS-SR-1-01	1	0.45	11.4	0.17	4.3	0.142 - 0.146	3.6 - 3.7	1000
LWS-SR-1-01	2	0.45	11.4	0.14	3.6	0.142 - 0.146	3.6 - 3.7	1000
WS-SR-2-01	1	0.64	16.3	0.36	9.1	0.142 - 0.146	3.6 - 3.7	1000
LWS-SR-2-01	2	0.64	16.3	0.34	8.6	0.142 - 0.146	3.6 - 3.7	1000
WS-SR-3-01	1	1.00	25.4	0.73	18.5	0.142 - 0.146	3.6 - 3.7	1000
LWS-SR-3-01	2	1.00	25.4	0.72	18.3	0.142 - 0.146	3.6 - 3.7	1000
WS-SR-4-01	1	1.31	33.3	1.04	26.4	0.142 - 0.146	3.6 - 3.7	1000
LWS-SR-4-01	2	1.31	33.3	1.00	25.4	0.142 - 0.146	3.6 - 3.7	1000

WS-SH Series
Wire Saddles - Square Hole Mount



- Specifications:
- Material: Nylon 6/6
 - Color: Natural
- Features:
- Mounts into a square hole to prevent rotation

Item No.		Approval	Panel Thickness		A Ref.		B Ref.		Depth		Bulk Pack Qty
UL94 V-2	UL94 V-0		in	mm	in	mm	in	mm	in	mm	
WS-SH-1-01	WS-SH-1-19	UL	0.031 - 0.078	0.8 - 2.0	0.51	13.0	0.19	4.8	0.219	5.6	1000
WS-SH-2-01	WS-SH-2-19	UL	0.031 - 0.078	0.8 - 2.0	0.70	17.8	0.39	10.0	0.219	5.6	1000
WS-SH-3-01	WS-SH-3-19	UL	0.031 - 0.078	0.8 - 2.0	1.06	26.9	0.75	19.1	0.219	5.6	1000
WS-SH-4-01	WS-SH-4-19	UL	0.031 - 0.078	0.8 - 2.0	1.37	34.8	1.07	27.2	0.219	5.6	1000

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WIRE SADDLES

WS-SE/LWS-SE/22SEWC Series
Wire Saddles - Side Entry

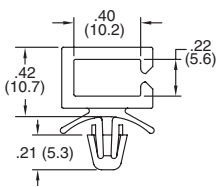


Figure 1

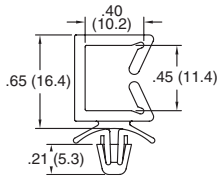


Figure 2

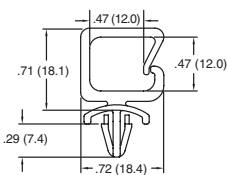


Figure 3

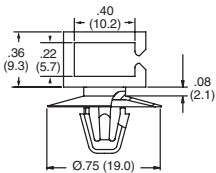


Figure 4

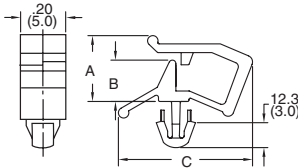


Figure 5

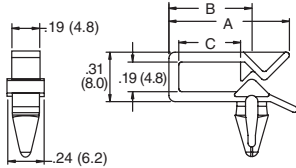


Figure 6

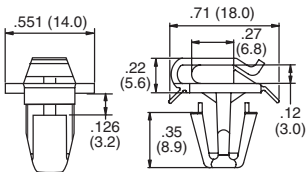


Figure 7

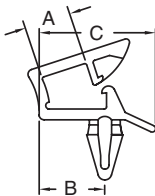


Figure 8

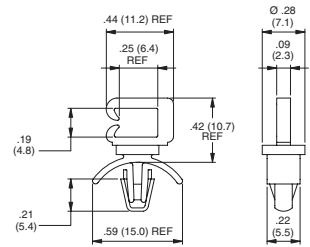


Figure 9

Specifications:

- Material: Nylon 6/6
- Color: Natural

Features:

- Gathers and routes single or groups of wires and cables
- Side entry provides low height where clearance is a problem

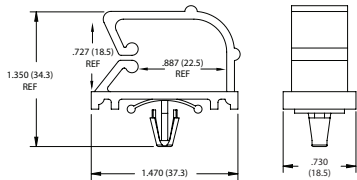


Figure 10

Item No.		Approval	Figure	A Ref.		B		C Ref.		Ø Mounting Hole		Panel Thickness		Bulk Pack Qty
UL94V-2	UL94 V-0			in	mm	in	mm	in	mm	in	mm	in	mm	
WS-SE-A-1-01	WS-SE-A-1-19	—	1			See Figure 1				0.187	4.8	0.031 - 0.078	0.8 - 2.0	1000
WS-SE-A-2-01	WS-SE-A-2-19	—	2			See Figure 2				0.187	4.8	0.031 - 0.078	0.8 - 2.0	1000
WS-SE-A-3-01	WS-SE-A-3-19	—	3			See Figure 3				0.187	4.8	0.024 - 0.071	0.6 - 1.8	1000
WS-SE-A-4-01	WS-SE-A-4-19	—	4			See Figure 4				0.256	6.5	0.031 - 0.078	0.8 - 2.0	1000
WS-SE1-1-01	—	UL	5	0.190	4.8	0.090	2.4	0.500	12.7	0.138	3.5	0.020 - 0.063	0.5 - 1.6	1000
WS-SE1-2-01	—	UL	5	0.260	6.7	0.160	4.2	0.590	15.1	0.138	3.5	0.020 - 0.063	0.5 - 1.6	1000
WS-SE1-3-01	—	UL	5	0.340	8.5	0.230	5.7	0.810	20.3	0.138	3.5	0.020 - 0.063	0.5 - 1.6	1000
WS-SE2-1-01	—	UL	6	0.650	16.6	0.410	10.5	0.280	7.1	0.187	4.8	0.020 - 0.063	0.5 - 1.6	1000
WS-SE2-2-01	—	UL	6	0.770	19.5	0.530	13.4	0.390	10.0	0.187	4.8	0.020 - 0.063	0.5 - 1.6	1000
WS-SE3-1-01	—	—	7			See Figure 7				0.314	8.0	0.062 - 0.102	1.6 - 2.6	1000
LWS-SE2-1-01	—	UL	8	0.270	6.9	0.380	9.7	0.670	17.0	0.187	4.8	0.020 - 0.063	0.5 - 1.6	1000
LWS-SE2-2-01	—	UL	8	0.400	10.2	0.530	13.5	0.800	20.8	0.187	4.8	0.020 - 0.063	0.5 - 1.6	1000
WS-SE-C-1-19	—	UL	9			See Figure 9				0.187	4.8	0.031 - 0.078	0.8 - 2.0	1000
22SEWC750100	—	—	10	—	—	—	—	—	—	0.250	6.4	0.105	2.7	100

WIRE SADDLES

SMWSLT Series
Side Mount Wire Saddles

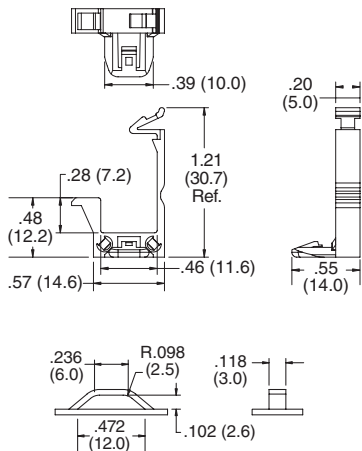


Specifications:

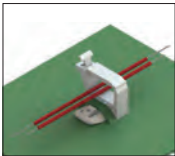
- Material: UL94 V-0 Nylon 6/6
- Color: Natural

Features:

- No protrusion through the chassis
- No risk of rotation
- Easy to install
- Removable by depressing locking tab
- Cables are locked in place yet easily removed

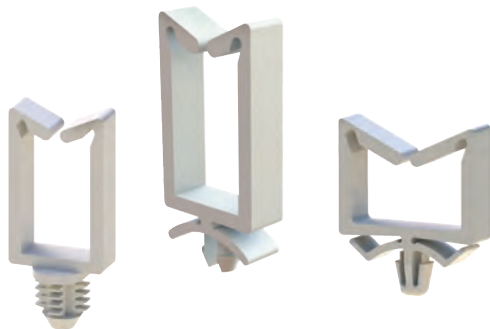


Mounting Dimensions



Item No.	Bulk Pack Qty
SMWSLT-1-19	1000

WS/WSW/WSBH Series
Wire Saddles



Specifications:

- Material: Nylon 6/6
- Color: Natural
- Depth: 0.22 (5.6)

Features:

- Gathers and routes cables or wires
- WSBH parts are designed to mount in blind holes

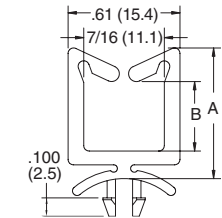


Figure 1

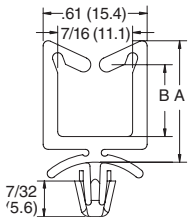


Figure 2

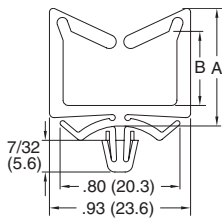


Figure 3

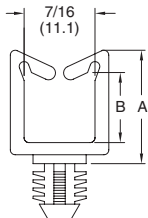


Figure 4

Item No.		Approval	Figure	A Ref.		B Ref.		Ø Mounting Hole		Panel Thickness		Bulk Pack Qty
UL94V-2	UL94 V-0			in	mm	in	mm	in	mm	in	mm	
WS-1-01	WS-1-19	UL	1	0.52	13.2	0.19	4.8	0.187	4.8	0.062	1.6	1000
WS-A-1-01	WS-A-1-19	UL	2	0.52	13.2	0.19	4.8	0.187	4.8	0.062	1.6	1000
WSBH-1-01	—	UL	4	0.52	13.2	0.19	4.8	0.312	7.9	0.250	6.4	1000
WS-2-01	WS-2-19	UL	1	0.71	18.0	0.38	9.7	0.187	4.8	0.062	1.6	1000
WS-A-2-01	WS-A-2-19	UL	2	0.71	18.0	0.38	9.7	0.187	4.8	0.062	1.6	1000
WS-A-2-1-01	WS-A-2-1-19	UL	2	0.71	18.0	0.38	9.7	0.187	4.8	0.062	1.6	1000
WS-A-2-2-01	WS-A-2-2-19	UL	2	0.71	18.0	0.38	9.7	0.187	4.8	0.125	3.2	1000
WSBH-2-01	—	UL	4	0.71	18.0	0.38	9.7	0.312	7.9	0.250	6.4	1000
WWS-A-2-01	WWS-A-2-19	UL	3	0.77	19.6	0.50	12.7	0.187	4.8	0.047	1.19	1000
WS-3-01	WS-3-19	UL	1	1.07	27.2	0.74	18.8	0.187	4.8	0.062	1.6	1000
WS-A-3-01	WS-A-3-19	UL	2	1.07	27.2	0.74	18.8	0.187	4.8	0.062	1.6	1000
WS-A-2-3-01	WS-A-2-3-19	UL	2	1.07	27.2	0.74	18.8	0.187	4.8	0.125	3.2	1000
WSBH-3-01	—	UL	4	1.07	27.2	0.74	18.8	0.312	7.9	0.250	6.4	1000
WWS-A-3-01	WWS-A-3-19	UL	3	1.12	28.5	0.85	21.6	0.187	4.8	0.047	1.19	1000
WS-4-01	WS-4-19	UL	1	1.38	35.0	1.05	26.7	0.187	4.8	0.062	1.6	1000
WS-A-4-01	WS-A-4-19	UL	2	1.38	35.0	1.05	26.7	0.187	4.8	0.062	1.6	1000
WS-A-2-4-01	WS-A-2-4-19	UL	2	1.38	35.0	1.05	26.7	0.187	4.8	0.125	3.2	1000
WSBH-4-01	—	UL	4	1.38	35.0	1.05	26.7	0.312	7.9	0.250	6.4	1000

WIRE SADDLES



22MWHA/22WHA/22WHB Series
Wire/Cable Holders

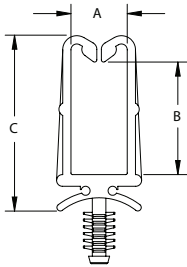


Figure 1

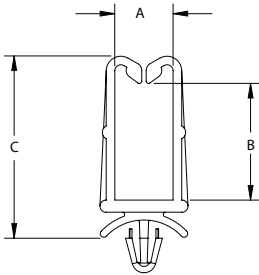
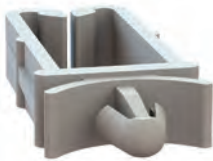


Figure 2

Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: See Table

Features:

- Can be used in a variety of panel thicknesses and materials
- Sizes are available to handle wire bundle diameters from 0.375" (9.5 mm) to 0.500" (12.7 mm)
- Corrosion, vibration and abrasion resistant

Item No			Ø Hole		A		B		C		Panel Range		Bulk Pack Qty
Natural	Black	Figure	in	mm	in	mm	in	mm	in	mm	in	mm	
22WHA375050	—	1	0.187	4.8	0.375	9.5	0.500	12.7	0.922	23.4	VARIABLE		1000
22WHA375075	—	1	0.187	4.8	0.375	9.5	0.750	19.1	1.172	29.8	VARIABLE		1000
22WHA500075	—	1	0.187	4.8	0.500	12.7	0.750	19.1	1.219	31.0	VARIABLE		1000
22WHA500100	—	1	0.187	4.8	0.500	12.7	1.000	25.4	1.469	37.3	VARIABLE		1000
22MWHA095127	—	1	0.197	5.0	0.375	9.5	0.500	12.7	0.921	23.4	VARIABLE		1000
22MWHA095190	—	1	0.197	5.0	0.375	9.5	0.750	19.1	1.172	29.8	VARIABLE		1000
22MWHA127190	—	1	0.197	5.0	0.500	12.7	0.750	19.1	1.219	21.0	VARIABLE		1000
22MWHA127254	—	1	0.197	5.0	0.500	12.7	1.000	25.4	1.469	37.3	VARIABLE		1000
22WHB375050	22WHB375050B	2	0.187	4.8	0.375	9.5	0.500	12.7	0.900	22.9	0.030 - 0.093	0.76 - 2.4	1000
22WHB375075	—	2	0.187	4.8	0.375	9.5	0.750	19.1	1.172	29.8	0.030 - 0.093	0.76 - 2.4	1000
22WHB500075	—	2	0.187	4.8	0.500	12.7	0.750	19.1	1.200	30.5	0.030 - 0.093	0.76 - 2.4	1000
22WHB500100	22WHB500100B	2	0.187	4.8	0.500	12.7	1.000	25.4	1.425	36.2	0.030 - 0.093	0.76 - 2.4	500

WS-9/LWS-9 Series
Quarter-Turn Wire Saddles

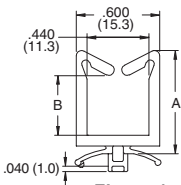


Figure 1

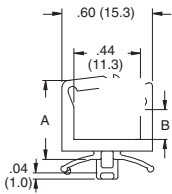


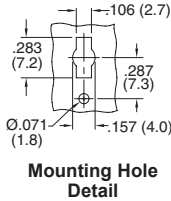
Figure 2

Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural
- Depth: 0.22 (5.6)

Features:

- Easily inserted and removed by turning 90°
- Low protrusion under board, only 1mm
- Available in locking and non-locking styles



Item No.	Figure	A Ref.		B Ref.		Panel Thickness		Bulk Pack Qty
		in	mm	in	mm	in	mm	
WS-9-1-01	1	0.51	13.0	0.19	4.8	0.031 - 0.063	0.8 - 1.6	1000
WS-9-2-01	1	0.70	17.8	0.39	10.0	0.031 - 0.063	0.8 - 1.6	1000
WS-9-3-01	1	1.06	26.9	0.75	19.1	0.031 - 0.063	0.8 - 1.6	1000
WS-9-4-01	1	1.37	34.8	1.07	27.2	0.031 - 0.063	0.8 - 1.6	1000
LWS-9-1-01	2	0.51	13.0	0.15	3.8	0.031 - 0.063	0.8 - 1.6	1000
LWS-9-2-01	2	0.70	17.8	0.39	9.8	0.031 - 0.063	0.8 - 1.6	1000
LWS-9-3-01	2	1.06	26.9	0.75	19.1	0.031 - 0.063	0.8 - 1.6	1000
LWS-9-4-01	2	1.37	34.8	1.07	27.2	0.031 - 0.063	0.8 - 1.6	1000

WIRE SADDLES

LWS/LWSBH/WSLT/WSLC/WSLTRA/22LGWH Series
Locking Wire/Cable Saddles

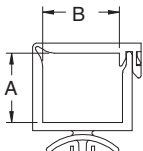
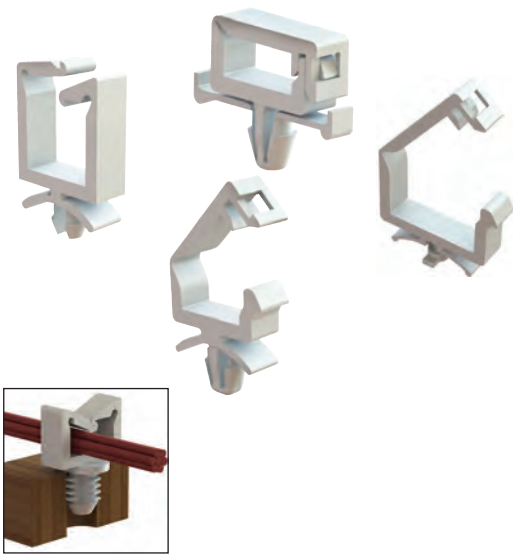


Figure 1

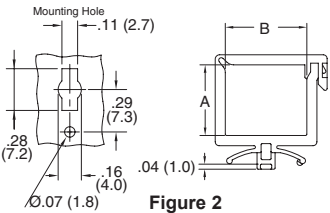


Figure 2

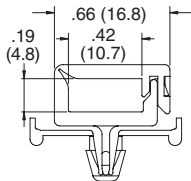


Figure 3

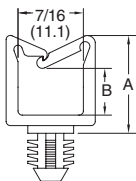


Figure 4

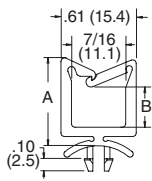


Figure 5

Specifications:

- Material: Nylon 6/6
- Color: See Table

Features:

- Cables are locked in place yet easily removable
- WSLT-9 includes a quarter-turn base
- WSLTRA has a releasable arrow-head for easy removal

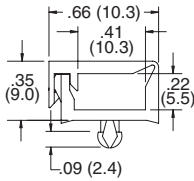


Figure 7

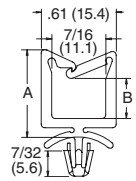


Figure 8

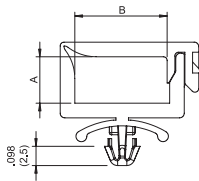


Figure 9

Item No.				A		B		Ø Mounting Hole		Panel Thickness		Bulk Pack Qty	
UL94 V-2		UL94 V-0		in	mm	in	mm	in	mm	in	mm		
Natural	Black	Natural	Approval	Figure	in	mm	in	mm	in	mm	in	mm	
WSLC-1-01	—	—	—	9	0.079	6.0	0.236	6.0	0.138	3.5	0.031 - 0.087	0.8 - 2.2	1000
WSLT-3.5-2-1-01	—	WSLT-3.5-2-1-19	9	1	0.140	3.4	0.530	13.5	0.138	3.5	0.031 - 0.078	0.8 - 2.0	1000
WSLT-02-1-01	—	WSLT-02-1-19	9	1	0.140	3.4	0.530	13.5	0.187	4.8	0.031 - 0.078	0.8 - 1.98	1000
WSLC-2-01	—	—	—	9	0.157	4.0	0.236	6.0	0.138	3.5	0.031 - 0.087	0.8 - 2.2	1000
WSLC-3-01	—	—	—	9	0.157	4.0	0.354	9.0	0.138	3.5	0.031 - 0.087	0.8 - 2.2	1000
WSLC-5-01	—	—	—	9	0.157	4.0	0.472	12.0	0.138	3.5	0.031 - 0.087	0.8 - 2.2	1000
WSLT-01A-01	—	WSLT-01A-19	9	1	0.190	4.8	0.420	10.7	0.187	4.8	0.031 - 0.078	0.8 - 1.98	1000
WSLT-9-01A-01	—	—	—	2	0.190	4.8	0.420	10.7	See Mounting Hole Detail		0.031 - 0.063	0.8 - 1.6	1000
WSLC-4-01	—	—	—	9	0.236	6.0	0.354	9.0	0.138	3.5	0.031 - 0.087	0.8 - 2.2	1000
WSLC-6-01	—	—	—	9	0.236	6.0	0.472	12.0	0.138	3.5	0.031 - 0.087	0.8 - 2.2	1000
WSLT-01-2-01	—	WSLT-01-2-19	9	1	0.350	8.8	0.420	10.7	0.187	4.8	0.031 - 0.078	0.8 - 1.98	1000
WSLT-9-01-2-01	—	—	—	2	0.360	9.1	0.420	10.7	See Mounting Hole Detail		0.031 - 0.063	0.8 - 1.6	1000
WSLT-02A-01	—	WSLT-02A-19	9	1	0.390	10.0	0.640	16.3	0.187	4.8	0.031 - 0.078	0.8 - 1.98	1000
WSLT-9-02A-1-01	—	—	—	2	0.390	10.0	0.640	16.3	See Mounting Hole Detail		0.031 - 0.063	0.8 - 1.6	1000
LWS-1-01	—	LWS-1-19	9	5	0.520	13.2	0.140	3.6	0.187	4.8	0.062	1.6	1000
LWSBH-1-01	—	—	9	4	0.520	13.2	0.140	3.6	0.312	7.9	0.250	6.4	1000
LWS-A-1-01	—	LWS-A-1-19	9	8	0.520	13.2	0.140	3.6	0.187	4.8	0.062	1.6	1000
LWS-A-2-1-01	—	LWS-A-2-1-19	9	8	0.520	13.2	0.140	3.6	0.187	4.8	0.125	3.2	1000
22LGWH4500190	—	—	—	8	0.545	13.8	0.222	5.6	0.187	4.8	0.090	2.3	500
WSLT-03-2-01	—	WSLT-03-2-19	9	1	0.550	14.1	0.640	16.3	0.187	4.8	0.062	1.6	1000
WSLT-9-03-2-01	—	—	—	2	0.560	14.1	0.640	16.3	See Mounting Hole Detail		0.031 - 0.063	0.8 - 1.6	1000
LWS-2-01	—	LWS-2-19	9	5	0.710	18.0	0.330	8.4	0.187	4.8	0.062	1.6	1000
LWSBH-2-01	—	—	9	4	0.710	18.0	0.330	8.4	0.312	7.9	0.250	6.4	1000
LWS-A-2-01	—	LWS-A-2-19	9	8	0.710	18.0	0.330	8.4	0.187	4.8	0.062	1.6	1000
LWS-A-2-2-01	—	LWS-A-2-2-19	9	8	0.710	18.0	0.330	8.4	0.187	4.8	0.125	3.2	1000
22LGWH4500360	22LGWH4500360B	—	—	8	0.711		—	—	0.187	4.8	0.090	2.3	1000
WSLT-03-3-01	—	WSLT-03-3-19	9	1	0.850	21.7	0.710	18.0	0.187	4.8	0.031 - 0.078	0.8 - 1.98	1000
WSLT-9-03-3-01	—	—	—	2	0.850	21.7	0.710	18.0	See Mounting Hole Detail		0.031 - 0.063	0.8 - 1.6	1000
WSLTRA-1-01	—	—	—	3	See Figure 3				0.187	4.8	0.062	1.6	1000
22LGWH4500718	22LGWH4500718B	—	—	8	1.000	25.4	0.660	16.8	0.187	4.8	0.090	2.3	1000
LWS-3-01	—	LWS-3-19	9	5	1.070	27.2	0.690	17.5	0.187	4.8	0.062	1.6	1000
LWSBH-3-01	—	—	9	4	1.070	27.2	0.690	17.5	0.312	7.9	0.250	6.4	1000
LWS-A-3-01	—	LWS-A-3-19	9	8	1.070			—	0.187	4.8	0.062	1.6	1000
LWS-A-2-3-01	—	LWS-A-2-3-19	9	8	1.070	27.2	0.690	17.5	0.187	4.8	0.125	3.2	1000
22LGWH450750	—	—	—	8	1.078	27.4	0.738	18.8	0.187	4.8	0.090	2.3	1000
LWS-4-01	—	LWS-4-19	9	5	1.380	35.0	1.000	25.4	0.187	4.8	0.062	1.6	1000
LWSBH-4-01	—	—	9	4	1.380	35.0	1.000	25.4	0.312	7.9	0.250	6.4	1000
WSLT-T-01A-19	—	—	—	7	See Figure 7				0.118	3.0	0.065	1.7	1000
LWS-A-4-01	—	LWS-A-4-19	9	8	1.380	35.0	1.000	25.4	0.187	4.8	0.062	1.6	1000
LWS-A-2-4-01	—	LWS-A-2-4-19	9	8	1.380	35.0	1.000	25.4	0.187	4.8	0.125	3.2	1000
22LGWH4501062	—	—	—	8	1.416	36.0	1.093	27.8	0.187	4.8	0.090	2.3	500

WIRE SADDLES

MWSEB/WSB/MWSB/WS-SE-B/22MWCA/22AWC Series
Wire Saddles on Adhesive Base

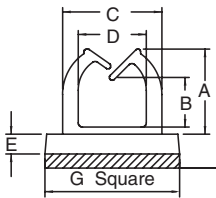
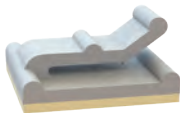
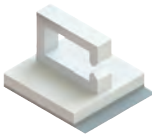
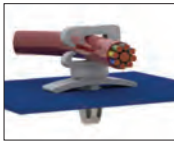


Figure 1

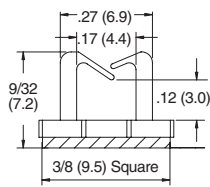


Figure 2

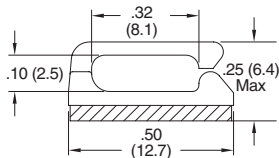


Figure 4

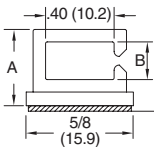


Figure 5

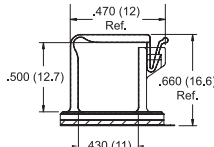


Figure 6

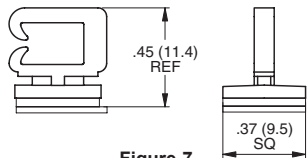


Figure 7

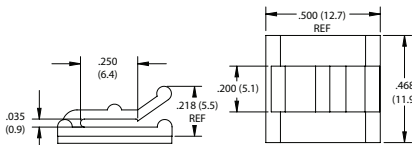


Figure 8

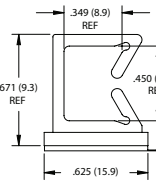


Figure 9

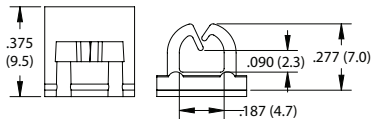


Figure 10

Specifications:

- Material: Nylon 6/6
- Color: Natural

Features:

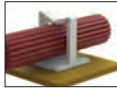
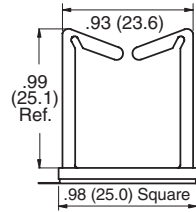
- Self adhesive wire saddle is designed to support lightweight wire bundles
- Small profile design is ideal for routing fiber

Item No.		Approval	Figure	A Ref.		B Ref.		C Ref.		D Ref.		E Ref.		G Ref.		Depth		Bulk Pack Qty						
UL94 V-2	UL94 V-0			in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm							
MWSEB-1-01A-RT	MWSEB-1-19A-RT	UL	1	0.160	4.0	0.050	1.3	0.280	7.0	0.190	4.8	0.060	1.6	0.370	9.5	See Fig. 1	1000							
22MWCA1870375	—	—	10	See Figure 10														1000						
MWSEB-2-01A-RT	MWSEB-2-19A-RT	UL	1	0.240	6.0	0.130	3.3	0.280	7.0	0.190	4.8	0.060	1.6	0.370	9.5	See Fig. 1	1000							
MWSEB-3-01A-RT	MWSEB-3-19A-RT	UL	1	0.290	7.3	0.120	3.0	0.350	9.0	0.260	6.6	0.080	2.0	0.500	12.7	See Fig. 1	1000							
MWSEB-4-01A-RT	MWSEB-4-19A-RT	UL	1	0.360	9.2	0.190	4.8	0.430	10.8	0.320	8.0	0.080	2.0	0.500	12.7	See Fig. 1	1000							
MWSEB-5-01A-RT	MWSEB-5-19A-RT	UL	1	0.440	11.2	0.230	5.8	0.470	11.9	0.360	9.1	0.080	2.0	0.500	12.7	See Fig. 1	1000							
MWSEB-6-01A-RT	MWSEB-6-19A-RT	UL	1	0.510	13.0	0.330	8.4	0.470	12.0	0.360	9.2	0.080	2.0	0.500	12.7	See Fig. 1	1000							
22MWCA350500	—	—	1	0.525	13.3	0.165	4.2	0.500	12.7	0.350	8.9	—	—	0.500	12.7	0.500	12.7	1000						
22MWCA350750TAB	—	—	1	0.525	13.3	0.250	12.7	—	—	0.350	8.9	—	—	0.750	19.1	0.750	19.1	1000						
MWSB-1-01A-RT	MWSB-1-19A-RT	UL	2	See Figure 2												See Fig. 2	1000							
MWSSEB-1-01A-RT	MWSSEB-1-19A-RT	UL	4	See Figure 4												0.375	9.5	1000						
22AWCF250047	—	—	8	See Figure 8												0.468	11.9	1000						
MWSSEBE-1-01A	MWSSEBE-1-19A	UL	4	See Figure 4												0.500	12.7	1000						
WS-SE-B-1-01A	—	UL	5	0.450	11.4	0.220	5.6	See Figure 5												0.375	9.5	1000		
WS-SE-B-2-01A	—	UL	5	0.675	17.1	0.450	11.4	See Figure 5												0.375	9.5	1000		
22AWC350450TAB	—	—	9	0.671	17.0	0.450	11.4	See Figure 9												0.625	15.9	0.375	9.5	1000
—	WSLTB-03A-19A	—	6	See Figure 6												0.750	19.0	1000						
—	WS-SE-C-19A2-RT	—	7	See Figure 7												0.374	9.5	1000						

WIRE SADDLES

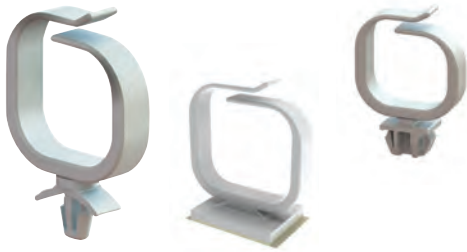
WWSB Series
Wire Saddles on Adhesive Base

- Specifications:
- Material: UL94 HB Nylon 6/6
 - Color: Natural
- Features:
- No through-hole required
 - Large capacity



Item No.		Bulk Pack Qty
WWSB-3-148A-RT		500

OFNS Series
Optical Fiber Wire Saddles



- Specifications:
- Material: Nylon 6/6
 - Color: Natural
- Features:
- No stress is applied to fiber upon entry
 - Smooth, rounded corners
 - Six mounting styles

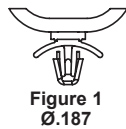
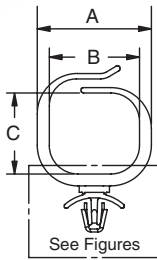


Figure 1
Ø.187

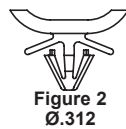


Figure 2
Ø.312

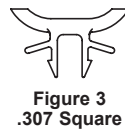


Figure 3
.307 Square

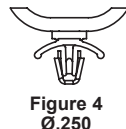


Figure 4
Ø.250

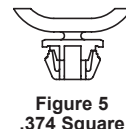


Figure 5
.374 Square

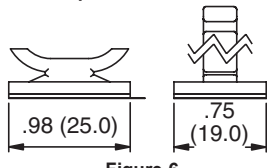
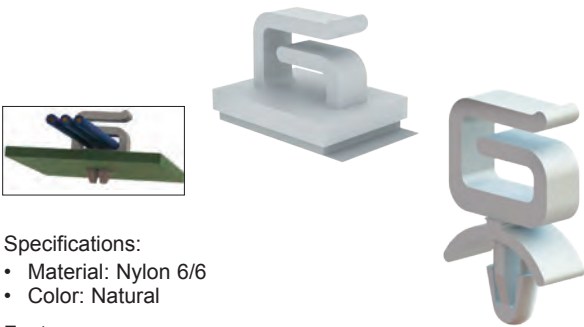


Figure 6

Item No.			A Ref.		B Ref.		C Ref.		Ø Mounting Hole		Panel Thickness		Depth		Bulk Pack Qty
UL94 V-2	UL94 V-0	Figure	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	
OFNS-13-187-01	OFNS-13-187-19	1	1.06	26.8	0.83	21.2	0.75	19.0	0.187	4.8	0.031 - 0.079	0.8 - 2.0	0.27	6.9	1000
OFNS-13-312-01	OFNS-13-312-19	2	1.06	26.8	0.83	21.2	0.75	19.0	0.312	7.9	0.031 - 0.063	0.8 - 1.6	0.27	6.9	1000
OFNS-13-250-01	OFNS-13-250-19	4	1.06	26.8	0.83	21.2	0.75	19.0	0.250	6.4	0.031 - 0.079	0.8 - 2.0	0.27	6.9	1000
OFNS13-S9.5M-01	OFNS13-S9.5M-19	5	1.06	26.8	0.83	21.2	0.75	19.0	0.374 Square	9.5 Square	0.031 - 0.079	0.8 - 2.0	0.27	6.9	1000
OFNSB-13-01A-RT	OFNSB-13-19A-RT	6	1.06	26.8	0.83	21.2	0.75	19.0	Adhesive	Adhesive	Adhesive	Adhesive	0.27	6.9	500
OFNS-16-187-01	OFNS-16-187-19	1	1.35	34.3	1.13	28.7	0.99	25.1	0.187	4.8	0.031 - 0.079	0.8 - 2.0	0.27	6.9	1000
OFNS-16-312-01	OFNS-16-312-19	2	1.35	34.3	1.13	28.7	0.99	25.1	0.312	7.9	0.031 - 0.063	0.8 - 1.6	0.27	6.9	1000
OFNS-16-S307-01	OFNS-16-S307-19	3	1.35	34.3	1.13	28.7	0.99	25.1	0.307 Square	7.8 Square	0.031 - 0.079	0.8 - 2.0	0.27	6.9	1000
OFNS16-S9.5M-01	OFNS16-S9.5M-19	4	1.35	34.3	1.13	28.7	0.99	25.1	0.374 Square	9.5 Square	0.031 - 0.079	0.8 - 2.0	0.27	6.9	1000
OFNSB-16-01A-RT	OFNSB-16-19A-RT	6	1.35	34.3	1.13	28.7	0.99	25.1	Adhesive	Adhesive	Adhesive	Adhesive	0.27	6.9	500
OFNS28-S9.5M-01	OFNS28-S9.5M-19	5	1.35	34.3	1.13	28.7	0.99	25.1	0.374 Square	9.5 Square	0.031 - 0.079	0.8 - 2.0	0.27	6.9	500

MOFNSA/MOFNSP/MOFNSB Series
Mini Optical Fiber Wire Saddles



- Specifications:
- Material: Nylon 6/6
 - Color: Natural
- Features:
- Design eliminates stress to fiber upon entry
 - Smooth, rounded corners

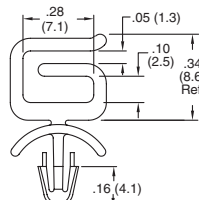


Figure 1

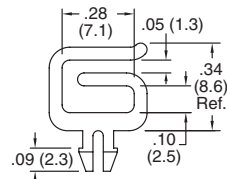


Figure 2

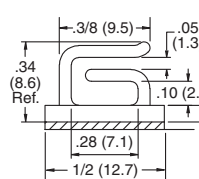
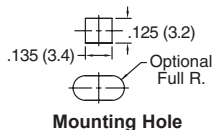


Figure 3



Mounting Hole

Item No.		Figure	Ø Mounting Hole		Panel Thickness		Depth		Bulk Pack
UL94 V-2	UL94 V-0		in	mm	in	mm	in	mm	Qty
MOFNSA-2-01	MOFNSA-2-19	1	0.125	3.2	0.093	2.4	0.125	3.2	1000
MOFNSP-2-01	MOFNSP-2-19	2	See Figure 2		0.063	1.6	0.125	3.2	1000
MOFNSB-2-01A-RT	MOFNSB-2-19A-RT	3			Adhesive Mount		0.375	9.5	1000

WIRE SADDLES

MWS/MWSET/MBHWSSE/MWSEA/MWSLT Series
Micro Wire Saddles

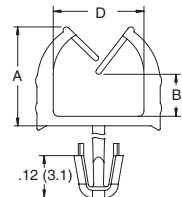
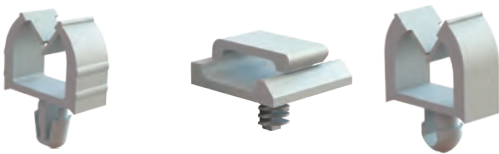


Figure 1

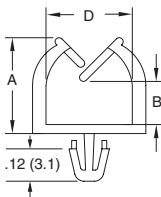


Figure 2

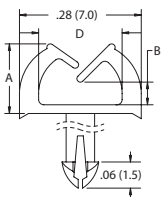


Figure 3

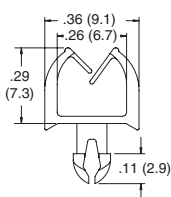


Figure 4

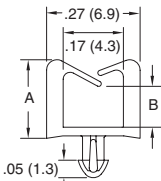


Figure 5

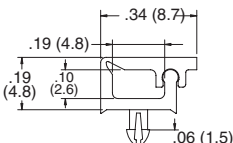


Figure 6

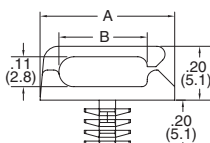


Figure 7

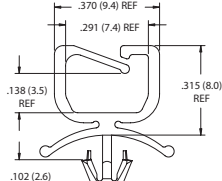


Figure 8

Specifications:

- Material: Nylon 6/6
- Color: Natural

Features:

- Gathers and routes wires
- Small profile is ideal for routing fiber

Item No.		Approval	Figure	A Ref.		B Ref.		D		Ø Mounting Hole		Panel Thickness		Bulk Pack Qty
UL94 V-2	UL94 V-0			in	mm	in	mm	in	mm	in	mm	in	mm	
MWSET1-1-01	MWSET1-1-19	UL	3	0.16	4.0	0.04	0.9	0.19	4.8	0.067	1.7	0.063	1.6	1000
MWSET1-1-1-01	MWSET1-1-1-19	UL	3	0.16	4.0	0.04	0.9	0.190	4.8	0.067	1.7	0.093	2.4	1000
MWS-1-01	MWS-1-19	UL	5	0.23	5.8	0.12	3.0	See Figure 5		0.070	1.8	0.062	1.6	1000
MWS1-1-01	MWS1-1-19	—	5	0.23	5.8	0.12	3.0	See Figure 5		0.070	1.8	0.093	2.4	1000
MWSET1-2-01	MWSET1-2-19	UL	3	0.24	6.0	0.11	2.9	0.19	4.8	0.067	1.7	0.063	1.6	1000
MWSET1-2-1-01	MWSET1-2-1-19	UL	3	0.24	6.0	0.11	2.9	0.19	4.8	0.067	1.7	0.093	2.4	1000
MWSEA1-1-01	MWSEA1-1-19	UL	1	0.29	7.3	0.12	3.0	0.26	6.6	0.118	3.0	0.063	1.6	1000
MWSEA2-1-01	MWSEA2-1-19	UL	1	0.29	7.3	0.12	3.0	0.26	6.6	0.138	3.5	0.063	1.6	1000
MWSEA1-1-1-01	MWSEA1-1-1-19	UL	1	0.29	7.3	0.12	3.0	0.26	6.6	0.118	3.0	0.093	2.4	1000
MWSEA2-1-1-01	MWSEA2-1-1-19	UL	1	0.29	7.3	0.12	3.0	0.26	6.6	0.138	3.5	0.093	2.4	1000
MWSEA1-2-01	MWSEA1-2-19	UL	1	0.36	9.1	0.16	3.9	0.32	8.1	0.118	3.0	0.063	1.6	1000
MWSEA2-2-01	MWSEA2-2-19	UL	1	0.36	9.1	0.16	3.9	0.32	8.1	0.138	3.5	0.063	1.6	1000
MWSEA1-1-2-01	MWSEA1-1-2-19	UL	1	0.36	9.1	0.16	3.9	0.32	8.1	0.118	3.0	0.093	2.4	1000
MWSEA2-1-2-01	MWSEA2-1-2-19	UL	1	0.36	9.1	0.16	3.9	0.32	8.1	0.138	3.5	0.093	2.4	1000
MWSEA3-2-01	MWSEA3-2-19	UL	2	0.36	9.1	0.16	3.9	0.32	8.1	0.138	3.5	0.063	1.6	1000
MWSEA1-3-01	MWSEA1-3-19	UL	1	0.44	11.2	0.24	6.0	0.36	9.1	0.118	3.0	0.063	1.6	1000
MWSEA2-3-01	MWSEA2-3-19	UL	1	0.44	11.2	0.24	6.0	0.36	9.1	0.138	3.5	0.063	1.6	1000
MWSEA1-1-3-01	MWSEA1-1-3-19	UL	1	0.44	11.2	0.24	6.0	0.36	9.1	0.118	3.0	0.093	2.4	1000
MWSEA2-1-3-01	MWSEA2-1-3-19	UL	1	0.44	11.2	0.24	6.0	0.36	9.1	0.138	3.5	0.093	2.4	1000
—	MWS-2-19	—	5	0.44	11.2	0.33	8.5	See Figure 5		0.070	1.8	0.063	1.6	1000
—	MWS-3-19	—	5	0.44	11.2	0.33	8.5	See Figure 5		0.070	1.8	0.087	2.2	1000
MWSEA1-4-01	MWSEA1-4-19	UL	1	0.51	13.0	0.30	7.7	0.36	9.1	0.118	3.0	0.063	1.6	1000
MWSEA2-4-01	MWSEA2-4-19	UL	1	0.51	13.0	0.30	7.7	0.36	9.1	0.138	3.5	0.063	1.6	1000
MWSEA1-1-4-01	MWSEA1-1-4-19	UL	1	0.51	13.0	0.30	7.7	0.36	9.1	0.118	3.0	0.093	2.4	1000
MWSEA2-1-4-01	MWSEA2-1-4-19	UL	1	0.51	13.0	0.30	7.7	0.36	9.1	0.138	3.5	0.093	2.4	1000
MWSET2-1-01	MWSET2-1-19	UL	4			See Figure 4				0.118	3.0	0.039 - 0.047	1.0 - 1.2	1000
MWSET2-2-01	MWSET2-2-19	UL	4			See Figure 4				0.118	3.0	0.047 - 0.063	1.2 - 1.6	1000
MWSLT-1-01	MWSLT-1-19	—	6			See Figure 6				0.067	1.7	0.063	1.6	1000
MWSLT1-1-01	MWSLT1-1-19	—	6			See Figure 6				0.067	1.7	0.093	2.4	1000
MBHWSSE-1-01	—	—	7	0.50	12.7	0.33	0.8	See Figure 7		0.156	4.0	0.040 - 0.160	1.0 - 4.1	1000
MBHWSSE1-1-01	—	—	7	0.67	17.0	0.49	12.5	See Figure 7		0.156	4.0	0.040 - 0.160	1.0 - 4.1	1000
MWSEA4-1-01	MWSEA4-1-19	—	8			See Figure 8				0.138	3.5	0.024 - 0.063	0.6 - 1.6	1000

WIRE SADDLES & FLAT CABLE CLAMPS

MWSELF/SMWS Series
Standoff Micro Wire Saddles

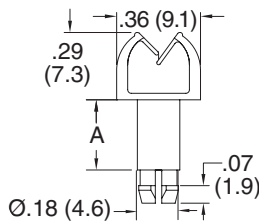
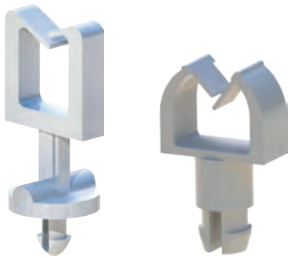


Figure 1

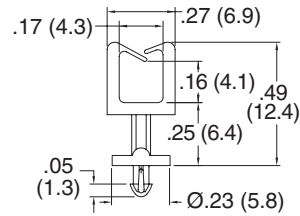
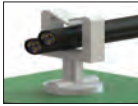


Figure 2



Specifications:

- Material: Nylon 6/6
- Color: Natural

Features:

- Gathers and routes wires
- Standoff design provides spacing between the wires and the chassis

Item No.		Figure	A		Ø Mounting Hole		Panel Thickness		Bulk Pack Qty
UL94 V-2	UL94 V-0		in	mm	in	mm	in	mm	
MWSELF-1-4.1-01	MWSELF-1-4.1-19	1	0.16	4.1	0.15	3.8	0.063	1.6	1000
MWSELF-1-7.7-01	MWSELF-1-7.7-19	1	0.30	7.7	0.15	3.8	0.063	1.6	1000
MWSELF-2-4.1-01	MWSELF-2-4.1-19	1	0.16	4.1	0.15	3.8	0.079	2.0	1000
MWSELF-2-7.7-01	MWSELF-2-7.7-19	1	0.30	7.7	0.15	3.8	0.079	2.0	1000
SMWS-1-01	SMWS-1-19	2	See Figure 2		0.07	1.8	0.062	1.6	1000
SMWS1-1-01	SMWS1-1-19	2	See Figure 2		0.07	1.8	0.093	2.4	1000

WSLTB/MWSLTB/22AWC Series
Wire Saddles Locking Top

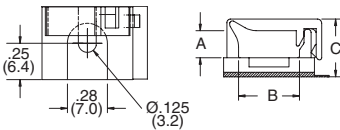


Figure 1

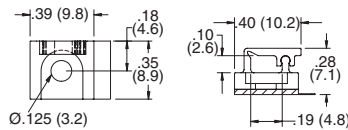


Figure 2

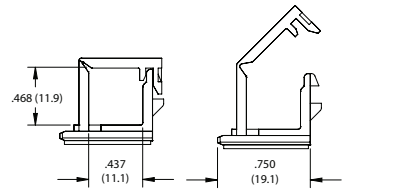


Figure 3

Specifications:

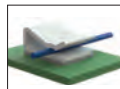
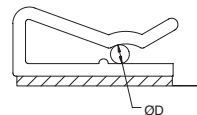
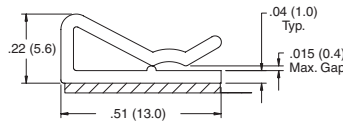
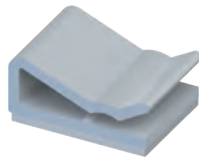
- Material: Nylon 6/6
- Color: Natural

Features:

- Gathers, routes and locks cables and wires

Item No.		Mounting Method	Figure	A		B		C Ref.		Bulk Pack Qty
UL94 V-0	UL94 V-2			in	mm	in	mm	in	mm	
WSLTB-01A-19A	—	Adhesive	1	0.19	4.8	0.42	10.7	0.41	10.4	1000
WSLTB-01A-19	—	#4 or M3 Screw or SR-30XX Rivet	1	0.19	4.8	0.42	10.7	0.38	9.6	1000
WSLTB-02A-19A	—	Adhesive	1	0.39	10.0	0.64	16.3	0.61	15.5	1000
WSLTB-02A-19	—	#4 or M3 Screw or SR-30XX Rivet	1	0.39	10.0	0.64	16.3	0.58	14.7	1000
MWSLTB-1-19A-RT	—	Adhesive	2	See Figure 2		See Figure 2		See Figure 2		1000
MWSLTB-1-19	—	#4 or M3 Screw or SR-30XX Rivet	2	See Figure 2		See Figure 2		See Figure 2		1000
—	22AWC438469	Adhesive	3	See Figure 3		See Figure 3		See Figure 3		1000

SWC Series
Single Wire Clips



Specifications:

- Material: UL94 V-1 PPE/PS
- Color: White

Features:

- To insert or remove cable, simply lift the tip of the clamp

Item No.	Ø D Holding		Base		Bulk Pack Qty
	in	mm	in	mm	
SWC-0	0.03 - 0.06	0.8 - 1.5	0.51 x 0.38	13.0 x 9.5	1000

FLAT CABLE CLAMPS

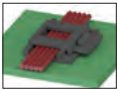
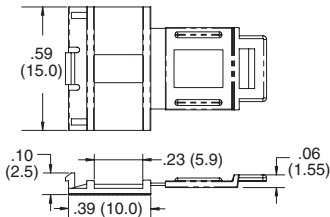
MCC Series
Adhesive Mount Micro Cable Clamps

Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Black

Features:

- Low profile and small footprint take up little real estate
- Center rib gently grips cables
- Convenient latch is releasable for maintenance
- Easily mounted with adhesive base



Item No.	Max Cable Thickness		Max Cable Width		Bulk Pack Qty
	in	mm	in	mm	
MCC-1-01A-BK	0.040	1.0	0.23	5.8	1000

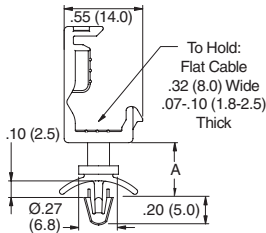
FCWSS Series
Flat Cable Wire Saddles

Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Black

Features:

- Designed to hold down standard Serial ATA cable
- Flexible tension wing allows a range of cable thicknesses
- Grips cable firmly



Item No.	A		Ø Mounting Hole		Panel Thickness		Bulk Pack Qty
	in	mm	in	mm	in	mm	
FCWSS-1-01BK	0.189	4.8	0.158	4.0	0.032 - 0.064	0.8 - 1.6	1000
FCWSS-2-01BK	0.394	10.0	0.158	4.0	0.032 - 0.064	0.8 - 1.6	1000

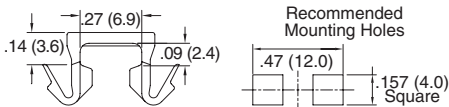
FCCE Series
Flat Cable Clamps

Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:

- Holds down ribbon cable
- Extremely low profile



Item No.	Max. Cable Width		Panel Thickness		Depth		Bulk Pack Qty
	in	mm	in	mm	in	mm	
FCCE-9-01	0.250	6.4	0.039 - 0.047	1.0 - 1.2	0.28	7.0	1000

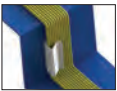
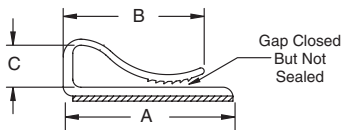
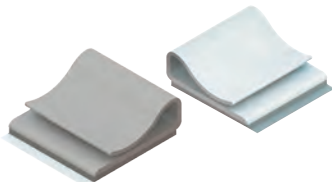
CFCC Series
Side Load Flat Cable Clamps

Specifications:

- Material: See Table
- Color: See Table

Features:

- Designed for routing flat ribbon cable
- Serrated grip prevents slippage
- Low profile

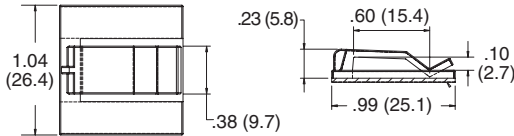
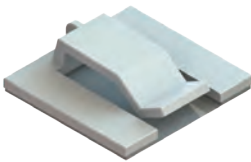


Item No.	A		B Ref.		C		Depth		Material	Color	Bulk Pack Qty
	in	mm	in	mm	in	mm	in	mm			
CFCC-3-05A-RT	0.563	14.3	0.49	12.5	0.18	4.6	1.00	25.4	UL94 V-1 PPE/PS	White	1000
CFCC-4-05A-RT	0.563	14.3	0.42	10.7	0.25	6.4	1.00	25.4	UL94 V-1 PPE/PS	White	1000
CFCC-8-05A-RT	1.062	27.0	0.88	22.4	0.25	6.4	1.00	25.4	UL94 V-1 PPE/PS	White	1000
CFCC-8-04A-RT	1.062	27.0	0.88	22.4	0.25	6.4	1.00	25.4	UL94 V-0 PVC	Gray	1000

FLAT CABLE CLAMPS

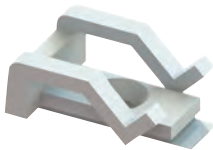
CFCCS Series
Split Flat Cable Clamps On Adhesive Base

- Specifications:
- Material: UL94 V-2 Nylon 6/6
 - Color: Natural
- Features:
- Tension arm securely holds down flat ribbon cable



Item No.	Bulk Pack Qty
CFCCS-8-01A	1000

SFCC Series
Split Flat Cable Clamps



- Specifications:
- Material: UL94 V-2 Nylon 6/6
 - Color: Natural
- Features:
- Two tension arms hold flat ribbon cable firmly in place
 - Easily installed with screw or adhesive

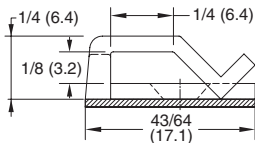


Figure 1

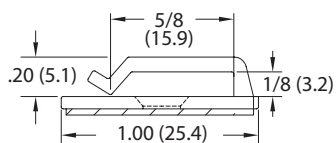


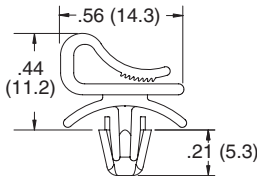
Figure 2

Item No.	Figure	Base		Mounting Method	Bulk Pack Qty
		in	mm		
SFCC-4-01	1	0.672 x 0.500	17.1 x 12.7	#4 or M2.5 Flat Head Screw	1000
SFCC-4-01A-RT	1	0.672 x 0.500	17.1 x 12.7	Adhesive	1000
SFCC-8-01	2	1.000 x 1.000	25.4 x 25.4	#6 or M3 Flat Head Screw	1000
SFCC-8-01A-RT	2	1.000 x 1.000	25.4 x 25.4	Adhesive	1000

CFCCA Series
Flat Cable Clamps



- Specifications:
- Material: UL94 V-2 Nylon 6/6
 - Color: Natural
- Features:
- Designed for routing flat ribbon cable
 - Serrated grip prevents slippage
 - Low profile



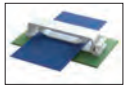
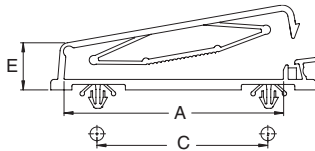
Item No.	Ø Mounting Hole		Panel Thickness		Base		Bulk Pack Qty
	in	mm	in	mm	in	mm	
CFCCA-1-01	0.187	4.8	0.310 - 0.078	0.8 - 2.0	0.56 x 0.63	14.3 x 15.9	1000

TFCCA Series
Flat Cable Clamps with Tension



- Specifications:
- Material: UL94 V-2 Nylon 6/6
 - Color: Natural

- Features:
- Provides tension to flat ribbon cable to ensure stability
 - Convenient releasable latch



Item No.	Max # of Conductors	A		C		E		Ø Mounting Holes		Panel Thickness		Depth		Bulk Pack Qty
		in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	
TFCCA-15-01	10	0.57	14.5	0.591	15.0	0.56	14.1	0.156	4.0	0.040 - 0.079	1.0 - 2.0	0.36	9.1	100
TFCCA-25-01	20	0.97	24.7	0.787	20.0	0.50	12.7	0.156	4.0	0.040 - 0.079	1.0 - 2.0	0.52	13.2	100
TFCCA-40-01	40	2.13	54.1	1.575	40.0	0.64	16.3	0.156	4.0	0.040 - 0.079	1.0 - 2.0	0.39	10.0	100
TFCCA-50-01	50	2.51	63.8	1.957	49.7	0.54	13.7	0.156	4.0	0.040 - 0.079	1.0 - 2.0	0.40	10.2	100

FLAT CABLE CLAMPS

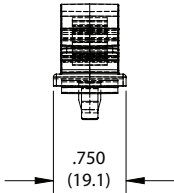
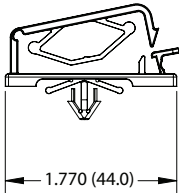
22RCPM Series
Arrowhead Mounted Flat Cable Clamps

Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:

- Quick, easy installation
- Resistant to corrosion, vibration and abrasion
- Convenient releasable latch
- Holds flat wire securely in place



Item No.	Ø Mounting Hole		Panel Thickness		Inside Height		Inside Width		Bulk Pack Qty
	in	mm	in	mm	in	mm	in	mm	
22RCPM1250	0.250	6.4	0.080 - 0.150	2.0 - 3.8	0.250	6.4	1.250	31.8	100

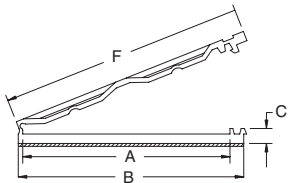
TFCM Series
Flat Cable Clamps with Tension on Adhesive Base

Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:

- Provides tension to flat ribbon cable to ensure stability
- Low profile where space is an issue
- Convenient releasable latch



Item No.	A Ref.		B Ref.		C Ref.		F Ref.		Depth		Suitable Cable	Bulk Pack Qty
	in	mm	in	mm	in	mm	in	mm	in	mm		
TFCM-25S	0.87	22.0	1.06	27.0	0.12	3.0	1.26	32.0	0.39	10.0	15 Pln	200
TFCM-25	1.15	29.3	1.44	36.5	0.12	3.0	1.57	40.0	0.39	10.0	20 Pln	200
TFCM-25M	2.20	55.8	2.41	61.2	0.16	4.0	2.59	66.0	0.59	15.0	40 Pln	100

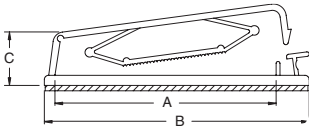
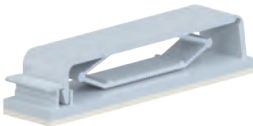
TFCC Series
Flat Cable Clamps with Tension on Adhesive Base

Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:

- Provides tension to flat ribbon cable to ensure stability
- Adhesive base for quick mounting



Item No.	Max # Of Conductors	A Ref.		B		C		Depth		Bulk Pack Qty
		in	mm	in	mm	in	mm	in	mm	
TFCC-30-01	30	1.26	32.0	1.77	45.0	0.62	15.8	0.73	18.6	100
TFCC-40-01	40	2.13	54.0	2.64	67.0	0.62	15.8	0.62	15.8	100
TFCC-50-01	50	2.57	65.2	3.09	78.4	0.62	15.8	0.74	18.8	100

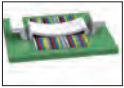
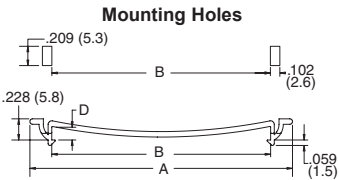
FCCS Series
Flat Cable Clamps

Specifications:

- Material: UL94 V-0 Nylon 6/6
- Color: Natural

Features:

- Very low profile
- Designed to firmly hold down flat ribbon cable
- Easily removable from the top of the panel



Item No.	A		B		D		Depth		Bulk Pack Qty
	in	mm	in	mm	in	mm	in	mm	
FCCS-1	1.06	27.0	0.59	15.0	0.13	3.4	0.28	7.0	500
FCCS-2	1.65	42.0	1.18	30.0	0.15	3.7	0.28	7.0	500
FCCS-3	1.85	47.0	1.38	35.0	0.15	3.7	0.28	7.0	500
FCCS-4	2.24	57.0	1.77	45.0	0.15	3.7	0.28	7.0	500
FCCS-5	2.83	72.0	2.36	60.0	0.15	3.7	0.28	7.0	500

FLAT CABLE CLAMPS

RDAFCC Series
Flat Cable Clamps

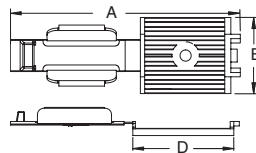


Figure 1

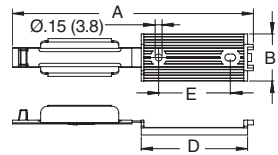


Figure 2

Specifications:

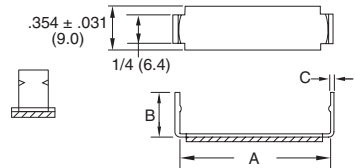
- Material: UL94 V-2 Nylon 6/6
- Color: Gray

Features:

- Low profile design
- Releasable latch for adding or removing flat ribbon cable
- Large mounting base for high bonding strength and stability

Item No.	Figure	Max Cable Width		Mounting Method	A Ref.		B Ref.		D Ref.		E		Bulk Pack Qty
		in	mm		in	mm	in	mm	in	mm	in	mm	
RDAFCC-25	1	1.000	25.4	#6 or M3.5 Screw	2.984	75.8	0.984	25.0	1.169	29.7	—	—	100
RDAFCC-25A	1	1.000	25.4	Adhesive	2.984	75.8	0.984	25.0	1.169	29.7	—	—	100
RDAFCC-50	2	2.000	50.8	#6 or M3.5 Screw	5.059	128.5	0.954	25.0	2.224	56.5	1.496	38.0	100
RDAFCC-50A	2	2.000	50.8	Adhesive	5.059	128.5	0.984	25.0	2.224	56.5	1.496	38.0	100
RDAFCC-82	2	3.000	76.2	#6 or M3.5 Screw	7.062	179.4	1.000	25.4	3.259	82.8	1.496	38.0	100
RDAFCC-82A	2	3.000	76.2	Adhesive	7.062	179.4	1.000	25.4	3.259	82.8	1.496	38.0	100

AFCC Series
Aluminum Flat Cable Clamps on Adhesive Base



Specifications:

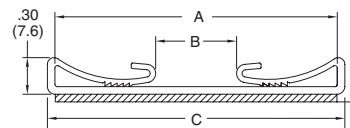
- Material: Aluminum
- Color: Bright Finish

Features:

- Aluminum arms secure flat ribbon cable
- Lightweight and durable
- Low profile for limited space applications

Item No.	Cable Width A		B Ref.		C		Depth		Bulk Pack Qty
	in	mm	in	mm	in	mm	in	mm	
AFCC-08	0.500	12.7	0.250	6.4	0.02	0.5	0.350	9.0	250
AFCC-12	0.750	19.1	0.250	6.4	0.02	0.5	0.350	9.0	250
AFCC-16	1.000	25.4	0.312	7.9	0.02	0.5	0.350	9.0	250
AFCC-21	1.312	33.3	0.385	9.8	0.02	0.5	0.350	9.0	250
AFCC-32	2.000	50.8	0.562	14.3	0.03	0.8	0.350	9.0	250

DFCC Series
Dual Flat Cable Clamps on Adhesive Base



Specifications:

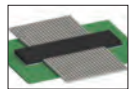
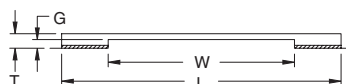
- Material: UL94 V-0 PVC
- Color: Black

Features:

- Flat ribbon cable is secured by serrated grips on both sides
- Low profile for limited space applications

Item No.	A		B Ref.		C		Depth		# of Conductors	Bulk Pack Qty
	in	mm	in	mm	in	mm	in	mm		
DFCC-2-RT	2.312	58.7	0.656	16.8	2.437	61.9	0.750	19.1	34-37-40	100
DFCC-3-RT	3.250	82.6	1.609	40.6	3.375	85.7	0.750	19.1	50-60-64	100

FCC Series
Flat Cable Clamps on Adhesive Base



Specifications:

- Material: UL94 V-0 PVC
- Color: Black

Features:

- Clamp is secured with adhesive over flat ribbon cable
- Low profile for limited space applications

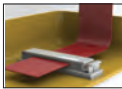
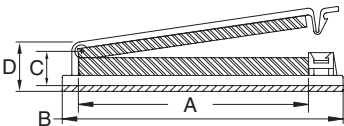
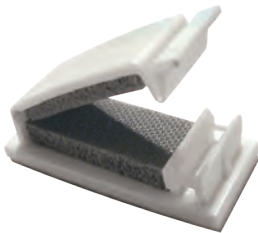
Item No.	L		W		T		G		Depth		Bulk Pack Qty
	in	mm	in	mm	in	mm	in	mm	in	mm	
FCC-4-3-RT	1.50	38.1	0.50	12.7	0.156	4.0	0.093	2.4	0.500	12.7	100
FCC-8-3-RT	2.00	50.8	1.00	25.4	0.156	4.0	0.093	2.4	0.500	12.7	100
FCC-16-3-RT	3.00	76.2	2.00	50.6	0.156	4.0	0.093	2.4	0.500	12.7	100

FLAT CABLE CLAMPS

FCWSF Series
Cable Clamps with Silicone Foam Center

- Specifications:
- Material: UL94 V-0 Nylon 6/6 and Silicone Foam
 - Color: Natural

- Features:
- UL94 V-0 silicone foam securely holds and protects fiber and cable
 - Adhesive base for fast installation

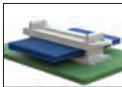
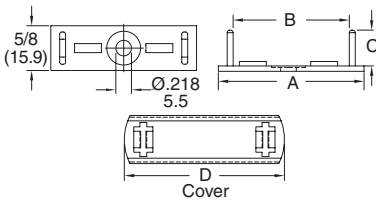


Item No.	A		B		C Ref.		D Ref.		Depth		Cushion Thickness				Pack Qty	Bulk Pack Qty
											Latch Side		Base Side			
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm		
FCWSF-29-19	1.24	31.5	1.78	45.1	0.30	7.7	0.44	11.1	0.74	18.9	0.13	3.3	0.13	3.3	1	100
FCWSF-30-19	1.24	31.5	1.79	45.5	0.35	9.0	0.52	13.1	0.75	19.1	0.13	3.3	0.19	4.8	1	100
FCWSF-40-19	1.55	39.3	2.09	53.0	0.37	9.3	0.53	13.4	0.75	19.1	0.13	3.3	0.19	4.8	1	100
FCWSF-50-19	2.49	63.2	3.04	77.2	0.36	9.1	0.52	13.2	0.75	19.1	0.13	3.3	0.19	4.8	1	100

FCRC Series
Flat Cable Routing Clamps

- Specifications:
- Material: UL94 V-2 Nylon 6/6
 - Color: Natural

- Features:
- Two part design: Cable Clamp base and tension-locking cover (sold separately)
 - More than one cover can be mounted on base for strain relief; double back cable and secure with a second cover
 - Base is secured either with a #10 or #12 screw or adhesive

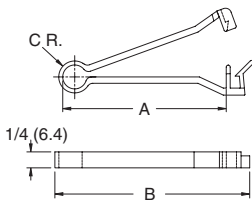


Base Item No.		A Ref.		B Ref.		C		Use Cover Item No.	D		Bulk Pack Qty
w/o Adhesive	w/ Adhesive	in	mm	in	mm	in	mm		in	mm	
FCRC-13B-4	FCRC-13B-4A-RT	2.04	51.7	1.62	41.2	0.500	12.7	FCRC-13C	2.24	56.8	100
FCRC-19B-4	FCRC-19B-4A-RT	2.72	69.1	2.31	58.7	0.500	12.7	FCRC-19C	2.92	74.2	100
FCRC-21B-4	FCRC-21B-4A-RT	2.98	75.7	2.55	64.8	0.500	12.7	FCRC-21C	3.17	80.5	100
FCRC-26B-4	FCRC-26B-4A-RT	3.66	93.0	3.24	82.3	0.500	12.7	FCRC-26C	3.86	98.0	100
FCRC-13B-6	FCRC-13B-6A-RT	2.04	51.7	1.62	41.2	0.750	19.1	FCRC-13C	2.24	56.8	100
FCRC-19B-6	FCRC-19B-6A-RT	2.72	69.1	2.31	58.7	0.750	19.1	FCRC-19C	2.92	74.2	100
FCRC-21B-6	FCRC-21B-6A-RT	2.98	75.7	2.55	64.8	0.750	19.1	FCRC-21C	3.17	80.5	100
FCRC-26B-6	FCRC-26B-6A-RT	3.66	93.0	3.24	82.3	0.750	19.1	FCRC-26C	3.86	98.0	100

FCLC/FCLCS Series
Flat Cable Loop Clips

- Specifications:
- Material: UL94 V-2 Nylon 6/6
 - Color: Natural

- Features:
- Allows for quick positive clamping of flat cable without the need for securing the clip to a board

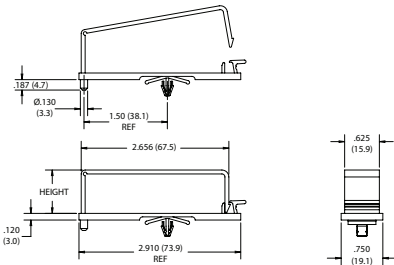


Item No.	A Max Cable Width		B Ref.		C Ref.		Bulk Pack Qty
	in	mm	in	mm	in	mm	
FCLCS	1.500	38.1	2.000	50.8	0.230	5.8	500
FCLC	2.500	63.5	3.000	76.2	0.250	6.4	500

22ACC Series
Arrowhead Mounted Flat Cable Clamps

- Specifications:
- Material: UL94 V-2 Nylon 6/6
 - Color: Natural

- Features:
- Quick, easy installation
 - Designed with an anti-rotation pin
 - Convenient releasable latch



Item No.	Ø Mounting Hole		Panel Thickness		Height		Bulk Pack Qty
	in	mm	in	mm	in	mm	
22ACC780265	0.188	4.8	0.020 - 0.080	0.05 - 2.0	0.780	19.8	550
22ACC812265	0.188	4.8	0.020 - 0.080	0.05 - 2.0	0.900	22.9	500

FLAT CABLE CLAMPS

FCW Series
Cable Clamps On Adhesive Base

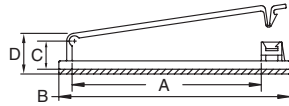
Specifications:

- Material: Nylon 6/6
- Color: Natural



Features:

- Allows for quick positive clamping of flat cable up to 50 conductors wide
- Adhesive base for quick installation
- Latch allows cables to be added and removed



Item No.		Max # of Conductors	Depth		A		B		C Ref.		D Ref.		Bulk Pack Qty
UL94 V-2	UL94 V-0		in	mm	in	mm	in	mm	in	mm	in	mm	
FCW-29-01	FCW-29-19	30	0.74	18.9	1.24	31.5	1.78	45.1	0.30	7.7	0.44	11.1	100
FCW-30-01	FCW-30-19	30	0.75	19.1	1.24	31.5	1.79	45.5	0.35	9.0	0.52	13.1	100
FCW-40-01	FCW-40-19	40	0.75	19.1	1.55	39.3	2.09	53.0	0.37	9.3	0.53	13.4	100
—	FCW-50-19	50	0.75	19.1	2.49	63.2	3.04	77.2	0.36	9.1	0.52	13.2	100
FCW-50H-01	FCW-50H-19	50	0.74	18.9	2.54	64.6	3.08	78.2	0.59	15.1	0.75	19.0	100

FCCA/FCCB Series
Arrowhead Mounted Cable Clamps

Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:

- Convenient releasable latch allows easy addition and removal of cables
- Easily mounted into pre-drilled holes

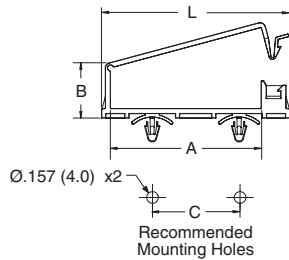
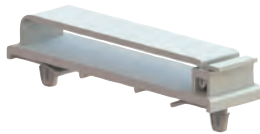


Figure 1

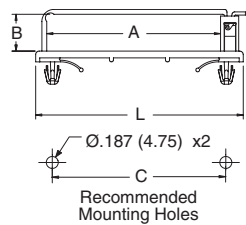


Figure 2

Item No.	Figure	L		A		B		C		Panel Thickness		Depth		Bulk Pack Qty
		in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	
FCCA-30A-01	1	2.56	65.0	2.10	52.0	0.75	19.1	1.18	30.0	0.030 - 0.079	0.8 - 2.0	0.39	10.0	100
FCCA-40A-01	1	2.64	67.0	5.10	53.4	0.64	16.4	1.58	40.0	0.030 - 0.079	0.8 - 2.0	0.39	10.0	100
FCCB-1	2	3.03	77.0	2.54	64.5	0.28	7.2	2.54	64.5	0.031 - 0.078	0.8 - 2.0	0.79	20.0	100
FCCB-2	2	3.03	77.0	2.54	64.5	0.54	13.7	2.54	64.5	0.031 - 0.078	0.8 - 2.0	0.79	20.0	100

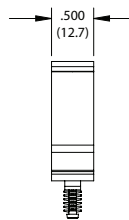
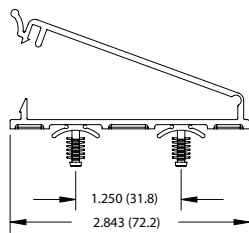
22FCC Series
Fir Tree Mounted Cable Clamps

Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:

- Quick, easy installation
- Resistant to corrosion, vibration and abrasion
- Easily mounted into pre-drilled holes

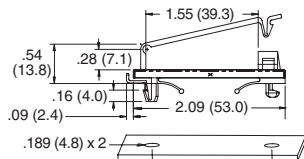


Item No.	Inside Width		Inside Height		Ø Mounting Hole		Min Panel Thickness		Bulk Pack Qty
	in	mm	in	mm	in	mm	in	mm	
22FCC250237	2.500	63.5	0.260	6.6	0.187	4.7	0.031	0.8	100

FCSE Series
Slide Entry Cable Clamps

Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural



Mounting Holes



Features:

- Removable from the top side of the board

Item No.	Depth		Panel Thickness Max		Bulk Pack Qty
	in	mm	in	mm	
FCSE-1	0.752	19.0	0.073	1.4	100

CABLE CLAMPS & CLIPS

HFCC Series
Hinged Cable Clamps

Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:

- Easy loading of flat cables
- Hinged design allows cables to be oriented prior to closure
- Once arm is hinged it locks in place
- Arrowhead design for thinner panels
- Fir-tree mount is primarily for particle board

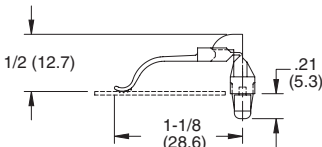


Figure 1

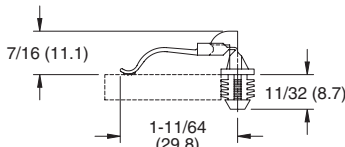


Figure 2

Item No.	Figure	Ø Mounting Hole		Panel Thickness		Bulk Pack Qty
		in	mm	in	mm	
HFCC-A-8-01	1	0.187	4.8	0.047 - 0.078	1.2 - 2.0	1000
HFCC-BH-8-01	2	0.312	7.9	0.250 min.	6.4 min.	1000

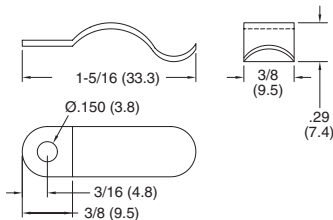
TC Series
Spring Clips

Specifications:

- Material: See Table
- Color: See Table

Features:

- Holds down round cable, ribbon cable, and tubing
- Mounts with a #6 screw or rivet
- Flexible enough that the cable can be removed without removing the clip
- All contact edges are rounded for product protection



Item No.	Max Ø Holding		Mounting Screw		Material	Color	Bulk Pack Qty
	in	mm	Imperial	Metric			
TC-30-1	0.370	9.4	#6	M3/M3.5	UL94 HB Acetal	Natural	1000
TC-30-1BK	0.370	9.4	#6	M3/M3.5	UL94 HB Acetal	Black	1000
TC-30-1-01	0.370	9.4	#6	M3/M3.5	UL94 V-2 Nylon 6/6	Natural	1000
TC-30-1-01BK	0.370	9.4	#6	M3/M3.5	UL94 V-2 Nylon 6/6	Black	1000

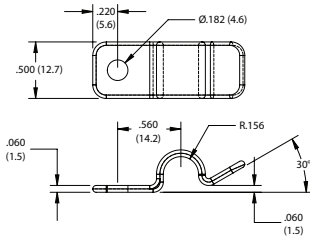
22WC Series
Wire Clips

Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:

- Fast, secure assembly and routing of wires, standard round cable, flat cable and tubing
- Contact edges are rounded for product protection
- Corrosion, vibration and abrasion resistant



Item No.	Max Ø Holding		Mounting Screw		Bulk Pack Qty
	in	mm	Imperial	Metric	
22WC500312	0.5	12.7	#8	M4	1000

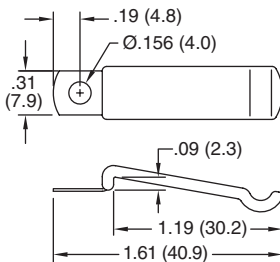
STCV Series
Vinyl Coated Steel Spring Clips

Specifications:

- Material: Stainless Steel SAE30301
- Coating: Platisol Vinyl
- Color: Black

Features:

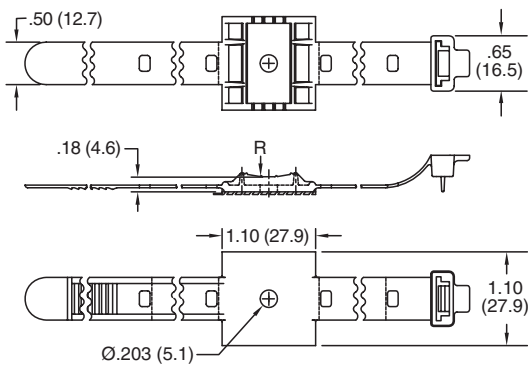
- Vinyl coating protects and insulates product
- Holds down round cable, ribbon cable and tubing
- Mounts with a #6 (M3) screw or rivet
- Flexible enough that the cable can be removed without removing the clip



Item No.	Mounting Screw		Pack Qty	Bulk Pack Qty
	Imperial	Metric		
STCV-1	#6	M3	1	1000

CABLE STRAPS & GRIPS

UMS Series
Universal Mounting Straps



Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Black

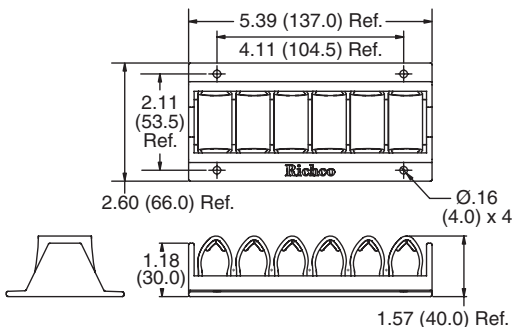
Features:

- Mounts with adhesive or a #6 or M4 screw
- Buckle design allows gripping down on cable bundles
- Adjustable to handle multiple bundle sizes



Item No.		Min Loop Tensile Strength		Ø Max Bundle		R Radius		Bulk Pack Qty
w/ Adhesive	w/o Adhesive	lbs	kg	in	mm	in	mm	
UMS-16-45A-RT	UMS-16-45	50	23	1.000	25.4	0.500	12.7	100
UMS-24-45A-RT	UMS-24-45	50	23	1.500	38.1	0.750	19.1	100
UMS-32-45A-RT	UMS-32-45	50	23	2.000	50.8	1.000	25.4	100

UCG Series
Universal Cable Grips



Specifications:

- Base Material: High-Density Polyethylene
- Insert Material: TPE
- Color: Black

Features:

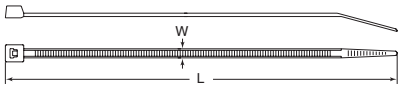
- Pressure grips accommodate up to 7 cable bundles
- Cable grips are easily removed from the frame to accommodate larger cable bundles
- Cables are pushed into the product by hand and are easily removed
- Mount to panel using #6 or M3.5 screws

Item No.	Max Cable Ø Bundle Ref (7 Positions)		Max Cable Ø Bundle Ref (5 Center Positions Only)		Bulk Pack Qty
	in	mm	in	mm	
UCG-6BK	0.08	2.0	0.630	16.0	125

CT/WITA Series
Nylon Locking Cable Ties

- Specifications:
- Material: UL94 V-2 Nylon 6/6
 - Color: See Table

- Features:
- Complies with MS-3367 & MIL-S-23190E
 - Service Temperature: -40°F to 185°F (-40°C to 85°C)
 - UL 181B-C for UI non-metallic air ducts and connectors on CT080A, CT080B: recommended for use with RX flex ducts found on page 70



Item No.			L Ref.		W Ref.		Ø Max Bundle		Tensile Strength		Classification	Bulk Pack Qty
Natural	Black	Approval	in	mm	in	mm	in	mm	lbs	N		
CT001A	CT001B	Ⓢ	3.000	75.0	0.095	2.4	0.710	18.0	18	80	Miniature	100
CT002A	CT002B	Ⓢ	3.750	96.0	0.098	2.4	0.910	23.0	18	80	Miniature	100
WITA-18SF-M	—	Ⓢ	3.850	97.8	0.100	2.5	0.870	22.0	18	80	Miniature	1000
CT003A	CT003E	Ⓢ	4.000	100.0	0.098	2.4	0.980	25.0	18	80	Miniature	100
WITA-18R-M	—	Ⓢ	4.720	120.0	0.100	2.5	1.060	26.9	18	80	Miniature	1000
CT004A	CT004B	Ⓢ	4.750	120.0	0.098	2.5	1.180	30.0	18	80	Miniature	100
CT005A	CT005B	Ⓢ	5.500	142.0	0.098	2.5	1.380	35.0	18	80	Miniature	100
WITA-18L-M	—	Ⓢ	5.900	150.0	0.100	2.5	1.460	37.1	18	80	Miniature	1000
CT006A	CT006B	Ⓢ	6.500	165.0	0.098	2.5	1.730	44.0	18	80	Miniature	100
WITA-18V-M	—	Ⓢ	7.870	200.0	0.100	2.5	2.130	54.1	18	80	Miniature	1000
CT007A	CT007B	Ⓢ	8.000	203.0	0.098	2.5	2.170	55.0	18	80	Miniature	100
WITA-18X-M	—	Ⓢ	15.750	400.0	0.100	2.5	4.560	116.0	18	80	Miniature	1000
CT008A	CT008B	Ⓢ	4.750	120.0	0.126	3.2	1.180	40.0	40	178	Intermediate	100
CT009A	CT009B	Ⓢ	5.500	142.0	0.126	3.2	1.380	40.0	40	178	Intermediate	100
WITA-40R-C	—	Ⓢ	5.910	150.0	0.140	3.6	1.480	37.6	40	178	Intermediate	100
WITA-40R-M	—	Ⓢ	5.910	150.0	0.140	3.6	1.480	37.6	40	178	Intermediate	1000
CT010A	CT010B	Ⓢ	6.000	150.0	0.142	3.6	1.540	39.0	40	178	Intermediate	100
CT020A	CT020B	Ⓢ	7.000	180.0	0.141	3.6	1.930	49.0	40	178	Intermediate	100
WITA-40L-M	—	Ⓢ	7.870	200.0	0.140	3.6	2.050	52.0	40	178	Intermediate	1000
CT011A	CT011B	Ⓢ	8.000	203.0	0.126	3.2	2.170	40.0	40	178	Intermediate	100
CT012A	CT012C	Ⓢ	8.000	203.0	0.142	3.6	2.170	55.0	40	178	Intermediate	100
WITA-40XL-M	—	Ⓢ	8.070	205.0	0.140	3.6	2.100	53.3	40	178	Intermediate	1000
CT013A	CT013B	Ⓢ	10.000	250.0	0.142	3.6	2.910	74.0	40	178	Intermediate	100
CT015A	CT015B	Ⓢ	11.500	292.0	0.142	3.6	3.350	85.0	40	178	Intermediate	100
WITA-40VL-M	—	Ⓢ	11.810	300.0	0.140	3.6	3.270	83.0	40	178	Intermediate	1000
CT016A	CT016B	Ⓢ	13.000	330.0	0.142	3.6	3.780	96.0	40	178	Intermediate	100
CT017A	CT017B	Ⓢ	14.500	368.0	0.142	3.6	4.020	102.0	40	178	Intermediate	100
WITA-50S-M	—	Ⓢ	6.300	160.0	0.180	4.6	1.520	38.7	50	222	Standard	1000
CT019A	CT019B	Ⓢ	6.500	160.0	0.189	4.8	1.650	42.0	50	222	Standard	100
CT021A	CT021B	Ⓢ	7.500	190.0	0.189	4.8	2.050	52.0	50	222	Standard	100
WITA-50R-M	—	Ⓢ	7.900	200.7	0.180	4.6	1.950	49.5	50	222	Standard	1000
CT022A	CT022B	Ⓢ	8.000	203.0	0.181	4.6	2.170	55.0	50	222	Standard	100
CT023A	CT023B	Ⓢ	10.000	250.0	0.189	4.8	2.910	74.0	50	222	Standard	100
CT024A	CT024B	Ⓢ	11.000	280.0	0.189	4.8	3.190	81.0	50	222	Standard	100
WITA-50RL-M	—	Ⓢ	11.020	280.0	0.190	4.8	3.030	77.0	50	222	Standard	1000
CT025A	CT025B	Ⓢ	11.875	300.0	0.189	4.8	3.350	85.0	50	222	Standard	100
CT027A	CT027B	Ⓢ	14.500	368.0	0.189	4.8	4.020	102.0	50	222	Standard	100
CT028A	CT028B	Ⓢ	15.250	385.0	0.189	4.8	4.570	116.0	50	222	Standard	100
WITA-50L-M	—	Ⓢ	15.750	400.0	0.180	4.6	4.450	113.0	50	222	Standard	1000
CT029A	CT029B	Ⓢ	17.000	432.0	0.189	4.8	4.920	125.0	50	222	Standard	100
CT030A	CT030B	Ⓢ	17.750	450.0	0.189	4.8	5.120	130.0	50	222	Standard	100
CT031A	CT031B	Ⓢ	19.687	500.0	0.189	4.8	5.910	150.0	50	222	Standard	100
CT033A	CT033B	—	21.687	550.0	0.189	4.8	6.540	166.0	50	222	Standard	100
WITA-50XL-C	—	Ⓢ	25.000	635.0	0.190	4.8	7.480	190.0	50	222	Standard	100
CT065A	CT065B	—	6.000	150.0	0.299	7.6	1.540	39.0	120	534	Heavy Duty	100
CT066A	CT066B	Ⓢ	8.000	203.0	0.299	7.6	2.170	55.0	120	534	Heavy Duty	100
WITA-120S-D	—	Ⓢ	8.600	218.0	0.300	7.6	2.010	51.0	120	534	Heavy Duty	500
CT067A	CT067B	Ⓢ	9.437	240.0	0.299	7.6	2.600	66.0	120	534	Heavy Duty	100
CT068A	CT068B	Ⓢ	11.000	280.0	0.299	7.6	3.070	78.0	120	534	Heavy Duty	100
CT069A	CT069B	Ⓢ	11.750	300.0	0.299	7.6	3.460	88.0	120	534	Heavy Duty	100
CT070A	CT070B	Ⓢ	13.500	340.0	0.299	7.6	3.900	99.0	120	534	Heavy Duty	100
CT071A	CT071B	—	15.000	380.0	0.252	6.4	4.330	110.0	100	445	Heavy Duty	100
CT072A	CT072B	Ⓢ	15.000	380.0	0.299	7.6	4.330	110.0	120	534	Heavy Duty	100
WITA-120R-D	—	Ⓢ	15.750	400.0	0.310	7.8	4.450	113.0	120	534	Heavy Duty	500
CT073A	CT073B	Ⓢ	17.750	450.0	0.315	8.0	5.240	133.0	120	534	Heavy Duty	100
WITA-120L-D	—	Ⓢ	21.650	550.0	0.310	7.8	6.380	162.0	120	534	Heavy Duty	500
CT074A	CT074B	Ⓢ	21.687	550.0	0.315	8.0	6.540	166.0	120	534	Heavy Duty	100
WITA-175R-L	—	Ⓢ	24.000	610.0	0.350	9.0	7.020	178.0	175	778	Heavy Duty	50
CT075A	CT075B	Ⓢ	24.000	610.0	0.354	9.0	7.280	185.0	175	778	Heavy Duty	100
CT076A	CT076B	Ⓢ	27.000	685.0	0.354	9.0	8.270	210.0	175	778	Heavy Duty	100
CT078A	CT078B	Ⓢ	30.000	762.0	0.354	9.0	9.290	236.0	175	778	Heavy Duty	100
CT079A	CT079B	Ⓢ	32.000	812.0	0.354	9.0	9.690	246.0	175	778	Heavy Duty	100
CT080A	CT080B	Ⓢ	36.000	914.0	0.354	9.0	10.630	270.0	175	778	Heavy Duty	100
WITA-175L-Q	—	Ⓢ	36.000	914.0	0.350	9.0	10.910	277.0	175	778	Heavy Duty	25
CT081A	CT081B	Ⓢ	46.000	1168.0	0.354	9.0	14.170	360.0	175	778	Heavy Duty	100

CABLE TIES

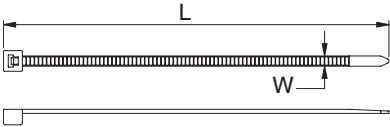
CTWR/WITA Series
Weather Resistant Locking Cable Ties

Specifications:

- Material: UL94 V-2 UV Stabilized Nylon 6/6
- Color: Black

Features:

- Service Temperature: -40°F to 185°F (-40°C to 85°C)
- Designed for outdoor applications



Item No.	Approval	L Ref.		W Ref.		Ø Max Bundle		Tensile Strength		Classification	Bulk Pack Qty
		in	mm	in	mm	in	mm	lbs	N		
WITA-18SF-UVB-M	UL	3.850	97.8	0.100	2.5	0.870	22.0	18	80	Miniature	1000
CTWR003A	UL	4.000	100.0	0.098	2.4	0.980	25.0	18	80	Miniature	100
WITA-18R-UVB-M	UL	4.720	120.0	0.100	2.5	1.060	26.9	18	80	Miniature	1000
WITA-18L-UVB-M	UL	5.900	150.0	0.100	2.5	1.460	37.1	18	80	Miniature	1000
CTWR006A	UL	6.500	165.0	0.098	2.5	1.730	44.0	18	80	Miniature	100
WITA-18V-UVB-M	UL	7.870	200.0	0.100	2.5	2.130	54.1	18	80	Miniature	1000
CTWR007A	UL	8.000	203.0	0.098	2.5	2.170	55.0	18	80	Miniature	100
WITA-18X-UVB-M	UL	15.750	400.0	0.100	2.5	4.560	116.0	18	80	Miniature	1000
CTWR008A	UL	4.750	120.0	0.126	3.2	1.180	30.0	40	178	Intermediate	100
CTWR009A	UL	5.500	142.0	0.126	3.2	1.380	35.0	40	178	Intermediate	100
WITA-40R-UVB-M	UL	5.910	150.0	0.140	3.6	1.480	37.6	40	178	Intermediate	1000
WITA-40R-UVB-C	UL	5.910	150.0	0.140	3.6	1.480	37.6	40	178	Intermediate	100
WITA-40L-UVB-M	UL	7.870	200.0	0.140	3.6	2.050	52.0	40	178	Intermediate	1000
CTWR010A	UL	8.000	203.0	0.126	3.2	2.170	55.0	40	178	Intermediate	100
WITA-40XL-UVB-M	UL	8.070	205.0	0.140	3.6	2.100	53.3	40	178	Intermediate	1000
CTWR011A	UL	6.000	150.0	0.142	3.6	1.540	39.0	40	178	Intermediate	100
CTWR012A	UL	8.000	203.0	0.142	3.6	2.170	55.0	40	178	Intermediate	100
CTWR013A	UL	10.000	250.0	0.142	3.6	2.910	74.0	40	178	Intermediate	100
CTWR014A	UL	10.500	265.0	0.142	3.6	3.070	78.0	40	178	Intermediate	100
CTWR015A	UL	11.500	292.0	0.142	3.6	3.350	85.0	40	178	Intermediate	100
WITA-40VL-UVB-M	UL	11.810	300.0	0.140	3.6	3.270	83.0	40	178	Intermediate	1000
CTWR016A	UL	13.000	330.0	0.142	3.6	3.780	96.0	40	178	Intermediate	100
CTWR017A	UL	14.500	368.0	0.142	3.6	4.020	102.0	40	178	Intermediate	100
CTWR018A	UL	7.000	180.0	0.142	3.6	1.930	49.0	40	178	Intermediate	100
WITA-50S-UVB-M	UL	6.300	160.0	0.180	4.6	1.520	38.7	50	222	Standard	1000
WITA-50R-UVB-M	UL	7.900	200.7	0.180	4.6	1.950	49.5	50	222	Standard	1000
CTWR019A	UL	8.000	203.0	0.181	4.6	2.170	55.0	50	222	Standard	100
CTWR020A	UL	4.750	120.0	0.189	4.8	1.180	30.0	50	222	Standard	100
CTWR021A	UL	6.500	160.0	0.189	4.8	1.650	42.0	50	222	Standard	100
CTWR022A	UL	7.500	190.0	0.189	4.8	2.050	52.0	50	222	Standard	100
CTWR023A	UL	10.000	250.0	0.189	4.8	2.910	74.0	50	222	Standard	100
CTWR024A	UL	11.000	280.0	0.189	4.8	3.190	81.0	50	222	Standard	100
WITA-50RL-UVB-M	UL	11.020	280.0	0.190	4.8	3.030	77.0	50	222	Standard	1000
CTWR025A	—	11.875	300.0	0.189	4.8	3.350	85.0	50	222	Standard	100
CTWR026A	UL	12.250	310.0	0.189	4.8	3.500	89.0	50	222	Standard	100
CTWR027A	UL	14.500	368.0	0.189	4.8	4.020	102.0	50	222	Standard	100
CTWR028A	UL	15.187	385.0	0.189	4.8	4.570	116.0	50	222	Standard	100
WITA-50L-UVB-M	UL	15.750	391.2	0.180	4.6	4.520	114.8	50	222	Standard	1000
CTWR029A	UL	17.000	432.0	0.189	4.8	4.920	125.0	50	222	Standard	100
CTWR030A	UL	17.750	450.0	0.189	4.8	5.120	130.0	50	222	Standard	100
CTWR031A	UL	19.687	500.0	0.189	4.8	5.910	150.0	50	222	Standard	100
CTWR033A	—	21.687	550.0	0.189	4.8	6.540	166.0	50	222	Standard	100
WITA-50XL-UVB-C	UL	25.000	635.0	0.190	4.8	7.480	190.0	50	222	Standard	100
CTWR065A	—	6.000	150.0	0.299	7.6	1.540	39.0	120	534	Heavy Duty	100
CTWR066A	UL	8.000	203.0	0.299	7.6	2.170	55.0	120	534	Heavy Duty	100
WITA-120S-UVB-D	UL	8.600	218.0	0.300	7.6	2.010	51.0	120	534	Heavy Duty	500
CTWR067A	UL	9.437	240.0	0.299	7.6	2.600	66.0	120	534	Heavy Duty	100
CTWR068A	UL	11.000	280.0	0.299	7.6	3.070	78.0	120	534	Heavy Duty	100
CTWR069A	UL	11.875	300.0	0.299	7.6	3.500	88.0	120	534	Heavy Duty	100
CTWR070A	UL	13.500	340.0	0.299	7.6	3.900	99.0	120	534	Heavy Duty	100
CTWR071A	—	15.000	380.0	0.252	6.4	4.330	110.0	100	445	Heavy Duty	100
CTWR072A	UL	15.000	380.0	0.299	7.6	4.330	110.0	120	534	Heavy Duty	100
WITA-120R-UVB-D	UL	15.750	400.0	0.310	7.8	4.450	113.0	120	534	Heavy Duty	500
WITA-120L-UVB-D	UL	21.650	550.0	0.310	7.8	6.380	162.0	120	534	Heavy Duty	500
CTWR073A	UL	17.750	450.0	0.315	8.0	5.250	133.0	175	778	Heavy Duty	100
CTWR074A	UL	21.875	550.0	0.315	8.0	6.500	166.0	175	778	Heavy Duty	100
WITA-175R-UVB-L	UL	24.000	610.0	0.350	9.0	7.020	178.0	175	778	Heavy Duty	50
CTWR075A	UL	24.000	610.0	0.354	9.0	7.280	185.0	175	778	Heavy Duty	100
CTWR076A	UL	27.000	680.0	0.354	9.0	8.270	210.0	175	778	Heavy Duty	100
CTWR077A	UL	28.000	705.0	0.354	9.0	8.660	220.0	175	778	Heavy Duty	100
CTWR080A	UL	36.000	914.0	0.354	9.0	10.630	270.0	175	778	Heavy Duty	100
WITA-175L-UVB-Q	UL	36.000	914.0	0.350	9.0	10.910	277.0	175	778	Heavy Duty	25

CABLE TIES

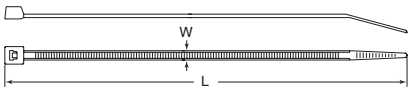
CTHD Series
Extra Heavy Duty Cable Ties

Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: See Table

Features:

- Service Temperature: -40°F to 185°F (-40°C to 85°C)
- High tensile strength for demanding applications



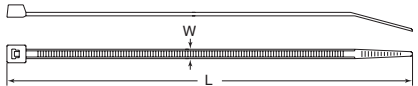
Item No.				L		W		Ø Max Bundle		Tensile Strength		Classification	Bulk Pack Qty
Natural	Approval	Black	Approval	in	mm	in	mm	in	mm	lbs	N		
CTHD002A	UL	CTHD002B	—	11.02	280.0	0.500	12.7	3.150	80.0	250	1113	Extra Heavy Duty	100
CTHD005A	UL	CTHD005B	UL	21.65	550.0	0.500	12.7	6.540	166.0	250	1113	Extra Heavy Duty	100
—	—	CTHD007B	—	28.74	730.0	0.500	12.7	8.860	225.0	250	1113	Extra Heavy Duty	100
CTHD008A	—	CTHD008B	—	34.65	880.0	0.500	12.7	10.510	267.0	250	1113	Extra Heavy Duty	100
CTHD009A	—	CTHD009B	—	40.55	1030.0	0.500	12.7	12.480	317.0	250	1113	Extra Heavy Duty	100

CT Series
Colored Locking Cable Ties



Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: See Table



Item No.						L Ref.		W Ref.		Ø Max Bundle		Tensile Strength		Classification	Bulk Pack Qty
Green	Red	Yellow	Blue	Silver	Approval	in	mm	in	mm	in	mm	lbs	N		
CT003G	CT003K	CT003Y	CT003L	CT003S	UL	3.94	100.0	0.098	2.5	0.980	25.0	18	80	Miniature	100
CT007G	CT007K	CT007Y	CT007L	CT007S	UL	8.00	203.0	0.098	2.5	2.170	55.0	18	80	Miniature	100
CT010G	CT010K	CT010Y	CT010L	CT010S	UL	5.91	150.0	0.142	3.6	1.540	39.0	40	178	Intermediate	100
CT013G	CT013K	CT013Y	CT013L	CT013S	UL	9.84	250.0	0.142	3.6	2.910	74.0	40	178	Intermediate	100
CT022G	CT022K	CT022Y	CT022L	—	UL	8.00	203.0	0.181	4.6	2.170	55.0	50	222	Standard	100
CT025G	CT025K	CT025Y	CT025L	—	UL	11.81	300.0	0.189	4.8	3.350	85.0	50	222	Standard	100
CT027G	CT027K	CT027Y	CT027L	CT027S	UL	14.49	368.0	0.189	4.8	4.020	102.0	50	222	Standard	100
CT072G	CT072K	CT072Y	CT072L	CT072S	UL	14.96	380.0	0.299	7.6	4.330	110.0	120	534	Heavy Duty	100

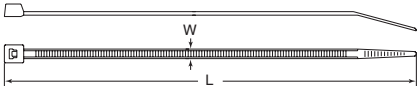
Polypropylene Locking Cable Ties

Specifications:

- Material: Polypropylene
- Color: Black

Features:

- Excellent chemical resistance
- Moisture levels are relatively unaffected by variations in moisture levels
- Buoyant

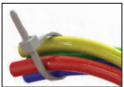
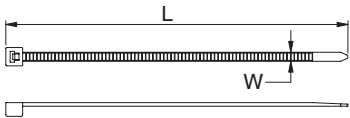


Item No.	L Ref.		W Ref.		Ø Max Bundle		Tensile Strength		Bulk Pack Qty
	in	mm	in	mm	in	mm	lbs	N	
1293369	5.90	150.0	0.14	3.6	1.42	36.1	18	80	100
1293370	8.00	203.0	0.18	4.6	2.05	52.1	22	98	100
1293371	9.84	250.0	0.19	4.8	2.68	68.1	22	98	100
1293372	9.49	240.0	0.29	7.4	2.40	61.0	50	222	100
1293373	11.81	300.0	0.30	7.6	3.15	80.0	50	222	100
1293374	14.96	380.0	0.30	7.6	4.13	104.9	50	222	100
1293375	21.65	550.0	0.31	7.9	6.30	160	50	222	100

WITA-V0 Series
UL94 V-0 Locking Cable Ties

Specifications:

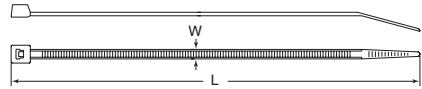
- Material: UL94 V-0 Nylon 6/6
- Color: Natural



Item No.	L Ref.		W Ref.		Ø Max Bundle		Tensile Strength		Bulk Pack Qty
	in	mm	in	mm	in	mm	lbs	N	
WITA-18R-V0-M	4.72	120.0	0.100	2.5	1.060	26.9	18	80	1000
WITA-50R-V0-M	7.90	200.7	0.180	4.6	1.950	49.5	50	222	1000

CABLE TIES / INSTALLATION TOOLS

CTHS/WITA-HS Series
Heat Stabilized Cable Ties



Specifications:

- Material: UL94 V-2 Heat Stabilized Nylon 6/6
- Color: Black

Features:

- Service Temperature: -40°F to 221°F (-40°C to 105°C)
- Suitable for higher temperature applications



Item No.	Approval	L Ref.		W Ref.		Ø Max Bundle		Tensile Strength		Classification	Bulk Pack Qty
		in	mm	in	mm	in	mm	lbs	N		
CT003F	UL	3.94	100.0	0.098	2.5	0.980	25.0	18	80	Miniature	100
WITA-18R-HS-M	—	4.72	120.0	0.100	2.5	1.060	26.9	18	80	Miniature	1000
CT005C	UL	5.59	142.0	0.098	2.5	1.380	35.0	18	80	Miniature	100
CT007C	UL	8.00	203.0	0.098	2.5	2.170	55.0	18	80	Miniature	100
WITA-40R-HS-M	—	5.91	150.0	0.140	3.6	1.480	37.6	40	178	Intermediate	1000
CT012D	UL	8.00	203.0	0.142	3.6	2.170	55.0	40	178	Intermediate	100
CT015C	UL	11.50	292.0	0.142	3.6	3.350	85.0	40	178	Intermediate	100
CT018C	UL	4.72	120.0	0.189	4.8	1.180	30.0	50	222	Standard	100
CT019C	UL	6.30	160.0	0.189	4.8	1.650	42.0	50	222	Standard	100
CT021C	UL	7.48	190.0	0.189	4.8	2.050	52.0	50	222	Standard	100
WITA-50R-HS-M	—	7.90	200.7	0.180	4.6	1.950	49.5	50	222	Standard	1000
CT022C	UL	8.00	203.0	0.181	4.6	2.170	55.0	50	222	Standard	100
CT024C	UL	11.02	280.0	0.189	4.8	3.190	81.0	50	222	Standard	100
WITA-50RL-HS-M	—	11.02	280.0	0.190	4.8	3.030	77.0	50	222	Standard	1000
CT025C	UL	11.81	300.0	0.189	4.8	3.350	85.0	50	222	Standard	100
CT029F	UL	17.00	432.0	0.189	4.8	4.920	125.0	50	222	Standard	100
CT033C	—	21.65	550.0	0.189	4.8	6.540	166.0	50	222	Standard	100
CT067C	UL	9.45	240.0	0.299	7.6	2.600	66.0	120	534	Heavy Duty	100
CT072C	UL	14.96	380.0	0.299	7.6	4.330	110.0	120	534	Heavy Duty	100
CT075C	UL	24.02	610.0	0.354	9.0	7.280	185.0	175	778	Heavy Duty	100

CTG/MTH Series
Cable Tie Installation Tools



Figure 1



Figure 2



Figure 3



Figure 4



Figure 5

Item No.	Figure	Used with Cable Ties	Features:	Pack Qty
WIT-2A	1	18 - 50 lbs	Heavy duty construction - cuts tie flush when adjustable preset bundling tension is reached	1
CTG004A	2	50 - 175 lbs		1
WIT-3A	3	18 - 50 lbs	Economy model - glass reinforced Nylon for lightweight durability	1
CTG010A	4	Stainless Steel	Tightens and cuts locking Stainless Steel ties	1
MTG-1	5	Stainless Steel	Tightens and cuts locking Stainless Steel ties	1

CTR/WIT-RT Series
Standard Releasable Cable Ties

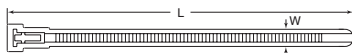


Figure 1

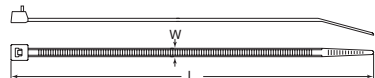


Figure 2

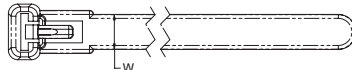


Figure 3

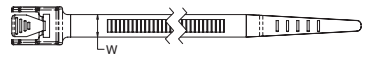


Figure 4

Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: See Table

Features:

- Ties remain locked until intentionally released using release tab
- Great for temporary bundling purposes or future changes

Item No.		Figure	L Ref.		W Ref.		Ø Max Bundle		Tensile Strength		Bulk Pack Qty
Natural	Black		in	mm	in	mm	in	mm	lbs	N	
WIT-RT-1-M	WIT-RT-1-UVB-M	3	8.093	206.0	0.300	7.6	1.875	48.0	30	133	1000
WIT-RT-0550-M	WITRT-0550-UV-M	4	5.500	139.7	0.210	5.3	1.250	31.8	40	178	1000
WIT-RT-0800-M	WITRT-0800-UV-M	4	8.000	203.2	0.210	5.3	2.000	50.8	40	178	1000
WIT-RT-1050-M	—	4	10.500	266.7	0.210	5.3	2.500	63.5	40	178	1000
WIT-50SR-M	WIT-50SR-UVB-M	2	6.000	152.4	0.190	4.8	1.500	38.1	50	222	1000
WIT-50RR-M	WIT-50RR-UVB-M	2	8.000	203.2	0.190	4.8	2.000	50.8	50	222	1000
WIT-50LR-M	WIT-50LR-UVB-M	2	11.656	295.9	0.190	4.8	3.000	76.2	50	222	1000
CTR011A	—	2	14.562	370.0	0.189	4.8	4.020	102.0	50	222	100

STAINLESS STEEL CABLE TIES / SPECIALTY CABLE TIES

MT Series
Stainless Steel Cable Ties



Specifications:

- Material: See Table

Features:

- Temperature Range: -328°F to 1000°F (-200°C to 538°C)
- Use 316 Stainless Steel for corrosive environments
- Use Type 304 Stainless Steel for general purpose indoor/outdoor applications
- Radiation, vibration and flame resistant

Use with Installation Tools CTG010A or MTG-1 on page 51.



See page 68 for Stainless Steel Cable Tie Holders.



Item No.		Approval	Length		Width		Ø Max Bundle		Tensile Strength		Bulk Pack Qty
304 Stainless Steel	316 Stainless Steel		in	mm	in	mm	in	mm	lbs	N	
MT-1	MT-16	UL	5.00	127.0	0.18	4.6	1.00	25.4	100	445	100
MT-2	MT-17	UL	7.91	201.0	0.18	4.6	2.00	51.0	100	445	100
MT-3	MT-18	UL	10.20	259.0	0.18	4.6	2.75	70.0	100	445	100
MT-4	MT-19	UL	14.25	362.0	0.18	4.6	4.00	102.0	100	445	100
MT-5	MT-20	UL	20.51	521.0	0.18	4.6	6.00	152.0	100	445	100
MT-6	MT-21	UL	26.73	679.0	0.18	4.6	8.00	203.0	100	445	100
MT-7	MT-22	UL	32.99	838.0	0.18	4.6	10.00	254.0	100	445	100
MT-8	MT-23	UL	39.29	998.0	0.18	4.6	12.00	304.0	100	445	50
MT-9	MT-24	UL	49.21	1250.0	0.18	4.6	15.00	380.0	100	445	50
MT-10	MT-25	UL	7.91	201.0	0.31	7.9	2.00	51.0	250	1113	100
MT-11	MT-26	UL	14.25	362.0	0.31	7.9	4.00	102.0	250	1113	100
MT-12	MT-27	UL	20.51	521.0	0.31	7.9	6.00	152.0	250	1113	100
MT-13	MT-28	UL	26.73	679.0	0.31	7.9	8.00	203.0	250	1113	100
MT-14	MT-29	UL	32.99	838.0	0.31	7.9	10.00	254.0	250	1113	50
MT-15	MT-30	UL	39.29	998.0	0.31	7.9	12.00	304.0	250	1113	50

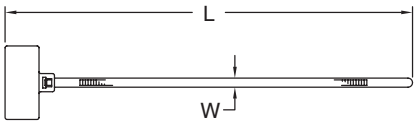
WITA-F Series
Identification Marker Ties

Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:

- Identification label on tie that can be imprinted or written on with markers



Item No.	L Ref.		W Ref.		Ø Max Bundle		Tensile Strength		Marker Pad		Bulk Pack Qty
	in	mm	in	mm					in	mm	
WITA-F2-18R-M	4.330	110.0	0.100	2.5	0.980	25.0	18	80	1.00 x 0.31	25.0 x 7.9	1000

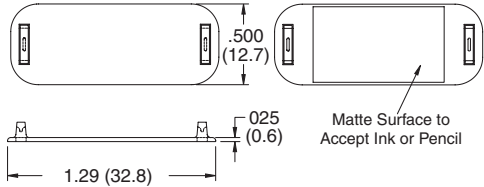
WIT-MK-1 Series
Marker Tag for Cable Ties

Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:

- Slide any standard cable tie up to 50 lbs. through mounting slots (ties sold separately)
- Matte surface to accept ink, pencil or marker



Item No.	Cable Ties Accepted	Bulk Pack Qty
WIT-MK-1	18 lbs. - 50 lbs.	1000

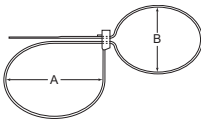
WITA-DH Series
Double Headed Cable Ties

Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: See Table

Features:

- Double head design keeps two wire bundles separate



Item No.		L		W		A Max		A Min		B Max		B Min		Tensile Strength		Bulk Pack Qty
Natural	Black UV Stabilized	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lbs	N	
WITA-50RLDH-M	WITA50RLDH-UV-M	8.875	225.0	0.189	4.8	2.300	59.0	0.098	2.5	2.000	52.0	0.079	2.0	50	222	1000
WITA-50LDH-M	WITA-50LDH-UV-M	14.560	370.0	0.189	4.8	4.100	105.0	0.098	2.5	3.900	98.0	0.079	2.0	50	222	1000

BEADED CABLE TIES

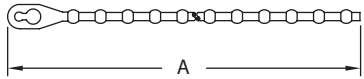
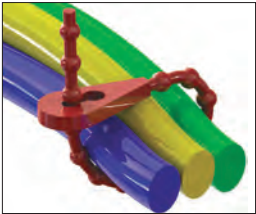
BT Series
Beaded Cable Ties

Specifications:

- Material: See Table
- Color: See Table

Features:

- Easy to install and release
- Beaded design keeps wires from shifting or slipping
- Polypropylene material is very flexible



Item No.						A Ref. Length		Ø Max Bundle Requires 3 Bead Engagement		Bulk Pack Qty
Red UL94 HB Polypropylene	Yellow UL94 HB Polypropylene	Blue UL94 HB Polypropylene	Black UL94 HB Polypropylene	Natural UL94 V-2 Nylon 6/6	Black UL94 V-2 Nylon 6/6	in	mm	in	mm	
BT-2-10-RD	BT-2-10-YL	BT-2-10-BL	BT-2-10-BK	BT-2-01-NT	BT-2-01-BK	2.50	63.5	0.563	14.3	1000
BT-4-10-RD	BT-4-10-YL	BT-4-10-BL	BT-4-10-BK	BT-4-01-NT	BT-4-01-BK	4.00	101.6	1.000	25.4	1000
BT-5-10-RD	BT-5-10-YL	BT-5-10-BL	BT-5-10-BK	BT-5-01-NT	BT-5-01-BK	5.00	127.0	1.250	31.8	1000
BT-6-10-RD	BT-6-10-YL	BT-6-10-BL	BT-6-10-BK	BT-6-01-NT	BT-6-01-BK	6.00	152.4	1.750	44.5	1000
BT-8-10-RD	BT-8-10-YL	BT-8-10-BL	BT-8-10-BK	BT-8-01-NT	BT-8-01-BK	8.75	222.3	2.375	60.3	1000
BT-10-10-RD	BT-10-10-YL	BT-10-10-BL	BT-10-10-BK	BT-10-01-NT	BT-10-01-BK	10.75	273.1	3.125	85.7	1000
BT-12-10-RD	BT-12-10-YL	BT-12-10-BL	BT-12-10-BK	BT-12-01-NT	BT-12-01-BK	12.75	323.9	3.625	92.1	1000

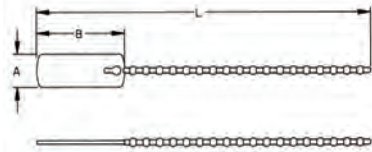
23LB/23LP Series
Label Beaded Ties

Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

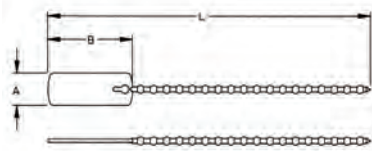
Features:

- Use permanent ink pens, felt tip pens, pressure sensitive adhesive labels or even Post-it notes on the polished label area
- Resists corrosion and abrasion
- "LB" blunt tip for general use. "LP" pointed tip can be used to pierce thin materials



LB Version

Item No.	L		A		B		Bulk Pack Qty
	in	mm	in	mm	in	mm	
23LB0400N	4.000	101.6	0.500	12.7	1.313	33.3	500
23LB0600N	6.000	152.4	0.500	12.7	1.313	33.3	500



LP Version

Item No.	L		A		B		Bulk Pack Qty
	in	mm	in	mm	in	mm	
23LP0400N	4.000	101.6	0.500	12.7	1.313	33.3	500
23LP0600N	6.000	152.4	0.500	12.7	1.313	33.3	500

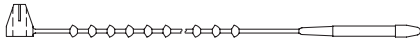
LBT Series
Locking Beaded Cable Ties

Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:

- Has a permanent locking feature



Item No.	Approval	Length		Width Max		Ø Max Bundle		Tensile Strength		Bulk Pack Qty
		in	mm	in	mm	in	mm	lbs	N	
LBT-18-01	UL	5.90	150.0	0.080	2.0	1.4	35.6	18	80	1000

BEADED CABLE TIES / SPECIALTY CABLE TIES

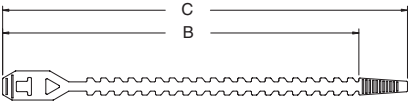
HT Series
Hanking Cable Ties

Specifications:

- Material: Polyethylene
- Color: Natural

Features:

- Extremely flexible
- Good for wrapping electrical cords for shipping and packaging



Item No.	B Ref.		C Ref.		Ø Max Bundle		Width of Strap		Bulk Pack Qty
	in	mm	in	mm	in	mm	in	mm	
HT-3.9	3.19	81.0	3.90	99.0	0.91	23.0	0.250	6.4	1000
HT-4.9	4.21	107.0	4.92	125.0	1.10	28.0	0.250	6.4	1000
HT-5.9	5.20	132.0	5.91	150.0	1.42	36.0	0.250	6.4	1000

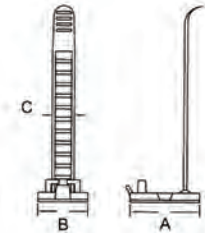
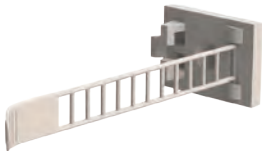
NM22LCC Series
Adhesive Based Ladder Ties

Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

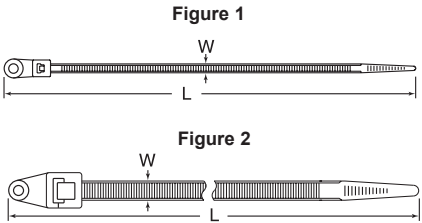
Features:

- Keeps wires or cables neatly and securely in place
- Resists corrosion, vibration and abrasion
- Adhesive backing allows for easy installation, no tools or mounting screws needed



Item No.	Max Cable Ø		L		W		Bulk Pack Qty
	in	mm	in	mm	in	mm	
NM22LCC0625	0.669	17.0	0.984	25.0	0.709	18.0	100
NM22LCC0812	0.866	22.0	1.201	30.5	0.827	21.0	100
NM22LCC1000	1.024	26.0	1.201	30.5	0.827	21.0	100

CTMT Series
Screw Mount Cable Ties



Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:

- Mountable with single screw or bolt

Item No.	Figure	L		W		Ø Max Bundle		Tensile Strength		Screw Size	Bulk Pack Qty
		in	mm	in	mm	in	mm	lbs.	N		
CTMT001A	1	4.33	110	0.098	2.5	0.984	25	18	80	#4	100
CTMT002A	1	6.75	171.5	0.146	3.7	1.575	40	40	178	#10	100
CTMT003A	1	8.62	219	0.165	4.2	2.047	52	50	222	#10	100

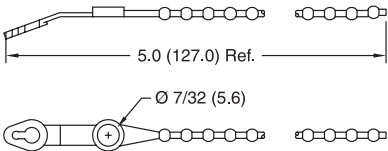
ST Series
Screw Mount Beaded Cable Ties

Specifications:

- Material: See table
- Color: Natural

Features:

- Tie is easily releasable
- Polypropylene material is very flexible
- Easily and securely mounted with a #12 (M5) screw



Item No.	Material	Ø Bundle Range		Screw Size	Bulk Pack Qty
		in	mm		
ST-205	UL94 HB Polypropylene	0.250 - 1.250	6.4 - 31.8	#12	1000
ST-305	UL94 V-2 Nylon 6/6	0.250 - 1.250	6.4 - 31.8	#12	1000

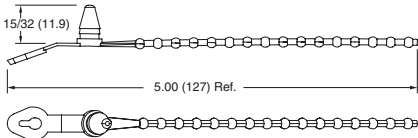
PT Series
Push In Beaded Cable Ties

Specifications:

- Material: See table
- Color: See table

Features:

- Easily snaps into mounting hole
- Tie is easily releasable
- Polypropylene material is very flexible



Item No.	UL94 V-2 Nylon 6/6	Color	Ø Bundle Range		Ø Mounting Hole		Panel Thickness		Bulk Pack Qty
			in	mm	in	mm	in	mm	
PT-203	PT-303	Black	1/4 - 1-1/4	6.4 - 31.8	0.250	6.4	0.031 - 0.125	0.8 - 3.2	1000
PT-205	PT-305	Natural	1/4 - 1-1/4	6.4 - 31.8	0.250	6.4	0.031 - 0.125	0.8 - 3.2	1000

ARROWHEAD CABLE TIES / PUSH MOUNT CABLE TIES

WIT-30RRA/TOAH Series
Releasable Arrowhead Cable Ties



- Specifications:
- Material: UL94 V-2 Nylon 6/6
 - Color: Natural

- Features:
- Combines cable tie, mount and fastener in a single part
 - Used to attach wire or cable bundles to a surface
 - Easily snaps into pre-drilled holes
 - WIT-30RRA part has a spacer after the arrowhead

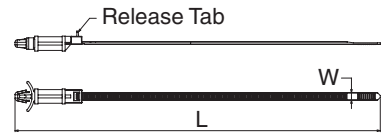


Figure 1

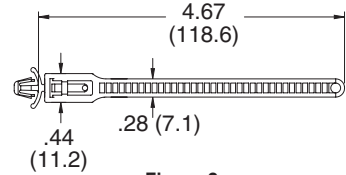
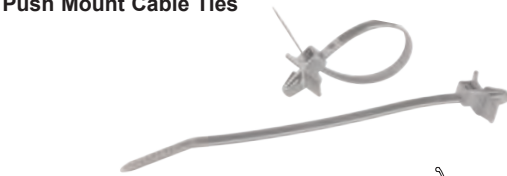


Figure 2

Item No.	Figure	L Ref.		W Ref.		Ø Max Bundle		Tensile Strength		Ø Mounting Hole		Panel Thickness		Spacer Length		Bulk Pack Qty
		in	mm	in	mm	in	mm	lbs.	N	in	mm	in	mm	in	mm	
WIT-30RRA-4-M	1	6.312	160.3	0.141	3.6	1.250	31.8	30	135	0.187	4.8	0.030 - 0.078	0.8 - 2.0	0.280	7.1	1000
WIT-30RRA-8-M	1	6.562	166.7	0.141	3.6	1.250	31.8	30	135	0.187	4.8	0.030 - 0.078	0.8 - 2.0	0.530	13.5	1000
WIT-30RRA-12-M	1	6.812	173.0	0.141	3.6	1.250	31.8	30	135	0.187	4.8	0.030 - 0.078	0.8 - 2.0	0.780	19.8	1000
WIT-30RRA-16-M	1	7.062	179.4	0.141	3.6	1.250	31.8	30	135	0.187	4.8	0.030 - 0.078	0.8 - 2.0	1.000	25.4	1000
WIT-30RRA-4-M	1	6.362	161.6	0.141	3.6	1.250	31.8	30	135	0.250	6.4	0.030 - 0.078	0.8 - 2.0	0.280	7.1	1000
WIT-30RRA-8-M	1	6.614	168.0	0.141	3.6	1.250	31.8	30	135	0.250	6.4	0.030 - 0.078	0.8 - 2.0	0.530	13.5	1000
WIT-30RRA-12-M	1	6.862	174.3	0.141	3.6	1.250	31.8	30	135	0.250	6.4	0.030 - 0.078	0.8 - 2.0	0.780	19.8	1000
WIT-30RRA-16-M	1	7.114	180.7	0.141	3.6	1.250	31.8	30	135	0.250	6.4	0.030 - 0.078	0.8 - 2.0	1.000	25.4	1000
TOAH-18-01	2	4.670	118.6	0.280	7.1	1.125	28.5	40	178	0.250	6.4	0.062	1.6	—	—	1000

WIT-A/WITBH/NTA Series
Push Mount Cable Ties



- Specifications:
- Material: UL94 V-2 Nylon 6/6
 - WITBH-50R-HS Material: UL94 V-2 Heat Stabilized Nylon serviceable to 239°F
 - Color: See Table

- Features:
- Easily snaps into pre-drilled holes
 - Can be mounted to installation before final assembly
 - Combines a cable tie, mount and fastener in a single part
 - Figures 2 and 6 are removable from the top of the board

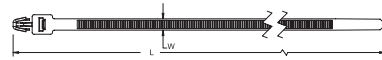


Figure 1

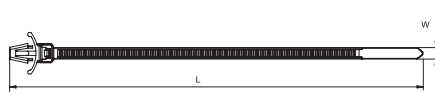


Figure 3

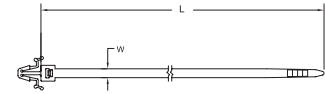


Figure 2

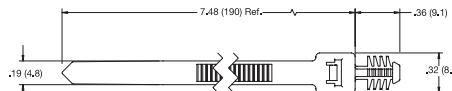


Figure 5

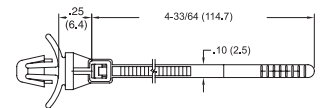


Figure 4

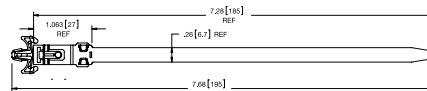
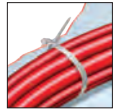


Figure 6



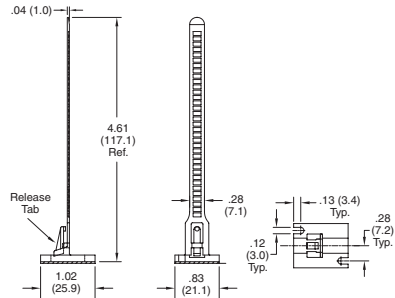
Item No.			L Ref.		W Ref.		Ø Max Bundle		Tensile Strength		Ø Mounting Hole		Panel Thickness		Bulk Pack Qty
Natural Nylon 6/6	Black UV Resistant Nylon 6/6	Figure	in	mm	in	mm	in	mm	lbs.	N	in	mm	in	mm	
WIT-50RLA-1	—	1	5.320	135.0	0.190	4.8	1.000	25.4	50	222	0.250	6.4	0.125	3.2	1000
NTA15535PMTG	—	1	6.125	168.0	0.150	3.8	1.550	40.0	40	178	0.189	4.8	0.118	3.0	100
WIT-50RLA-2	—	1	6.690	170.0	0.190	4.8	1.500	38.1	50	222	0.250	6.4	0.125	3.2	1000
WIT-50RLA-3	—	1	7.870	200.0	0.190	4.8	1.750	44.5	50	222	0.250	6.4	0.125	3.2	1000
NTA20347PMTG	NTA20347PMTGB	1	8.000	203.0	0.189	4.8	1.968	50.0	50	228	0.250	6.4	0.118	3.0	100
WIT-50RLA-M	—	1	8.870	225.4	0.190	4.8	2.000	50.8	50	222	0.187	4.7	0.093	2.4	1000
WIT-30RAR1-2	—	2	5.125	130.0	0.140	3.6	1.000	25.4	30	135	0.189	4.8	0.079 - 0.094	2.0 - 2.4	100
WIT-30LAR1-2	—	2	6.125	155.5	0.140	3.6	1.250	31.8	30	135	0.189	4.8	0.079 - 0.094	2.0 - 2.4	100
NTA11225WPM	NTA11225WPMB	3	4.375	112.0	0.098	2.5	0.980	25.0	18	80	0.181	4.6	0.070	1.7	100
WIT-18RA-01	—	3	4.290	109.0	0.100	2.5	0.830	21.0	18	80	0.190	4.8	0.060	1.6	1000
—	NTA13048WPMB	3	5.125	132.0	0.189	4.8	1.180	30.0	50	228	0.236	6.0	0.110	2.8	100
WIT-50SA-01	—	3	5.240	133.0	0.190	4.8	0.910	23.0	50	222	0.250	6.4	0.060	1.6	1000
WIT-50SA-1-01	—	3	5.240	133.0	0.190	4.8	0.910	23.0	50	222	0.250 - 0.270	6.4 - 6.8	0.030 - 0.080	0.8 - 2.0	1000
NTA15535WPM	NTA15535WPMB	3	6.125	157.0	0.138	3.5	1.420	36.0	40	178	0.181	4.6	0.118	3.0	100
WIT-50SRA-01	—	3	6.810	173.0	0.190	4.8	1.420	36.0	50	222	0.250	6.4	0.060	1.6	1000
WIT-50SRA-1-01	—	3	6.810	173.0	0.190	4.8	1.420	36.0	50	222	0.250 - 0.270	6.4 - 6.8	0.030 - 0.080	0.8 - 2.0	1000
WIT-50RA-01	—	3	7.800	198.0	0.190	4.8	1.690	43.0	50	222	0.250	6.4	0.060	1.6	500
WIT-50RA-1-01	—	3	7.800	198.0	0.190	4.8	1.690	43.0	50	222	0.250 - 0.270	6.4 - 6.8	0.030 - 0.080	0.8 - 2.0	500
NTA20048WPM	—	3	8.000	201.0	0.189	4.8	1.970	50.0	50	228	0.236	6.0	0.109	2.8	100
WIT-18R1A-4-01	—	4	4.760	121.1	0.100	2.5	0.750	19.1	18	80	0.156	4.0	0.031 - 0.078	0.8 - 2.0	1000
WIT-18RA-4-01-M	—	4	4.760	121.1	0.100	2.5	0.750	19.1	18	80	0.187	4.8	0.031 - 0.078	0.8 - 2.0	1000
WIT-18R2A-4-01	—	4	4.760	121.1	0.100	2.5	0.750	19.1	18	80	0.187	4.8	0.062 - 0.140	1.6 - 3.6	1000
WITBH-50R	—	5	See Figure 5	—	—	—	1.750	44.5	50	228	0.250	6.4	0.250	6.4	100
—	WITBH-50R-HS	5	See Figure 5	—	—	—	1.750	44.5	50	228	0.250	6.4	0.250	6.4	100
WIT-40LAR	—	6	See Figure 6	—	—	—	1.970	50.0	40	178	0.187	4.8	0.020 - 0.091	0.5 - 2.3	100

SCREW MOUNT CABLE TIES / STRAPS / HOOK AND LOOP

TOBS Series
Adhesive/Screw Mount Ties

- Specifications:
- Material: UL94 V-2 Nylon 6/6
 - Color: Black

- Features:
- Mounts with two #4 (M3) screws or adhesive
 - Cable tie is releasable

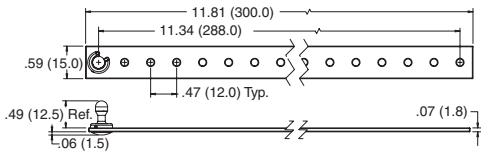


Item No.	Slots for Screw Size		Ø Max Bundle		Bulk Pack Qty
	in	mm	in	mm	
TOBS-18-01A-RT	#4	M3	1.125	28.5	1000

ES Series
Rubber Straps with Locking Button

- Specifications:
- Material: Strap; Silicone Rubber, 50 Shore A
Latch Pin: UL94 HB Nylon 6/6
 - Color: Black

- Features:
- Rubber strap can be stretched and wrapped around bundles up to three times
 - Grips the cables preventing movement
 - For additional latch pins, order part number CS-113-6

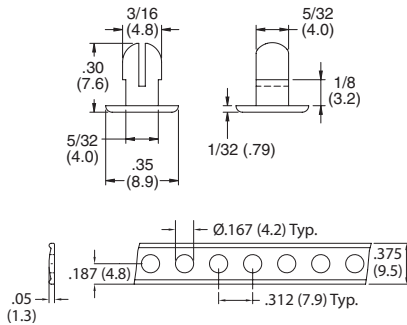


Item No.	Ø Max Bundle		Max Perimeter		Bulk Pack Qty
	in	mm	in	mm	
ES-1	4.33	110.0	13.6	345.0	100

RNS/LB Series
Nylon Straps with Locking Button

- Specifications:
- Material: Nylon 6/6
 - Color: Black

- Features:
- 100 foot long strap can be cut to desired length
 - Once bundle is wrapped, the strap is secured with mounting button, LB-5

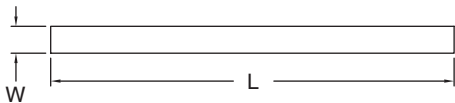


Item No.	Description	Material Flame Rating	Bulk Pack Qty
RNS-167	Strap	UL94 HB	1 (100 ft. roll)
LB-5	Locking Button	UL94 V-2	100

RKS Series
Hook and Loop Straps

- Specifications:
- Material: Hook: Low Density Polyethylene
Loop: Nylon Knit
 - Color: Black

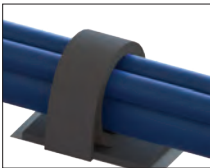
- Features:
- Heavy duty hook and loop
 - Features VELCRO® brand hook and loop material
 - User can cut to desired length
 - Excellent in reusable applications



Item No.	L		W		Bulk Pack Qty
	in	mm	in	mm	
RKS-8-6-BK	6.0	152.4	.50	12.7	10
RKS-8-8-BK	8.0	203.2	.50	12.7	10
RKS-8-12BK	12.0	304.8	.50	12.7	10
RKS-16-8-BK	8.0	203.2	1.00	25.4	10
RKS-16-12-BK	12.0	304.8	1.00	25.4	10

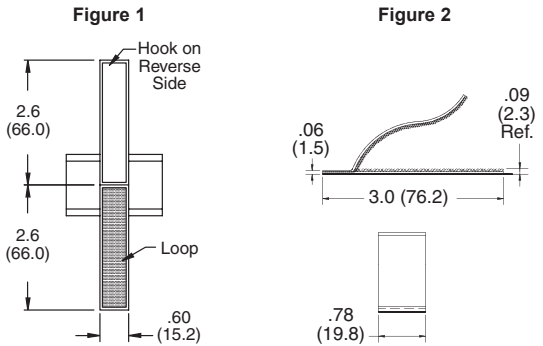
HOOK AND LOOP

RKWB/RKWFA Series
Hook and Loop Clamps



- Specifications:
- Material: Hook and Loop
 - Color: Black

- Features:
- Hook and loop design
 - RKWB accommodates multiple bundle diameters; up to 1-1/2"
 - RKWFA accommodates multiple bundle diameters; up to 0.75"

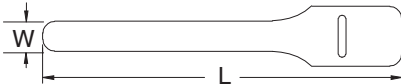


Item No.	Figure	Ø Max Bundle		Base		Bulk Pack Qty
		in	mm	in	mm	
RKWB-1	1	1.50	38.1	2.00 x 1.00	50.8 x 25.4	100
RKWFA-1	2	1.50	38.1	3.00 x 0.78	52.3 x 19.8	100

RKW Series
Hook and Loop Cable Ties

- Specifications:
- Material: Loop - Nylon Knit
Hook - Low-Density Polyethylene
 - Color: See Table

- Features:
- Easy assembly and removal
 - Can be fastened and released several times
 - Features: VELCRO® brand hook and loop material



See page 68 - 69 for Hook and Loop Cable Tie Holders.

Item No.				Screw Mount	L		W		Ø Max Bundle		Bulk Pack Qty
Black	Blue	Green			in	mm	in	mm	in	mm	
RKW-6-6-BK	RKW-6-6-BL	RKW-6-6-GN	No	No	6.0	152.4	0.38	9.5	1.400	35.6	10
RKW-8-6-BK	RKW-8-6-BL	RKW-8-6-GN	No	No	6.0	152.4	0.50	12.7	1.400	35.6	10
RKW-8-8-BK	RKW-8-8-BL	RKW-8-8-GN	Yes	Yes	8.0	203.2	0.50	12.7	1.920	48.7	10
RKW-8-9-BK	RKW-8-9-BL	RKW-8-9-GN	Yes	Yes	9.0	228.6	0.50	12.7	2.140	54.4	10
RKW-8-11-BK	RKW-8-11-BL	RKW-8-11-GN	No	No	11.0	279.4	0.50	12.7	2.618	66.5	10
RKW-8-12-BK	RKW-8-12-BL	RKW-8-12-GN	Yes	Yes	12.0	304.8	0.50	12.7	2.856	72.5	10
RKW-8-13-BK	RKW-8-13-BL	RKW-8-13-GN	Yes	Yes	13.0	330.2	0.50	12.7	3.396	86.3	10
RKW-12-9-BK	RKW-12-9-BL	RKW-12-9-GN	Yes	Yes	9.0	228.6	0.75	19.1	2.140	54.4	10
RKW-12-15-BK	RKW-12-15-BL	RKW-12-15-GN	No	No	15.0	381.0	0.75	19.1	3.918	99.5	10
RKW-12-18-BK	RKW-12-18-BL	RKW-12-18-GN	No	No	18.0	457.2	0.75	19.1	4.716	119.8	10
RKW-12-24-BK	RKW-12-24-BL	RKW-12-24-GN	No	No	24.0	609.6	0.75	19.1	6.288	159.7	10

Item No.				Screw Mount	L		W		Ø Max Bundle		Bulk Pack Qty
Orange	Red	White	Yellow		in	mm	in	mm	in	mm	
RKW-6-6-OR	RKW-6-6-RD	RKW-6-6-W	RKW-6-6-YL	No	6.0	152.4	0.38	9.5	1.400	35.6	10
RKW-8-6-OR	RKW-8-6-RD	RKW-8-6-W	RKW-8-6-YL	No	6.0	152.4	0.50	12.7	1.400	35.6	10
RKW-8-8-OR	RKW-8-8-RD	RKW-8-8-W	RKW-8-8-YL	Yes	8.0	203.2	0.50	12.7	1.920	48.7	10
RKW-8-9-OR	RKW-8-9-RD	RKW-8-9-W	RKW-8-9-YL	Yes	9.0	228.6	0.50	12.7	2.140	54.4	10
RKW-8-11-OR	RKW-8-11-RD	RKW-8-11-W	RKW-8-11-YL	No	11.0	279.4	0.50	12.7	2.618	66.5	10
RKW-8-12-OR	RKW-8-12-RD	RKW-8-12-W	RKW-8-12-YL	Yes	12.0	304.8	0.50	12.7	2.856	72.5	10
RKW-8-13-OR	RKW-8-13-RD	RKW-8-13-W	RKW-8-13-YL	Yes	13.0	330.2	0.50	12.7	3.396	86.3	10
RKW-12-9-OR	RKW-12-9-RD	RKW-12-9-W	RKW-12-9-YL	Yes	9.0	228.6	0.75	19.1	2.140	54.4	10
RKW-12-15-OR	RKW-12-15-RD	RKW-12-15-W	RKW-12-15-YL	No	15.0	381.0	0.75	19.1	3.918	99.5	10
RKW-12-18-OR	RKW-12-18-RD	RKW-12-18-W	RKW-12-18-YL	No	18.0	457.2	0.75	19.1	4.716	119.8	10
RKW-12-24-OR	RKW-12-24-RD	RKW-12-24-W	RKW-12-24-YL	No	24.0	609.6	0.75	19.1	6.288	159.7	10

Item No.	Screw Mount	L		W		Ø Max Bundle		Bulk Pack Qty
		in	mm	in	mm	in	mm	
RKW-6-6-BK-C	No	6.0	152.4	0.38	9.5	1.400	35.56	100
RKW-8-6-BK-C	No	6.0	152.4	0.50	12.7	1.400	35.56	100
RKW-8-8-BK-C	Yes	8.0	203.2	0.50	12.7	1.920	48.70	100
RKW-8-9-BK-C	Yes	9.0	228.6	0.50	12.7	2.140	54.40	100
RKW-12-15-BK-C	No	15.0	381.0	0.75	19.1	3.918	99.52	100

HOOK AND LOOP CABLE TIES & CINCH STRAPS

RKWPR Series
Plenum Rated Hook and Loop Cable Ties



Specifications:

- Material/Color
Hook: Black UL94 V-2 Polypropylene
Loop: Maroon UL94 V-2 Nylon

Features:

- Meets UL94 V-2 requirements, UL #E143339
- Accepted as wire positioning device (16SA) in air handling spaces in accordance with section 300-22 paragraph (C) and (D) of the National Electrical Code
- VELCRO® brand hook and loop material



Item No.	Screw Mount	L		W		A		Bulk Pack Qty
		in	mm	in	mm	in	mm	
RKWPR-6-6	No	6.0	152.4	1.00	25.4	0.50	12.7	10
RKWPR-8-8	Yes	8.0	203.2	1.00	25.4	0.50	12.7	10
RKWPR-8-12	Yes	12.0	304.8	1.00	25.4	0.50	12.7	10
RKWPR-12-13	Yes	13.0	330.2	1.50	38.1	0.75	19.1	10

RKWE Series
Economy Hook and Loop Cable Ties



Specifications:

- Material: Hook: Low-Density Polyethylene
Loop: Nylon Knit
- Color: Black

Features:

- VELCRO® brand hook and loop material
- Similar in function and purpose to the RKW Series, these economy ties are made from a lower-profile, economical material



Item No.	L		W		A		Bulk Pack Qty
	in	mm	in	mm	in	mm	
RKWE-6-6-BK	6.0	152.4	0.75	19.1	0.38	9.5	10
RKWE-8-6-BK	6.0	152.4	1.00	25.4	0.50	12.7	10
RKWE-8-8-BK	8.0	203.2	1.00	25.4	0.50	12.7	10
RKWE-8-11-BK	11.0	279.4	1.00	25.4	0.50	12.7	10
RKWE-12-15-BK	12.0	304.8	1.50	38.1	0.75	19.1	10

RKWDM Series
Hook and Loop Cinch Straps with Metal Buckle

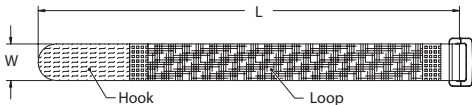


Specifications:

- Material: Nylon Woven Hook and Loop
Buckle: Metal
- Color: Black

Features:

- Metal buckle for heavy duty industrial applications



Item No.	L		W		Ø Approximate Bundle w/ Hook Fully Engaged		Bulk Pack Qty
	in	mm	in	mm	in	mm	
RKWDM-16-15-BK	15.0	381.0	1.00	25.4	3.750	95.0	10
RKWDM-16-20-BK	20.0	508.0	1.00	25.4	5.500	140.0	10
RKWDM-16-22-BK	22.0	559.0	1.00	25.4	5.938	151.0	10
RKWDM-16-24-BK	24.0	610.0	1.00	25.4	6.625	168.0	10
RKWDM-32-15-BK	15.0	381.0	2.00	51.0	3.750	95.0	10
RKWDM-32-20-BK	20.0	508.0	2.00	51.0	5.500	140.0	10
RKWDM-32-22-BK	22.0	559.0	2.00	51.0	6.000	152.0	10
RKWDM-32-24-BK	24.0	610.0	2.00	51.0	6.625	168.0	10

HOOK AND LOOP CINCH STRAPS

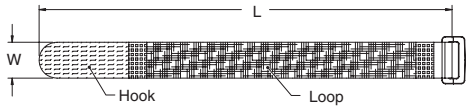
RKWD Series
Hook and Loop Cinch Straps

Specifications:

- Material: Nylon Woven Hook and Loop
- Buckle: Nylon
- Color: See Table

Features:

- Heavy duty hook and loop
- Buckle on the tie acts as a pulley providing leverage to pull the strap as tightly as needed
- The strap section goes through the buckle, the remainder of the material gets pulled around the buckle and can then be attached to the same side of the material
- The non-metallic buckle is safe to use around electrical and magnetic applications



Item No.		L		W		Ø Approximate Bundle w/ Hook Fully Engaged		Bulk Pack Qty
Black	Orange	in	mm	in	mm	in	mm	
RKWD-12-12-BK	—	12.0	305	0.75	19.1	2.875	73	10
RKWD-12-18-BK	—	18.0	457	0.75	19.1	4.750	121	10
RKWD-16-9-BK	RKWD-16-9-OR	9.0	229	1.00	25.4	1.875	48	10
RKWD-16-12-BK	RKWD-16-12-OR	12.0	305	1.00	25.4	2.875	73	10
RKWD-16-15-BK	RKWD-16-15-OR	15.0	381	1.00	25.4	3.750	95	10
RKWD-16-20-BK	RKWD-16-20-OR	20.0	508	1.00	25.4	5.500	140	10
RKWD-16-24-BK	RKWD-16-24-OR	24.0	609	1.00	25.4	6.625	168	10

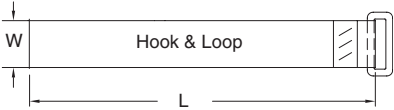
RKWDA Series
Extra Long/Cut to Length Cinch Straps

Specifications:

- Material: Hook and Loop: Nylon Woven
- Buckle: Nylon
- Color: Black

Features:

- Unique cut-to-length design eliminates the need to predetermine exact strap length
- Adheres to itself along its entire length



Item No.	L		W		Ø Bundle w/ Hook Fully Engaged		Bulk Pack Qty
	in	mm	in	mm	in	mm	
RKWDA-16-20-BK	20.0	508	1.00	25.4	5.500	140	10
RKWDA-16-24-BK	24.0	609	1.00	25.4	6.325	168	10
RKWDA-16-36-BK	36.0	914	1.00	25.4	10.500	267	10
RKWDA-16-48-BK	48.0	1219	1.00	25.4	14.375	365	10
RKWDA-32-20-BK	20.0	508	2.00	50.8	5.500	140	10
RKWDA-32-24-BK	24.0	610	2.00	50.8	6.628	169	10
RKWDA-32-36-BK	36.0	914	2.00	50.8	10.500	267	10
RKWDA-32-48-BK	48.0	1219	2.00	50.8	14.375	365	10

RKWDG/RKWDE Series
Hook and Loop Cinch Straps with Grommet

Specifications:

- Material: Nylon Woven Hook and Loop
- Buckle: Nylon
- Grommet: Brass
- Color: Black

Features:

- Grommet for mounting to walls, racks and mobile carts to organize and neatly route cables
- RKWDG centers bundle over mounting point
- RKWDE offsets bundle from mounting point
- Takes the stress off horizontal cable runs

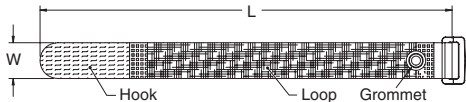


Figure 1

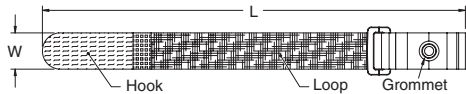


Figure 2

Item No.	Figure	L		W		Ø Approximate Bundle w/ Hook Fully Engaged		Grommet Ø Ref.		Bulk Pack Qty
		in	mm	in	mm	in	mm	in	mm	
RKWDG-16-9-BK	1	9.0	229	1.00	25.4	1.875	48	0.250	6.4	10
RKWDE-16-9-BK	2	9.0	229	1.00	25.4	1.875	48	0.250	6.4	10
RKWDG-12-12-BK	1	12.0	305	0.75	19.1	2.875	73	0.250	6.4	10
RKWDE-12-12-BK	2	10.5	267	0.75	19.1	2.375	60	0.250	6.4	10
RKWDG-16-12-BK	1	12.0	305	1.00	25.4	2.875	73	0.250	6.4	10
RKWDE-16-12-BK	2	12.0	305	1.00	25.4	2.875	73	0.250	6.4	10
RKWDG-16-15-BK	1	15.0	381	1.00	25.4	3.750	95	0.250	6.4	10
RKWDE-16-15-BK	2	15.0	381	1.00	25.4	3.750	95	0.250	6.4	10
RKWDG-12-18-BK	1	18.0	457	0.75	19.1	4.750	121	0.250	6.4	10
RKWDE-12-18-BK	2	16.5	419	0.75	19.1	4.250	108	0.250	6.4	10
RKWDG-16-20-BK	1	20.0	508	1.00	25.4	5.500	140	0.250	6.4	10
RKWDE-16-20-BK	2	20.0	508	1.00	25.4	5.500	140	0.250	6.4	10
RKWDG-16-24-BK	1	24.0	609	1.00	25.4	6.625	168	0.250	6.4	10
RKWDE-16-24-BK	2	24.0	609	1.00	25.4	6.625	168	0.250	6.4	10

HOOK AND LOOP ROLLS

RKWR Series
Hook and Loop Rolls

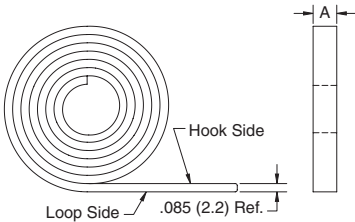


Specifications:

- Material: Hook: Low-Density Polyethylene
Loop: Nylon Knit
- Color: See Table

Features:

- This product features VELCRO® brand Hook and Loop material
- User can cut to desired length
- Available in two lengths; 5 yards and 25 yards



Item No.				A		Roll Length	Pack Qty
Black	Blue	Gray	Red	in	mm		
RKWR-3-BK	RKWR-3-BL	RKWR-3-GY	RKWR-3-RD	0.50	12.7	5 Yards	1
RKWR-1-BK	RKWR-1-BL	RKWR-1-GY	RKWR-1-RD	0.75	19.1	5 Yards	1
RKWR-2-BK	RKWR-2-BL	RKWR-2-GY	RKWR-2-RD	1.00	25.4	5 Yards	1
RKWR-3L-BK	RKWR-3L-BL	RKWR-3L-GY	RKWR-3L-RD	0.50	12.7	25 Yards	1
RKWR-1L-BK	RKWR-1L-BL	RKWR-1L-GY	RKWR-1L-RD	0.75	19.1	25 Yards	1
RKWR-2L-BK	RKWR-2L-BL	RKWR-2L-GY	RKWR-2L-RD	1.00	25.4	25 Yards	1

RKWRE Series
Economy Hook and Loop Rolls

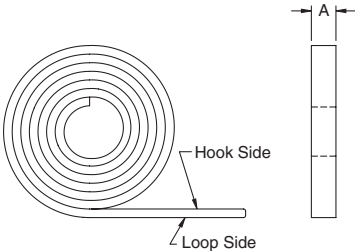


Specifications:

- Material: Hook: Low-Density Polyethylene
Loop: Nylon Knit
- Color: Black

Features:

- This product features VELCRO® brand hook and loop material
- Similar in function and purpose to the RKWR series of rolls, these economy rolls are made from a lower-profile, economical material
- User can cut to desired length



Item No.	A		Roll Length	Pack Qty
	in	mm		
RKWRE-3L	0.50	12.7	25 Yards	1
RKWRE-1L	0.75	19.1	25 Yards	1

RKWRPR Series
Plenum Rated Hook and Loop Rolls

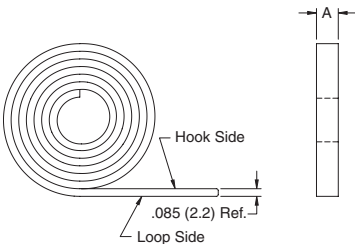


Specifications:

- Material: Hook: UL94 V-2 Black Polypropylene
Loop: UL94 V-2 Maroon Nylon
- Color: Maroon

Features:

- This product features VELCRO® brand hook and loop material
- Meets UL94 V-2 requirements. UL E143339
- Accepted as a wire positioning device (16SA) in air handling spaces in accordance with section 300-22 paragraph (C) and (D) of the National Electrical Code
- User can cut to desired length



Item No.	A		Roll Length	Pack Qty
	in	mm		
RKWRPR-3	0.50	12.7	5 Yards	1
RKWRPR-1	0.75	19.1	5 Yards	1
RKWRPR-2	1.00	25.4	5 Yards	1
RKWRPR-3L	0.50	12.7	25 Yards	1
RKWRPR-1L	0.75	19.1	25 Yards	1
RKWRPR-2L	1.00	25.4	25 Yards	1

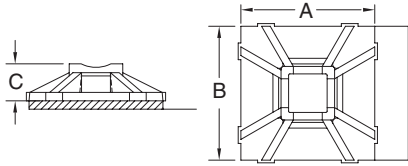
CABLE TIE MOUNTS

MFTH Series
Mini Cable Tie Mounts with Adhesive Base



Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural



Features:

- Cable ties can be inserted from all four sides
- Acrylic adhesive is a general purpose adhesive and gains strength with dwell time
- Rubber adhesive develops its strength extremely fast



1/2" x 1/2"

Item No.		Used w/ Cable Ties	Approval	Adhesive	A		B		C	
1000/Bag	100/Bag				in	mm	in	mm	in	mm
MFTH-2-01A-RT-M	MFTH-2-01A-RT-C	18 lbs.		Acrylic	0.500	12.7	0.500	12.7	0.14	3.5
MFTH-2-01A1-M	MFTH-2-01A1-C	18 lbs.		Rubber	0.500	12.7	0.500	12.7	0.14	3.5

FTH-5/FTH-7/23TA Series
Four Way Cable Tie Mounts

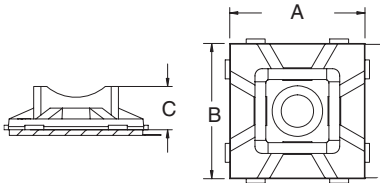
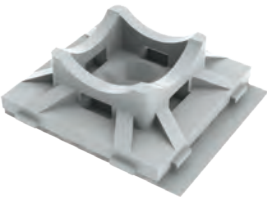


Figure 1

Specifications:

- Material: UL94 V-2 Nylon 6/6 (Black is UV Stabilized)
- Color: See Table

Features:

- Now available in high bond acrylic adhesive for demanding applications
- Cable ties can be inserted from all four sides
- May be secured with screws or adhesive
- Rubber adhesive develops its strength extremely fast
- Acrylic adhesive is a general purpose adhesive and gains strength with dwell time

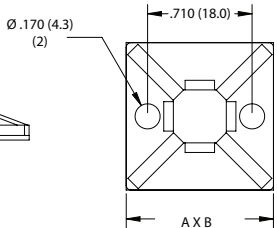
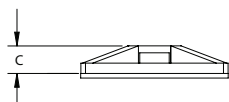
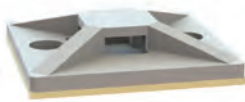


Figure 2

3/4" x 3/4"

Item No. Natural			Item No. Black		Approval	Fig.	Used w/ Cable Ties	Adhesive	Recommended Mounting Screw	A		B		C	
1000/Bag	100/Bag	10/Bag	1000/Bag	100/Bag						in	mm	in	mm	in	mm
FTH-5A-RT-M	FTH-5A-RT-C	—	FTH-5A-RT-UVB-M	FTH-5A-RT-UVB-C		1	18 & 40 lbs.	Acrylic	#6 and M3.5 Flat Head	0.750	19.1	0.750	19.1	0.240	6.1
FTH-5A1-RT-M	FTH-5A1-RT-C	—	—	—		1	18 & 40 lbs.	Rubber	#6 and M3.5 Flat Head	0.750	19.1	0.750	19.1	0.240	6.1
—	—	FTH-5-DHB	—	—	—	1	18 & 40 lbs.	High Bond Acrylic	#6 and M3.5 Flat Head	0.750	19.1	0.750	19.1	0.240	6.1
FTH-5-01-M	FTH-5-01-C	—	FTH-5-UVB-M	FTH-5-UVB-C		1	18 & 40 lbs.	Screw Mount	#6 and M3.5 Flat Head	0.750	19.1	0.750	19.1	0.240	6.1

1" x 1"

Item No. Natural			Item No. Black		Approval	Fig.	Used w/ Cable Ties	Adhesive	Recommended Mounting Screw	A		B		C	
1000/Bag	100/Bag	10/Bag	1000/Bag	100/Bag						in	mm	in	mm	in	mm
FTH-7A-RT-M	FTH-7A-RT-C	—	FTH-7A-RT-UVB-M	FTH-7A-RT-UVB-C		1	50 lbs.	Acrylic	#8 and M4 Flat Head	1.000	25.4	1.000	25.4	0.280	7.1
FTH-7A1-RT-M	FTH-7A1-RT-C	—	—	—		1	50 lbs.	Rubber	#8 and M4 Flat Head	1.000	25.4	1.000	25.4	0.280	7.1
—	—	FTH-7-DHB	—	—	—	1	50 lbs.	High Bond Acrylic	#8 and M4 Flat Head	1.000	25.4	1.000	25.4	0.280	7.1
FTH-7-01-M	FTH-7-01-C	—	FTH-7-UVB-M	FTH-7-UVB-C		1	50 lbs.	Screw Mount	#8 and M4 Flat Head	1.000	25.4	1.000	25.4	0.280	7.1
23TA00400	—	—	23TA00400B	—	—	2	50 lbs.	Acrylic	#8 and M4 Flat Head	1.000	25.4	1.000	25.4	0.188	4.8
23TA00420	—	—	23TA00420B	—	—	2	50 lbs.	Screw Mount	#8 and M4 Flat Head	1.000	25.4	1.000	25.4	0.188	4.8

CABLE TIE MOUNTS

FTH-8/FTH-10 Series
Four Way Cable Tie Mounts

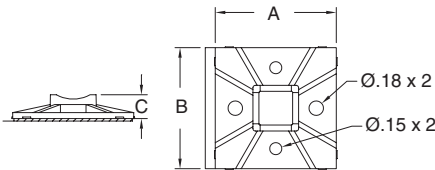
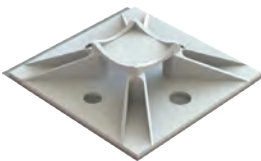


Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:

- Cable ties can be inserted from all four sides
- May be secured with screws or adhesive
- Acrylic adhesive is a general purpose adhesive and gains strength with dwell time
- Low profile for tight spaces



1-1/2" x 1-1/2"

Item No.		Used with Cable Ties	Approval	Adhesive	Recommended Mounting Screw	A		B		C	
1000/Bag	100/Bag					in	mm	in	mm	in	mm
FTH-8A-RT-M	FTH-8A-RT-C	50 & 120 lbs.	UL	Acrylic	2 x #6, #8 or M4	1.500	38.1	1.500	38.1	0.30	7.6

2" x 2"

Item No.		Used with Cable Ties	Approval	Adhesive	Recommended Mounting Screw	A		B		C	
1000/Bag	100/Bag					in	mm	in	mm	in	mm
FTH-10A-RT-M	FTH-10A-RT-C	50 & 120 lbs.	UL	Acrylic	2 x #6, #8 or M4	2.000	50.8	2.00	50.8	0.30	7.6

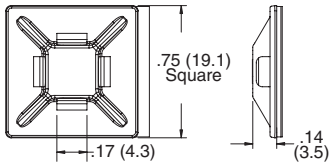
FTH-40 Series
Low Profile Cable Tie Mounts with Adhesive

Specifications:

- Material: UL94 HB ABS
- Color: White

Features:

- Cable ties can be inserted from all four sides
- Acrylic adhesive is a general purpose adhesive and gains strength with dwell time
- Rubber adhesive develops its strength extremely fast
- Low profile for tight spaces



3/4" x 3/4"

Item No.	Used w/ Cable Ties	Adhesive	Bulk Pack Qty
FTH-40	18 & 40 lbs.	None	1000
FTH-40A-RT	18 & 40 lbs.	Acrylic	1000
FTH-40A1-RT	18 & 40 lbs.	Rubber	1000

* Dimensions will vary slightly

FTH-4 Series
Cable Tie Mounts with Swivel

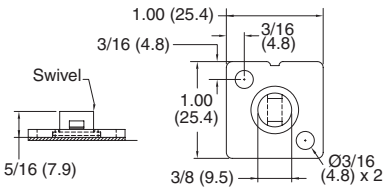
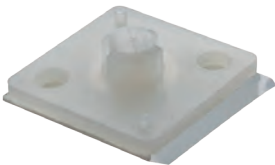


Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:

- Unique swivel head allows 360° rotation of the mounted bundle



Part Number	Used w/ Cable Ties	Approval	Recommended Mounting Screw	Bulk Pack Qty
FTH-4A-RT-M	18 & 40 lbs.	UL	#8 or M4	1000

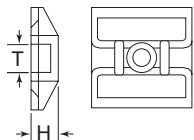
TMA Series
Cable Tie Mount

Specifications:

- Material: UL 94 V-2 Nylon 6/6
- Color: Natural

Features:

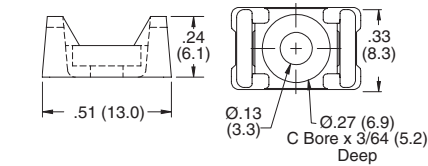
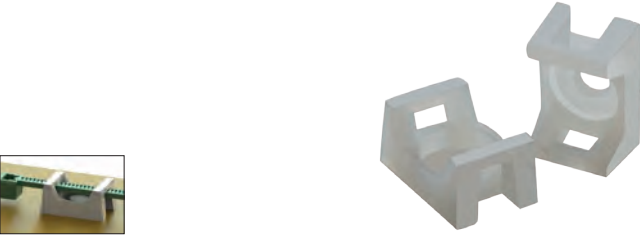
- Supplies lightweight support to wire bundles with adhesive backing
- Apply to clean, smooth, grease-free surface



Item No.	Length		Width		Height		Mounting Hole Ø		Slot Width T		Use With Cable Tie Classification	Bulk Pack Qty
	in	mm	in	mm	in	mm	in	mm	in	mm		
TMA005A	1.102	28.00	1.102	28.00	0.157	4.00	0.197	5.00	0.197	5.00	Miniature, Intermediate, Standard	100

CABLE TIE MOUNTS

FTH-28RS Series
Rivet/Screw Mount Cable Tie Mounts



Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:

- Mounts with a screw or snap rivet (see rivet table)
- Cradle design provides stability for the bundle

Mounting Rivets for FTH-28RS		
Panel Thickness		Use Rivet Item No.
In	mm	
Up to 0.034	Up to 0.9	SR-3035
0.034 - 0.073	Up to 0.9	SR-3045
0.073 - 0.113	1.9 - 2.9	SR-3055
0.113 - 0.152	2.9 - 3.9	SR-3065
0.152 - 0.191	3.9 - 4.9	SR-3075
0.172 - 0.211	4.4 - 5.4	SR-3080
0.211 - 0.250	5.4 - 6.4	SR-3090
0.250 - 0.290	6.4 - 7.4	SR-3100

Item No.	Used w/ Cable Ties	Recommended Mounting Screw	Pack Qty
FTH-28RS-01	18 & 40 lbs.	#4, M3 Screw, SR-3XXX (See Table)	1000



FTH-13/FTH-14 Series
Rivet/Screw Mount Cable Tie Mounts

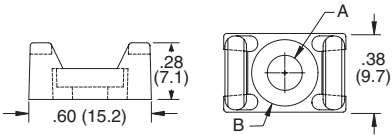


Figure 1

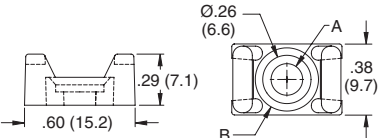


Figure 2

Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:

- Mounts with screw or snap rivet (see rivet table)
- Cradle design provides stability for the bundle
- See rivets at www.essentracomponents.com

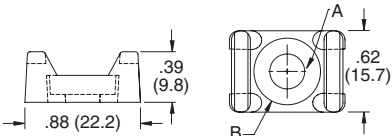


Figure 3

Item No.	Used w/ Cable Ties	Recommended Mounting Screw	Pack Qty
FTH-13R-01-M	18 - 50 lbs.	#4, M3 Screw, SR-3XXX (See Table)	1000
FTH-13S-01-M	18 - 120 lbs.	#4, M3 Screw, SR-3XXX (See Table)	1000
FTH-14R-01-M	18 - 120 lbs.	#4, M3 Screw, SR-3XXX (See Table)	1000
FTH-14S-01-M	18 - 120 lbs.	#4, M3 Screw, SR-3XXX (See Table)	1000

Mounting Rivets for Figure 1		
Panel Thickness		Use Rivet Part Number
In	mm	
0.018 - 0.058	0.5 - 1.5	SR-4050
0.058 - 0.097	1.5 - 2.5	SR-4060
0.097 - 0.137	2.5 - 3.5	SR-4070
0.137 - 0.176	3.5 - 4.5	SR-4080
0.215 - 0.255	5.5 - 6.5	SR-4100

Mounting Rivets for Figure 3		
Panel Thickness		Use Rivet Part Number
In	mm	
0.020 - 0.048	0.5 - 1.2	SR-5055
0.048 - 0.087	1.2 - 2.2	SR-5065
0.087 - 0.127	2.2 - 3.2	SR-5075
0.127 - 0.166	3.2 - 4.2	SR-5085
0.166 - 0.205	4.2 - 5.2	SR-5095
0.205 - 0.245	5.2 - 6.2	SR-5105

CABLE TIE MOUNTS

FTH-34/FTH-35 Series
Screw Mount Cable Tie Mounts

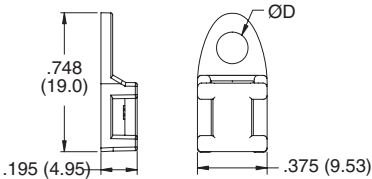


Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:

- Cable ties can be inserted from all four sides
- Small size allows for use where space is limited



Item No.	Ø Hole D		Used with Cable Ties	Accepts Screw Size	Bulk Pack Qty
	in	mm			
FTH-34-01	0.170	4.3	18 - 50 lbs.	#8 or M4	1000
FTH-35-01	0.200	5.1	18 - 50 lbs.	#10 or M5	1000

23TA Series
Cable Tie Mounts

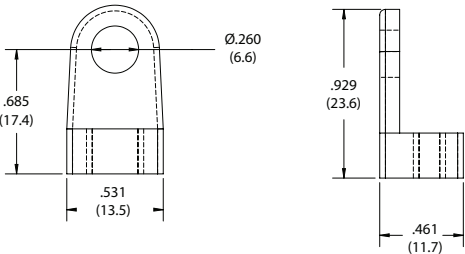


Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:

- Secures easily with a mounting screw
- Resists corrosion, vibration and abrasion



Item No.	Ø Hole		Used with Cable Ties	Accepts Screw Size	Bulk Pack Qty
	in	mm			
23TA40260	0.260	6.6	120 lbs.	1/4	1000

FTH-1/FTH-11/23TA Series
Low Profile Screw Mount Cable Tie Mounts

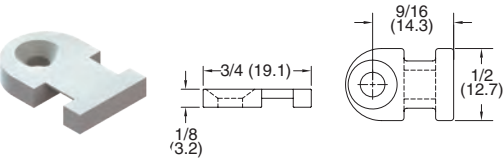


Figure 1

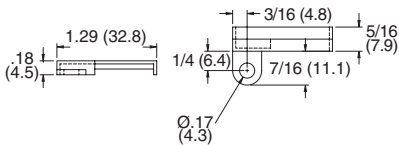


Figure 2

Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:

- Mounts with a #8 or M4 screw
- Low profile for limited space
- FTH-11-8-01 secures bundle length with multiple cable ties

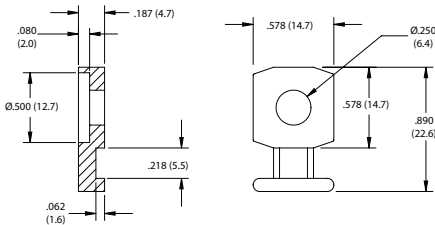
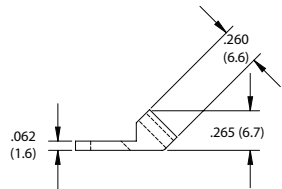
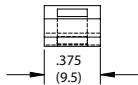
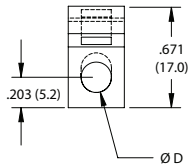
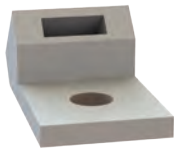


Figure 3

Item No.	Approval	Figure	Used w/ Cable Ties	Accepts Screw Size	Bulk Pack Qty
FTH-1-01-M		1	18 - 50 lbs.	#8 or M4	1000
FTH-11-8-01		2	18 - 50 lbs.	#8 or M4	100
23TA00250	—	3	18 - 50 lbs.	1/4-20	1000

CABLE TIE MOUNTS

23TA Series
Screw Mount Cable Tie Mounts

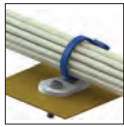
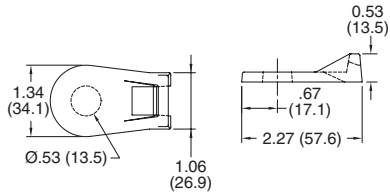
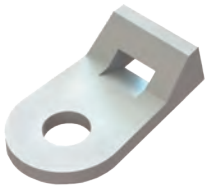


- Specifications:
- Material: UL94 V-2 Nylon 6/6
 - Color: Natural

- Features:
- Compact design is ideal for applications where space is limited
 - Resists corrosion, vibration and abrasion

Item No.	Ø D		Used w/ Cable Ties	Accepts Screw Size		Bulk Pack Qty
	in	mm		Imperial	Metric	
23TA207128	0.128	3.3	50 lbs.	#4	M3	1000
23TA207140	0.140	3.6	50 lbs.	#6	M3.5	1000
23TA207167	0.167	4.2	50 lbs.	#8	M4	1000
23TA207203	0.203	5.2	50 lbs.	#10	M5	1000

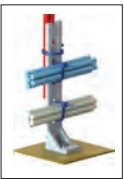
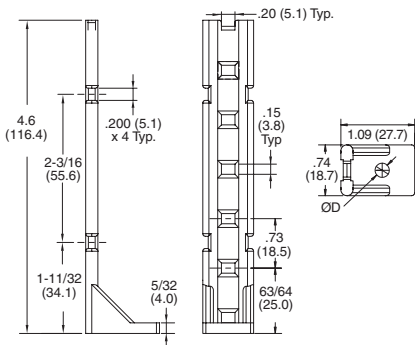
FTH-17 Series
Heavy Duty Screw Mount Cable Tie Mounts



- Specifications:
- Material: UL94 V-2 Nylon 6/6
 - Color: Natural
- Features:
- Can be used with ties up to 250 lbs.
 - Low profile for tight spaces

Item No.	Accepts Screw Size	Used w/ Cable Ties	Bulk Pack Qty
FTH-17-8-01	1/2 or M12	All Ties	100

FTH-24 Series
Screw Mount Wire Harness
Cable Tie Mounts



- Specifications:
- Material: UL94 V-2 Nylon 6/6
 - Color: Natural

- Features:
- Allows tying up multiple bundles of cables
 - Supports cable bundles above the surface

Item No.	Mounting Method	Approval	Ø D		Used w/ Cable Ties	Bulk Pack Qty
			in	mm		
FTH-24-01	#10 or M5 Screw	UL	0.21	5.2	18 - 50 lbs.	100
FTH-24-1-01	1/4 or M6 Screw	UL	0.25	6.4	18 - 50 lbs.	100

CABLE TIE MOUNTS

FTH Series
Snap In Cable Tie Mounts

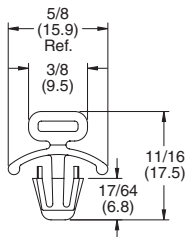


Figure 1

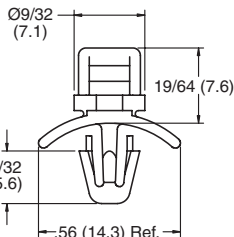


Figure 2

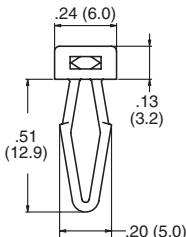


Figure 3

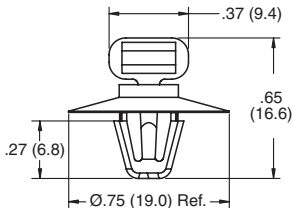


Figure 4

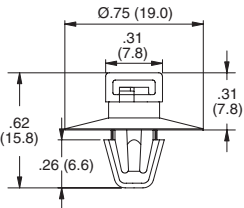


Figure 5

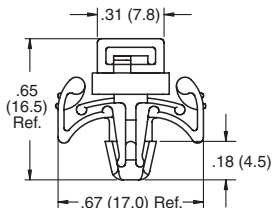


Figure 6

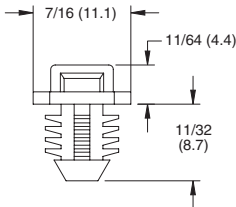


Figure 7

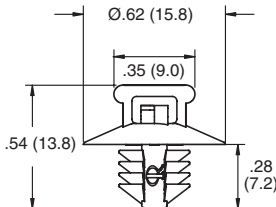


Figure 8

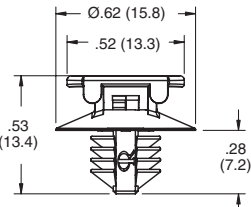


Figure 9

Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: See Table

Features:

- Requires no adhesive or other mounting hardware
- Can be used in applications where back of panel is not accessible
- Figures 5,6,8, and 9 have pressure-hold feature that holds cable tie inside the tie holder
- Figures 4,5,8, and 9 have a cupped base that provides stability and also covers the mounting hole

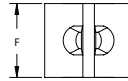
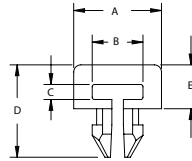
Item No.			Figure	Ø Mounting Hole		Panel Thickness		Used w/ Cable Ties	Bulk Pack Qty
Natural	Black	Approval		in	mm	in	mm		
FTH-6-01-M	—	RA	1	0.250	6.4	0.047 - 0.109	1.2 - 2.8	18 - 50 lbs.	1000
FTH-6-01-C	—	RA	1	0.250	6.4	0.047 - 0.109	1.2 - 2.8	18 - 50 lbs.	100
FTH-3-01-M	—	RA	2	0.187	4.8	0.031 - 0.078	0.8 - 2.0	18 - 50 lbs.	1000
FTH-3-01-C	—	RA	2	0.187	4.8	0.031 - 0.078	0.8 - 2.0	18 - 50 lbs.	100
FTH-39-1-01	—	—	3	0.126	3.2	0.039 - 0.177	1.0 - 4.5	18 lbs.	1000
FTH-29-01	—	—	4	0.250	6.4	0.062	1.6	18 - 50 lbs.	1000
FTH-33-01	—	—	5	0.250	6.4	0.062	1.6	40 - 50 lbs.	1000
FTH-41-01	—	—	6	0.187	4.8	0.020 - 0.090	0.5 - 2.3	18 - 50 lbs.	1000
FTH-15-01-M	—	RA	7	0.312	7.8	0.250	6.4	18 - 40 lbs.	1000
FTH-15-01-C	—	RA	7	0.312	7.8	0.250	6.4	18 - 40 lbs.	100
—	FTH-36-01BK	—	8	0.260 - 0.280	6.5 - 7.0	0.030 - 0.120	0.8 - 3.0	40 - 50 lbs.	1000
—	FTH-37-01BK	—	9	0.260 - 0.280	6.5 - 7.0	0.030 - 0.120	0.8 - 3.0	40 - 50 lbs.	1000

CABLE TIE MOUNTS

23TA Series
Push In Cable Tie Mounts

- Specifications:
- Material: UL94 V-2 Nylon 6/6
 - Color: See Table

- Features:
- Designed to securely connect a tie to a predrilled hole
 - Can be used when the back of the panel is inaccessible
 - No adhesive or mounting hardware needed

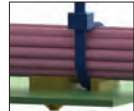
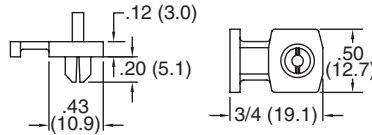


Item No.		Ø Mounting Hole		Panel Thickness		Used with Cable Ties	A		B		C		D		E		F		Bulk Pack Qty
Natural	Black	in	mm	in	mm		in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	
23TA00090	23TA00090B	0.187	4.8	0.062	1.6	18 lbs.	0.320	8.1	0.220	5.6	0.050	1.3	0.350	8.9	0.150	3.8	0.320	8.1	1000
23TA00100	23TA00100B	0.187	4.8	0.062	1.6	120 lbs.	0.380	9.7	0.220	5.6	0.065	1.7	0.400	10.2	0.190	4.8	0.320	8.1	1000
23TA00110	23TA00110B	0.250	6.4	0.062	1.6	120 lbs.	0.380	9.7	0.220	5.6	0.065	1.7	0.400	10.2	0.190	4.8	0.320	8.1	1000

FTH-22 Series
Rivet Mount Cable Tie Mounts

- Specifications:
- Material: UL94 V-2 Nylon 6/6
 - Color: Yellow

- Features:
- Rivet designed into part expands to lock the tie holder in place
 - Low profile design for where space is limited

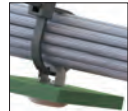
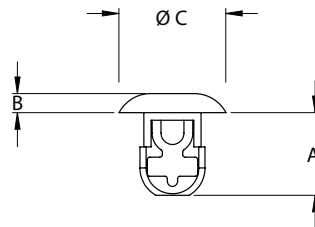


Item No.	Ø Mounting Hole		Panel Thickness		Used with Cable Ties	Bulk Pack Qty
	in	mm	in	mm		
FTH-22-01	0.196	5.0	0.030 - 0.125	0.8 - 3.2	18 - 50 lbs.	1000

FTH-9/23TA Series
Reverse Mount Cable Tie Mounts

- Specifications:
- Material: UL94 V-2 Nylon 6/6
 - Color: Natural

- Features:
- Snap locks into place from outside of the chassis
 - Low profile on the inside of the chassis
 - Both sides of the panel must be accessible

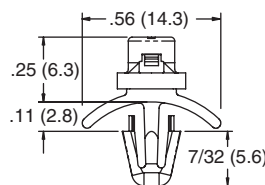


Item No.	Approval	Ø Mounting Hole		Max Panel Thickness		A		B		C		Accepts Cable Ties with Tensile lbs.	Bulk Pack Qty
		in	mm	in	mm	in	mm	in	mm	in	mm		
FTH-9-01-M		0.250	6.4	0.125	3.2	0.328	8.3	0.078	2.0	0.422	10.7	18 - 50	1000
FTH-9-01-C		0.250	6.4	0.125	3.2	0.328	8.3	0.078	2.0	0.422	10.7	18 - 50	100
23TA250188	—	0.250	6.4	0.188	4.8	0.390	9.9	0.080	2.0	0.425	10.8	18 - 50	1000

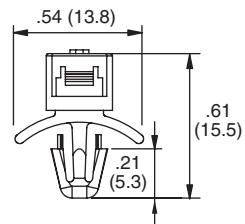
FTH-30 Series
Cable Tie Mounts with Cable Tie Head

- Specifications:
- Material: UL94 V-2 Nylon 6/6
 - Color: Natural

- Features:
- Cable tie head contained in the tie holder
 - Good for application in which a bundle is already wrapped
 - Simply insert the end of the cable tie for secure hold



FTH-30-01



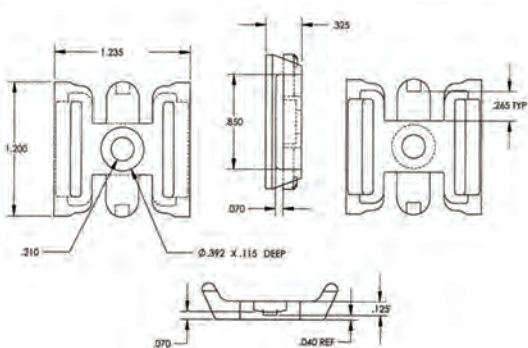
FTH-30-1-01



Item No.	Ø Mounting Hole		Panel Thickness		Accepts Cable Ties with Tensile lbs.	Bulk Pack Qty
	in	mm	in	mm		
FTH-30-01	0.187	4.8	0.031 - 0.078	0.8 - 2.0	18	1000
FTH-30-1-01	0.187	4.8	0.031 - 0.078	0.8 - 2.0	50	1000

CABLE TIE MOUNTS / EDGE CABLE TIE MOUNTS

23TAHL Series
Hook & Loop and Cable Tie Mounts

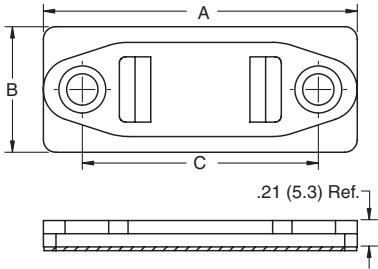


- Specifications:
- Material: UL94 V-2 Nylon 6/6
 - Color: Natural

- Features:
- Can be secured with a screw or rivet
 - Use with standard wire ties or hook and loop wire ties
 - Resists corrosion, vibration and abrasion

Item No.	Bulk Pack Qty
23TAHL110340	500

FTH-RKW Series
Hook and Loop Cable Tie Mounts



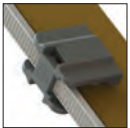
- Specifications:
- Material: Polyethylene
 - Color: Black

- Features:
- Mounts with adhesive or screws

See pages 57 - 58 for Hook and Loop Cable Ties.

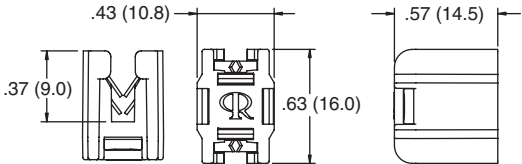
Item No.	Accepts Hook and Loop Up To Width		Mounting Method	A		B		C		Bulk Pack Qty
	in	mm		in	mm	in	mm	in	mm	
FTH-RKW-1	0.500	12.7	1/4" Screw	2.500	63.5	1.000	25.4	1.880	47.8	100
FTH-RKW-1A	0.500	12.7	Adhesive	2.500	63.5	1.000	25.4	1.880	47.8	100
FTH-RKW-2	1.000	25.4	1/4" Screw	3.250	82.6	1.500	38.1	2.620	66.5	100
FTH-RKW-2A	1.000	25.4	Adhesive	3.250	82.6	1.500	38.1	2.620	66.5	100

FTH-31 Series
Edge Mount Cable Tie Mounts



- Specifications:
- Material: UL94 V-2 Nylon 6/6 and 304 Stainless Steel
 - Color: Black

- Features:
- Push the tie holder onto the edge of panel to accept a cable tie and mount a cable bundle
 - Tie can be inserted from all four sides
 - Retention Force:
Steel Panel .03 (0.8) thick: 5 Lbs.
Steel Panel .12 (3) thick: 10 Lbs.
Plastic Panel .09-.12 (2.4-3) thick: 33 Lbs.



Item No.	Panel Thickness		Accepts Cable Ties w/ Tensile lbs.	Bulk Pack Qty
	in	mm		
FTH-31-01	0.03 - 0.12	0.8 - 3.0	40 - 50	1000

EDGE CABLE TIE MOUNTS / CABLE DUCT

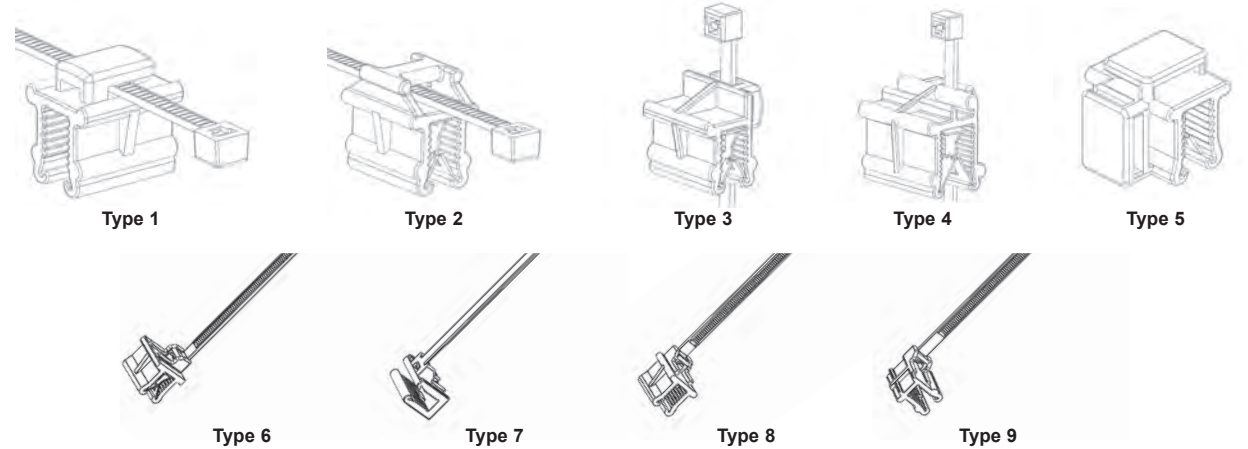
Edge Mount Cable Tie Mounts

Specifications:

- Material: UL94 V-2 Nylon 6/6 and 302 Stainless Steel
- Color: Black

Features:

- Push the tie holder onto the edge of panel to accept a cable tie and mount a cable bundle
- Retention of 45 lbs. based on a 0.078 panel thickness
- Available with or without a pre-installed cable tie



Item No.	Used w/ Cable Ties	Pre-Installed Cable Tie	Type	Panel Thickness		Width		Length		Height		Bulk Pack Qty
				in	mm	in	mm	in	mm	in	mm	
550243	Up to 50 Lbs.	—	1	0.028 - 0.118	0.7 - 3.0	0.472	12.0	0.591	15.0	0.622	15.8	100
550244	Up to 50 Lbs.	—	3	0.028 - 0.118	0.7 - 3.0	0.574	13.9	0.591	15.0	0.614	15.6	100
550245	Up to 50 Lbs.	—	2	0.028 - 0.118	0.7 - 3.0	0.472	12.0	0.591	15.0	0.614	15.6	100
550246	Up to 50 Lbs.	—	2	0.118 - 0.236	3.0 - 6.0	0.594	15.1	0.787	20.0	0.740	18.8	100
550247	Up to 50 Lbs.	—	3	0.028 - 0.118	0.7 - 3.0	0.547	13.9	0.591	15.0	0.614	15.6	100
550250	Up to 50 Lbs.	—	3	0.118 - 0.236	3.0 - 6.0	0.673	17.1	0.787	20.0	0.740	18.8	100
550251	Up to 50 Lbs.	—	5	0.028 - 0.118	0.7 - 3.0	0.594	15.1	0.591	15.0	0.594	15.1	100
550252	—	7.87 (200), 50 Lbs.	1	0.028 - 0.118	0.7 - 3.0	0.472	12.0	0.591	15.0	0.622	15.8	100
550253	—	7.87 (200), 50 Lbs.	3	0.028 - 0.118	0.7 - 3.0	0.574	13.9	0.591	15.0	0.614	15.6	100
550254	—	7.87 (200), 50 Lbs.	2	0.028 - 0.118	0.7 - 3.0	0.472	12.0	0.591	15.0	0.614	15.6	100
550255	—	7.87 (200), 50 Lbs.	2	0.118 - 0.236	3.0 - 6.0	0.594	15.1	0.787	20.0	0.740	18.8	100
550256	—	7.87 (200), 50 Lbs.	3	0.028 - 0.118	0.7 - 3.0	0.574	13.9	0.591	15.0	0.614	15.6	100
550277	—	5.51 (140), 40 Lbs.	6	0.028 - 0.118	0.7 - 3.0	0.591	15.0	0.787	20.0	6.575	167.0	100
550279	—	5.51 (140), 40 Lbs.	8	0.028 - 0.118	0.7 - 3.0	0.591	15.0	0.787	20.0	6.575	167.0	100
550280	—	5.51 (140), 40 Lbs.	9	0.028 - 0.118	0.7 - 3.0	0.591	15.0	0.787	20.0	6.575	167.0	100

RX Series Flexible Duct

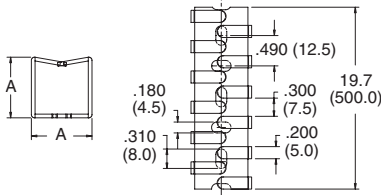


Specifications:

- Material: UL94 V-2 Polypropylene
- Color: Gray

Features:

- Flexible ribs allow the cables to be easily pushed and pulled into and out of channel
- Flexible base makes routing cables from the back and sides of control panels to components mounted on panel doors easy



Item No.		External A x A		Internal A x A		Length		Bulk Pack Qty
w/o Adhesive	w/ Adhesive	in	mm	in	mm	in	mm	
RX1313-0	RX1313-4	0.49 x 0.49	12.5 x 12.5	0.171	110.0	19.7	500.0	112
RX1616-0	RX1616-4	0.63 x 0.63	16.0 x 16.0	0.287	185.0	19.7	500.0	84
RX2020-0	RX2020-4	0.79 x 0.79	20.0 x 20.0	0.496	320.0	19.7	500.0	112
RX2525-0	RX2525-4	0.98 x 0.98	25.0 x 25.0	0.775	500.0	19.7	500.0	70
RX3030-0	RX3030-4	1.18 x 1.18	30.0 x 30.0	1.116	720.0	19.7	500.0	50
RX4040-0	RX4040-4	1.57 x 1.57	40.0 x 40.0	2.046	1320.0	19.7	500.0	50
RX5050-0	RX5050-4	1.97 x 1.99	50.0 x 50.0	3.162	2040.0	19.7	500.0	32

CABLE DUCT

SRWD Series
Slotted Wire Duct

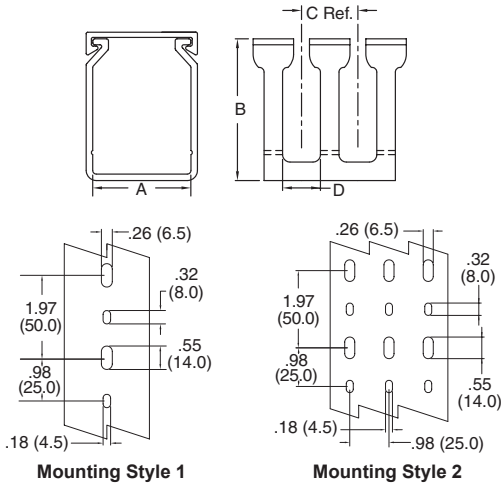


Specifications:

- Material: PVC
- Color: Gray

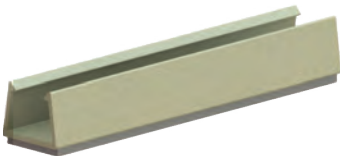
Features:

- Lid is supplied with the base
- Fingers are scored for easy break off
- Used for general purpose control panel wiring and to route and protect wiring in communication closets
- Holds breakout wires while providing flexibility for adding or removing wires
- Sold in 6-1/2 foot lengths



Item No.	Approval	A		B		C		D		Mounting Style	Length		In Pack	Pack Qty
		in	mm	in	mm	in	mm	in	mm		ft	m		
SRWD-1015	UL	1.000	25.4	1.500	38.1	0.79	20.0	0.31	8.0	1	6.5	2.0	78 ft	1
SRWD-1515	UL	1.500	38.1	1.500	38.1	0.79	20.0	0.31	8.0	1	6.5	2.0	78 ft	1
SRWD-1520	UL	1.500	38.1	2.000	50.8	0.79	20.0	0.31	8.0	1	6.5	2.0	52 ft	1
SRWDN1-1530	UL	1.500	38.1	3.000	76.2	0.39	10.0	0.16	4.0	1	6.5	2.0	78 ft	1
SRWD-2020	UL	2.000	50.8	2.000	50.8	0.79	20.0	0.31	8.0	1	6.5	2.0	52 ft	1
SRWDN1-2030	UL	2.000	50.8	3.000	76.2	0.39	10.0	0.16	4.0	1	6.5	2.0	78 ft	1
SRWD-4020	UL	4.000	101.6	2.000	50.8	0.79	20.0	0.31	8.0	2	6.5	2.0	26 ft	1

SCD Series
Single Cable Duct

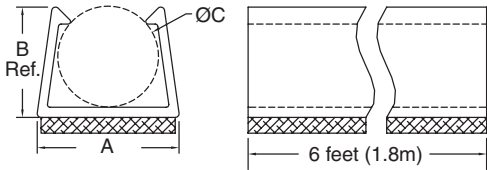


Specifications:

- Material: UL94 V-0 PVC
- Color: Tan

Features:

- Designed to route single coax or computer cable
- Supplied in 6 foot lengths
- Adhesive base for easy mounting



Item No.	C Holding Ø		A		B Ref.		Cable Recommendations	Length		In Pack	Pack Qty
	in	mm	in	mm	in	mm		ft	m		
SCD-1521	0.156 - 0.218	4.0 - 5.5	0.30	7.6	0.25	6.4	RG58	6	1.8	60 ft	1
SCD-2228	0.218 - 0.280	5.5 - 7.1	0.36	9.1	0.29	6.6	RG59, RG62, RG6, 9 Line	6	1.8	60 ft	1

SRL Series
Locking Duct on Adhesive Base

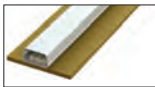
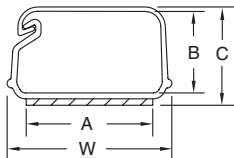


Specifications:

- Material: UL94 V-0 PVC
- Color: White

Features:

- Adhesive base for fast, easy installation
- When lid is shut the cables are locked into place
- Lightweight and aesthetically pleasing



Item No.	A		B		W		C Ref.		Length		In Pack	Pack Qty
	in	mm	in	mm	in	mm	in	mm	ft	m		
SRL1-3-WH6A	0.625	15.9	0.40	10.2	0.81	20.7	0.49	12.3	6	1.8	72 ft	1
SRL1-5-WH6A	0.750	19.1	0.58	14.7	0.99	25.1	0.67	8.5	6	1.8	72 ft	1
SRL1-10-WH6A	1.125	28.6	0.82	20.8	1.52	38.3	0.95	24.1	6	1.8	72 ft	1

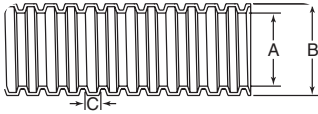
CF Series
Unsplit Polyethylene Conduit

Specifications:

- Material: High-Density Polyethylene
- Color: Gray
- Temperature Range: -40°F to 200°F (-40°C to 93°C)

Features:

- Wire and cable protection for electrical harnesses
- Can also be used to protect hydraulic hoses
- Flexible body allows for easy corner/elbow wiring



Item No.	Ø Nominal	A		B		C		Roll Length	
	in	in	mm	in	mm	in	mm	ft	m
CF010A	1-1/8	1.130	28.70	1.339	34.01	0.124	3.14	164	50
CF011A	1-1/4	1.228	31.19	1.575	40.01	0.162	4.12	164	50

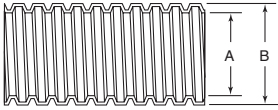
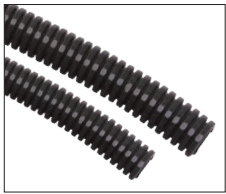
CF Series
Unsplit Nylon Conduit

Specifications:

- Material: UL-94 HB Nylon
- Color: Black with Gray Stripe
- Temperature Range: -40°F to 300°F (-40°C to 149°C)

Features:

- Wire and cable protection for electrical harnesses
- Can also be used to protect hydraulic hoses
- Flexible body allows for easy corner/elbow wiring



Item No.	Ø Nominal	A Min		A Max		B Min		B Max		Wall Thickness		Roll Length	
	in	in	mm	in	mm	in	mm	in	mm	in	mm	ft	m
CF1010A	1/4	0.237	6.02	0.266	6.76	0.375	9.53	0.400	10.16	0.040	1.02	2500	762
CF1020A	3/8	0.341	8.66	0.380	9.65	0.497	12.62	0.526	13.36	0.040	1.02	1500	457.2
CF1060A	1/2	0.473	12.01	0.516	13.11	0.664	16.87	0.700	17.78	0.050	1.27	1000	304.8
CF1080A	5/8	0.603	15.32	0.639	16.23	0.805	20.45	0.837	21.26	0.050	1.27	700	213.4
CF1090A	3/4	0.707	17.96	0.759	19.28	0.950	24.13	0.989	25.12	0.050	1.27	450	137.2
900081	7/8	0.848	21.54	0.898	22.81	1.107	28.12	1.151	29.24	0.050	1.27	400	121.9
CF1140B*	1	1.020	25.91	1.069	27.16	1.251	31.78	1.304	33.13	0.060	1.52	250	76.2
CF1150A	1-1/8	1.122	28.50	1.176	29.86	1.356	34.58	1.413	35.88	0.060	1.52	200	60.9
900082	1-1/4	1.199	30.45	1.257	31.93	1.446	36.73	1.500	38.10	0.060	1.52	200	60.9

*No gray stripe.

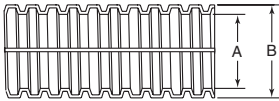
CS/22SL Series
Split Polypropylene Conduit

Specifications:

- Material: Polypropylene
- Color: Black
- Temperature Range: -40°F to 225°F (-40°C to 107°C)

Features:

- Split design for easy installation and removal of wiring
- Wire and cable protection for electrical harnesses
- Flexible body allows for corner/elbow wiring
- Can be used to protect hydraulic hoses
- C22SL is available in Payout Boxes, by the Mini Gaylord or by the Gaylord



Item No.	Nominal Ø	A		B		Roll Length	
	in	in	mm	in	mm	ft	m
22SL0250PP	0.250	0.266	6.80	0.395	10.00	100.00	30.48
22SL0375PP	0.375	0.419	10.60	0.535	13.60	100.00	30.48
CS002A	0.438	0.421	10.69	0.630	16.00	656.00	200.00
22SL0500PP	0.500	0.505	12.80	0.670	17.00	100.00	30.48
22SL0625PP	0.625	0.650	16.50	0.825	21.00	100.00	30.48
CS005A	0.750	0.760	19.30	0.937	23.80	328.00	100.00
22SL0750PP	0.750	0.761	19.30	0.927	23.60	100.00	30.48
CS006A	0.875	0.835	21.21	1.016	25.81	328.00	100.00
22SL1000PP	1.000	0.909	23.10	1.033	26.20	100.00	30.48
CS008A	1.000	0.984	24.99	1.181	30.00	164.00	50.00
CS009A	1.125	1.102	27.99	1.339	34.01	164.00	50.00
CS010A	1.250	1.228	31.19	1.575	40.01	164.00	50.00
CS011A	1.625	1.559	39.59	1.969	50.00	164.00	50.00

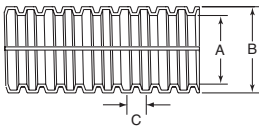
FLEXIBLE CONDUIT & WRAPS

CS/22SL (Nylon) Series
Split Nylon Conduit

- Specifications:
- Material: Nylon
 - Color: Black with Gray Stripe
 - Temperature Range: -40°F to 300°F (-40°C to 149°C)
 - Flame Rating: See Table



- Features:
- Split design for easy installation and removal of wiring
 - Cable protection for electrical wiring harnesses
 - Flexible body allows for corner/elbow wiring
 - Can be used to protect hydraulic hoses
 - Split design for easy installation
 - 22SL is available in Payout Boxes, by the Mini Gaylord or by the Gaylord



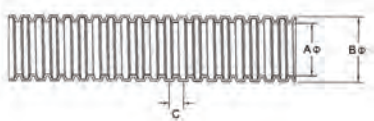
Item No.	Nominal Ø	A Min		A Max		B Min		B Max		C		Roll Length		Flame Rating
		in	mm	in	mm	in	mm	in	mm	in	mm	ft	m	
22SL0250NYGY	0.250	—	—	0.266	6.80	—	—	0.395	10.00	0.120	3.05	100.00	30.48	—
CS1020A	0.375	0.341	8.66	0.380	9.65	0.497	12.62	0.526	13.36	—	—	1900.00	579.10	UL94 HB
22SL0375NYGY	0.375	—	—	0.419	10.60	—	—	0.535	13.60	0.128	3.25	100.00	30.48	—
CS1040A	0.438	0.399	10.13	0.437	11.10	0.573	14.55	0.597	15.16	—	—	1500.00	457.20	UL94 HB
CS1060A	0.500	0.473	12.01	0.516	13.11	0.664	16.87	0.700	17.78	—	—	1100.00	335.30	UL94 HB
22SL0500NYGY	0.500	—	—	0.505	12.80	—	—	0.670	17.00	0.143	3.63	100.00	30.48	—
22SL0625NYGY	0.625	—	—	0.650	16.50	—	—	0.825	21.00	0.145	3.68	100.00	30.48	—
CS1090A	0.750	0.707	17.96	0.759	19.28	0.950	24.13	0.989	25.12	—	—	550.00	164.60	UL94 HB
22SL0750NYGY	0.750	—	—	0.761	19.30	—	—	0.927	23.60	0.144	3.66	100.00	30.48	—
22SL1000NYGY	1.000	—	—	0.909	23.10	—	—	1.033	26.20	0.172	4.37	100.00	30.48	—

22SL Series
Split Loom Black Polyethylene

- Specifications:
- Material: Polyethylene
 - Color: Black



- Features:
- Easy, quick installation that offers the best in wire and harness protection
 - Accommodates any manufacturing application
 - Great for use around the house to organize cords and wires, giving them a neat and attractive look
 - Resists corrosion
 - Available in Payout Boxes, by the Mini Gaylord or by the Gaylord
 - Other colors are available upon request



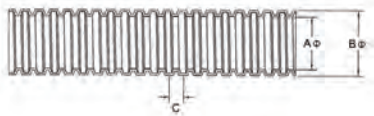
Item No.	Nominal Ø	A		B		C		Roll Length	
		in	mm	in	mm	in	mm	ft	m
22SL0250PE	0.250	0.266	6.80	0.395	10.00	0.120	3.05	100.00	30.48
22SL0375PE	0.375	0.419	10.60	0.535	13.60	0.128	3.25	100.00	30.48
22SL0500PE	0.500	0.505	12.80	0.670	17.00	0.143	3.63	100.00	30.48
22SL0625PE	0.625	0.650	16.50	0.825	21.00	0.145	3.68	100.00	30.48
22SL0750PE	0.750	0.761	19.30	0.927	23.60	0.144	3.66	100.00	30.48
22SL1000PE	1.000	0.909	23.10	1.033	26.20	0.172	4.37	100.00	30.48

22SL Series
Split Loom Black Polypropylene Flame Retardant

- Specifications:
- Material: Polypropylene Flame Retardant
 - Color: Black



- Features:
- Easy, quick installation that offers the best in wire and harness protection
 - Accommodates any manufacturing application
 - Great for use around the house to organize cords and wires, giving them a neat and attractive look
 - Resists corrosion
 - Available in Payout Boxes, by the Mini Gaylord or by the Gaylord

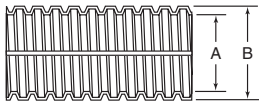


Item No.	Nominal Ø	A		B		C		Roll Length	
		in	mm	in	mm	in	mm	ft	m
22SL0250FRPPBL	0.250	0.266	6.80	0.395	10.00	0.120	3.05	100.00	30.48
22SL0375FRPPBL	0.375	0.419	10.60	0.535	13.60	0.128	3.25	100.00	30.48
22SL0500FRPPBL	0.500	0.505	12.80	0.670	17.00	0.143	3.63	100.00	30.48
22SL0625FRPPBL	0.625	0.650	16.50	0.825	21.00	0.145	3.68	100.00	30.48
22SL0750FRPPBL	0.750	0.761	19.30	0.927	23.60	0.144	3.66	100.00	30.48
22SL1000FRPPBL	1.000	0.909	23.10	1.033	26.20	0.172	4.37	100.00	30.48

FLEXIBLE CONDUIT, MOUNTS & CLIPS

CSEZ Series
EZ Dispenser Split Nylon Conduit

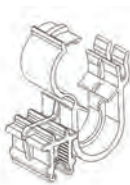
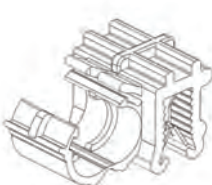
- Specifications:
- Material: UL94 HB Nylon
 - Color: Black with Gray Stripe
 - Temperature Range: -40°F to 300°F (-40°C to 149°C)



- Features:
- Supplied in easy pull dispenser box
 - Tangle free dispenses on interior reel
 - Split design for easy installation and removal

Item No.	Ø Nominal		A Min		A Max		B Min		B Max		Wall Thickness		Roll Length	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	ft	m
CSEZ1010A	1/4	0.256	6.50		0.276	7.01	0.373	9.47	0.398	10.11	0.040	1.02	100	30.48
CSEZ1030A	3/8	0.368	9.35		0.398	10.11	0.494	12.56	0.525	13.32	0.050	1.27	100	30.48
CSEZ1060A	1/2	0.473	12.01		0.516	13.11	0.664	16.87	0.700	17.78	0.050	1.27	100	30.48
CSEZ1080A	5/8	0.603	15.32		0.639	16.23	0.805	20.45	0.837	21.26	0.050	1.27	100	30.48
CSEZ1090A	3/4	0.707	17.96		0.759	19.28	0.950	24.13	0.989	25.12	0.050	1.27	100	30.48
CSEZ1140A	1	1.020	25.91		1.069	27.16	1.251	31.78	1.304	33.13	0.060	1.52	50	15.24

Edge Mount Conduit Holders

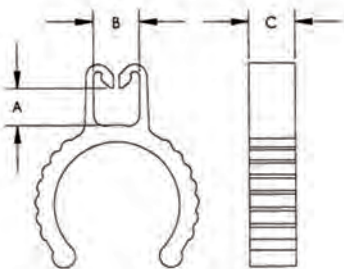


Type 1 Type 2 Type 3 Type 4 Type 5 Type 6

- Specifications:
- Material: Heat Stabilized Nylon 6/6 and 302 Stainless Steel
 - Color: Black
- Features:
- Holds a variety of sizes of corrugated tubing in place
 - Easy to install by pushing onto plastic or metal sheet edge
 - Ideal for applications where holes or adhesive is not suitable

Item No.	Type	Tube Size mm	Panel Thickness		Width		Length		Height to Center		Bulk Pack Qty
			in	mm	in	mm	in	mm	in	mm	
550261	1	4.5	0.028 - 0.118	0.7 - 3	0.591	15	0.591	15	0.610	15.5	100
550262	2	4.5	0.028 - 0.118	0.7 - 3	0.591	15	0.591	15	0.610	15.5	100
550263	3	4.5	0.028 - 0.118	0.7 - 3	0.787	20	0.591	15	0.256	6.5	100
550264	3	4.5	0.118 - 0.236	3 - 6	0.787	20	0.787	20	0.303	7.7	100
550265	4	4.5	0.118 - 0.236	3 - 6	0.787	20	0.787	20	0.728	18.5	100
550266	4	7.5	0.118 - 0.236	3 - 6	0.591	15	0.591	15	0.689	17.5	100
550267	1	10	0.118 - 0.236	3 - 6	0.472	12	0.866	22	0.728	18.5	100
550268	3	10	0.028 - 0.118	0.7 - 3	0.866	22	0.591	15	0.343	8.7	100
550269	3	10	0.118 - 0.236	3 - 6	0.866	22	0.787	20	0.350	8.9	100
550270	4	2 x 10	0.028 - 0.118	0.7 - 3	0.472	12	1.339	34	0.764	19.4	100
550271	5	2 x 10	0.028 - 0.118	0.7 - 3	0.591	15	1.614	41	0.535	13.6	100
550272	6	2 x 10	0.028 - 0.118	0.7 - 3	1.181	30	0.591	15	0.335 / 0.728	—	100
550273	3	13	0.028 - 0.118	0.7 - 3	0.591	15	0.591	15	0.413	10.5	100
550274	2	13	0.118 - 0.236	3 - 6	0.906	23	0.787	20	0.917	23.3	100
550275	1	13	0.118 - 0.236	3 - 6	0.512	13	0.906	23	0.787	20	100
550276	2	17	0.028 - 0.118	0.7 - 3	1.181	30	0.591	15	0.894	22.7	100

23CDC Series
Conduit Clips



- Specifications:
- Material: UL94 V-2 Nylon 6/6
 - Color: See Table
- Features:
- Designed to easily snap onto electrical conduit
 - Faster and easier installation than with a standard wire tie
 - Resistant to corrosion, vibration and abrasion

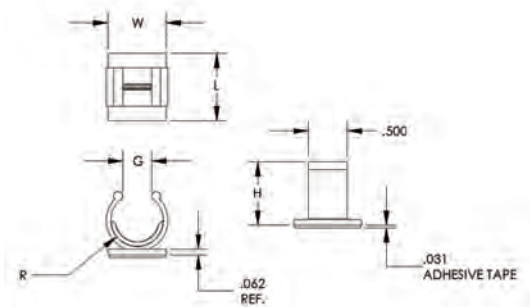
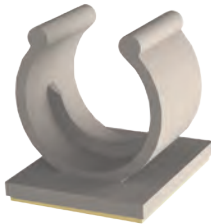
Item No		Conduit Size	A		B		C		Bulk Pack Qty
Natural	Black		in	mm	in	mm	in	mm	
23CDC05025	23CDC05025B	1/2"	0.200	5.1	0.250	6.4	0.250	6.4	1000
23CDC07531	23CDC07531B	3/4"	0.312	7.9	0.312	7.9	0.250	6.4	500

FLEXIBLE CONDUIT & CLIPS

22SLCLIP Series
Split Loom Clips

- Specifications:
- Material: UL94 V-2 Nylon 6/6
 - Color: Natural

- Features:
- Use to route split loom
 - Installs quickly and easily with adhesive base
 - Resists corrosion, vibration and abrasion

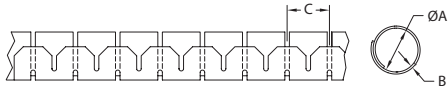


Item No.	Nominal Ø	R		G		W		L		H		Bulk Pack Qty
		in	mm	in	mm	in	mm	in	mm	in	mm	
22SL0250ADCLIP	0.250	0.400	10.10	0.220	5.58	0.750	19.00	0.750	19.00	0.512	13.00	100
22SL0375ADCLIP	0.375	0.540	13.70	0.297	7.54	0.750	19.00	0.750	19.00	0.666	16.90	100
22SL0500ADCLIP	0.500	0.680	17.20	0.374	9.49	0.750	19.00	0.875	22.20	0.819	20.80	100
22SL0625ADCLIP	0.625	0.840	21.30	0.462	11.70	0.750	19.00	0.875	22.20	0.995	25.20	100
22SL0750ADCLIP	0.750	0.940	23.80	0.500	12.70	1.000	25.40	1.000	25.40	1.104	28.00	100
22SL1000ADCLIP	1.000	1.140	28.90	0.575	14.60	1.000	25.40	1.000	25.40	1.324	33.60	100

SHR Series
Slit Harness Wrap

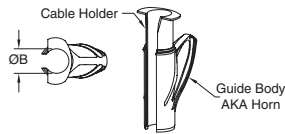


- Specifications:
- Material: See Table
 - Color: Black
- Features:
- Protects wires from wear
 - Easy to install



Item No.				Max Bundle Range		A		B		C		Roll Length		Installation Tool Part Number
UL94 V-0 Nylon 6	Nylon 6	PP	Approval	in	mm	in	mm	in	mm	in	mm	ft	m	
SHR-05-6V0B	SHR-05-6NB	SHR-05-PPB	UL	0.240	6.0	0.200	5.0	0.032	0.8	0.390	10.0	328	100	CAT-05-PP-BL
SHR-08-6V0B	SHR-08-6NB	SHR-08-PPB	UL	0.390	10.0	0.310	8.0	0.032	0.8	0.390	10.0	328	100	CAT-08-PP
SHR-15-6V0B	SHR-15-6NB	SHR-15-PPB	UL	0.630	16.0	0.590	15.0	0.032	0.8	0.550	14.0	164	50	CAT-15-PP
SHR-20-6V0B	SHR-20-6NB	SHR-20-PPB	UL	0.900	23.0	0.790	20.0	0.035	0.9	0.670	17.0	98	30	CAT-20-PP
SHR-25-6V0B	SHR-25-6NB	SHR-25-PPB	UL	0.980	25.0	0.980	25.0	0.039	1.0	0.790	20.0	66	20	CAT-25-PP
SHR-32-6V0B	SHR-32-6NB	SHR-32-PPB	UL	1.250	32.0	1.250	32.0	0.050	1.3	0.980	24.9	49	15	CAT-32-PP

CAT Series
Installation Tool for SHR



- Features:
- The easiest and quickest way to wrap cables
 - Insert cables into the CAT installation tool
 - Feed the slit end of the wrap over the horn of the tool and "zip" the wires into a neat bundle
 - Allows for breakout of the cables
 - Provides abrasion protection

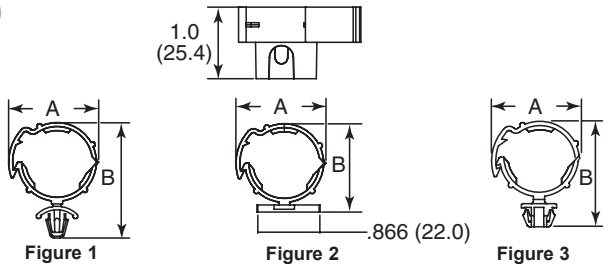
Item No.		Ø Max Bundle B		To Be Used With
Pack Qty = 1	Pack Qty = 100	in	mm	
CAT-05-PP-BL	—	0.240	6.0	SHR-05
CAT-08-PP	CAT-08-PP-BU	0.370	9.5	SHR-08
CAT-15-PP	CAT-15-PP-BU	0.630	16.0	SHR-15
CAT-20-PP	CAT-20-PP-BU	0.790	20.0	SHR-20
CAT-25-PP	CAT-25-PP-BU	0.960	24.5	SHR-25
CAT-32-PP	CAT-32-PP-BU	1.220	31.0	SHR-32

SHR-C Series
SHR Clips



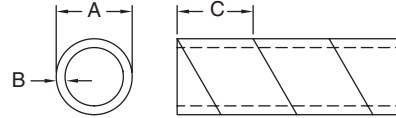
- Specifications:
- Material: UL94 V-2 Nylon 6/6
 - Color: Black

- Features:
- Adjustable clips to hold both the SHR-20 and SHR-25 slit harness wrap (see above)
 - Internal ribs grip the wrap securely



Item No.	Ø Holding	Figure	Figure	A Ref		B Ref		Bulk Pack Qty
				in	mm	in	mm	
SHR-C1	To hold SHR-20 & SHR-25	1	Snaps into a 0.252 in. (6.4 mm) Hole in a 0.031-0.079 in. (0.8-2.0 mm) Panel	1.140	29.0	1.670	42.5	500
SHR-C2	To hold SHR-20 & SHR-25	2	#8 or M4 Screw	1.180	30.0	1.280	32.5	500
SHR-C3	To hold SHR-20 & SHR-25	2	Adhesive	1.180	30.0	1.280	32.5	500
SHR-C4	To hold SHR-20 & SHR-25	3	Snaps into a 0.370 in. (9.5 mm) Square Hole in a 0.031-0.079 in. (0.8-2.0 mm) Panel	1.180	30.0	1.630	40.5	500

HR/22SPW Series Spiral Wrap



Specifications:

- Material: See Table
- Color: See Table

Item No.			Approval	Bundle Range		A		B		C		Roll Length	
UL94 HB Nylon	Polyethylene	LDPE		in	mm	in	mm	in	mm	in	mm	ft	m
Natural	—	Black											
HR2N-1/8	—	—	UL	0.062-0.500	1.6-12.7	0.125	3.2	0.020	0.5	0.170	4.3	100	30.48
HR3N-3/16	—	—	UL	0.125-1.000	3.2-25.4	0.187	4.8	0.020	0.5	0.250	6.4	100	30.48
HR4N-1/4	—	—	UL	0.187-1.500	4.8-38.7	0.250	6.4	0.025	0.6	0.300	7.6	100	30.48
HR6N-3/8	—	—	UL	0.312-2.000	7.9-50.8	0.375	9.5	0.035	0.9	0.380	9.5	100	30.48
HR8N-1/2	—	—	UL	0.750-3.000	19.1-76.2	0.500	12.7	0.040	1.0	0.500	12.7	100	30.48
—	HR2P-1/8	—	UL	0.062-0.375	1.6-9.5	0.125	3.2	0.020	0.5	0.170	4.3	100	30.48
—	HR3P-3/16	—	UL	0.125-1.000	3.2-25.4	0.187	4.8	0.030	0.8	0.250	6.4	100	30.48
—	HR4P-1/4	—	UL	0.187-1.000	4.8-25.4	0.250	6.4	0.050	1.3	0.300	7.6	100	30.48
—	HR6P-3/8	—	UL	0.312-2.000	7.9-50.8	0.375	9.5	0.050	1.3	0.380	9.5	100	30.48
—	22SPW38NA	—	—	0.312-3.000	7.9-76.2	0.375	9.5	0.062	1.6	—	—	100	30.48
—	22SPW49NA	—	—	0.375-4.000	9.53-101.6	0.500	12.7	0.040	1.0	—	—	100	30.48
—	22SPW50NA	—	—	0.375-4.000	9.53-101.6	0.500	12.7	0.062	1.6	—	—	100	30.48
—	22SPW62NA	—	—	0.625-4.500	1.6-114.3	0.625	15.9	0.062	1.6	—	—	100	30.48
—	HR8P-1/2	—	UL	0.750-3.000	19.1-76.2	0.500	12.7	0.060	1.5	0.500	12.7	100	30.48
—	22SPW75NA	—	—	0.750-5.000	19.1-127.0	0.750	19.1	0.065	1.7	—	—	100	30.48
—	22SPW10NA	—	—	1.000-7.000	25.4-177.8	1.000	25.4	0.070	1.8	—	—	75	22.86
—	22SPW11NA	—	—	1.000-7.000	25.4-177.8	1.000	25.4	0.095	2.4	—	—	75	22.86
—	—	22SPW24BK	—	0.187-2.000	4.8-50.8	0.250	6.4	0.035	0.9	—	—	100	30.48
—	—	HR4U-1/4	UL	0.187-0.750	4.8-19.1	0.250	6.4	0.050	1.3	0.300	7.6	100	30.48
—	—	HR6U-3/8	UL	0.312-2.000	7.9-50.8	0.375	9.5	0.050	1.3	0.380	9.5	100	30.48
—	—	22SPW38BK	—	0.312-3.000	7.9-76.2	0.375	9.5	0.062	1.6	—	—	100	30.48
—	—	22SPW49BK	—	0.375-4.000	9.53-101.6	0.500	12.7	0.040	1.0	—	—	100	30.48
—	—	22SPW50BK	—	0.375-4.000	9.53-101.6	0.500	12.7	0.062	1.6	—	—	100	30.48
—	—	22SPW62BK	—	0.625-4.500	1.6-114.3	0.625	15.9	0.062	1.6	—	—	100	30.48
—	—	HR8U-1/2	UL	0.750-3.500	19.1-88.9	0.500	12.7	0.060	1.5	0.500	12.7	100	30.48
—	—	22SPW75BK	—	0.750-5.000	19.1-127.0	0.750	19.1	0.065	1.7	—	—	100	30.48
—	—	22SPW10BK	—	1.000-7.000	25.4-177.8	1.000	25.4	0.070	1.8	—	—	75	22.86
—	—	22SPW11BK	—	1.000-7.000	25.4-177.8	1.000	25.4	0.095	2.4	—	—	75	22.86

Polyester Expandable Braided Sleeving

Specifications:

- Material: VW-1 Polyester
- Color: Black

Features:

- The open weave construction allows for easy installation reducing assembly cost
- Cut and abrasion resistant with high thermal properties
- Used on wire harnessing applications where durability and low cost are essential
- Cuts cleanly with a hot knife



Item No.	Nominal Size		Expansion Range				Roll Length	
	in	mm	Min (in)	Max (in)	Min (mm)	Max (mm)	ft	m
900303	1/8	3.0	0.039	0.236	1.0	6.0	200	60.9
900304	1/4	6.0	0.118	0.354	3.0	9.0	200	60.9
900305	5/16	8.0	0.197	0.630	5.0	16.0	100	30.5
900306	3/8	10.0	0.276	0.748	7.0	19.0	100	30.5
900307	1/2	12.0	0.315	0.945	8.0	24.0	100	30.5
900308	5/8	15.0	0.394	1.063	10.0	27.0	100	30.5
900309	3/4	20.0	0.551	1.181	14.0	30.0	50	15.2
900310	1	25.0	0.709	1.378	18.0	35.0	50	15.2
900311	1-1/4	30.0	0.787	1.969	20.0	50.0	50	15.2
900312	1-1/2	40.0	1.181	2.362	30.0	60.0	50	15.2
900313	1-3/4	45.0	1.378	2.953	35.0	75.0	50	15.2
900314	2	50.0	1.575	3.150	40.0	80.0	50	15.2
900315	2-1/2	64.0	1.772	4.134	45.0	105.0	50	15.2
900302	3	76.0	2.520	3.150	64.0	80.0	50	15.2

BRAIDED SLEEVING

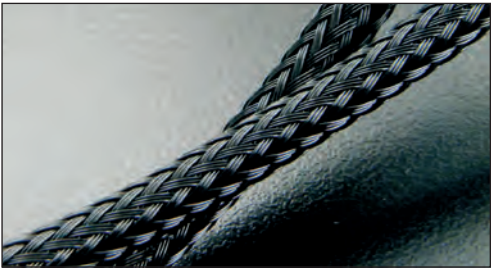
Nylon Expandable Sleeving

Specifications:

- Material: UL94 V-2 Nylon 6/6 Monofilament
- Color: Black

Features:

- Offers excellent abrasion resistance while maintaining a high degree of flexibility and durability
- Provides a smooth and slick surface that resists snags when dragged over a rough surface
- Cuts cleanly with a hot knife



Item No.	Nominal Flat Width		Expanded Range				Roll Length	
	in	mm	Min (in)	Max (in)	Min (mm)	Max (mm)	ft	m
900426	1/8	3.0	0.039	0.236	1.0	6.0	200	60.9
900427	1/4	6.0	0.118	0.354	3.0	9.0	200	60.9
900428	5/16	8.0	0.197	0.630	5.0	16.0	100	30.5
900429	3/8	10.0	0.276	0.748	7.0	19.0	100	30.5
900430	1/2	12.0	0.315	0.945	8.0	24.0	100	30.5
900431	5/8	16.0	0.394	1.063	10.0	27.0	100	30.5
900432	3/4	19.0	0.551	1.181	14.0	30.0	50	15.2
900433	1	25.0	0.709	1.378	18.0	35.0	50	15.2
900434	1-1/4	32.0	0.787	1.969	20.0	50.0	50	15.2
900435	1-1/2	38.0	1.181	2.362	30.0	60.0	50	15.2
900436	1-3/4	45.0	1.378	2.953	35.0	75.0	50	15.2
900483	2	50.0	1.575	3.150	40.0	80.0	50	15.2
900484	2-1/2	64.0	1.772	4.134	45.0	105.0	50	15.2
900485	3	76.0	2.520	4.724	64.0	120.0	50	15.2

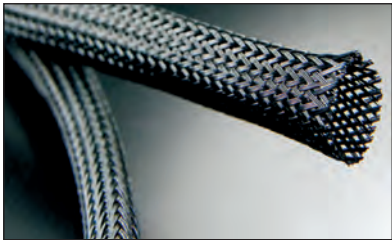
PPS UL94 V-0 Expandable Sleeve

Specifications:

- Material: UL94 V-0 Polyphenylene Sulfide
- Color: Black

Features:

- Used on flame retardant and high temperature cable assemblies and wire harness applications
- Lightweight sleeve that has chemical resistance, low wear, dimensional stability, and low moisture stability
- Cuts cleanly with a hot knife



Item No.	Nominal Flat Width		Expanded Range				Roll Length	
	in	mm	Min (in)	Max (in)	Min (mm)	Max (mm)	ft	m
900437	1/8	3.0	0.039	0.236	1.0	6.0	200	60.9
900438	1/4	6.0	0.118	0.354	3.0	9.0	200	60.9
900439	5/16	8.0	0.197	0.630	5.0	16.0	100	30.5
900440	3/8	10.0	0.276	0.748	7.0	19.0	100	30.5
900441	1/2	12.0	0.315	0.945	8.0	24.0	100	30.5
900442	5/8	16.0	0.394	1.063	10.0	27.0	100	30.5
900443	3/4	19.0	0.551	1.181	14.0	30.0	50	15.2
900444	1	25.0	0.709	1.378	18.0	35.0	50	15.2
900445	1-1/4	32.0	0.787	1.969	20.0	50.0	50	15.2
900446	1-1/2	38.0	1.181	2.362	30.0	60.0	50	15.2
900479	1-3/4	45.0	1.378	2.953	35.0	75.0	50	15.2
900449	2	50.0	1.575	3.150	40.0	80.0	50	15.2
900450	2-1/2	64.0	1.772	4.134	45.0	105.0	50	15.2
900451	3	76.0	2.520	4.724	64.0	120.0	50	15.2

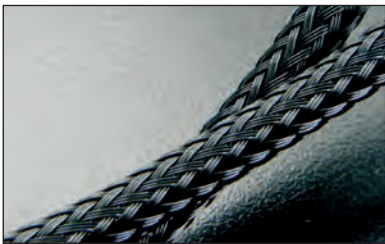
PET Anti-Abrasion Sleeve

Specifications:

- Material: VW-1 Polyethylene Terephthalate
- Color: Black

Features:

- Has 300% more abrasion resistance than the standard polyester expandable sleeve
- Exceptional mechanical properties
- Cuts cleanly with a hot knife



Item No.	Nominal Flat Width		Expanded Range				Roll Length	
	in	mm	Min (in)	Max (in)	Min (mm)	Max (mm)	ft	m
900461	1/8	3.0	0.039	0.236	1.0	6.0	200	60.9
900462	1/4	6.0	0.118	0.354	3.0	9.0	200	60.9
900463	5/16	8.0	0.197	0.630	5.0	16.0	100	30.5
900464	3/8	10.0	0.276	0.748	7.0	19.0	100	30.5
900465	1/2	12.0	0.315	0.945	8.0	24.0	100	30.5
900466	5/8	16.0	0.394	1.063	10.0	27.0	100	30.5
900467	3/4	19.0	0.551	1.181	14.0	30.0	50	15.2
900468	1	25.0	0.709	1.378	18.0	35.0	50	15.2
900469	1-1/4	32.0	0.787	1.969	20.0	50.0	50	15.2
900470	1-1/2	38.0	1.181	2.362	30.0	60.0	50	15.2
900471	1-3/4	45.0	1.378	2.953	35.0	75.0	50	15.2
900472	2	50.0	1.575	3.150	40.0	80.0	50	15.2
900473	2-1/2	64.0	1.772	4.134	45.0	105.0	50	15.2
900474	3	76.0	2.520	4.724	64.0	120.0	50	15.2

BRAIDED SLEEVING

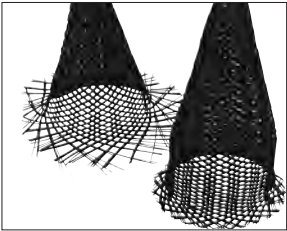
Scissor Cut Sleeve

Specifications:

- Material: VW-1 Polyester
- Color: Black

Features:

- Can be cut with scissors and maintains a frayless end
- Perfect for use in the field where a hot knife is not available
- Excellent abrasion resistance



Item No.	Approval	Nominal Size		Expansion Range				Roll Length	
		in	mm	Min (in)	Min (mm)	Max (in)	Max (mm)	ft	m
900289	UL	1/8	3.0	0.039	1.0	0.197	5.0	200	60.98
900290	UL	1/4	6.0	0.118	3.0	0.315	8.0	200	60.98
900291	UL	5/16	8.0	0.197	5.0	0.394	10.0	100	30.49
900292	UL	3/8	10.0	0.276	7.0	0.472	12.0	100	30.49
900293	UL	1/2	12.0	0.315	8.0	0.551	14.0	100	30.49
900294	UL	5/8	15.0	0.394	10.0	0.709	18.0	100	30.49
900295	UL	3/4	20.0	0.551	14.0	0.906	23.0	50	15.24
900296	UL	1	25.0	0.709	18.0	1.102	28.0	50	15.24
900297	UL	1-1/4	30.0	0.787	20.0	1.378	35.0	50	15.24
900298	UL	1-1/2	40.0	1.181	30.0	1.654	42.0	50	15.24
900299	UL	1-3/4	45.0	1.378	35.0	1.890	48.0	50	15.24
900300	UL	2	50.0	1.575	40.0	2.126	54.0	50	15.24
900301	UL	2-1/2	64.0	1.772	45.0	2.756	70.0	50	15.24
900316	UL	3	76.0	2.520	64.0	3.150	80.0	50	15.24

FRBS Series
High Flame-Retardant Expandable Sleeving

Specifications:

- Material: UL94 V0 Polyester
- Operating Range: -50°C ~ +150°C
- Melt Point: 240±10°C
- Color: Black, Gray

Features:

- Made of sturdy polyester; cuts with hot knife
- Designed for abrasion protection of bundles of electrical cables
- Self-extinguishing according to UL94 V0 for enhanced fire protection
- Highly flexible and easy to apply over irregular shapes, wires, cables, wire harnesses, pipes and industrial hoses where additional protection and high flame resistance is required
- Applications: public transport, aircraft industry, telecommunications, underground cables



Item No.	Nominal Size		Expansion Range				Roll Length	
	in	mm	in	max	min	mm	ft	m
FRBS-03	0.118	3.0	0.039	0.236	1.0	6.0	3280.8	1000.00
FRBS-06	0.236	6.0	0.118	0.354	3.0	9.0	1640.4	500.00
FRBS-08	0.315	8.0	0.197	0.472	5.0	12.0	1148.3	350.00
FRBS-10	0.394	10.0	0.276	0.669	7.0	17.0	1148.3	350.00
FRBS-12	0.472	12.0	0.315	0.787	8.0	20.0	1148.3	350.00
FRBS-14	0.551	14.0	0.394	1.063	10.0	27.0	820.2	250.00
FRBS-16	0.630	16.0	0.551	1.181	14.0	30.0	656.2	200.00
FRBS-20	0.787	20.0	0.709	1.299	18.0	33.0	656.2	200.00
FRBS-25	0.984	25.0	0.787	1.969	20.0	50.0	492.1	150.00
FRBS-30	1.181	30.0	1.181	2.362	30.0	60.0	328.1	100.00
FRBS-40	1.575	40.0	1.378	2.953	35.0	75.0	328.1	100.00
FRBS-45	1.772	45.0	1.575	3.150	40.0	80.0	328.1	100.00
FRBS-50	1.969	50.0	1.772	4.134	45.0	105.0	328.1	100.00
FRBS-64	2.520	64.0	2.520	4.724	64.0	120.0	328.1	100.00

Thermal Protection Sleeve

Specifications:

- Material: UL94 V-0 Nomex™ Fiber
- Color: Natural

Features:

- Provides thermal protection and high abrasion resistance
- Soft feel and smooth appearance makes installation easy
- Cuts easily with standard scissors
- Operating Range: -320°F to 662°F (-196°C to 350°C)



Item No.	Nominal Size		Expansion Range				Roll Length	
	in	mm	in	mm	ft	m	ft	m
900365	0.118	3.0	0.039	0.157	100	30.48	100	30.48
900366	0.236	6.0	0.196	0.314	100	30.48	100	30.48
900367	0.314	8.0	0.236	0.393	100	30.48	100	30.48
900368	0.393	10.0	0.275	0.511	100	30.48	100	30.48
900369	0.472	12.0	0.314	0.629	100	30.48	100	30.48
900370	0.591	15.0	0.393	0.787	100	30.48	100	30.48
900371	0.787	20.0	0.551	1.023	100	30.48	100	30.48
900372	0.984	25.0	0.708	1.299	100	30.48	100	30.48
900373	1.181	30.0	0.787	1.535	100	30.48	100	30.48
900374	1.574	40.0	1.181	2.047	100	30.48	100	30.48
900375	1.968	50.0	1.574	2.559	100	30.48	100	30.48

BRAIDED SLEEVING

Waved Self-Closing Wrap

Specifications:

- Material: Polyester Monofilament and Multifilament
- Operating Temperature Range: -40°C thru +150°C
- Melt Point: 240°C +/- 10°C
- Flammability: FMVSS302, UL94
- Color: Black
- Certificate: RoHS, Halogen Free
- Cutting Tool: Hot Knife, Scissors

Features:

- New design type of self-closing wrap which has excellent abrasion resistance and noise reduction
- Easy to install and remove
- Used on wire harnesses, tubes and hoses, providing tough and durable protection in telecom, railways, automotive sector, and equipment



Item No.	Nominal Diameter		Max. Bundle Diameter		Roll Length	
	mm	in	mm	in	m	ft
PMSCW-05	5	0.197	7	0.276	100	328
PMSCW-08	8	0.315	9	0.354	100	328
PMSCW-10	10	0.394	12	0.472	100	328
PMSCW-13	13	0.512	15	0.591	50	164
PMSCW-16	16	0.630	18	0.709	50	164
PMSCW-19	19	0.748	22	0.866	25	82
PMSCW-25	25	0.984	28	1.102	25	82
PMSCW-29	29	1.142	30	1.181	25	82
PMSCW-32	32	1.260	36	1.417	25	82
PMSCW-38	38	1.496	42	1.654	25	82
PMSCW-50	45	1.772	48	1.890	25	82

AFS Series
Aluminum Fiberglass Self-Closing Wrap

Specifications:

- Material: Aluminum Foil, Fiberglass, Polyester
- Working Temperature: -40°C ~ +150°C
- Thermal Insulation: Test method refer to SAE J2302
- Heat Insulation Performance: ≥100°C
- Color: Natural

Features:

- Adds a layer of protection that prevents scraping; cut and abrasion resistant
- Resists gasoline and engine chemicals
- Creates an insulation barrier for vulnerable cable and wire materials within high-temperature environments
- Cuts cleanly with a cutting machine or scissors
- Protects delicate wire bundles, cables and hoses from damage caused by nearby exhaust pipes, headers or heat-generating components



Item No.	ID		Thickness		Piece Length	
	in	mm	min	max	ft	m
AFSCW-08	0.315	8.0	0.016	0.4	3.4	1.00
AFSCW-10	0.394	10.0	0.020	0.5	3.4	1.00
AFSCW-13	0.512	13.0	0.020	0.5	3.4	1.00
AFSCW-16	0.630	16.0	0.020	0.5	3.4	1.00
AFSCW-20	0.787	20.0	0.028	0.7	3.4	1.00
AFSCW-25	0.984	25.0	0.028	0.7	3.4	1.00
AFSCW-32	1.260	32.0	0.028	0.7	3.4	1.00
AFSCW-38	1.496	38.0	0.028	0.7	3.4	1.00

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BRAIDED SLEEVING

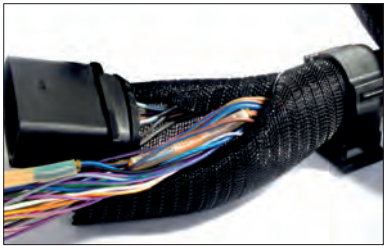
Self Closing Wrap

Specifications:

- Material: DIN5510, VW-1 Polyester Monofilament
- Color: Black

Features:

- The self closing 25% overlap design allows easy access to the bundle inside
- Can be assembled over components after they have already been installed
- Excellent flame resistance, heat dispersion, and durable protection
- Installation tool to zip cables in is available in most sizes
- Cuts cleanly with a hot knife



Item No.	ID		Ø Max Bundle		Installation Tool Part Number	Roll Length	
	in	mm	in	mm		ft	m
900412	0.196	5.0	0.236	6	900475	100	30.50
900413	0.314	8.0	0.354	9	900475	100	30.50
900414	0.511	13.0	0.551	14	900476	100	30.50
900415	0.748	19.0	0.787	20	900478	100	30.50
900416	0.984	25.0	1.023	26	900478	100	30.50
900417	1.496	38.0	1.574	40	—	100	30.50

Self Closing Braided Wrap

Specifications:

- Material: UL94 V-2 Polyester
- Color: Black

Features:

- The self closing 25% overlap design allows easy access to the bundle inside
- Can be assembled over components after they have already been installed
- Lightweight and abrasion resistant
- Installation tool to zip cables in is available in most sizes
- Cuts cleanly with a hot knife



Item No.	ID		Ø Max Bundle		Installation Tool Part Number	Roll Length	
	in	mm	in	mm		ft	m
900452	0.236	6.0	0.275	7.0	900475	100	30.5
900453	0.354	9.0	0.393	10.0	900476	100	30.5
900454	0.511	13.0	0.551	14.0	900476	100	30.5
900455	0.629	16.0	0.669	17.0	900477	100	30.5
900456	0.748	19.0	0.787	20.0	900478	100	30.5
900457	0.984	25.0	1.023	26.0	900478	100	30.5
900458	1.259	32.0	1.299	33.0	—	50	15.2
900459	1.496	38.0	1.574	40.0	—	50	15.2
900460	1.968	50.0	2.047	52.0	—	50	15.2

PMMSCW/PMMSCW-OR Series
Self-Closing Wrap

Specifications:

- Material: Polyester Mono-Filament and Multi-Filament
- Operating Range: -50°C ~ +150°C
- Melt Point: 240±10°C
- Color: See Table

Features:

- Cuts with hot knife
- Center-slit overlapping design allows quick and easy access to wires and cables for future maintenance or inspection without disassembly.
- Flexible material easily wraps around a variety of component shapes and sizes, making it easier to use than slit-loom tubing or spiral-wrap materials
- Unique weave pattern provides increased coverage and greater resistance to abrasion, dust and debris
- Provides tough, durable protection to wire harnesses and cable assemblies in automotive, telecom, automatic equipment, railways and panel boards



Item No.		Nominal Ø		Ø Max Bundle		Roll Length	
Black	Orange	in	mm	in	mm	ft	m
PMMSCW-05	PMMSCW-05-OR	0.197	5.0	0.236	6.0	328.08	100
PMMSCW-08	PMMSCW-08-OR	0.315	8.0	0.354	9.0	328.08	100
PMMSCW-10	PMMSCW-10-OR	0.394	10.0	0.433	11.0	328.08	100
PMMSCW-13	PMMSCW-13-OR	0.512	13.0	0.551	14.0	164.04	50
PMMSCW-16	PMMSCW-16-OR	0.630	16.0	0.669	17.0	82.02	25
PMMSCW-19	PMMSCW-19-OR	0.748	19.0	0.787	20.0	82.02	25
PMMSCW-25	PMMSCW-25-OR	0.984	25.0	1.063	27.0	82.02	25
PMMSCW-29	PMMSCW-29-OR	1.142	29.0	1.220	31.0	82.02	25
PMMSCW-32	PMMSCW-32-OR	1.260	32.0	1.339	34.0	82.02	25
PMMSCW-38	PMMSCW-38-OR	1.496	38.0	1.575	40.0	82.02	25
PMMSCW-50	PMMSCW-50-OR	1.969	50.0	2.047	52.0	82.02	25

BRAIDED SLEEVING / HOSE OR CABLE WRAP SLEEVES

Hook and Loop Braided Cable or Hose Wrap

- Specifications:
- Material: VW-1 Polyester and Nylon
 - Color: Black

- Features:
- Easily opened and closed
 - Can be easily installed over connectors, fittings, splices, cables and hoses
 - Breakouts can be made by bringing cables out through hook and loop
 - Open weave design easily conforms to many irregular shapes

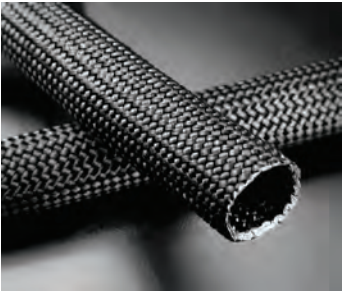


Item No.	Nominal Size		Max Bundle Dia.		Hook & Loop Width		Roll Length	
	in	mm	in	mm	in	mm	ft	m
900360	0.512	13.0	0.315	8.0	0.394	10.0	164	50
900361	0.748	19.0	0.472	12.0	0.394	10.0	164	50
900362	1.260	32.0	0.787	20.0	0.787	20.0	164	50
900363	2.008	51.0	1.260	32.0	0.787	20.0	164	50
900364	2.520	64.0	1.575	40.0	0.787	20.0	164	50

Nylon Multifilament Braided Sleeves

- Specifications:
- Material: Nylon 6 Multifilament
 - Operating Range: -50°C ~ +125°C
 - Melt Point: 220±10°C
 - Color: Black

- Features:
- Cuts cleanly with a hot knife
 - RoHS Compliant
 - Lightweight, flexible, and noise dampening
 - Sleek design that provides excellent flexibility while still maintaining a high degree of abrasion resistance and durability
 - Commonly used for power supplies, communications cables, and in automotive applications



Item No.	Nominal Size		Expandable Range				Roll Length	
	in	mm	min		max		ft	m
			in	mm	in	mm		
NMUBS-03	0.118	3	0.079	2	0.157	4	1148.3	350
NMUBS-06	0.236	6	0.157	4	0.276	7	1148.3	350
NMUBS-08	0.315	8	0.197	5	0.354	9	1148.3	350
NMUBS-10	0.394	10	0.236	6	0.433	11	1148.3	350
NMUBS-12	0.472	12	0.315	8	0.512	13	984.3	300
NMUBS-16	0.630	16	0.394	10	0.669	17	820.2	250
NMUBS-19	0.748	19	0.472	12	0.787	20	656.2	200
NMUBS-23	0.906	23	0.591	15	0.945	24	656.2	200
NMUBS-25	0.984	25	0.630	16	1.024	26	656.2	200
NMUBS-32	1.260	32	0.787	20	1.299	33	492.1	150
NMUBS-38	1.496	38	0.945	24	1.535	39	328.1	100
NMUBS-50	1.969	50	1.260	32	2.008	51	328.1	100
NMUBS-63	2.480	63	1.575	40	2.520	64	328.1	100

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HOSE OR CABLE WRAP SLEEVES

Quick Assemble Hook and Loop
Cable or Hose Sleeve

Specifications:

- Material: VW-1 Polyester with Hook and Loop
- Color: Black

Features:

- Non-expanable sleeve is easily opened and closed
- Lightweight, high strength, excellent flame and abrasion resistance
- Can be easily installed over connectors, fittings, splices, cables and hoses
- Breakouts can be made by bringing cables out through hook and loop

Item No.	ID		Spread Width		Roll Length	
	in	mm	in	mm	ft	m
900328	0.787	20.0	3.149	80.0	82	25
900329	0.984	25.0	3.740	95.0	82	25
900330	1.181	30.0	4.527	115.0	82	25
900331	1.377	35.0	5.118	130.0	82	25
900332	1.574	40.0	5.748	146.0	82	25
900333	1.771	45.0	6.377	162.0	82	25
900334	1.968	50.0	7.007	178.0	82	25

Hose & Cable Protection Sleeve



Specifications:

- Material: Polyester
- Color: Black

Features:

- Most economical MSHA approved sleeve protection option
- Lightweight but high strength and abrasion resistant
- Protects people, environment and machinery against hydraulic hose ruptures

Item No.	Flattened Width		Round ID		Roll Length	
	in	mm	in	mm	ft	m
900359	0.787	20.0	0.472	12.0	100	30.5
900344	0.984	25.0	0.591	15.0	100	30.5
900345	1.181	30.0	0.748	19.0	100	30.5
900346	1.378	35.0	0.866	22.0	100	30.5
900347	1.575	40.0	0.984	25.0	100	30.5
900348	1.772	45.0	1.102	28.0	100	30.5
900349	1.969	50.0	1.220	31.0	100	30.5
900350	2.362	60.0	1.496	38.0	100	30.5
900351	2.756	70.0	1.732	44.0	100	30.5
900352	3.150	80.0	1.969	50.0	100	30.5
900353	3.543	90.0	2.244	57.0	100	30.5
900354	3.937	100.0	2.362	60.0	100	30.5
900355	4.528	115.0	2.756	70.0	50	15.2
900356	5.709	145.0	3.543	90.0	50	15.2
900357	6.929	176.0	4.331	110.0	50	15.2
900358	7.874	200.0	4.921	125.0	50	15.2

Heatshrink Braided Sleeve

Specifications:

- Material: Polyester and Polyolefin
- Color: Black
- Shrink Ratio: 2:1
- Minimum Shrink Temperature: 176° F (80° C)
- Minimum Full Recovery Temperature: 248° F (120° C)

Features:

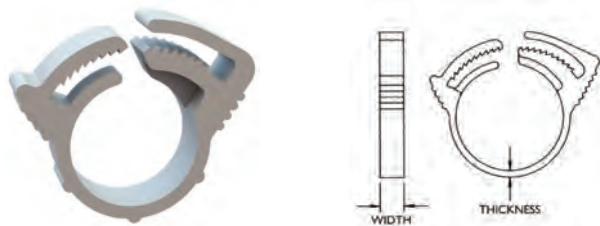
- Braided sleeving will shrink when exposed to a heat source
- Unique woven construction is extremely flexible and easy to install on hoses with irregular shapes
- Provides excellent abrasion resistance and noise reduction



Item No.	Nominal Size		As Supplied ID		After Recovery ID		Roll Length	
	in	mm	in	mm	in	mm	ft	m
900317	3/8	10.0	0.393	10.0	0.196	5.0	100	30.5
900318	1/2	12.0	0.472	12.0	0.236	6.0	100	30.5
900319	3/4	20.0	0.787	20.0	0.393	10.0	100	30.5
900320	1	25.0	0.984	25.0	0.492	12.5	100	30.5
900321	1-1/4	30.0	1.181	30.0	0.59	15.0	100	30.5
900322	1-3/8	34.0	1.338	34.0	0.669	17.0	100	30.5
900323	1-1/2	40.0	1.574	40.0	0.787	20.0	100	30.5
900324	2	50.0	1.968	50.0	0.984	25.0	100	30.5
900325	2-3/8	60.0	2.362	60.0	1.181	30.0	100	30.5
900326	2-3/4	70.0	2.755	70.0	1.377	35.0	100	30.5
900327	3-1/8	80.0	3.149	80.0	1.574	40.0	100	30.5

HOSE CLAMPS

22HC Series
Premium Hose Clamps

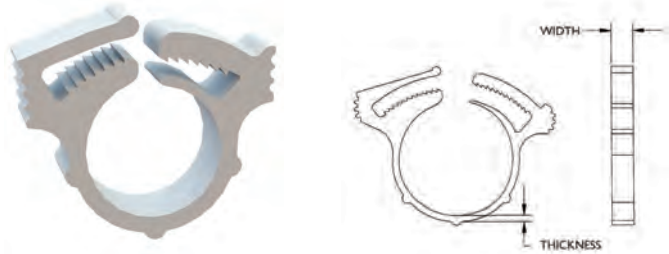


- Specifications:
- Material: UL94 V-2 Nylon 6/6
 - Color: See Table

- Features:
- Provides a superior seal on hose and tubing with a patented interlocking design that eliminates the leak path
 - Removable and reusable
 - Easy installation on most liquid, gas or vacuum lines

Item No.		Bundle Range		Width		Thickness		Bulk Pack Qty
Natural	Black	in	mm	in	mm	in	mm	
22HC0250	22HC0250B	0.235 - 0.260	5.9 - 6.6	0.219	5.6	0.047	1.2	1000
22HC0312	22HC0312B	0.300 - 0.350	7.6 - 8.9	0.219	5.6	0.062	1.6	1000
22HC0344	22HC0344B	0.360 - 0.390	9.1 - 9.9	0.219	5.6	0.062	1.6	500
22HC0406	22HC0406B	0.410 - 0.468	10.4 - 11.9	0.250	6.4	0.062	1.6	1000
22HC0468	22HC0468B	0.475 - 0.536	12.1 - 13.6	0.219	5.6	0.062	1.6	1000
22HC0531	22HC0531B	0.538 - 0.608	13.7 - 15.4	0.250	6.4	0.062	1.6	1000
22HC0593	22HC0593B	0.597 - 0.680	15.2 - 17.3	0.250	6.4	0.062	1.6	500
22HC0672	22HC0672B	0.670 - 0.776	17.0 - 19.7	0.219	5.6	0.062	1.6	500
22HC0750	22HC0750B	0.720 - 0.825	18.3 - 21.0	0.219	5.6	0.062	1.6	500
22HC0813	22HC0813B	0.750 - 0.875	19.1 - 22.2	0.216	5.5	0.062	1.6	500
22HC0875	22HC0875B	0.840 - 0.940	21.3 - 23.9	0.219	5.6	0.062	1.6	500
22HC0953	22HC0953B	0.885 - 1.025	22.5 - 26.0	0.250	6.4	0.062	1.6	250
22HC1031	22HC1031B	1.031 - 1.187	26.2 - 30.2	0.313	7.9	0.062	1.6	250
22HC1250	22HC1250B	1.250 - 1.425	31.8 - 36.2	0.313	7.9	0.062	1.6	250
22HC1406	22HC1406B	1.406 - 1.610	35.7 - 40.9	0.344	8.7	0.062	1.6	100
22HC1593	22HC1593B	1.593 - 1.812	40.5 - 46.0	0.344	8.7	0.062	1.6	100
22HC1687	22HC1687B	1.790 - 2.110	45.5 - 53.6	0.344	8.7	0.062	1.6	100
22HC1875	22HC1875B	1.870 - 2.125	47.5 - 54.0	0.406	10.3	0.062	1.6	100
22HC2125	22HC2125B	2.120 - 2.390	53.9 - 60.8	0.406	10.3	0.062	1.6	100

22HSC Series
Standard Hose Clamps

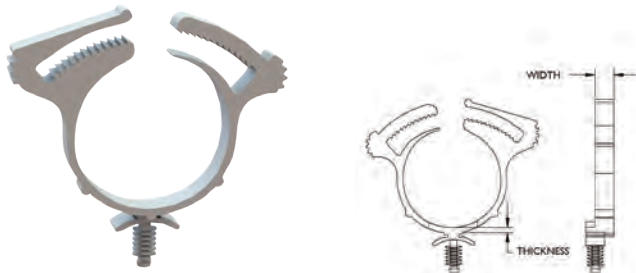


- Specifications:
- Material: UL94 V-2 Nylon 6/6
 - Color: See Table

- Features:
- Provides a superior seal on hose and tubing with a patented interlocking design that eliminates the leak path
 - Removable and reusable
 - Easy installation on most liquid, gas or vacuum lines

Item No.		Bundle Range		Width		Thickness		Bulk Pack Qty
Natural	Black	in	mm	in	mm	in	mm	
22HSC0010	22HSC0010B	0.235 - 0.260	6.0 - 6.6	0.156	4.0	0.040	1.0	1000
22HSC0015	22HSC0015B	0.283 - 0.312	7.2 - 7.9	0.150	3.8	0.050	1.3	500
22HSC0020	22HSC0020B	0.350 - 0.395	8.9 - 10.0	0.230	5.8	0.070	1.8	1000
22HSC0040	22HSC0040B	0.360 - 0.410	9.1 - 10.4	0.230	5.8	0.070	1.8	1000
22HSC0060	22HSC0060B	0.430 - 0.480	10.9 - 12.2	0.230	5.8	0.070	1.8	1000
22HSC0080	22HSC0080B	0.500 - 0.545	12.7 - 13.8	0.230	5.8	0.070	1.8	1000
22HSC0100	22HSC0100B	0.525 - 0.605	13.3 - 15.4	0.230	5.8	0.070	1.8	500
22HSC0120	22HSC0120B	0.580 - 0.660	14.7 - 16.8	0.230	5.8	0.070	1.8	500
22HSC0140	22HSC0140B	0.655 - 0.750	16.6 - 19.1	0.230	5.8	0.070	1.8	500
22HSC0180	22HSC0180B	0.779 - 0.899	19.8 - 22.8	0.230	5.8	0.070	1.8	500
22HSC0190	22HSC0190B	0.859 - 0.989	21.8 - 25.1	0.230	5.8	0.070	1.8	100
22HSC0220	22HSC0220B	0.900 - 1.072	22.9 - 27.2	0.250	6.4	0.070	1.8	250
22HSC0240	22HSC0240B	0.990 - 1.135	25.2 - 28.8	0.250	6.4	0.070	1.8	250
22HSC0280	22HSC0280B	1.123 - 1.296	28.5 - 32.9	0.280	7.1	0.070	1.8	250

22HCFC Series
Standard Hose Clamps Fin Clip Base



- Specifications:
- Material: UL94 V-2 Nylon 6/6
 - Color: See Table

- Features:
- Tough, corrosion resistant and resilient
 - Removable and reusable
 - Easy installation on most liquid, gas or vacuum lines

Item No.		Bundle Range		Hole Size		Panel Thickness		Thickness		Width		Bulk Pack Qty
Natural	Black	in	mm	in	mm	in	mm	in	mm	in	mm	
22HCFC037188	22HCFC037188B	0.360 - 0.395	9.1 - 10.0	0.230	5.8	0.187	4.8	0.031 - 0.250	0.8 - 6.4	0.070	1.8	100
22HCFC106188	22HCFC106188B	0.990 - 1.135	25.2 - 28.8	0.250	6.4	0.187	4.8	0.031 - 0.251	0.8 - 6.4	0.070	1.8	100

HOSE & CABLE CLAMPS / HEAT SHRINK TUBING

22DGHC Series
Quick Assemble Hose Clamps

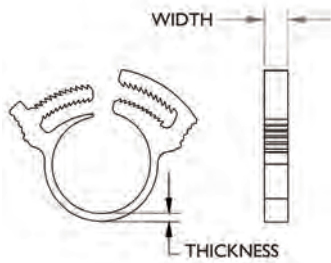


Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Black

Features:

- Double tooth interlocking jaw for exceptional strength
- Tough, corrosion resistant and resilient
- Removable and reusable
- Easy installation on most liquid, gas or vacuum lines



Item No.	Bundle Range		Width		Bulk Pack Qty
	in	mm	in	mm	
22DGHC00A	0.220 - 0.256	5.6 - 6.5	0.172	4.3	500
22DGHC00AA	0.256 - 0.300	6.5 - 7.6	0.177	4.5	500
22DGHC00B	0.311 - 0.362	7.9 - 9.2	0.188	4.8	500
22DGHC00BB	0.362 - 0.406	9.2 - 10.3	0.177	4.5	1000
22DGHC00C	0.402 - 0.465	10.2 - 11.9	0.228	5.8	1000
22DGHC00CC	0.437 - 0.508	11.1 - 12.9	0.250	6.4	500
22DGHC00D	0.472 - 0.543	12.0 - 13.8	0.240	6.1	500
22DGHC00E	0.516 - 0.594	13.1 - 15.1	0.283	7.2	500
22DGHC00F	0.591 - 0.673	15.0 - 17.1	0.285	7.2	500
22DGHC00G	0.665 - 0.752	16.9 - 19.1	0.281	7.1	500
22DGHC00H	0.713 - 0.811	18.1 - 20.6	0.280	7.1	250
22DGHC00J	0.799 - 0.906	20.3 - 23.0	0.252	6.4	250
22DGHC00K	0.874 - 0.980	22.2 - 24.9	0.276	7.0	250
22DGHC00L	0.965 - 1.087	24.5 - 27.6	0.280	7.11	250
22DGHC00M	1.043 - 1.161	26.5 - 29.5	0.317	8.1	250
22DGHC00N	1.134 - 1.268	28.8 - 32.2	0.354	9.0	250
22DGHC00P	1.260 - 1.370	32.0 - 34.8	0.358	9.1	250
22DGHC00Q	1.350 - 1.492	34.3 - 37.9	0.350	8.9	250

Item No.	Bundle Min.		Width		Bulk Pack Qty
	in	mm	in	mm	
22DGHC00R	1.496 - 1.614	38.0 - 41.0	0.362	9.2	250
22DGHC00S	1.579 - 1.740	40.1 - 44.2	0.354	9.0	250
22DGHC00T	1.701 - 1.819	43.2 - 46.2	0.350	9.0	250
22DGHC00U	1.811 - 1.988	46.0 - 50.5	0.354	9.0	250
22DGHC00V	1.909 - 2.118	48.5 - 53.8	0.354	9.0	250
22DGHC00W	2.087 - 2.224	53.0 - 56.5	0.354	9.0	250
22DGHC00X	2.165 - 2.382	55.0 - 60.5	0.370	9.4	250
22DGHC059	2.323 - 2.547	59.0 - 64.7	0.359	9.1	250
22DGHC064	2.480 - 2.654	63.0 - 67.4	0.361	9.2	250
22DGHC065	2.559 - 2.717	65.0 - 69.0	0.374	9.5	250
22DGHC066	2.591 - 2.823	65.8 - 71.7	0.362	9.2	250
22DGHC070	2.756 - 2.969	70.0 - 75.4	0.359	9.1	250
22DGHC075	2.941 - 3.169	74.7 - 80.5	0.369	9.4	250
22DGHC078	3.059 - 3.197	77.7 - 81.2	0.347	8.8	250
22DGHC080	3.142 - 3.346	79.8 - 85.0	0.354	9.0	250
22DGHC085	3.350 - 3.567	85.1 - 90.6	0.350	9.0	250
22DGHC096	3.846 - 4.020	97.7 - 102.1	0.336	8.5	250
22DGHC105	4.146 - 4.402	105.3 - 111.8	0.342	8.7	250

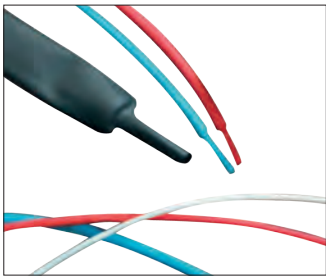
HST Series
2:1 Heat Shrink Tubing

Specifications:

- Material: Crosslinked Polyolefin
- Color: See Table
- Operating Temperature: -67°F to 257°F (-55°C to 125°C)
- Minimum Shrink Temperature: 158°F (70°C)
- Minimum Full Recovery Temperature: 212°F (100°C)
- Shrink Ratio: 2:1

Features:

- UL Approval: 125°C VW-1 600V File No. E204071
- RoHS Compliant
- Widely used in the communication, electronics and automotive fields
- Excellent electrical and physical properties
- Provided in standard roll lengths
- Flame retardant
- Highly flexible
- Comes in a variety of colors to color code wires, cables, terminals and components
- Provided in mini or standard roll lengths



Item No.					As Supplied		After Recovery		After Recovery		Roll Length	
					ID Min		ID Max		Wall Thickness Min		ft	m
Black	Red	Blue	White	Size (in)	in	mm	in	mm	in	mm		
495686	495709	495755	495824	3/64	0.047	1.20	0.024	0.60	0.013	0.33	492	150
495687	—	495756	—	1/16	0.063	1.60	0.031	0.80	0.014	0.36	492	150
495688	—	495757	495826	3/32	0.094	2.40	0.047	1.20	0.017	0.44	492	150
495689	495712	495758	495827	1/8	0.126	3.20	0.063	1.60	0.017	0.44	492	150
495690	495713	495759	495828	3/16	0.189	4.80	0.094	2.40	0.020	0.51	246	75
495691	495714	495760	495829	1/4	0.252	6.40	0.126	3.20	0.022	0.56	246	75
495692	495715	495761	495830	3/8	0.374	9.50	0.189	4.80	0.022	0.56	246	75
495693	495716	495762	495831	1/2	0.500	12.70	0.252	6.40	0.026	0.65	164	50
495694	495717	—	495832	5/8	0.630	16.00	0.315	8.00	0.027	0.69	164	50
495695	495718	495764	495833	3/4	0.748	19.00	0.374	9.50	0.031	0.80	98.4	30
HST022A	—	—	—	15/16	0.913	23.20	0.433	11.00	0.030	0.80	164	50
495696	495719	495765	495834	1	1.000	25.40	0.500	12.70	0.035	0.90	98.4	30
495697	495720	495766	495835	1-1/4	1.260	32.00	0.630	16.00	0.040	1.02	98.4	30
495698	495721	495767	—	1-1/2	1.500	38.10	0.748	19.00	0.040	1.02	98.4	30
HST028A	—	—	—	2-3/32	2.087	53.00	0.984	25.00	0.039	1.00	164	50

HEAT SHRINK TUBING

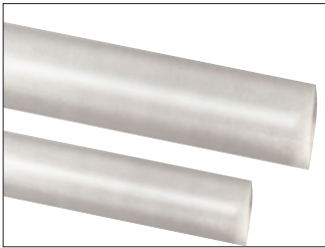
HST CLEAR Series
2:1 Clear Heat Shrink Tubing

Specifications:

- Material: Crosslinked Polyolefin
- Color: Clear (100% Transparent)
- Operating Temperature: -67° F to 221° F (-55° C to 105° C)
- Minimum Shrink Temperature: 158°F (70°C)
- Minimum Full Recovery Temperature: 203°F (95°C)
- Shrink Ratio: 2:1

Features:

- RoHS Compliant
- Used in the appliance, automotive and on consumer goods applications
- Commercial grade for general applications where flame-retardancy is not required
- Excellent electrical and physical properties
- Provided in standard roll lengths



Item No.	Size (in)	As Supplied		After Recovery				Roll Length	
		ID Min		ID Max		Wall Thickness Min			
		in	mm	in	mm	in	mm	ft	m
495883	3/64	0.047	1.20	0.024	0.60	0.013	0.33	492	150
495884	1/16	0.063	1.60	0.031	0.80	0.014	0.36	492	150
495885	3/32	0.094	2.40	0.047	1.20	0.017	0.44	492	150
495886	1/8	0.126	3.20	0.063	1.60	0.017	0.44	492	150
495887	3/16	0.189	4.80	0.094	2.40	0.022	0.56	246	75
495888	1/4	0.252	6.40	0.126	3.20	0.022	0.56	246	75
495889	3/8	0.374	9.50	0.189	4.80	0.022	0.56	246	75
495890	1/2	0.500	12.7	0.252	6.40	0.026	0.65	164	50
495891	5/8	0.630	16.0	0.315	8.00	0.027	0.69	164	50
495892	3/4	0.748	19.0	0.374	9.50	0.031	0.80	98.4	30
495893	1	1.000	25.4	0.500	12.7	0.035	0.90	98.4	30
495894	1-1/4	1.260	32.0	0.630	16.0	0.039	1.00	98.4	30
495895	1-1/2	1.500	38.1	0.748	19.0	0.039	1.00	98.4	30

HST YG Series
2:1 Yellow & Green Striped Heat Shrink Tubing

Specifications:

- Material: Crosslinked Polyolefin
- Color: Yellow and Green Striped
- Operating Temperature: -67° F to 275° F (-55° C to 135° C)
- Minimum Shrink Temperature: 158° F (70° C)
- Minimum Full Recovery Temperature: 212° F (100° C)

Features:

- UL Approval: 125°C VW-1 600V File No. E204071
- RoHS Compliant
- Outstanding physical, chemical and electrical properties
- Easy to install and makes identifying ground conductors easier
- Highly flame retardant and UV resistant



Item No.	Size (in)	As Supplied		After Recovery				Roll Length	
		ID Min		ID Max		Wall Thickness Min			
		in	mm	in	mm	in	mm	ft	m
495898	1/8	0.126	3.20	0.063	1.60	0.022	0.55	492	150
495900	1/4	0.252	6.40	0.126	3.20	0.026	0.65	246	75
495901	3/8	0.374	9.50	0.189	4.80	0.030	0.75	246	75
495902	1/2	0.500	12.7	0.252	6.40	0.030	0.75	164	50
495903	3/4	0.748	19.0	0.374	9.50	0.033	0.85	98.4	30
495904	1	1.000	25.4	0.500	12.7	0.039	1.00	98.4	30
495905	1-1/2	1.500	38.1	0.748	19.0	0.045	1.15	98.4	30

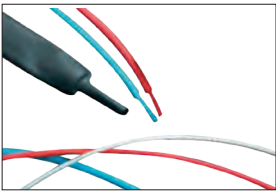
HST 3:1 Series
3:1 Heat Shrink Tubing

Specifications:

- Material: Crosslinked Polyolefin
- Color: See Table
- Operating Temperature: -67° F to 257° F (-55° C to 125° C)
- Minimum Shrink Temperature: 158° F (70° C)
- Minimum Full Recovery Temperature: 212° F (100° C)

Features:

- UL Approval: 125°C VW-1 600V
- File No. E204071
- RoHS Compliant
- Widely used for electrical insulation
- Flame retardant and highly flexible
- Protects in line components, disconnect terminals and splices
- Variety of colors to code wires, cables, terminals and components



Item No.				Size	As Supplied		After Recovery				Roll Length	
					ID Min		ID Max		Wall Thickness Min			
Black	Red	Blue	White	in	in	mm	in	mm	in	mm	ft	m
495906	—	—	—	1/16	0.059	1.50	0.020	0.50	0.018	0.45	492	150
495907	495916	495934	495961	1/8	0.118	3.00	0.039	1.00	0.022	0.55	492	150
495908	495917	495935	—	3/16	0.177	4.50	0.059	1.50	0.024	0.60	246	75
495909	495918	495936	495963	1/4	0.236	6.00	0.079	2.00	0.026	0.65	246	75
495910	495919	495937	495964	3/8	0.354	9.00	0.118	3.00	0.030	0.75	246	75
495911	495920	495938	495965	1/2	0.472	12.0	0.157	4.00	0.031	0.80	164	50
495912	—	495939	495966	3/4	0.709	18.0	0.236	6.00	0.035	0.90	98.4	30
495913	495922	495940	—	1	0.945	24.0	0.315	8.00	0.043	1.10	98.4	30
495914	495923	495941	—	1-1/2	1.535	39.0	0.512	13.0	0.049	1.25	98.4	30

HEAT SHRINK TUBING / FIBER SPLICE ACCESSORIES

HST ADHESIVE Series
3:1 Adhesive Lined Heat Shrink Tubing

Specifications:

- Material: Crosslinked Adhesive Lined Polyolefin
- Color: See Table
- Operating Temperature: -67° F to 257° F (-55° C to 125° C)
- Minimum Shrink Temperature: 176° F (80° C)
- Minimum Full Recovery Temperature: 230° F (110° C)
- Shrink Ratio: 3:1

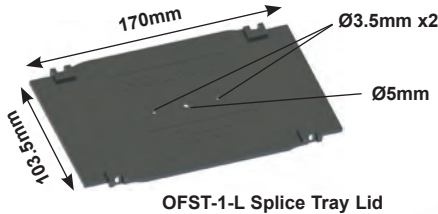


Features:

- UL Approval: 125°C VW-1 600V File No. E204071
- RoHS Compliant
- UV Resistant and flame retardant (with the exception of clear)
- Provides insulation and sealing on applications like wire splices and harnesses
- Comes in a variety of colors to code wires, cables, terminals and components
- Provided in standard roll lengths and pre-cut length in packs

						As Supplied		After Recovery				Roll Length		
Item No.						ID Min		ID Max		Wall Thickness Min				
Black	Clear	Red	Blue	White		in	mm	in	mm	in	mm	ft	m	
495987	496011	496003	—	496083		1/8	0.118	3.00	0.039	1.00	0.039	1.00	492	150
495988	—	—	496036	496084		3/16	0.189	4.80	0.059	1.50	0.039	1.00	246	75
495989	496013	496005	496037	496085		1/4	0.236	6.00	0.079	2.00	0.039	1.00	246	75
495990	496014	496006	496038	496086		3/8	0.354	9.00	0.118	3.00	0.055	1.40	164	50
495991	496015	496007	496039	496087		1/2	0.472	12.00	0.157	4.00	0.063	1.60	98.4	30
495992	496016	496008	—	496088		3/4	0.748	19.00	0.236	6.00	0.085	2.15	98.4	30
495993	496017	496009	—	496089		1	0.945	24.00	0.315	8.00	0.094	2.40	98.4	30
495994	496018	496010	—	—		1-1/2	1.575	40.00	0.512	13.0	0.094	2.40	98.4	30

OFST Series
Fiber Splice Tray System



Specifications:

- Color: See Table

Features:

- Lid, trays, and hinges are sold separately or in a kit: OFST-A-P-1
- Stackable to any number of trays
- Inter-tray fiber routing possible through slots along one of the long sides of the tray
- Color coded hinges indicate side of tray to open from. Part numbers are OFSTH-1-RED and OFSTH-1-GRN.
- Can be used with OFSH splice holders, OFSP splice protectors and OFBLT bend limiting tubing
- Three mounting holes go through the lid and trays



Item No.	Color	Description	Bulk Pack Qty
OFST-1-L	Black	Splice Tray Lid	10
OFST-1-M	Black	Splice Tray Managed with Radius Control & Dark Fiber Storage	10
OFST-1-P	Black	Splice Tray Plain with Basic Storage Facility	10
OFST-A-P-1	Black	1 x OFST-1-L, 1 x OFST-1-P, 2 x OFSTH-1-RED, 2 x OFSTH-1-GRN	10
OFSTH-1-GRN	Green	OF Splice Tray Hinge	20
OFSTH-1-RED	Red	OF Splice Tray Hinge	20

EFA04-25-001 Series
Splice Tray

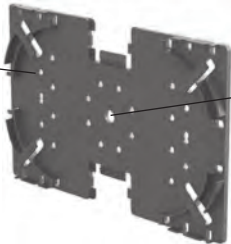
Specifications:

- Material: UL94 V-0 Nylon 6
- Color: Black

Features:

- Molded-in features maintain bend radius at 30mm
- Accepts Fiber Clips EFA04-61, 63 and 64-001
- Accepts 16-way Fiber Clip EFA04-06 and 08-001 broken into a 4-way segment for holding splicing components

All Periphery Holes: Ø2.8mm

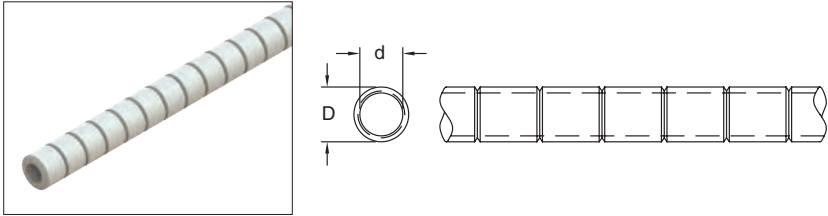


Center Hole
Ø6 mm

Item No.	L x W		Thickness		Bulk Pack Qty
	in	mm	in	mm	
EFA04-25-001	5.197 x 3.228	132.0 x 82.0	0.260	6.6	50

FIBER BEND LIMITING TUBING

OFBLT Series
Optical Fiber Bend Limiting Tubing

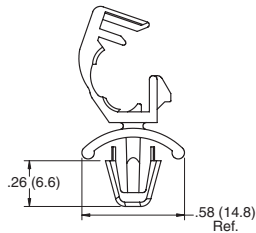


- Specifications:
- Material: See Table
 - Color: See Table
- Features:
- Optical Fiber Bend-Limiting Tubing offers the ultimate protection to fibers, eliminating problems such as crushing, kinking, and micro-bending, while supplying a self-managing solution for routing of fiber
 - Provides superior crush protection against micro fiber bends over conventional corrugated tubing
 - Limits the bend in a fiber by controlling radius to a minimum of 30mm
 - Has a smooth inner bore for ease of use and elimination of micro-bending
 - Suitable for blown fiber applications over short distance and for curbside FTTH/FTTB applications

Item No.		Style	Ø D		Ø d		Length
White Polypropylene	Black UL94 V-0 PBT		in	mm	in	mm	
OFBLT-3.1-05-PP	OFBLT-31-05V0	Standard	0.195	4.95	0.122	3.1	100 Meters
OFBLT-42-635PP	—	Standard	0.250	6.35	0.165	4.1	100 Meters

OFBLT-C Series
OFBLT Tubing Clips

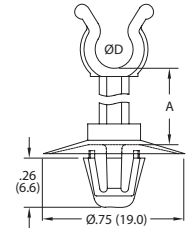
- Specifications:
- Material: See Table
 - Color: Natural
- Features:
- Holds the 5mm OFBLT tube (see above) or up to a 4.3mm rod
 - Clamp is releasable for repairs



Item No.		Ø Max Bundle		Ø Mounting Hole		Panel Thickness		Bulk Pack Qty
UL94 V-2 Nylon 6/6	UL94 V-0 Nylon 6/6	in	mm	in	mm	in	mm	
OFBLT-C1-5-01	OFBLT-C1-5-19	0.17	4.3	0.25	6.4	0.031 - 0.078	0.8 - 2.0	1000

TPCE Series
Tube Clips

- Specifications:
- Material: See Table
 - Color: Natural
- Features:
- Holds a 5mm diameter tube or pipe
 - Excellent for above board routing requirements
 - Cupped base provides stability and covers the entire hole



Item No.		A		Ø D Max Bundle		Ø Mounting Hole		Panel Thickness		Bulk Pack Qty
UL94 V-2 Nylon 6/6	UL94 V-0 Nylon 6/6	in	mm	in	mm	in	mm	in	mm	
TPCE5-51-4M-01	TPCE5-51-4M-19	0.157	4.0	0.200	5.1	0.256	6.5	0.031 - 0.063	0.8 - 1.6	1000
TPCE5-51-6M-01	TPCE5-51-6M-19	0.236	6.0	0.200	5.1	0.256	6.5	0.031 - 0.063	0.8 - 1.6	1000
TPCE5-51-10M-01	TPCE5-51-10M-19	0.394	10.0	0.200	5.1	0.256	6.5	0.031 - 0.063	0.8 - 1.6	1000

OFTGSP Series
OFBLT Tubing Saddles

- Specifications:
- Material: UL94 V-0 Nylon 6/6
 - Color: Natural
- Features:
- Holds the 5mm OFBLT (see above)
 - The saddle is placed over the tubing and closed down to engage on the external grooves of the tube
 - Secure attachment is completed by pressing the retaining feet through the location holes
 - OFTGSP-2 has two sets of mounting prongs requiring two holes

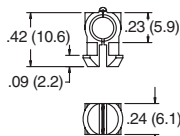


Figure 1

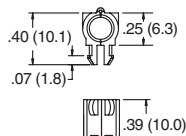


Figure 2



Recommended Mounting Hole



Recommended Mounting Holes

Item No.	Figure	Ø Mounting Hole		Panel Thickness		Bulk Pack Qty
		in	mm	in	mm	
OFTGSP-1-05-19	1	0.250	6.4	0.095	2.4	100
OFTGSP-2-05-19	2	0.197	5.0	0.071	1.8	100

FIBER BEND LIMITING TUBING & SPLICE HOLDERS

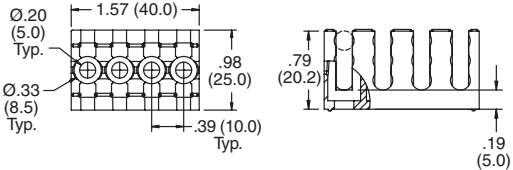
OFSMB - OFBLT Series
Slotted Multi Brackets

Specifications:

- Material: UL94 V-0 Glass-Filled Nylon
- Color: Black

Features:

- For use with 5mm OFBLT Tubing
- Mounts with #10 (M5) screws
- Optical Fiber Slotted Multi-Brackets are for use at distribution points where orderly fiber management, protection and strain relief is required
- An additional security feature allows fitting of a cable tie around OFSMBs which prevents removal of any retained tubes
- OFBLT retention: >70N
- Holds a maximum of 12 tubes



Item No.	Bulk Pack Qty
OFSMB-4-05GFBK	10

OFSH-T Series
Splice Holders

Specifications:

- Material: See Table
- Color: Black

Features:

- OFSH-T-6 holds up to 6 x 3mm fiber or components
- OFSH-T-12 holds up to 12 crimp splice protectors
- Splice Holders can be used with OFST Series Splice Trays

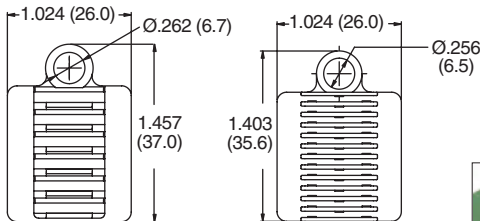
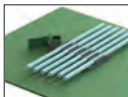


Figure 1

Figure 2



Item No.	Figure	Material	Ø Component		No. of Slots	Bulk Pack Qty
			in	mm		
OFSH-T-6-GFBLK	1	Glass-Filled Nylon 6/6	0.118	3.0	12	100
OFSH-T-12-01BLK	2	UL94 V-2 Nylon 6/6	0.039 - 0.047	1.0 - 1.2	12	100
OFSH-T-12-19BLK	2	UL94 V-0 Nylon 6/6	0.039 - 0.047	1.0 - 1.2	12	100

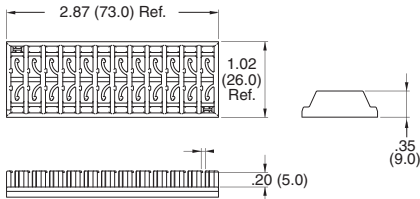
OFSH2 Series
Splice Holders

Specifications:

- Material: UL94 V-0 Nylon 6/6
- Color: Black

Features:

- Holds up to 24 components/splice protectors
- Flexible wings grip components up to .06 (1.6) in diameter
- Low profile to save space
- Two styles: one for mounting with an adhesive pad and one for mounting with a #4 or M3 screw
- Each slot holds up to two components



Item No.	Mounting Method	Ø Component		Bulk Pack Qty
		In	mm	
OFSH2-24-2	No Adhesive	Up to 0.060	Up to 1.6	50

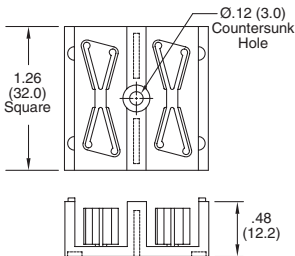
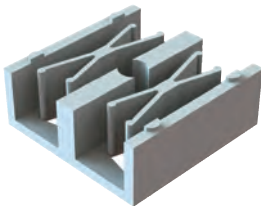
OFSH-4 Series
Splice Holders

Specifications:

- Material: See Table
- Color: Natural

Features:

- Holds 12 2.7mm splices or four 4.2mm splices
- Fastens with either an adhesive pad provided, or with a #4 screw or rivet
- Stackable



Item No.		Ø Component		No. of Positions	Bulk Pack Qty
		mm			
UL94 V-2 Nylon 6/6	UL94 V-0 Nylon 6/6	2.7	4.2	12	50
OFSH-4-1-01LA	OFSH-4-1-19LA	2.7	4.2	4	50

FIBER CLIPS

OFEB/OFHB Series
Fiber Holders



- Specifications:
- Material: UL94 V-0 Nylon 6/6
 - Color: Natural

- Features:
- Quickly mounted with adhesive base
 - OFEB has side brackets that connect with each other to provide for additional cables

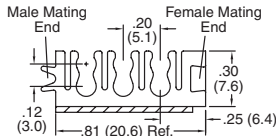


Figure 1

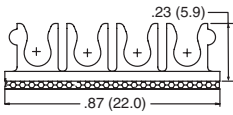


Figure 2

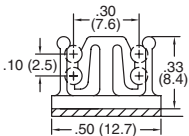


Figure 3

Item No.	Figure	Cable Ø		No. of Slots	No. of Cables	Depth		Bulk Pack Qty
		in	mm			in	mm	
OFEB-3-19	1	0.118	3.0	3	6	0.300	7.6	1000
OFHB3-4-19A-RT	2	0.118	3.0	4	4	0.375	9.5	1000
OFHB2-4A1-RT-19	3	0.079	2.0	2	4	0.375	9.5	1000

OFB-BH/OFB3P Series
Fiber Holders

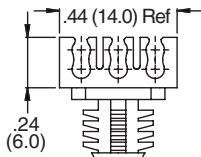


Figure 1

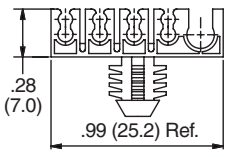


Figure 2

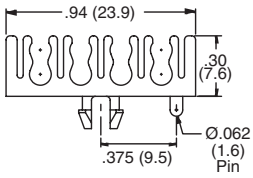


Figure 3

- Specifications:
- Material: UL94 V-0 Nylon 6/6
 - Color: Natural

- Features:
- Holds multiple cable fibers



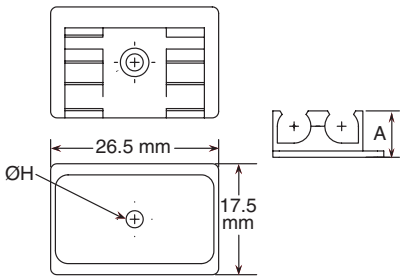
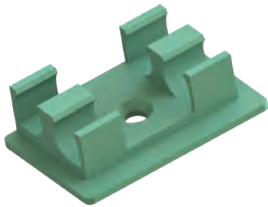
Recommended Mounting Holes

Item No.	Figure	Ø Mounting Hole		Panel Thickness		Ø Cable		No. of Slots	No. of Cables	Depth		Bulk Pack Qty
		in	mm	in	mm	in	mm			in	mm	
OFB-BH-6-19	1	0.312	7.9	0.250	6.4	0.079	2.0	3	6	0.197	5.0	1000
OFB-BH-9-19	2	0.312	7.9	0.250	6.4	8 x 0.086, 1 x 0.158	8 x 2.2, 1 x 4.0	5	9	0.236	6.0	1000
OFB3P-4-19	3	0.187	4.7	0.064	1.6	0.118	3.0	4	8	0.200	5.1	1000

EFA04-6X Series
Fiber Clips

- Specifications:
- Material: UL94 V-0 Nylon 6
 - Color: See Table

- Features:
- Holds two components parallel
 - Available to hold three different diameters; 4.5mm, 5.5mm, 6mm
 - Designed for use in the Splice Tray EFA04-25-001
 - Can be mounted by screw, rivet, or with adhesive pad
 - EFA04-61-001 has anti-rotation pins to securely mount with screw or rivet

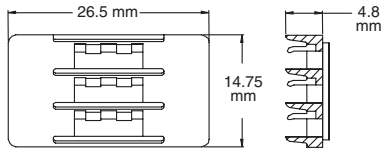
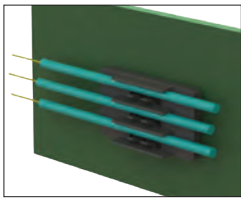


Item No.	Clip Only	Clip & Adhesive Pad	Color	Ø Cable		No. of Slots	A		Ø H		Recommended Mounting Screw	Bulk Pack Qty
				in	mm		in	mm	in	mm		
EFA04-61-001	EFA04-61-ASS		Red	0.236	6.0	2	0.315	8.0	0.126	3.2	#4, #5 or M3	100
EFA04-63-001	EFA04-63-ASS		Green	0.216	5.5	2	0.289	7.33	0.106	2.7	#3 or M2.5	100
EFA04-64-001	EFA04-64-ASS		Yellow	0.177	4.5	2	0.289	7.33	0.106	2.7	#3 or M2.5	100

EFA04-02 Series
Fiber Clips

- Specifications:
- Material: UL94 V-0 Nylon 6
 - Color: Black

- Features:
- Holds three 3mm diameter components
 - Adhesive pad for easy application



Item No.	Ø Cable		No. of Slots	Contents	Bulk Pack Qty
	in	mm			
EFA04-02-ASS	0.118	3.0	3	Clip with Adhesive Pad	100

FIBER CLIPS & GUIDES

EFA04 Series
Fiber Clips

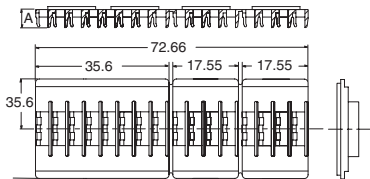
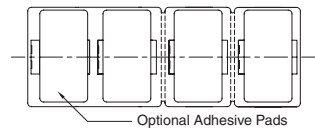
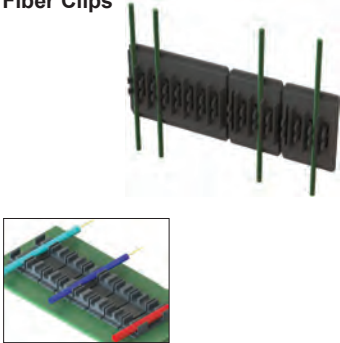


Figure 1

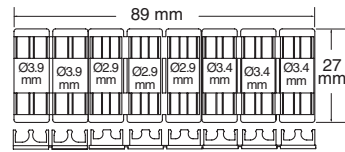


Figure 2

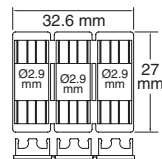


Figure 3

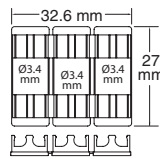


Figure 4

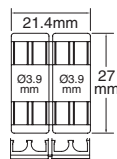


Figure 5

Specifications:

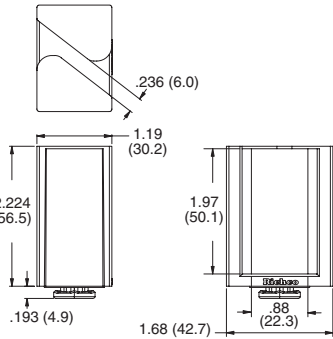
- Material: UL94 V-0 Nylon 6
- Color: See Table

Features:

- EFA04-06, EFA04-08, and EFA04-18 can be broken apart to form individual clips
- Various mounting options are available

Item No.				Ø Cable		No. of Slots	Bulk Pack Qty
Clip Only	Clip with Adhesive Pad(s)	Figure	Color	in	mm		
EFA04-06-001	EFA04-06-ASS	1	Black	0.118	3.0	16	100
—	EFA04-08-ASS	1	Blue	0.079	2.0	16	100
—	EFA04-18-ASS	2	Black	.154, .134, .114	3.9, 3.4, 2.9	4, 6, 6 = 16	100
EFA04-71-001	EFA04-71-P01	3	Black	0.114	2.9	6	100
EFA04-71-002	—	4	Black	0.134	3.4	6	100
EFA04-71-003	EFA04-71-P03	5	Black	0.154	3.9	4	100

OFRB Series
Fiber Rack Brackets



Specifications:

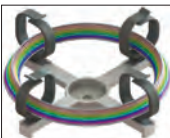
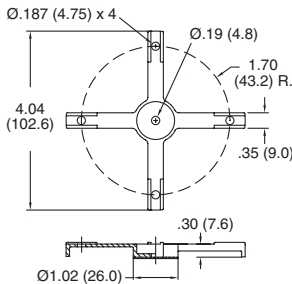
- Material: UL94 V-0 Nylon 6/6
- Color: Black

Features:

- Mounts into a standard 19" rack with a quarter turn
- Removable with a quarter turn
- No stress is applied to the fiber upon entry

Item No.	Square Mounting Hole		Panel Thickness		Bulk Pack Qty
	in	mm	in	mm	
OFRB-1BK	0.465 x 0.465	11.8 x 11.8	0.063 - 0.079	1.6 - 2.0	100
OFRB-2BK	0.374 x 0.374	9.5 x 9.5	0.063 - 0.079	1.6 - 2.0	100

OFSB Series
Fiber Support Bases



Specifications:

- Material: See Table
- Color: Natural

Features:

- Constructs a path for spooling fiber optic cables
- Designed for use in fiber optic patch panel applications
- Center hole is for mounting the base with a #8 screw or SR-5XXX rivet found at essentracomponents.com
- Any Essentra wire routing device that is designed to snap into a 0.187 hole and a 0.062" panel can be mounted to this base; popular options are OFNS, STL, WS and LWS series

Item No.		Mounting Method	Bulk Pack Qty
UL94 V-2 Nylon 6/6	UL94 V-0 Nylon 6/6		
OFSB-4-85-01A	OFSB-4-85-19A	Adhesive	100
OFSB-4-85-01	OFSB-4-85-19	#8 Screw of SR-5XXX Rivet	100

FIBER CLIPS & GUIDES

OFCC/OFCCG Series
Fiber Coiling Clips



Figure 1



Figure 2

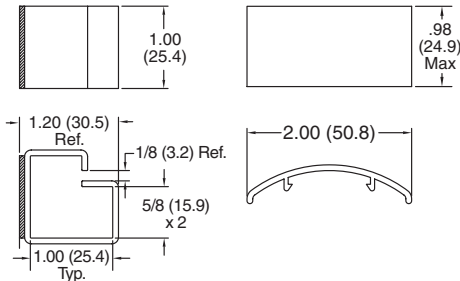


Figure 1

Figure 2



Specifications:

- Material: UL94 V-0 PVC
- Color: Black

Features:

- OFCG snaps onto OFCC to form a clip with a smooth, curved surface to accommodate fiber optic bundles
- OFCC and OFCG sold separately
- Limits the bend radius of the fiber

Item No.	Figure	Bulk Pack Qty
OFCC-16A-RT	1	100
OCFG-16	2	100

EFA04 Series
Fiber Guides

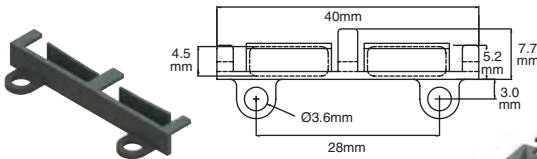


Figure 1

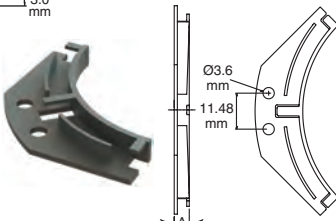


Figure 2

Specifications:

- Material: UL94 V-0 Nylon 6
- Color: Black

Features:

- Provide fiber storage as well as bend control
- Various mounting options are available
- The fiber reel screw mount holes are Ø2.8mm with a 90° countersink of Ø4.6mm (holes are spaced evenly on a 30mm diameter)
- Reel can be stacked or mounted above board using accessories below

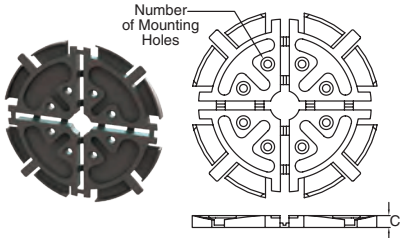


Figure 3

Item No.			Height		No. of Mounting Holes	Max Fiber Storage	Bulk Pack Qty
Guide Only	Guide with Adhesive Pad(s)	Guide with SRHR-3555 Rivets	Figure	Guide Radius			
EFA04-60-001	EFA04-60-P01	EFA04-60-R01	1	Straight	2	—	100
EFA04-34-001	EFA04-34-P01	EFA04-34-R01	2	30 mm Radius Corner Guide	2	—	100
EFA04-34-010	EFA04-34-P10	EFA04-34-R10	2	30 mm Radius Corner Guide	2	—	100
EFA04-34-004	EFA04-34-P04	EFA04-34-R04	2	30 mm Radius Corner Guide	2	—	100
EFA04-34-002	—	EFA04-34-R02	2	35 mm Radius Corner Guide	2	—	100
EFA04-34-005	EFA04-34-P05	EFA04-34-R05	2	35 mm Radius Corner Guide	2	—	100
EFA04-34-003	—	EFA04-34-R03	2	40 mm Radius Corner Guide	2	—	100
EFA04-34-006	EFA04-34-P06	—	2	40 mm Radius Corner Guide	2	—	100
EFA04-34-007	EFA04-34-P07	EFA04-34-R07	2	30-37 mm Radius Ribbon Fiber Corner Guide	2	—	100
EFA04-04-001	EFA04-04-ASS	—	3	25 mm Radius Fiber Reel	8	2.5 m of 900 Micron Fiber	100
EFA04-21-001	EFA04-21-ASS	—	3	25 mm Radius Fiber Reel	8	4.5 m of 900 Micron Fiber	100
EFA04-10-001	EFA04-10-ASS	—	3	30 mm Radius Fiber Reel	8	3.0 m of 900 Micron Fiber	100
EFA04-14-001	EFA04-14-ASS	—	3	30 mm Radius Fiber Reel	8	9.0 m of 900 Micron Fiber	100
EFA04-76-001	—	—	3	35 mm Radius Fiber Reel	8	15.0 m of 900 Micron Fiber	100
EFA04-23-001	—	—	3	40 mm Radius Fiber Reel	4	7.0 m of 900 Micron Fiber	100

EFA04-53/EFA04-27 Series
Fiber Reel Stacking
Pillars and Standoffs

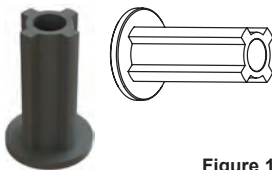


Figure 1

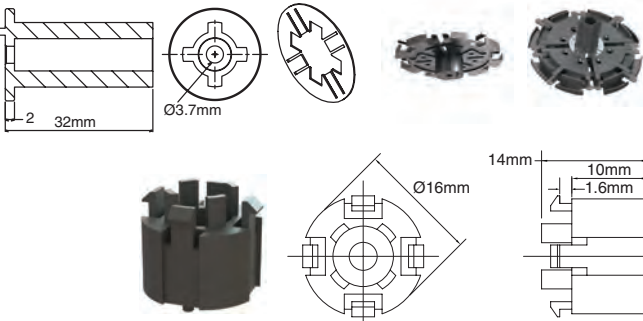


Figure 2

Specifications:

- Material: UL94 V-0 Nylon 6/6
- Color: Black

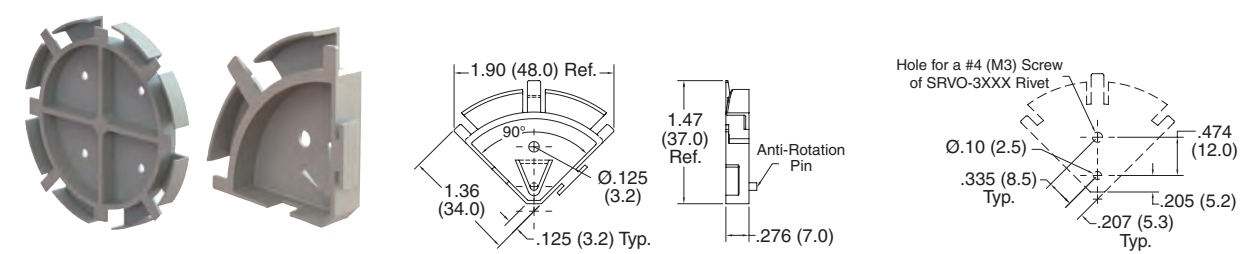
Features:

- EFA04-53-ASS is used to stack multiple EFA04 fiber reels, and retained with an included spring clip
- EFA04-27-ASS is used to space the EFA04 fiber reel off the PC Board (top of the standoff snaps into holes in the fiber reel)
- Mounted from the bottom of the board with included rivet

Item No.	Figure	Description	Bulk Pack Qty
EFA04-53-ASS	1	Fiber Reel Stacking Pillar	100
EFA04-27-ASS	2	Fiber Reel Standoff	100

FIBER GUIDES

OFS Series
90°Fiber Segment, 30mm Radius

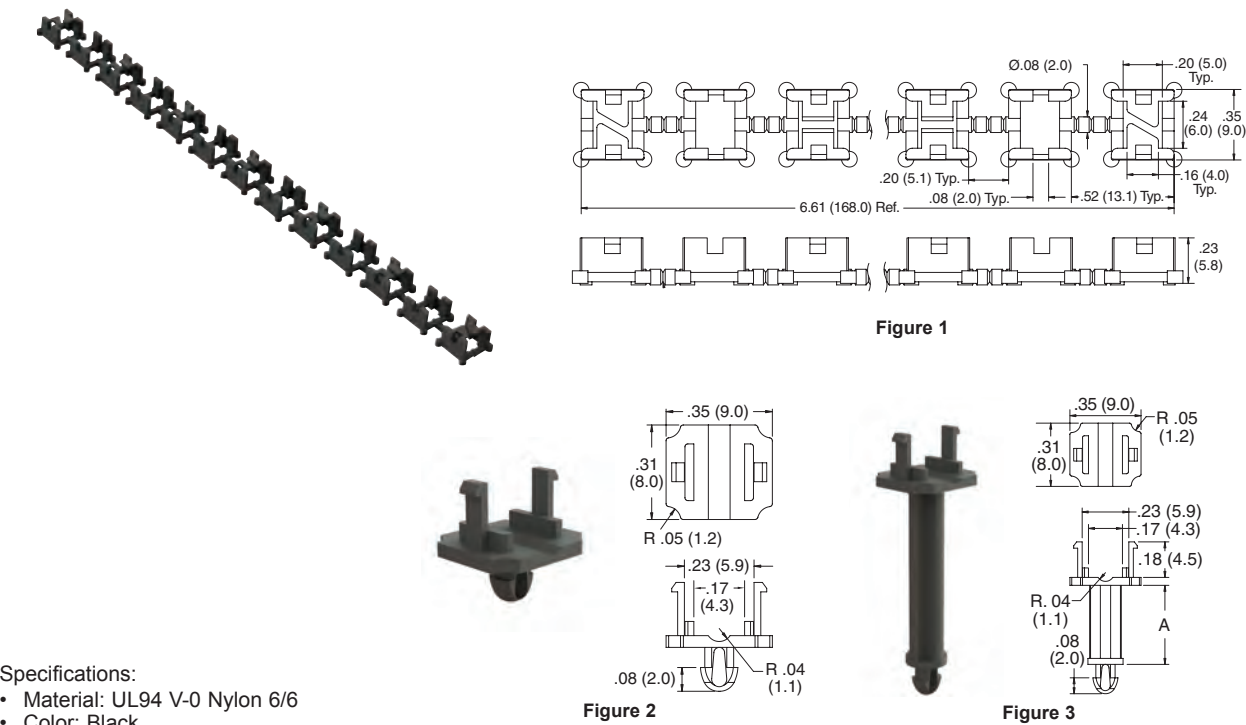


- Specifications:
- Material: UL94 V-0 Nylon 6/6
 - Color: Natural
- Features:
- Provides a 90° bend control radius
 - Assemble two pieces for bend control around a 180° turn
 - Assemble four pieces for excess fiber spooling at 30mm radius
 - In a four-piece assembled mode, stores approximately 60m of 900 micron fiber
 - Mounts with a #4 (M3) screw or SRVO-30XX snap rivet

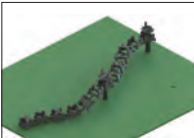
Recommended Mounting Holes

Item No.	Bulk Pack Qty
OFS90-30R	100

OFFG/OFFGSP Series
Flexible Fiber Guide System



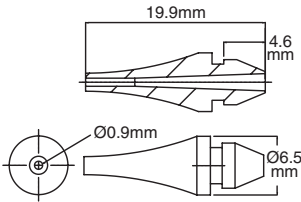
- Specifications:
- Material: UL94 V-0 Nylon 6/6
 - Color: Black
- Features:
- Fully modular, flexible system giving complete fiber management and protection
 - Unique spine allows the guide to be oriented in all planes
 - For use with 250 and 900 micron fiber
 - Fiber can enter and exit at any point, without risk of fiber snagging or kinking
 - Angled and straight lugs located along the guide prevent the fiber from springing out
 - 25mm maximum bend radius when flexed
 - Guide can be cut to various lengths at flexible link sections
 - Two types of support posts; OFFGSP-F for mounting flush to the panel, and OFFGSP-R that raises the guide 5mm
 - Guide snaps easily into the support posts



Item No.	Figure	Description	Ø Mounting Hole		Panel Thickness		A		Bulk Pack Qty
			in	mm	in	mm	in	mm	
OFFG-165M-19-BK	1	Fiber Guide	—	—	—	—	—	—	100
OFFGSP-F-19-BK	2	Flat Fiber Guide Support	0.098	2.5	0.063	1.6	—	—	100
OFFGSP-R-05-BK	3	Fiber Guide Spacer	0.098	2.5	0.063	1.6	0.200	5.0	100

FIBER MANAGEMENT & DUST CAPS

EFA70-07 Series
900 Micron Strain Relief Boots

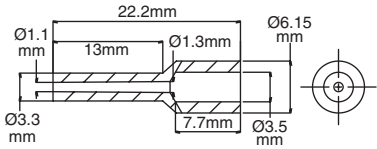


- Specifications:
- Material: TPE
 - Color: Black

- Features:
- Provides added protection to 900 micron fiber while routing through a hole
 - Limits the angle of the fiber preventing signal loss

Item No.	Ø Hole		Panel Thickness		Bulk Pack Qty
	in	mm	in	mm	
EFA70-07-001	0.157	4.0	0.063	1.6	500

EFA70-01 Series
900 Micron Transition Boots



- Specifications:
- Material: TPE
 - Color: Black

- Features:
- Transitions a 3mm jacketed fiber to a 900 micron fiber
 - Limits the bend of the fiber, preventing signal loss

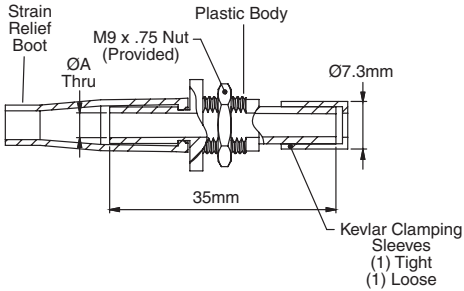
Item No.	Bulk Pack Qty
EFA70-01-001	500

EFA52 Series
Quick Panel Mount Strain Relief Gland Kit



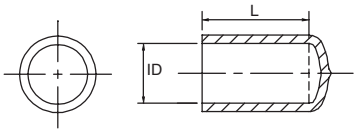
- Specifications:
- Material: UL94 V-0 Nylon 6
 - Color: Black

- Features:
- Acts as a cable gland for jacketed fiber, preventing the cable from being pulled out of the device
 - The plastic body mounts directly on the panel, and the jacketed cable is passed through the center hole
 - On the inside of the panel, the cable's Kevlar strands are clamped to the plastic body using one of two clamping sleeves (whichever is appropriate)
 - Secured in the panel with a mounting bolt
 - On the outside of the panel, a flexible boot is attached to the plastic body, providing control over the bend-radius of the cable exiting the strain-relief assembly



Item No.	Ø Jacketed Fiber		A		Bulk Pack Qty
	in	mm	in	mm	
EFA52-02-ASS	0.118	3.0	0.138	3.5	250
EFA52-05-ASS	0.079	2.0	0.098	2.5	250

EFA02-43 Series
Connector Adapter Dust Caps



- Specifications:
- Material: PVC
 - Color: Black

- Features:
- Provides environmental protection for SMA, ST and FC connector adapters
 - Made of flexible PVC to provide snug fit

Item No.	Contents	L		ID		Bulk Pack Qty
		in	mm	in	mm	
EFA02-43-001	SMA Connector Adapter Dust Cap	0.500	12.7	0.120	3.0	500
EFA02-43-002	ST Connector Adapter Dust Cap	0.500	12.7	0.280	7.1	500
EFA02-43-003	FC Connector Adapter Dust Cap	0.310	8.0	0.280	7.1	500

DUST CAPS

EFA02 Series
Connector Dust Caps and Plugs



Figure 1

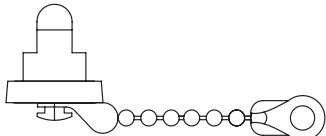


Figure 2

Specifications:

- Material: See Table
- Color: See Table

Features:

- The EFA02-14-001 plugs an SC connector and does not require a dust chain (other dust caps in this series require the retaining chain and cannot be sold separately)
- The steel caps are threaded onto the connector adapters
- Provides mechanical and environmental protection to adaptors when unmated
- Stainless Steel construction suitable for harsh environments
- 2.5" long chain

Item No.	Material		Bulk Pack Qty
	Figure 1 Stainless Steel Cap & Chain	Figure 2 Black TPE Plug & Optional Stainless Steel Chain	
EFA02-04-ASS	SMA Adapter Dust Cap & Chain	—	100
EFA02-07-ASS	DIN Adapter Dust Cap & Chain	—	100
EFA02-09-ASS	FC Adapter Dust Cap & Chain	—	100
EFA02-10-ASS	ST Adapter Dust Cap & Chain	—	100
EFA02-14-001	—	SC Adapter Dust Plug	250
EFA02-14-ASS	—	EFA02-14-001 Dust Plug with Chain	250

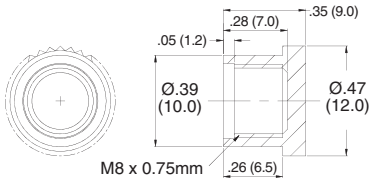
EFA02-03 Series
FC Connector Port Dust Caps

Specifications:

- Material: High-Density Polyethylene
- Color: See Table

Features:

- Dust caps are threaded onto the FC connector adapter providing protection from outside elements



Item No.	Color	Bulk Pack Qty
EFA02-03-001	Natural	500
EFA02-03-002	Black	500
EFA02-03-003	Green	500
EFA02-03-004	White	500
EFA02-03-005	Red	500

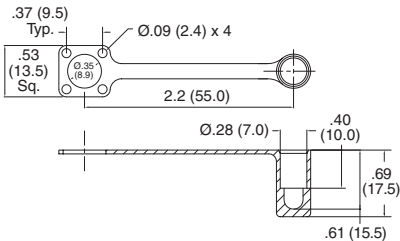
EFA02-35 Series
ST Connector Port Dust Caps and Lanyards

Specifications:

- Material: TPE
- Color: Black

Features:

- Provides environmental protection of ST connector ports
- Molded-on lanyard prevents the loss of the cap



Item No.	Bulk Pack Qty
EFA02-35-001	250

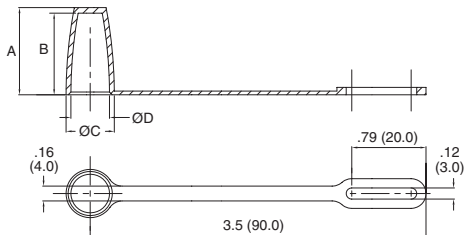
EFA02 Series
Connector Port Dust Caps and Lanyards

Specifications:

- Material: PVC
- Color: Black

Features:

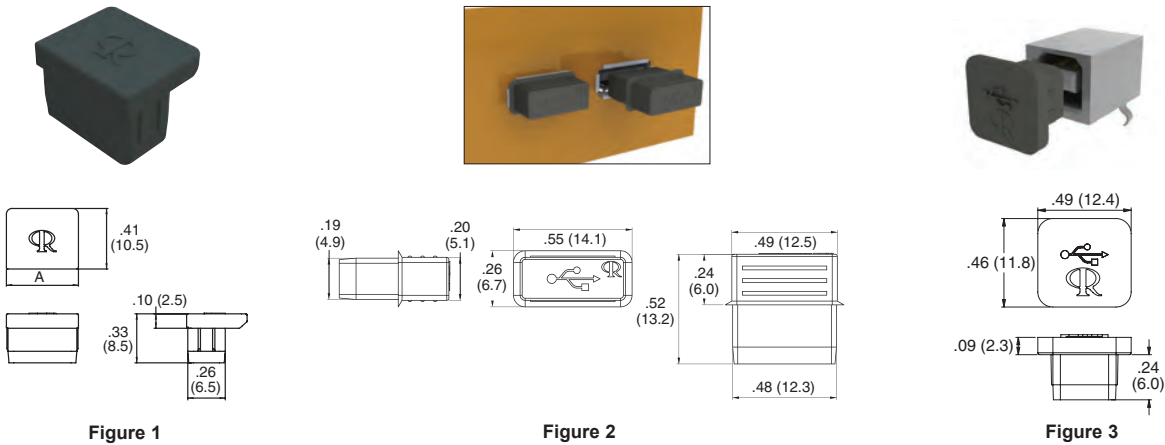
- Provides environmental protection to various connectors
- Molded-on lanyard is attached to the connector to prevent loss of cover



Item No.	Contents	A		B		C		D		Bulk Pack Qty
		in	mm	in	mm	in	mm	in	mm	
EFA02-11-ASS	ST Connector Dust Cap	0.730	18.5	0.670	17.0	0.470	12.0	0.340	8.7	250
EFA02-13-ASS	FC Connector Dust Cap	0.730	18.5	0.670	17.0	0.600	15.3	0.470	12.0	250

CONNECTOR PLUGS & CAPS

CP Series
Connector Plugs



Specifications:

- Material: Silicone Rubber
- Color: Black

Features:

- No stress applied to the adapter's internal components upon entry
- Silicone material for high temperature applications up to 302°F (150°C)

Item No.	Figure	Connector Port	A		Bulk Pack Qty
			in	mm	
CP-RJ11	1	RJ11	0.410	10.5	1000
CP-RJ45	1	RJ45	0.490	12.5	1000
CP-USB-A	2	USB-A	—	—	1000
CP-USB-B	3	USB-B	—	—	1000

USB-A Series
USB Connector Caps

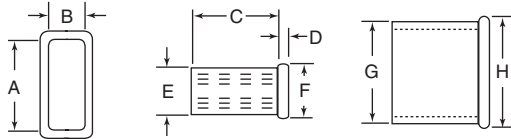


Specifications:

- Material: Polyethylene
- Color: Natural

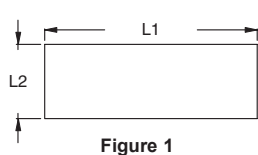
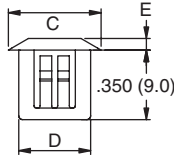
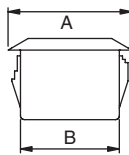
Features:

- Protective dust cover for USB-A connectors



Item No.	A		B		C		D		E		F		G		H		Bulk Pack Qty
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	
USB0A	0.504	12.8	0.185	4.7	0.484	12.3	0.043	1.1	0.256	6.5	0.299	7.6	0.575	14.6	0.610	15.5	100

BPE Series
Connector Port Plugs



Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: See Table

Features:

- Aesthetically pleasing, blanking off redundant connector parts
- Quick and easy installation; simply press fit in the designated hole
- ST Series covers Double-D, D or round holes

Recommended Mounting Holes

Item No.	Color	Mounting Hole Figure	L1		L2		A		B		C		D		E		Bulk Pack Qty
			in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	
BPE-SC-1-01	Black	1	0.512	13.0	0.374	9.5	0.850	21.5	0.500	12.8	0.470	12.0	0.370	9.3	0.059	1.5	1000
BPE-SC-2-01	Black	1	0.512	13.0	0.374	9.5	0.630	16.0	0.500	12.8	0.470	12.0	0.370	9.3	0.059	1.5	1000
BPE-SC-3-01	Black	1	1.024	26.0	0.374	9.5	1.370	34.8	1.020	25.8	0.470	12.0	0.370	9.3	0.059	1.5	1000
BPE-RJ45-01	Grey	1	0.760 - 0.790	19.3 - 20.0	0.590	15.0	0.870	22.0	0.580	14.7	0.700	17.7	0.750	19.1	0.059	1.5	1000
BPE-LC-D-01BK	Black	1	0.532	13.5	0.532	13.5	0.590	15.0	0.520	13.2	0.590	15.0	0.520	13.2	0.078	2.0	1000
BPE-ST-1-01	Black	2	0.370	19.4	0.311	7.9	Ø.470	Ø12	Ø.360	Ø9.2	Ø.470	Ø12	0.300	7.7	0.059	1.5	1000

SHEET METAL PLUGS

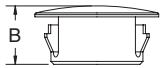
PGM/62MP Series
Standard Locking Hole Plugs

Specifications:

- Material: 62MP: UL94 V-2 Heat Stabilized Nylon 6
- Material: PGM: UL94 V-2 Nylon 6/6
- Color: See Table

Features:

- Each part fits multiple common sheet metal thicknesses
- Closes access sheet metal panel holes



Item No.			Ø Mounting Hole		Max Panel Thickness		OD A		Overall Height B		Bulk Pack Qty
Black	White	Approval	in	mm	in	mm	in	mm	in	mm	
62MP0187	62MP0187W	UL	0.187	4.8	0.062	1.6	0.250	6.4	0.234	5.9	1000
62MP0250	62MP0250W	UL	0.250	6.4	0.062	1.6	0.312	7.9	0.312	7.9	1000
PGM-6	—	—	0.252	6.4	0.067	1.7	0.299	7.6	0.221	5.6	1000
PGM-7	—	—	0.278	7.1	0.063	1.6	0.433	11.0	0.276	7.0	1000
62MP0312	62MP0312W	UL	0.312	7.9	0.062	1.6	0.375	9.5	0.312	7.9	1000
62MP0375	62MP0375W	UL	0.375	9.5	0.125	3.2	0.468	11.9	0.406	6.4	1000
PGM-9	—	—	0.376	9.6	0.047	1.2	0.511	13.0	0.256	6.5	1000
PGM-10	—	—	0.386	9.8	0.055	1.4	0.511	13.0	0.236	6.0	1000
62MP0437	62MP0437W	UL	0.437	11.1	0.125	3.2	0.531	13.5	0.406	10.3	1000
PGM-3	—	—	0.468	11.9	0.062	1.6	0.531	13.5	0.250	6.4	1000
62MP0500	62MP0500W	UL	0.500	12.7	0.125	3.2	0.578	14.7	0.406	10.3	1000
PGM-13	—	—	0.506	12.8	0.083	2.1	0.669	17.0	0.315	8.0	1000
PGM-11	—	—	0.531	13.5	0.062	1.6	0.593	15.1	0.250	6.4	500
62MP0562	62MP0562W	UL	0.562	14.3	0.125	3.2	0.656	16.7	0.406	10.3	200
62MP0625	62MP0625W	UL	0.625	15.9	0.125	3.2	0.718	18.2	0.406	10.3	1000
PGM-16	—	—	0.628	16.0	0.079	2.0	0.787	20.0	0.315	8.0	500
62MP0687	62MP0687W	UL	0.687	17.5	0.125	3.2	0.781	19.8	0.406	10.3	200
62MP0750	62MP0750W	UL	0.746	19.0	0.125	3.2	0.925	23.5	0.413	10.5	500
PGM-15	—	—	0.781	19.8	0.062	1.6	0.890	22.6	0.250	6.4	500
62MP0812	62MP0812W	UL	0.812	20.6	0.125	3.2	0.890	22.6	0.406	10.3	1000
62MP0875	62MP0875W	UL	0.875	22.2	0.125	3.2	1.125	28.6	0.453	11.5	200
62MP1000	62MP1000W	UL	1.004	25.5	0.125	3.2	1.102	28.0	0.500	12.7	200
62MP1093	62MP1093W	UL	1.097	27.9	0.125	3.2	1.218	30.9	0.465	11.8	200
62MP1187	62MP1187W	UL	1.187	30.1	0.125	3.2	1.315	33.4	0.453	11.5	500
PGM-30	—	—	1.203	30.6	0.125	3.2	1.339	34.0	0.512	13.0	200
62MP1250	62MP1250W	UL	1.250	31.8	0.125	3.2	1.375	34.9	0.465	11.8	200
62MP1250A	62MP1250AW	UL	1.250	32.0	0.125	3.2	1.500	38.0	0.453	11.5	500
62MP1375	62MP1375W	UL	1.375	35.0	0.125	3.2	1.500	38.1	0.465	11.8	200
62MP1500	62MP1500W	UL	1.500	38.1	0.125	3.2	1.671	42.4	0.465	11.8	200
62MP1750	62MP1750W	UL	1.750	44.5	0.125	3.2	1.906	48.4	0.465	11.8	100
62MP2000	62MP2000W	UL	2.000	50.8	0.125	3.2	2.170	55.1	0.470	11.9	100
62MP2250	62MP2250W	UL	2.250	57.1	0.250	6.3	2.422	61.5	0.750	19.0	100
62MP2500	62MP2500W	UL	2.500	63.5	0.250	6.4	2.775	70.5	0.750	19.1	500
62MP3000	62MP3000W	UL	3.000	76.2	0.250	6.3	3.171	80.5	0.720	18.2	100
62MP3375	62MP3375W	UL	3.375	85.7	0.250	6.3	3.656	92.8	0.725	18.4	100
62MP3500	62MP3500W	UL	3.500	88.9	0.250	6.3	3.660	92.9	0.750	19.0	100
62MP4000	62MP4000W	UL	4.000	101.6	0.250	6.3	4.156	105.5	0.765	19.4	50

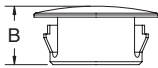
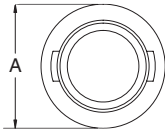
62MPS Series
Mini Locking Hole Plugs

Specifications:

- Material: UL94 V-2 Heat Stabilized Nylon 6
- Color: See Table

Features:

- Used to close excess chassis holes, wiring outlets and production access holes
- Designed with multiple locks to positively snap in panel thickness of 1/16"
- Suitable for critical or elevated temperature applications



Item No.		Ø Mounting Hole		Panel Thickness		Ø A		B		Bulk Pack Qty
Black	White	in	mm	in	mm	in	mm	in	mm	
62MPS0312	62MPS0312W	0.312	7.9	0.062	1.6	0.375	9.5	0.234	5.9	1000
62MPS0343	62MPS0343W	0.343	8.7	0.062	1.6	0.410	10.4	0.250	6.4	1000
62MPS0375	62MPS0375W	0.375	9.5	0.062	1.6	0.468	11.9	0.250	6.4	1000
62MPS0500	62MPS0500W	0.500	12.7	0.062	1.6	0.578	14.7	0.250	6.4	1000
62MPS0625	62MPS0625W	0.625	15.9	0.062	1.6	0.718	18.2	0.250	6.4	1000
62MPS0750	62MPS0750W	0.750	19.1	0.062	1.6	0.922	23.4	0.250	6.4	1000
62MPS0875	62MPS0875W	0.875	22.2	0.062	1.6	1.016	25.8	0.250	6.4	1000

SHEET METAL PLUGS

62MPKOP Series
Knock Out Plugs

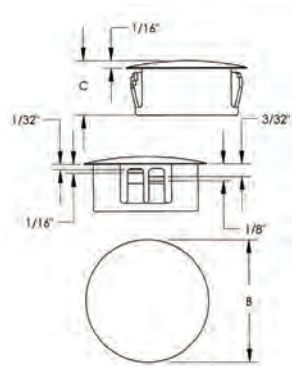


Specifications:

- Material: UL94 V-2 Heat Stabilized Nylon 6
- Color: Gray

Features:

- Molded in Gray Nylon to blend in with galvanized steel
- Economical plugs lock firmly into five trade size holes with panel thickness up to 1/8"
- No tools required, installs with fingertip pressure



Item No.	Ø Hole		Panel Thickness		Ø B		C		Bulk Pack Qty
	in	mm	in	mm	in	mm	in	mm	
62MP0875KOP	0.875	22.2	0.125	3.2	1.016	25.8	0.453	11.5	1000
62MP1093KOP	1.093	27.8	0.125	3.2	1.222	31.0	0.453	11.5	500
62MP1375KOP	1.375	34.9	0.125	3.2	1.500	38.1	0.453	11.5	500
62MP1500KOP	1.500	38.1	0.125	3.2	1.692	42.4	0.453	11.5	250
62MP1750KOP	1.750	44.5	0.125	3.2	1.925	48.8	0.453	11.5	250
62MP2000KOP	2.000	50.8	0.125	3.2	2.140	54.4	0.453	11.5	250

62PP Series
Hole Plugs

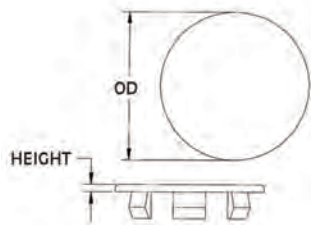


Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: See Table

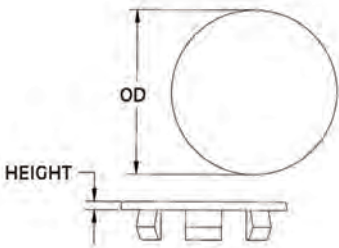
Features:

- Used to close excess chassis holes, wiring outlets and production access holes
- Resistant to corrosion, vibration and abrasion
- Designed with special flexible and tapered prongs which snugly lock in place with finger pressure
- Can be removed and reused when necessary



Item No.		Head Style	Finish	Ø Mounting Hole		Panel Thickness		Ø Head		Head Height		Bulk Pack Qty
Natural	Black			in	mm	in	mm	in	mm	in	mm	
62PP012BG09	62PP012BG09B	Binder	Smooth	0.125	3.2	0.031 - 0.094	0.8 - 2.4	0.203	5.2	0.040	1.0	1000
62PP015BG09	62PP015BG09B	Binder	Smooth	0.150	3.8	0.031 - 0.094	0.8 - 2.4	0.250	6.4	0.040	1.0	1000
62PP018BG10	62PP018BG10B	Binder	Smooth	0.187	4.8	0.031 - 0.100	0.8 - 2.5	0.344	8.7	0.040	1.0	1000
62PP018BG14	62PP018BG14B	Binder	Smooth	0.187	4.8	0.031 - 0.140	0.8 - 3.6	0.344	8.7	0.040	1.0	1000
62PP018BM08	62PP018BM08B	Binder	Matte	0.187	4.8	0.031 - 0.050	0.8 - 1.3	0.344	8.7	0.040	1.0	1000
62PP018BM14	62PP018BM14B	Binder	Matte	0.187	4.8	0.031 - 0.140	0.8 - 3.6	0.344	8.7	0.040	1.0	1000
62PP022RG06	62PP022RG06B	Dome	Smooth	0.218	5.5	0.031 - 0.062	0.8 - 1.6	0.375	9.5	0.250	6.4	1000
62PP022RG09	62PP022RG09B	Dome	Smooth	0.218	5.5	0.031 - 0.094	0.8 - 2.4	0.375	9.5	0.250	6.4	1000
62PP025BG06	62PP025BG06B	Binder	Smooth	0.250	6.4	0.031 - 0.062	0.8 - 1.6	0.422	10.7	0.040	1.0	1000
62PP025BM06	62PP025BM06B	Binder	Matte	0.250	6.4	0.031 - 0.062	0.8 - 1.6	0.422	10.7	0.040	1.0	1000
62PP031BG14	62PP031BG14B	Binder	Smooth	0.312	7.9	0.031 - 0.140	0.8 - 3.6	0.453	11.5	0.055	1.4	1000
62PP031BM14	62PP031BM14B	Binder	Matte	0.312	7.9	0.031 - 0.140	0.8 - 3.6	0.453	11.5	0.055	1.4	1000
62PP031BM15	62PP031BM15B	Binder	Matte	0.315	8.0	0.047 - 0.156	1.2 - 4.1	0.500	12.7	0.080	2.0	500
62PP037BG14	62PP037BG14B	Binder	Smooth	0.375	9.5	0.031 - 0.140	0.8 - 3.6	0.672	17.1	0.062	1.6	500
62PP037BG31	62PP037BG31B	Binder	Smooth	0.375	9.5	0.031 - 0.140	0.8 - 3.6	0.578	14.7	0.055	1.4	1000
62PP037BM31	62PP037BM31B	Binder	Matte	0.375	9.5	0.031 - 0.140	0.8 - 3.6	0.578	14.7	0.055	1.4	500
62PP043BG17	62PP043BG17B	Binder	Smooth	0.437	11.1	0.031 - 0.171	0.8 - 4.3	0.609	15.5	0.055	1.4	500
62PP043BM17	62PP043BM17B	Binder	Matte	0.437	11.1	0.031 - 0.171	0.8 - 4.3	0.609	15.5	0.055	1.4	500
62PP048BM12	62PP048BM12B	Binder	Matte	0.480	12.2	0.031 - 0.039	0.8 - 1.0	0.578	14.7	0.055	1.4	1000
62PP050BG14	62PP050BG14B	Binder	Smooth	0.500	12.7	0.031 - 0.140	0.8 - 3.6	0.672	17.1	0.062	1.6	500
62PP050BM14	62PP050BM14B	Binder	Matte	0.500	12.7	0.031 - 0.140	0.8 - 3.6	0.672	17.1	0.062	1.6	500
62PP056BG14	62PP056BG14B	Binder	Smooth	0.562	14.3	0.031 - 0.140	0.8 - 3.6	0.734	18.6	0.062	1.6	1000
62PP056BM14	62PP056BM14B	Binder	Matte	0.562	14.3	0.031 - 0.140	0.8 - 3.6	0.734	18.6	0.062	1.6	1000
62PP062BG07	62PP062BG07B	Binder	Smooth	0.625	15.9	0.031 - 0.072	0.8 - 1.8	0.797	20.2	0.062	1.6	500
62PP062BM07	62PP062BM07B	Binder	Matte	0.625	15.9	0.031 - 0.072	0.8 - 1.8	0.797	20.2	0.062	1.6	500
62PP068BG10	62PP068BG10B	Binder	Smooth	0.687	17.5	0.031 - 0.109	0.8 - 2.8	0.891	22.6	0.062	1.6	1000
62PP068BM10	62PP068BM10B	Binder	Matte	0.687	17.5	0.031 - 0.109	0.8 - 2.8	0.891	22.6	0.062	1.6	1000
62PP075BG11	62PP075BG11B	Binder	Smooth	0.750	19.1	0.031 - 0.109	0.8 - 2.8	0.984	25.0	0.062	1.6	1000
62PP075BM11	62PP075BM11B	Binder	Matte	0.750	19.1	0.031 - 0.109	0.8 - 2.8	0.984	25.0	0.062	1.6	500
62PP078BG09	62PP078BG09B	Binder	Smooth	0.787	20.0	0.059 - 0.080	1.5 - 2.0	0.984	25.0	0.062	1.6	1000
62PP078BM09	62PP078BM09B	Binder	Matte	0.787	20.0	0.059 - 0.080	1.5 - 2.0	0.984	25.0	0.062	1.6	1000
62PP081BG11	62PP081BG11B	Binder	Smooth	0.812	20.6	0.031 - 0.109	0.8 - 2.8	1.031	26.2	0.062	1.6	1000
62PP081BM11	62PP081BM11B	Binder	Matte	0.812	20.6	0.031 - 0.109	0.8 - 2.8	1.031	26.2	0.062	1.6	1000
62PP087BG11	62PP087BG11B	Binder	Smooth	0.875	22.2	0.031 - 0.109	0.8 - 2.8	1.078	27.4	0.062	1.6	500
62PP087BM11	62PP087BM11B	Binder	Matte	0.875	22.2	0.031 - 0.109	0.8 - 2.8	1.078	27.4	0.062	1.6	500
62PP100BG11	62PP100BG11B	Binder	Smooth	1.000	25.4	0.031 - 0.109	0.8 - 2.8	1.219	31.0	0.062	1.6	500
62PP100BM11	62PP100BM11B	Binder	Matte	1.000	25.4	0.031 - 0.109	0.8 - 2.8	1.219	31.0	0.062	1.6	500

62PPM Series
Metric Hole Plugs



Specifications:

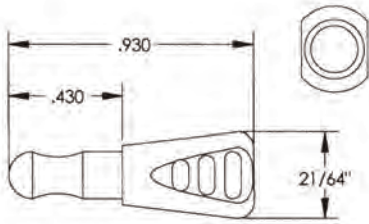
- Material: UL94 V-2 Nylon 6/6
- Color: See Table

Features:

- Used to close excess chassis holes, wiring outlets and production access holes
- Resistant to corrosion, vibration and abrasion
- Designed with special flexible and tapered prongs which snugly lock in place with finger pressure
- Can be removed and reused when necessary

Item No.		Ø Mounting Hole	Panel Thickness	OD	Head Height	Bulk Pack Qty
Natural	Black	mm	mm	mm	mm	
62PPM06BM16	62PPM06BM16B	6.0	0.8 - 1.6	10.0	2.0	1000
62PPM08BM35	62PPM08BM35B	8.0	0.8 - 3.5	12.0	2.0	1000
62PPM10BM35	62PPM10BM35B	10.0	0.8 - 3.5	14.0	2.0	1000
62PPM12BM35	62PPM12BM35B	12.0	0.8 - 3.5	16.0	2.0	500
62PPM14BM35	62PPM14BM35B	14.0	0.8 - 3.5	18.0	2.0	500
62PPM16BM35	62PPM16BM35B	16.0	0.8 - 3.5	20.0	2.0	500
62PPM18BM40	62PPM18BM40B	18.0	0.8 - 4.0	22.0	2.0	1000
62PPM20BM40	62PPM20BM40B	20.0	0.8 - 4.0	26.0	2.0	1000
62PPM22BM40	62PPM22BM40B	22.0	0.8 - 4.0	27.8	2.0	500
62PPM24BM40	62PPM24BM40B	24.0	0.8 - 4.0	28.0	2.0	500
62PPM26BM40	62PPM26BM40B	26.0	0.8 - 4.0	30.0	2.0	500

DP Series
Dummy Plugs



Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Black

Features:

- Easy installation and removal for the addition of electrical accessories
- Prevents short circuits due to harness movement
- Resists corrosion, vibration and abrasion

Item No.	Bulk Pack Qty
DP401030	1000



GROMMETS

GRD/DG/DGB Series
Diaphragm Grommets



Figure 1



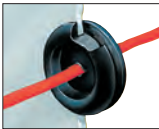
Figure 2

Specifications:

- Material: GRD/DG: Flexible PVC
DGB: UL94 HB TPE
- Color: Black

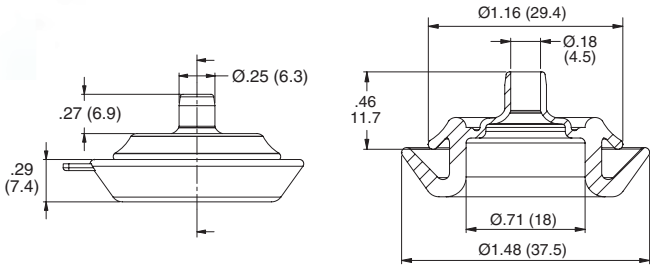
Features:

- Use as a blanking plugs to conceal access holes until wire are installed
- To install wires, pierce the central membrane film and insert wire
- Design allows for multiple ranges of wires to pass thru
- PVC material is non-staining; resistant to ozone, acids, and sunlight; with excellent aging qualities



Item No.	Figure	Ø Mounting Hole A		Panel Thickness		C Ref.		OD		E		Bulk Pack Qty
		in	mm	in	mm	in	mm	in	mm	in	mm	
DGB-2.5	2	0.25	6.4	0.03	0.8	0.16	4.1	0.37	9.4	0.14	3.6	1000
DGB-4	2	0.39	9.9	0.06	1.5	0.25	6.4	0.50	12.7	0.26	6.6	1000
DGB-6	2	0.43	11.0	0.06	1.5	0.31	8.0	0.69	17.5	0.31	8.0	1000
DGB-5	2	0.49	12.5	0.06	1.5	0.37	9.5	0.62	15.7	0.25	6.4	1000
DG-19426	1	0.63	16.0	0.06	1.5	0.43	11.0	0.75	19.0	0.23	5.8	1000
DGB-7	2	0.63	16.0	0.06	1.5	0.43	11.0	0.75	19.0	0.31	8.0	1000
GRD1062091PA	1	0.63	16.0	0.09	2.4	0.49	12.5	0.87	22.0	0.32	8.0	5000
GRD2075061PA	2	0.75	19.0	0.06	1.5	0.63	16.0	1.00	25.4	0.28	7.0	4000
DGB-11	2	0.75	19.0	0.06	1.5	0.63	16.0	1.00	25.4	0.28	7.0	1000
DG-15512	1	0.75	19.0	0.08	2.0	0.63	15.9	1.00	25.5	0.31	7.9	1000
DG-10134	1	0.75	19.0	0.09	2.4	0.61	15.5	1.00	25.5	0.35	8.8	1000
GRD1075121PA	1	0.75	19.0	0.12	3.0	0.61	15.5	1.00	25.5	0.37	9.5	2500
DG-10187	1	0.79	20.0	0.06	1.5	0.61	15.5	1.00	25.5	0.32	8.0	1000
DGB-10	2	0.87	22.0	0.06	1.5	0.72	18.4	1.00	25.5	0.31	8.0	1000
GRD2087061PA	2	0.87	22.0	0.06	1.5	0.74	18.8	1.00	25.5	0.31	8.0	4000
DGB-13	2	1.00	25.4	0.06	1.5	0.81	20.5	1.18	30.0	0.31	8.0	1000
GRD2100061PA	2	1.00	25.4	0.06	1.5	0.81	20.5	1.18	30.0	0.31	8.0	2000
GRD1100091PA	1	1.00	25.5	0.09	2.4	0.75	19.0	1.44	36.5	0.33	8.4	2000
GRD1125091PA	1	1.26	32.0	0.09	2.4	0.98	25.0	1.54	39.0	0.32	8.0	1000
GRD1125151PA	1	1.26	32.0	0.16	4.0	1.00	25.5	1.54	39.0	0.38	9.5	1000
DG-20	1	1.46	37.1	0.08	2.0	1.14	29.0	1.73	44.0	0.35	9.0	1000
GRD21625375PA	2	1.63	42.0	0.09	2.4	1.22	31.0	1.93	49.0	0.40	10.1	1000

AHG Series
Angular Hole Grommets



Specifications:

- Materials: EPDM, 60 Shore A
- Color: Black

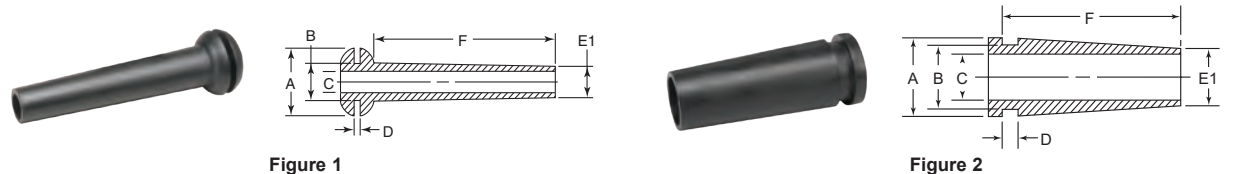
Features:

- Allows cables to pass through a panel at a maximum 45° angle

Item No.	Ø Cable Size		Panel Thickness D		Ø Mounting Hole		Bulk Pack Qty
	in	mm	in	mm	in	mm	
AHG-1	0.197 - 0.276	5.0 - 7.0	0.079 - 0.098	2.0 - 2.5	0.945	24.0	500

GROMMETS & GROMMET SLEEVES

GRS/RGS Series
Grommet Sleeves

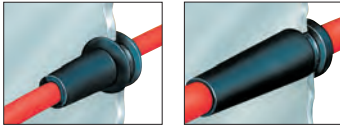


Specifications:

- Material: Flexible PVC
- Color: Black

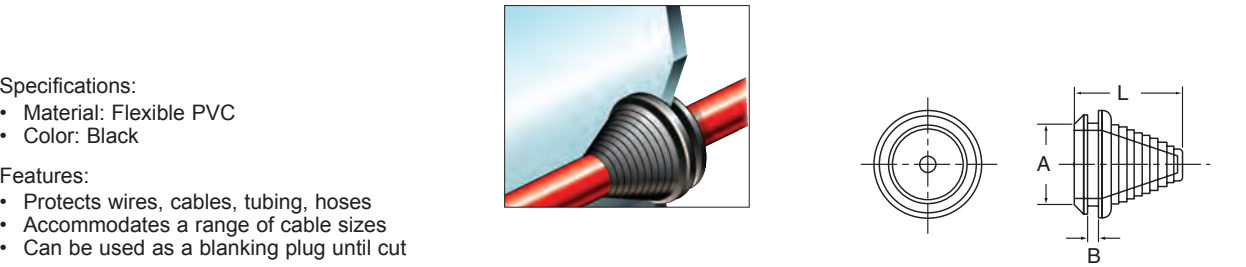
Features:

- Sleeve design provides additional support and protection for cables/wires passing through panel
- PVC is non-staining; resistant to ozone, acids, and sunlight; with excellent aging qualities



Item No.	Figure	Ø Hole B		Panel Thickness D		Ø A		Ø C		E1		F		Bulk Pack Qty
		in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	
GRS1030151A	1	0.300	7.6	0.156	4.0	0.560	14.2	0.240	6.1	0.311	7.9	1.250	31.8	5000
RGS1-60466	1	0.343	8.7	0.062	1.6	0.560	14.2	0.200	5.1	0.280	7.1	1.650	42.0	2000
GRS1037091A	1	0.374	9.5	0.094	2.4	0.560	14.2	0.250	6.4	0.311	7.9	0.562	14.3	10000
RGS2-12462	2	0.500	12.7	0.125	3.2	0.595	15.1	0.375	9.5	0.468	11.9	1.398	35.5	1000
RGS2-51409	2	0.500	12.7	0.031	0.8	0.750	19.1	0.381	9.7	0.480	12.2	1.055	26.8	1000

GRC Series
Stepped Grommets



Specifications:

- Material: Flexible PVC
- Color: Black

Features:

- Protects wires, cables, tubing, hoses
- Accommodates a range of cable sizes
- Can be used as a blanking plug until cut

Item No.	Panel Hole Size A		Panel Thickness B		Length L		Cable Range		Bulk Pack Qty
	in	mm	in	mm	in	mm	in	mm	
1251347	0.500	12.7	0.120	3.0	1.270	32.5	0.200 - 0.350	5.0 - 9.0	1000
1251348	0.830	21.0	0.120	3.0	1.080	27.5	0.200 - 0.670	5.0 - 17.0	1000

HG Series
TPE Flexible Hole Grommets



Specifications:

- Material: UL94 HB TPE
- Color: Black
- Temperature Range: -58°F to 203°F (-50°C - 95°C)

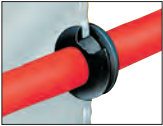
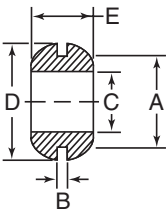
Features:

- Suitable for outdoor use in accordance with UL 746C

Item No.	Mounting Hole H		Panel Thickness P		ID		OD		Thickness T		Bulk Pack Qty
	in	mm	in	mm	in	mm	in	mm	in	mm	
HG-2	0.190	4.8	0.063	1.6	0.125	3.2	0.313	8.0	0.252	6.4	1000
HG-2.5	0.252	6.4	0.063	1.6	0.156	4.0	0.375	9.5	0.248	6.3	1000
HG-3	0.305	7.7	0.032	0.8	0.188	4.8	0.430	10.9	0.188	4.8	1000
HG-3.5	0.315	8.0	0.063	1.6	0.219	5.5	0.430	10.9	0.217	5.5	1000
HG-4	0.375	9.5	0.094	2.4	0.250	6.4	0.559	14.2	0.276	7.0	1000
HG-5	0.430	10.9	0.063	1.6	0.313	8.0	0.562	14.3	0.188	4.8	1000
HG-17	0.433	11.0	0.079	2.0	0.313	8.0	0.630	16.0	0.276	7.0	1000
HG-6	0.492	12.5	0.063	1.6	0.375	9.5	0.669	17.0	0.276	7.0	1000
HG-8	0.660	16.8	0.063	1.6	0.495	12.6	0.846	21.5	0.250	6.4	1000
HG-9	0.675	17.1	0.063	1.6	0.558	14.2	0.875	22.2	0.188	4.8	1000
HG-11	0.735	18.7	0.063	1.6	0.672	17.1	0.933	23.7	0.188	4.8	1000
HG-10	0.742	18.8	0.063	1.6	0.610	15.5	0.875	22.2	0.219	5.6	1000
HG-18	0.748	19.0	0.094	2.4	0.500	12.7	0.954	24.0	0.280	7.1	1000
HG-12	0.976	24.8	0.063	1.6	0.734	18.6	1.234	31.3	0.313	8.0	1000
HG-14	0.990	25.1	0.063	1.6	0.860	21.8	1.188	30.2	0.313	8.0	1000
HG-16	1.240	31.5	0.063	1.6	0.970	24.6	1.500	38.1	0.313	8.0	1000

GROMMETS

GRO Series
Flexible Hole Grommets

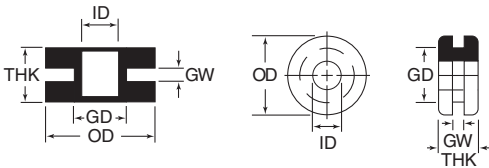


- Specifications:
- Material: See Table
 - Color: Black

- Features:
- Standard PVC material is non-staining; resistant to ozone, acids, and sunlight; with excellent aging qualities

Item No.		Panel Hole Size A		Panel Thickness B		ID C		OD D		Overall Height E		PVC Shore A Rating	Bulk Pack Qty
PVC	TPR	in	mm	in	mm	in	mm	in	mm	in	mm		
GRO018031A	15057	0.188	4.8	0.031	0.8	0.109	2.8	0.315	8.0	0.188	4.8	55	10000
GRO018061A	15058	0.188	4.8	0.063	1.6	0.125	3.2	0.315	8.0	0.250	6.4	55	10000
GRO023041A	—	0.234	6.0	0.047	1.2	0.125	3.2	0.346	8.8	0.156	4.0	55	10000
GRO025031A	15060	0.252	6.4	0.031	0.8	0.156	4.0	0.375	9.5	0.156	4.0	43	10000
GRO025061A	15059	0.252	6.4	0.063	1.6	0.156	4.0	0.375	9.5	0.248	6.3	55	10000
—	15061	0.252	6.4	0.063	1.6	0.188	4.8	0.375	9.5	0.276	7.0	—	10000
GRO025062A	—	0.252	6.4	0.063	1.6	0.188	4.8	0.375	9.5	0.281	7.1	55	10000
GRO025121A	15062	0.252	6.4	0.118	3.0	0.156	4.0	0.375	9.5	0.315	8.0	43	10000
GRO028091A	—	0.281	7.1	0.094	2.4	0.188	4.8	0.438	11.1	0.281	7.1	55	10000
GRO031121A	—	0.313	7.9	0.063	1.6	0.118	3.0	0.433	11.0	0.315	8.0	55	10000
—	15064	0.315	8.0	0.031	0.8	0.188	4.8	0.433	11.0	0.188	4.8	55	10000
GRO031031A	—	0.315	8.0	0.031	0.8	0.188	4.8	0.433	11.0	0.188	4.8	55	10000
GRO031061A	—	0.315	8.0	0.031	0.8	0.216	5.5	0.433	11.0	0.216	5.5	43	10000
GRO031041A	—	0.315	8.0	0.047	1.2	0.219	5.6	0.438	11.1	0.156	4.0	55	10000
—	15065	0.315	8.0	0.063	1.6	0.216	5.5	0.433	11.0	0.216	5.5	—	10000
—	15072	0.375	9.5	0.014	1.2	0.276	7.0	0.543	13.8	0.156	4.0	—	10000
—	15067	0.375	9.5	0.063	1.6	0.188	4.8	0.492	12.5	0.268	6.8	—	10000
GRO037061A	15069	0.375	9.5	0.063	1.6	0.250	6.4	0.559	14.2	0.250	6.4	55	10000
GRO037091A	—	0.375	9.5	0.063	1.6	0.250	6.4	0.559	14.2	0.276	7.0	55	10000
—	15073	0.375	9.5	0.063	1.6	0.315	8.0	0.559	14.2	0.188	4.8	—	10000
—	15074	0.375	9.5	0.063	1.6	0.315	8.0	0.559	14.2	0.315	8.0	—	10000
—	15068	0.375	9.5	0.095	2.4	0.250	6.4	0.559	14.2	0.276	7.0	—	10000
—	15071	0.402	10.2	0.047	1.2	0.276	7.0	0.543	13.8	0.177	4.5	—	10000
GRO040061A	—	0.406	10.3	0.063	1.6	0.283	7.2	0.563	14.3	0.156	4.0	55	10000
GRO043061A	15075	0.433	11.0	0.063	1.6	0.315	8.0	0.559	14.2	0.188	4.8	55	10000
—	15076	0.433	11.0	0.063	1.6	0.315	8.0	0.559	14.2	0.315	8.0	—	10000
—	15078	0.433	11.0	0.063	1.6	0.315	8.0	0.630	16.0	0.250	6.4	—	10000
GRO046071A	—	0.469	11.9	0.078	2.0	0.378	9.6	0.688	17.5	0.266	6.8	55	10000
—	15079	0.492	12.5	0.063	1.6	0.250	6.4	0.630	16.0	0.315	8.0	—	10000
—	15080	0.492	12.5	0.063	1.6	0.315	8.0	0.630	16.0	0.250	6.4	—	10000
GRO050061A	15084	0.492	12.5	0.063	1.6	0.375	9.5	0.669	17.0	0.276	7.0	55	10000
—	15086	0.492	12.5	0.063	1.6	0.433	11.0	0.478	19.0	0.250	6.4	—	10000
GRO050121A	15081	0.492	12.5	0.118	3.0	0.315	8.0	0.630	16.0	0.315	8.0	55	10000
GRO050122A	15083	0.492	12.5	0.118	3.0	0.375	9.5	0.669	17.0	0.346	8.8	55	10000
GRO056061A	15087	0.559	14.2	0.063	1.6	0.433	11.0	0.748	19.0	0.250	6.4	55	10000
GRO062031A	—	0.625	15.9	0.031	0.8	0.438	11.1	0.748	19.0	0.375	9.5	55	10000
GRO062041A	15089	0.629	16.0	0.047	1.2	0.493	12.5	0.807	20.5	0.276	7.0	55	10000
GRO068031A	—	0.688	17.5	0.031	0.8	0.563	14.3	0.875	22.2	0.281	7.1	55	10000
GRO068061A	15090	0.688	17.5	0.063	1.6	0.493	12.5	0.866	22.0	0.250	6.4	55	8000
GRO068062A	—	0.688	17.5	0.063	1.6	0.559	14.2	0.866	22.0	0.188	4.8	55	10000
—	15096	0.748	19.0	0.063	1.6	0.492	12.5	1.004	25.5	0.250	6.4	—	2500
GRO075061A	—	0.748	19.0	0.063	1.6	0.629	16.0	0.866	22.0	0.216	5.5	55	10000
—	15093	0.748	19.0	0.063	1.6	0.629	16.0	0.945	24.0	0.236	6.0	—	7000
GRO075062A	—	0.748	19.0	0.063	1.6	0.689	17.5	0.945	24.0	0.188	4.8	55	10000
—	15095	0.787	20.0	0.063	1.6	0.630	16.0	0.945	24.0	0.256	6.5	—	7000
GRO081041A	—	0.807	20.5	0.047	1.2	0.630	16.0	1.063	27.0	0.315	8.0	55	4000
-	15098	0.807	20.5	0.047	1.2	0.630	16.0	1.063	27.0	0.315	8.0	—	10000
GRO087121A	—	0.875	22.3	0.125	3.2	0.625	15.9	1.063	27.0	0.375	9.5	55	4000
GRO100041A	—	1.000	25.4	0.047	1.2	0.728	18.5	1.236	31.4	0.297	7.5	55	2000
GRO100061A	15099	1.000	25.4	0.063	1.6	0.728	18.5	1.236	31.4	0.315	8.0	55	4000
GRO100062A	—	1.000	25.2	0.063	1.6	0.866	22.0	1.181	30.0	0.315	8.0	55	4000
—	15101	1.000	25.5	0.063	1.6	0.866	22.0	1.181	30.0	0.315	8.0	—	10000
GRO100121A	-	1.000	25.4	0.125	3.2	0.750	19.1	1.250	31.8	0.375	9.5	55	2000
GRO125061A	15102	1.220	31.0	0.063	1.6	1.000	25.4	1.496	38.0	0.307	7.8	55	2000
GRO125121A	—	1.250	31.8	0.125	3.2	1.000	25.4	1.500	38.1	0.359	9.1	55	2000
GRO125031A	—	1.260	32.0	0.031	0.8	1.000	25.4	1.750	44.5	0.250	6.4	55	2000
GRO150061A	15105	1.457	37.0	0.063	1.6	1.228	31.2	1.791	45.5	0.375	9.5	55	1000
GRO150121A	15104	1.500	38.0	0.118	3.0	1.250	32.0	1.813	46.0	0.438	11.0	55	1000
GRO175061A	—	1.750	44.5	0.063	1.6	1.500	38.1	2.000	50.8	0.375	9.5	55	1000
GRO175121A	—	1.750	44.5	0.125	3.2	1.500	38.1	2.000	50.8	0.375	9.5	55	1000
GRO200061A	15106	2.000	50.0	0.063	1.6	1.750	45.0	2.375	60.0	0.406	10.0	55	500

GR Series
Rubber Hole Grommets

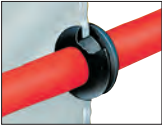


Specifications:

- Material: SBR (Styrene Butadiene) 60 Durometer
- Color: Black
- Tensile Range: 30 - 100psi
- Temperature Range: 225°F to -50°F (107°C to -46°C)

Features:

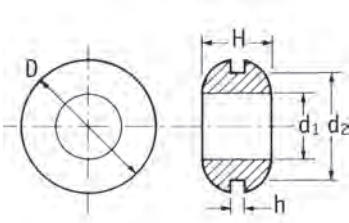
- Protects wires, cables, tubing, and hoses
- Installs instantly by simply snapping into hole
- Excellent adhesion, designed to fit standard sheet metal holes



Item No.	Panel Hole GD		Panel Thickness GW		ID		OD		Overall Thickness THK		Bulk Pack Qty
	in	mm	in	mm	in	mm	in	mm	in	mm	
GR3001A	0.250	6.4	0.063	1.6	0.125	3.2	0.344	8.7	0.188	4.8	15000
GR3041A	0.250	6.4	0.063	1.6	0.156	4.0	0.375	9.5	0.188	4.8	12000
GR3053A	0.281	7.2	0.094	2.4	0.188	4.8	0.438	11.1	0.219	5.6	8000
GR3081A	0.313	7.9	0.063	1.6	0.188	4.8	0.438	11.1	0.188	4.8	10000
GR3047A	0.313	7.9	0.063	1.6	0.219	5.6	0.438	11.1	0.188	4.8	15000
GR3146A	0.313	7.9	0.125	3.2	0.188	4.8	0.438	11.1	0.250	6.4	10000
GR3105A	0.313	7.9	0.250	6.4	0.188	4.8	0.438	11.1	0.375	9.5	5000
GR3165A	0.375	9.5	0.063	1.6	0.250	6.4	0.563	14.3	0.250	6.4	6000
GR3164A	0.375	9.5	0.094	2.4	0.250	6.4	0.500	12.7	0.250	6.4	5000
GR3166A	0.375	9.5	0.125	3.2	0.250	6.4	0.500	12.7	0.281	7.2	5000
GR3028A	0.375	9.5	0.188	4.8	0.188	4.8	0.625	15.9	0.375	9.5	3300
GR3009A	0.375	9.5	0.375	9.5	0.313	7.9	0.563	14.3	0.500	12.7	3000
GR3400A	0.406	10.3	0.125	3.2	0.266	6.8	0.625	15.9	0.375	9.5	6000
GR3002A	0.438	11.1	0.063	1.6	0.250	6.4	0.625	15.9	0.188	4.8	5000
GR3104A	0.438	11.1	0.094	2.4	0.313	7.9	0.625	15.9	0.313	7.9	4000
GR3127A	0.438	11.1	0.188	4.8	0.250	6.4	0.625	15.9	0.313	7.9	2500
GR3384A	0.465	11.8	0.095	2.4	0.250	6.4	0.765	19.4	0.294	7.5	5000
GR3027A	0.469	11.9	0.250	6.4	0.250	6.4	0.625	15.9	0.500	12.7	5000
GR3016A	0.500	12.7	0.125	3.2	0.375	9.5	0.625	15.9	0.406	10.3	7000
GR3250A	0.500	12.7	0.125	3.2	0.375	9.5	0.625	15.9	0.313	7.9	7000
GR3091A	0.500	12.7	0.188	4.8	0.250	6.4	0.625	15.9	0.438	11.1	3500
GR3033A	0.500	12.7	0.250	6.4	0.375	9.5	0.750	19.1	0.500	12.7	4800
GR3209A	0.500	12.7	0.375	9.5	0.375	9.5	0.625	15.9	0.625	15.9	5500
GR3017A	0.531	13.5	0.125	3.2	0.375	9.5	0.750	19.1	0.375	9.5	5000
GR3065A	0.563	14.3	0.063	1.6	0.313	7.9	0.813	20.6	0.313	7.9	4000
GR3035A	0.563	14.3	0.188	4.8	0.375	9.5	0.813	20.6	0.375	9.5	5000
GR3123A	0.563	14.3	0.375	9.5	0.375	9.5	0.750	19.1	0.750	19.1	2000
GR3076A	0.625	15.9	0.063	1.6	0.375	9.5	0.875	22.2	0.313	7.9	5000
GR3150A	0.625	15.9	0.125	3.2	0.375	9.5	0.875	22.2	0.375	9.5	4000
GR3110A	0.625	15.9	0.250	6.4	0.375	9.5	0.875	22.2	0.500	12.7	2700
GR3183A	0.625	15.9	0.375	9.5	0.406	10.3	0.813	20.6	0.625	15.9	2000
GR3131A	0.688	17.5	0.188	4.8	0.438	11.1	0.938	23.8	0.438	11.1	3000
GR3218A	0.750	19.1	0.156	4.0	0.500	12.7	0.938	23.8	0.406	10.3	3000
GR3132A	0.813	20.6	0.188	4.8	0.500	12.7	1.063	27.0	0.438	11.1	2000
GR3134A	0.813	20.6	0.188	4.8	0.563	14.3	1.063	27.0	0.438	11.1	1000
GR3113A	0.813	20.6	0.250	6.4	0.563	14.3	1.063	27.0	0.500	12.7	1500
GR3080A	0.875	22.2	0.063	1.6	0.625	15.9	1.125	28.6	0.313	7.9	2500
GR3155A	0.875	22.2	0.125	3.2	0.625	15.88	1.125	28.58	0.375	9.53	4800
GR3100A	0.875	22.2	0.188	4.8	0.563	14.3	1.063	27.0	0.438	11.1	2500
GR3135A	0.875	22.2	0.188	4.8	0.625	15.9	1.125	28.6	0.438	11.1	2000
GR3114A	0.875	22.2	0.250	6.4	0.625	15.9	1.125	28.6	0.500	12.7	1500
GR3101A	0.875	22.2	0.375	9.5	0.563	14.3	1.063	27.0	0.625	15.9	1500
GR3342A	0.969	24.6	0.375	9.5	0.688	17.5	1.313	33.3	0.625	15.9	1000
GR3068A	1.000	25.4	0.063	1.6	0.688	17.5	1.313	33.3	0.375	9.5	1500
GR3156A	1.000	25.4	0.125	3.2	0.688	17.5	1.313	33.3	0.438	11.1	1500
GR3136A	1.000	25.4	0.188	4.8	0.688	17.5	1.313	33.3	0.500	12.7	1000
GR3115A	1.000	25.4	0.250	6.4	0.688	17.5	1.313	33.3	0.563	14.3	1200
GR3390A	1.000	25.4	0.250	6.4	0.875	22.2	1.250	31.8	0.625	15.9	1000
GR3219A	1.000	25.4	0.266	6.8	0.500	12.7	1.375	34.9	0.500	12.7	1100
GR3031A	1.063	27.0	0.063	1.6	0.750	19.1	1.375	34.9	0.375	9.5	1500
GR3157A	1.063	27.0	0.125	3.2	0.750	19.1	1.375	34.9	0.438	11.1	1400
GR3137A	1.063	27.0	0.188	4.8	0.750	19.1	1.375	34.9	0.500	12.7	1000
GR3116A	1.063	27.0	0.250	6.4	0.750	19.1	1.375	34.9	0.563	14.3	1200
GR3246A	1.188	30.2	0.141	3.6	0.875	22.2	1.375	34.9	0.406	10.3	1800
GR3158A	1.250	31.8	0.125	3.2	0.750	19.1	1.625	41.3	0.313	7.9	1000
GR3160A	1.250	31.8	0.125	3.2	0.875	22.2	1.625	41.3	0.500	12.7	1000
GR3259A	1.250	31.8	0.125	3.2	0.875	22.2	1.562	39.7	0.750	19.1	550
GR3138A	1.250	31.8	0.188	4.8	0.875	22.2	1.625	41.3	0.563	14.3	500
GR3117A	1.250	31.8	0.250	6.4	0.750	19.1	1.625	41.3	0.438	11.1	1000
GR3118A	1.250	31.8	0.250	6.4	0.875	22.2	1.625	41.3	0.625	15.9	1000
GR3062A	1.250	31.8	0.250	6.4	1.000	25.4	1.500	38.1	0.500	12.7	1000
GR3410A	1.250	31.8	0.470	11.9	0.750	19.1	1.500	38.1	0.660	16.8	600
GR3072A	1.375	34.9	0.063	1.6	1.000	25.4	1.750	44.5	0.438	11.1	700
GR3161A	1.375	34.9	0.125	3.2	1.000	25.4	1.750	44.5	0.500	12.7	700
GR3139A	1.375	34.9	0.188	4.8	1.000	25.4	1.750	44.5	0.563	14.3	500
GR3119A	1.375	34.9	0.250	6.4	1.000	25.4	1.750	44.5	0.625	15.9	500
GR3064A	1.500	38.1	0.063	1.6	1.125	28.6	1.875	47.6	0.375	9.5	700
GR3180A	1.500	38.1	0.156	4.0	1.188	30.2	1.750	44.5	0.406	10.3	800
GR3262A	1.500	38.1	0.250	6.4	1.250	31.8	2.000	50.8	0.516	13.1	500
GR3267A	1.500	38.1	0.250	6.4	1.250	31.8	1.750	44.5	0.500	12.7	600
GR3087A	1.625	41.3	0.063	1.6	0.875	22.2	2.000	50.8	0.438	11.1	600
GR3383A	1.625	41.3	0.125	3.2	1.375	34.9	1.875	47.6	0.406	10.3	750
GR3266A	1.625	41.3	0.188	4.8	1.250	31.8	1.875	47.6	0.500	12.7	700
GR3173A	1.703	43.3	0.516	13.1	1.500	38.1	2.094	53.2	0.752	19.1	400
GR3073A	1.750	44.5	0.063	1.6	1.500	38.1	2.125	54.0	0.438	11.1	500
GR3409A	1.750	44.5	0.075	1.9	1.625	41.3	2.100	53.3	0.260	6.6	900
GR3163A	1.750	44.5	0.125	3.2	1.500	38.1	2.125	54.0	0.500	12.7	600
GR3141A	1.750	44.5	0.188	4.8	1.500	38.1	2.125	54.0	0.563	14.3	500
GR3121A	1.750	44.5	0.250	6.4	1.500	38.1	2.125	54.0	0.625	15.9	400
GR3295A	1.750	44.5	0.375	9.5	1.500	38.1	2.125	54.0	0.750	19.1	500
GR3301A	2.000	50.8	0.094	2.4	1.500	38.1	2.375	60.3	0.375	9.5	450
GR3239A	2.000	50.8	0.188	4.8	1.625	41.3	2.250	57.2	0.750	19.1	600
GR3296A	2.000	50.8	0.250	6.4	1.750	44.5	2.500	63.5	0.531	13.5	300
GR3334A	2.000	50.8	0.250	6.4	1.750	44.5	2.500	63.5	0.560	14.2	300
GR3145A	2.500	63.5	0.063	1.6	2.125	54.0	2.875	73.0	0.438	11.1	300
GR3318A	2.500	63.5	0.250	6.4	2.000	50.8	3.000	76.2	0.563	14.3	200
GR3404A	2.500	63.5	0.250	6.4	2.250	57.2	3.000	76.2	0.625	15.9	175
GR3405A	2.500	63.5	0.328	8.3	2.250	57.2	3.000	76.2	0.719	18.3	175
GR3406A	2.500	63.5	0.375	9.5	2.250	57.2	3.000	76.2	0.750	19.1	250

GROMMETS

Metric Hole Grommets



Item No.		Mounting Hole d2	Panel Hole Thickness h	d1	D	H	Bulk Pack Qty
PVC	EPDM	mm	mm	mm	mm	mm	
498021	498062	5.0	1.0	2.0	8.0	4.0	1000
498022	498063	5.0	1.5	2.0	8.0	4.5	1000
498023	498064	5.0	2.0	2.0	8.0	5.0	1000
498024	498065	5.0	1.0	3.0	8.0	4.0	1000
498025	498066	5.0	1.5	3.0	8.0	4.5	1000
498026	498067	5.0	2.0	3.0	8.0	5.0	1000
498027	498068	7.0	1.5	3.0	10.0	6.0	500
498028	498070	8.0	1.0	4.0	11.0	8.0	500
498029	498071	8.0	2.0	4.0	11.0	6.0	500
498030	498072	8.0	3.0	4.0	11.0	7.0	500
498031	498073	8.0	1.0	6.0	11.0	5.0	500
498032	498074	8.0	2.0	6.0	11.0	6.0	500
—	498075	9.0	1.0	6.0	12.0	5.0	500
—	498076	9.0	1.5	6.0	12.0	5.5	500
—	498077	9.0	2.0	6.0	12.0	6.0	500
—	498078	9.0	3.0	6.0	12.0	7.0	500
—	498079	9.0	4.0	6.0	12.0	8.0	500
498033	498080	10.0	1.0	6.0	14.0	6.0	500
498034	498081	10.0	1.5	6.0	14.0	6.5	500
498035	498082	10.0	2.0	6.0	14.0	7.0	500
498036	498083	10.0	3.0	6.0	14.0	8.0	500
498037	498084	10.0	1.0	8.0	14.0	6.0	500
498038	498085	10.0	1.5	8.0	14.0	6.5	500
498039	498086	10.0	2.0	8.0	14.0	7.0	500
498040	498087	10.0	3.0	8.0	14.0	8.0	500
—	498088	11.0	1.0	8.0	16.0	6.0	250
—	498089	11.0	2.0	8.0	16.0	7.0	250
—	498090	11.0	3.0	8.0	16.0	8.0	250
—	498091	11.0	4.0	8.0	16.0	9.0	250
498041	498092	12.0	1.0	8.0	16.0	6.0	250
498042	498093	12.0	2.0	8.0	16.0	7.0	250
498043	498094	12.0	3.0	8.0	16.0	8.0	250
498044	498095	12.0	4.0	8.0	16.0	9.0	250
498045	498096	12.0	1.0	10.0	16.0	6.0	250
498046	498097	12.0	1.5	10.0	16.0	6.5	250
498047	498098	12.0	2.0	10.0	16.0	7.0	250
498048	498099	12.0	3.0	10.0	16.0	8.0	250
—	498100	14.0	1.0	11.0	18.0	6.0	250
—	498101	14.0	2.0	11.0	18.0	7.0	250
—	498102	14.0	3.0	11.0	18.0	8.0	250
498049	498103	15.0	1.0	11.0	20.0	6.0	250
498050	498104	15.0	2.0	11.0	20.0	7.0	250
498051	498105	15.0	3.0	11.0	20.0	8.0	250
498052	498106	15.0	4.0	11.0	20.0	9.0	250
498053	498107	18.0	1.0	12.0	22.0	6.0	250
498054	498108	18.0	2.0	12.0	22.0	7.0	250
498055	498109	18.0	3.0	12.0	22.0	8.0	250
498056	498110	18.0	4.0	12.0	22.0	9.0	250
498057	498111	22.0	1.0	16.0	27.0	7.0	100
498058	498112	22.0	1.5	16.0	27.0	7.5	100
498059	498113	22.0	2.0	16.0	27.0	8.0	100
498060	498114	22.0	3.0	16.0	27.0	9.0	100
498061	498115	22.0	4.0	16.0	27.0	10.0	100
—	498116	27.0	1.0	21.0	34.0	9.0	50
—	498117	27.0	2.0	21.0	34.0	10.0	50
—	498118	27.0	3.0	21.0	34.0	11.0	50
—	498119	27.0	4.0	21.0	34.0	12.0	50
—	498120	40.0	1.0	31.0	48.0	12.0	25
—	498121	40.0	2.0	31.0	48.0	13.0	25
—	498122	40.0	3.0	31.0	48.0	14.0	25
—	498123	40.0	4.0	31.0	48.0	15.0	25
—	498124	52.0	1.0	41.0	60.0	13.0	10
—	498125	52.0	2.0	41.0	60.0	14.0	10
—	498126	52.0	3.0	41.0	60.0	15.0	10
—	498127	52.0	4.0	41.0	60.0	16.0	10

Specifications:

- Material: See Table
- Color: Black

Features:

- Protects wires, cables, tubing, and hoses
- Installs instantly by simply snapping into hole
- Excellent adhesion, designed to fit standard sheet metal holes
- EPDM is a heat resistant material for use in extreme temperature environments: -40° - 257°F

GROMMETS & BUSHINGS

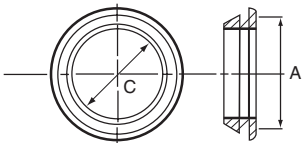
QFG Series
Quick Fit Flexible Grommets

Specifications:

- Material: Elastomer
- Color: Black

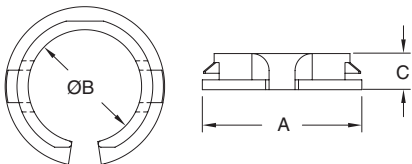
Features:

- Protects wires, cables, tubing and hoses
- Quickly snaps into hole



Item No.				Ø Mounting Hole A		C ID Ref.		Bulk Pack Qty
Panel Thickness 0.059 (1.5)	Panel Thickness 0.079 (2.0)	Panel Thickness 0.118 (3.0)	Panel Thickness 0.138 (3.5)	in	mm	in	mm	
16200	16210	16220	—	0.394	10.0	0.236	6.0	5000
QFG-16200	—	QFG-16220	—	0.394	10.0	0.236	6.0	1000
16201	16211	16221	—	0.433	11.0	0.276	7.0	10000
QFG-16201	—	—	—	0.433	11.0	0.276	7.0	1000
16202	16212	16222	—	0.472	12.0	0.315	8.0	10000
—	—	QFG-16222	—	0.472	12.0	0.315	8.0	1000
16203	16213	16223	—	0.551	14.0	0.394	10.0	10000
QFG-16203	—	QFG-16223	—	0.551	14.0	0.394	10.0	1000
16204	16214	16224	—	0.630	16.0	0.472	12.0	10000
QFG-16204	—	QFG-16224	—	0.630	16.0	0.472	12.0	1000
16205	16215	16225	—	0.709	18.0	0.551	14.0	10000
QFG-16205	—	—	—	0.709	18.0	0.551	14.0	1000
—	—	—	QFG-1	0.728-0.787	18.5-20.0	0.512	13.0	1000
16206	16216	16226	—	0.787	20.0	0.630	16.0	4000
16207	16217	16227	—	0.866	22.0	0.709	18.0	4000
QFG-16207	—	—	—	0.866	22.0	0.709	18.0	1000
—	—	—	QFG-2	0.984-1.024	25.0-26.0	0.709	18.0	1000
16208	16218	16228	—	1.024	26.0	0.866	22.0	4000
—	—	QFG-16228	—	1.024	26.0	0.866	22.0	1000
16209	16219	16229	—	1.102	28.0	0.945	24.0	2000
QFG-16209	—	QFG-16229	—	1.102	28.0	0.945	24.0	1000

PGSA Series
Shallow Open Insulation Bushings



Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Black

Features:

- Molded with shallow overall height for applications with limited space
- Open design allows bushing to be assembled into holes that already contain a bundle
- Protects wires, cables, and tubing from sharp edges of sheet metal holes

Item No.	Approval	Ø Mounting Hole		Panel Thickness Range		OD A Ref.		ID B		Overall Height C		Bulk Pack Qty
		in	mm	in	mm	in	mm	in	mm	in	mm	
PGSA-0407A		0.276	7.0	0.016 - 0.039	0.4 - 1.0	0.410	10.4	0.190	4.8	0.200	5.0	1000
PGSA-1013A		0.512	13.0	0.039 - 0.059	1.0 - 1.5	0.640	16.2	0.360	9.2	0.210	5.3	500
PGSA-1316A		0.630	16.0	0.039 - 0.055	1.0 - 1.4	0.760	19.4	0.480	12.2	0.210	5.4	500
PGSA-1519A		0.748	19.0	0.039 - 0.059	1.0 - 1.5	0.890	22.7	0.560	14.3	0.220	5.7	500
PGSA-1822A		0.866	22.0	0.031 - 0.063	0.8 - 1.6	1.000	25.5	0.690	17.6	0.220	5.6	500
PGSA-2024A		0.945	24.0	0.039 - 0.063	1.0 - 1.6	1.060	27.0	0.770	19.5	0.210	5.3	500
PGSA-2327A		1.067	27.1	0.016 - 0.039	0.4 - 1.0	1.380	35.1	0.900	22.9	0.240	6.0	200
PGSA-2529A		1.142	29.0	0.016 - 0.043	0.4 - 1.1	1.380	35.1	0.970	24.5	0.280	7.0	200

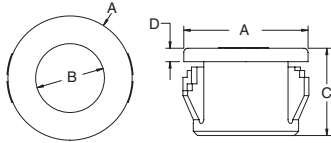
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BUSHINGS

PGSB/22MP
Closed Insulation Bushings

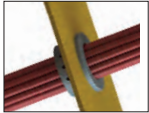


Specifications:

- Material: 22MP: UL94 V-2 Heat Stabilized Nylon 6
- Material: PGSB: UI94 V-2 Nylon 6/6
- Color: See Table

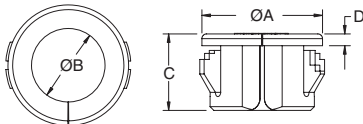
Features:

- Easy to snap into common panel thicknesses
- Protects wires, cables and tubing from sharp edges of sheet metal holes



Item No.		Approval	Ø Mounting Hole		Panel Thickness		Ø A		ID B		Overall Height C		Head Height D		Bulk Pack Qty
Black	White		in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	
22MP01010	22MP01010W	UL	0.189	4.8	0.063 - 0.067	1.6 - 1.7	0.260	6.5	0.125	3.2	0.240	6.0	0.051	1.4	1000
22MP01017	22MP01017W	UL	0.187	4.8	0.062	1.6	0.250	6.4	0.125	3.2	0.234	6.2	0.062	1.6	1000
22MP02502	22MP02502W	UL	0.250	6.4	0.062	1.6	0.312	7.9	0.125	3.2	0.312	7.9	0.063	1.6	1000
22MP03123	22MP03123W	UL	0.312	7.9	0.062	1.6	0.375	9.5	0.187	4.7	0.312	7.9	0.063	1.6	1000
22MP01015	22MP01015W	UL	0.312	7.9	0.062	1.6	0.375	9.5	0.240	6.1	0.237	6.0	0.050	1.3	1000
22MP03753	22MP03753W	UL	0.375	9.5	0.031 - 0.125	0.8 - 3.2	0.468	11.9	0.187	4.7	0.406	10.3	0.055	1.4	1000
22MP03754	22MP03754W	UL	0.375	9.5	0.031 - 0.125	0.8 - 3.2	0.468	11.9	0.250	6.4	0.406	10.3	0.055	1.4	1000
PGSB-0710	PGSB-0710W	UL	0.394	10.0	0.031 - 0.125	0.8 - 1.6	0.472	12.0	0.284	7.2	0.260	6.6	0.051	1.3	1000
22MP04374	22MP04374W	UL	0.437	11.1	0.031 - 0.125	0.8 - 3.2	0.531	13.5	0.270	6.9	0.406	10.3	0.055	1.4	500
22MP04375	22MP04375W	UL	0.437	11.1	0.031 - 0.125	0.8 - 3.2	0.531	13.5	0.312	7.9	0.406	10.3	0.055	1.4	500
22MP04376	22MP04376W	UL	0.437	11.1	0.031 - 0.125	0.8 - 3.2	0.531	13.5	0.243	6.4	0.406	10.3	0.055	1.4	500
22MP01020	—	UL	0.468	11.9	0.062	1.6	0.531	13.5	0.343	8.7	0.250	6.4	0.050	1.3	500
22MP05004	22MP05004W	UL	0.500	12.7	0.031 - 0.125	0.8 - 3.2	0.578	14.7	0.250	6.4	0.406	10.3	0.063	1.6	500
22MP05005	22MP05005W	UL	0.500	12.7	0.031 - 0.125	0.8 - 3.2	0.578	14.7	0.312	7.9	0.406	10.3	0.063	1.6	500
22MP01030	—	UL	0.500	12.7	0.062	1.6	0.562	14.3	0.375	9.5	0.250	6.4	0.063	1.6	500
22MP05006	22MP05006W	UL	0.500	12.7	0.125	3.2	0.578	14.7	0.375	9.5	0.406	10.3	0.062	1.6	1000
PGSB-1013	—	UL	0.512	13.0	0.031 - 0.118	0.8	0.591	15.0	0.402	10.2	0.354	9.0	0.051	1.3	500
22MP01040	—	UL	0.531	13.5	0.062	1.6	0.593	15.1	0.406	10.3	0.250	6.4	0.063	1.6	500
22MP05625	22MP05625W	UL	0.562	14.3	0.031 - 0.125	0.8 - 3.2	0.656	16.7	0.312	7.9	0.406	10.3	0.063	1.6	500
22MP05626	22MP05626W	UL	0.562	14.3	0.031 - 0.125	0.8 - 3.2	0.656	16.7	0.391	9.9	0.406	10.3	0.063	1.6	500
22MP05627	22MP05627W	UL	0.562	14.3	0.031 - 0.125	0.8 - 3.2	0.656	16.7	0.437	11.1	0.406	10.3	0.063	1.6	500
22MP06254	22MP06254W	UL	0.625	15.9	0.031 - 0.125	0.8 - 3.2	0.718	18.2	0.250	6.4	0.406	10.3	0.063	1.6	500
22MP06257	22MP06257W	UL	0.625	15.9	0.031 - 0.125	0.8 - 3.2	0.718	18.2	0.437	11.1	0.406	10.3	0.063	1.6	500
22MP01050	—	UL	0.625	15.9	0.062	1.6	0.703	17.9	0.500	12.7	0.250	6.4	0.063	1.6	500
22MP06258	—	UL	0.630	16.0	0.055 - 0.139	1.4 - 3.5	0.709	18.0	0.504	12.8	0.413	10.5	0.059	1.5	500
22MP06878	—	UL	0.687	17.5	0.031 - 0.125	0.8 - 3.2	0.781	19.8	0.500	12.7	0.406	10.3	0.063	1.6	200
22MP06879	—	UL	0.687	17.5	0.031 - 0.125	0.8 - 3.2	0.781	19.8	0.562	14.3	0.406	10.3	0.063	1.6	200
PGSB-1519	—	UL	0.748	19.0	0.039 - 0.130	1.3	0.854	21.7	0.602	15.3	0.433	11.0	0.059	1.5	200
22MP07508	—	UL	0.750	19.1	0.031 - 0.125	0.8 - 3.2	0.843	21.4	0.500	12.7	0.406	10.3	0.063	1.6	200
22MP07509	—	UL	0.750	19.1	0.031 - 0.125	0.8 - 3.2	0.843	21.4	0.562	14.3	0.406	10.3	0.063	1.6	200
22MP01060	—	UL	0.750	19.1	0.062	1.6	0.828	21.0	0.625	15.9	0.250	6.4	0.063	1.6	200
22MP07506	22MP07506W	UL	0.750	19.1	0.125	3.2	0.843	21.4	0.375	9.5	0.406	10.3	0.062	1.6	1000
22MP07510	22MP07510W	UL	0.750	19.1	0.125	3.2	0.843	21.4	0.625	15.9	0.406	10.3	0.062	1.6	1000
22MP01070	—	UL	0.781	19.8	0.062	1.6	0.859	21.8	0.625	15.9	0.250	6.4	0.063	1.6	200
22MP08109	22MP08109W	UL	0.812	20.6	0.125	3.2	0.890	22.6	0.562	14.3	0.406	10.3	0.062	1.6	1000
22MP08110	22MP08110W	UL	0.812	20.6	0.125	3.2	0.890	22.6	0.625	15.9	0.406	10.3	0.062	1.6	1000
PGSB-1822	—	UL	0.866	22.0	0.035 - 0.091	0.9 - 2.3	0.976	24.8	0.717	18.2	0.453	11.5	0.059	1.5	500
22MP08708	—	UL	0.875	22.2	0.031 - 0.125	0.8 - 3.2	0.953	24.2	0.500	12.7	0.453	11.5	0.063	1.6	200
22MP08709	—	UL	0.875	22.2	0.031 - 0.125	0.8 - 3.2	0.953	24.2	0.562	14.3	0.453	11.5	0.063	1.6	200
22MP08710	—	UL	0.875	22.2	0.031 - 0.125	0.8 - 3.2	0.953	24.2	0.625	15.9	0.453	11.5	0.063	1.6	200
22MP08711	—	UL	0.875	22.2	0.031 - 0.125	0.8 - 3.2	0.953	24.2	0.687	17.5	0.453	11.5	0.063	1.6	200
22MP01080	—	UL	0.875	22.2	0.062	1.6	0.937	23.8	0.750	19.1	0.250	6.4	0.063	1.6	200
22MP08706	22MP08706W	UL	0.875	22.2	0.125	3.2	0.953	24.2	0.375	9.5	0.453	11.5	0.062	1.6	500
22MP08707	22MP08707W	UL	0.875	22.2	0.125	3.2	0.953	24.2	0.437	11.1	0.453	11.5	0.062	1.6	500
22MP10012	—	UL	1.000	25.4	0.031 - 0.125	0.8 - 3.2	1.125	28.6	0.766	19.5	0.453	11.5	0.063	1.6	200
22MP10913	—	UL	1.097	27.9	0.031 - 0.125	0.8 - 3.2	1.218	31.0	0.812	20.6	0.453	11.5	0.063	1.6	100
22MP10914	—	UL	1.097	27.9	0.031 - 0.125	0.8 - 3.2	1.218	31.0	0.875	22.2	0.453	11.5	0.063	1.6	100
22MP10915	—	UL	1.097	27.9	0.031 - 0.125	0.8 - 3.2	1.218	31.0	0.937	23.8	0.453	11.5	0.063	1.6	100
PGSB-2428	—	UL	1.102	28.0	0.039 - 0.130	1.3	1.240	31.5	0.945	24.0	0.441	11.2	0.059	1.5	200
PGSB-2530	—	UL	1.181	30.0	0.039 - 0.122	1.3	1.319	33.5	0.984	25.0	0.453	11.5	0.071	1.8	100
22MP11815	22MP11815W	UL	1.187	30.2	0.125	3.2	1.312	33.3	0.937	23.8	0.453	11.5	0.062	1.6	250
22MP12515	—	UL	1.250	31.8	0.031 - 0.125	0.8 - 3.2	1.312	33.3	0.937	23.8	0.453	11.5	0.063	1.6	100
PGSB-2634	—	UL	1.347	34.2	0.039 - 0.126	1.3	1.496	38.0	1.031	26.2	0.453	11.5	0.059	1.5	100
22MP13716	—	UL	1.375	34.9	0.031 - 0.125	0.8 - 3.2	1.468	37.3	1.000	25.4	0.453	11.5	0.063	1.6	100
22MP15017	—	UL	1.500	38.1	0.031 - 0.125	0.8 - 3.2	1.609	40.9	1.062	27.0	0.453	11.5	0.063	1.6	100
22MP15018	—	UL	1.500	38.1	0.031 - 0.125	0.8 - 3.2	1.609	40.9	1.125	28.6	0.453	11.5	0.063	1.6	100
22MP15021	—	UL	1.500	38.1	0.031 - 0.125	0.8 - 3.2	1.609	40.9	1.312	33.3	0.453	11.5	0.063	1.6	100
22MP17522	—	UL	1.750	44.5	0.031 - 0.125	0.8 - 3.2	1.875	47.6	1.375	34.9	0.453	11.5	0.063	1.6	100
22MP20026	—	UL	2.000	50.8	0.031 - 0.125	0.8 - 3.2	2.125	54.0	1.640	41.7	0.453	11.5	0.063	1.6	100
22MP22529	—	UL	2.250	57.2	0.031 - 0.125	0.8 - 3.2	2.125	54.0	1.750	44.5	0.453	11.5	0.063	1.6	100
PGSB-43	—	UL	2.250	57.2	0.250	6.4	2.480	63.0	1.850	47.0	0.720	18.2	0.063	1.6	100
22MP25031	22MP25031W	UL	2.500	63.5	0.125	3.2	2.710	68.8	1.965	49.9	0.725	18.4	0.062	1.6	100
BSI047A	—	UL	3.000	76.2	0.250	6.4	3.160	80.3	2.470	62.7	0.720	18.2	—	—	350
22MP30039	22MP30039W	UL	3.000	76.2	0.250	6.3	3.160	80.2	2.470	62.7	0.720	18.2	0.062	1.6	100
22MP33745	22MP33745W	UL	3.375	85.7	0.250	6.3	3.660	92.9	2.812	71.4	0.720	18.2	0.062	1.6	100
22MP35047	22MP35047W	UL	3.500	88.9	0.250	6.3	3.660	92.9	2.940	74.6	0.720	18.2	0.062	1.6	100
22MP40055	22MP40055W	UL	4.000	101.6	0.250	6.3	4.170	105.9	3.460	87.8	0.720	18.2	0.062	1.6	50

PGSB-A Series
Standard Open Insulation Bushings

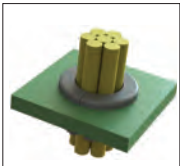


Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Black

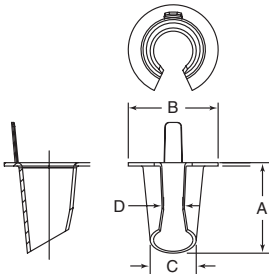
Features:

- Easy to push in design locks into place at common panel thicknesses
- Split design allows bushing to be assembled into holes that already contained a bundle
- Protects wires, cables, and tubing from sharp edges of sheet metal holes



Item No.	Approval	Ø Mounting Hole		Panel Thickness Range		Ø A Ref.		ID B		Overall Height C		Head Height D		Bulk Pack Qty
		in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	
PGSB-0609A		0.375	9.5	0.028 - 0.067	0.7 - 1.7	0.450	11.4	0.260	6.6	0.260	6.5	0.051	1.3	1000
PGSB-1A		0.375	9.5	0.031 - 0.125	0.8 - 3.2	0.420	10.7	0.265	6.7	0.390	9.9	0.051	1.3	1000
PGSB-2A		0.437	11.1	0.031 - 0.125	0.8 - 3.2	0.500	12.7	0.312	7.9	0.406	10.3	0.063	1.6	1000
PGSB-1013A		0.512	13.0	0.031 - 0.138	0.8 - 3.5	0.590	14.9	0.350	9.0	0.410	10.5	0.059	1.5	500
PGSB-3A		0.562	14.3	0.031 - 0.125	0.8 - 3.2	0.640	16.3	0.390	9.9	0.406	10.3	0.063	1.6	500
PGSB-1216A		0.650	16.5	0.028 - 0.130	0.7 - 3.3	0.730	18.6	0.480	12.3	0.390	10.0	0.039	1.0	500
PGSB-1316A		0.630	16.0	0.047 - 0.138	1.2 - 3.5	0.710	18.0	0.410	10.5	0.410	10.5	0.063	1.6	500
PGSB-1519A		0.748	19.0	0.047 - 0.130	1.2 - 3.3	0.810	20.6	0.570	14.5	0.430	11.0	0.051	1.3	200
PGSB-1822A		0.866	22.0	0.039 - 0.138	1.0 - 3.5	0.980	24.8	0.680	17.3	0.450	11.5	0.063	1.6	200
PGSB-9A		0.984	25.0	0.031 - 0.118	0.8 - 3.0	1.039	26.4	0.803	20.4	0.406	10.3	0.063	1.6	200
PGSB-5A		1.093	27.8	0.031 - 0.125	0.8 - 3.2	1.156	29.4	0.875	22.2	0.406	10.3	0.063	1.6	200
PGSB-6A		1.250	31.8	0.031 - 0.125	0.8 - 3.2	1.343	34.1	1.046	26.6	0.406	10.3	0.063	1.6	200
PGSB-7A		1.375	34.9	0.031 - 0.125	0.8 - 3.2	1.468	37.3	1.171	29.7	0.406	10.3	0.063	1.6	200
PGSB-8A		1.500	38.1	0.031 - 0.125	0.8 - 3.2	1.578	40.1	1.250	31.7	0.421	10.7	0.063	1.6	200

ASB Series
Armor Bushings



Specifications:

- Material: Polypropylene
- Color: Red

Features:

- Fits armored cable and flexible metal conduit sizes
- Features high dielectric strength and assures insulation on all sharp edges



Item No.	Approvals	Size	A		B		C		D		Cable Size	Trade Size	Bulk Pack Qty
			in	mm	in	mm	in	mm	in	mm			
ASB0A		0	0.560	14.22	0.671	17.04	0.380	9.650	0.312	7.92	14/2, 14/3, 12/2	5/16	30000
ASB1A		1	0.650	16.51	0.671	17.04	0.450	11.43	0.312	7.92	14/4, 12/3, 6/1, 4/1	3/8	20000
ASB2A		2	0.610	15.49	0.859	21.82	0.580	14.73	0.125	3.18	12/4, 10/2, 10/3, 2/1	7/16	15000
ASB3A		3	0.670	17.02	1.046	26.57	0.790	20.07	0.109	2.77	10/4, 8/2, 8/3, 1/1	1/2	7500
ASB4A		4	0.830	21.08	1.266	32.15	1.000	25.40	0.156	3.96	8/4, 6/4, 6/3, 6/2, 4/3, 4/2	3/4	4000

BUSHINGS / GROMMETS

PGSD/22AF Series
Universal Bushings

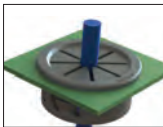
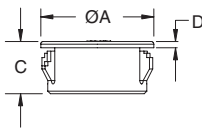


Specifications:

- Material: 22AF: UL94 V-2 Heat Stabilized Nylon 6
- Material: PGSD: UL94 V-2 Nylon 6/6
- Color: See Table

Features:

- Absorbs vibration and cushions and insulates bundles



Item No.		Approval	Ø Mounting Hole		Max Panel Thickness		OD A		Max ID		Overall Height C		Head Height D		Bulk Pack Qty
Black	White		in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	
PGSD-1	—	PA	0.500	12.7	0.062	1.8	0.600	15.2	0.312	7.9	0.250	6.4	0.063	1.6	500
PGSD-5	—	PA	0.500	12.7	0.125	3.2	0.600	15.2	0.312	7.9	0.385	9.8	0.041	1.0	500
PGSD-2	—	PA	0.625	15.9	0.062	1.8	0.729	18.5	0.437	11.1	0.250	6.4	0.063	1.6	500
22AF0625	22AF0625W	PA	0.625	15.9	0.125	3.2	0.729	18.5	0.437	11.1	0.406	10.3	0.063	1.6	1000
PGSD-3	—	PA	0.750	19.1	0.062	1.8	0.844	21.4	0.500	12.7	0.250	6.4	0.063	1.6	200
22AF0750	22AF0750W	PA	0.750	19.1	0.125	3.2	0.844	21.4	0.500	12.7	0.390	9.9	0.047	1.2	1000
22AF0812	22AF0812W	PA	0.812	20.6	0.125	3.2	0.890	22.6	0.500	12.7	0.390	9.9	0.063	1.2	1000
PGSD-4	—	PA	0.875	22.2	0.062	1.8	0.937	23.8	0.560	14.2	0.250	6.4	0.063	1.6	200
22AF0875	22AF0875W	PA	0.875	22.2	0.125	3.2	0.937	23.8	0.560	14.2	0.453	11.5	0.063	1.6	1000
22AF1000	22AF1000W	PA	1.000	25.4	0.125	3.2	1.063	27.0	0.750	19.1	0.453	11.5	0.063	1.6	500
22AF1093	22AF1093W	PA	1.093	27.8	0.125	3.2	1.156	29.3	0.812	20.6	0.453	11.5	0.630	1.6	500
22AF1250	22AF1250W	PA	1.250	31.8	0.125	3.1	1.360	34.5	0.875	22.2	0.453	11.5	0.630	1.6	500
PGSD-10	—	PA	1.375	34.9	0.125	3.2	1.490	37.8	1.000	25.4	0.453	11.5	0.063	1.6	100
PGSD-11	—	PA	1.500	38.1	0.125	3.2	1.609	40.9	1.062	27.0	0.450	11.4	0.059	1.5	100

PGSC Series
Open Universal Bushings

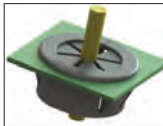
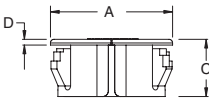


Specifications:

- Material: UL94V-2 Nylon 6/6
- Color: Black

Features:

- Easy to push in design locks into place at common panel thicknesses
- Open design allows bushing to be assembled into holes that already contain a bundle
- Adjust to accept various diameters and shapes



Item No.	Approval	Ø Mounting Hole		Max Panel Thickness		OD A		Max ID		Overall Height C		Head Height D		Bulk Pack Qty
		in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	
PGSC-1319A	PA	0.748 - 0.752	19.0 - 19.1	0.031 - 0.118	0.8 - 3.0	0.858	21.8	0.500	12.7	0.390	9.9	0.039	1.0	500
PGSC-1422A	PA	0.874 - 0.882	22.2 - 22.4	0.031 - 0.118	0.8 - 3.0	0.937	23.8	0.563	14.3	0.453	11.5	0.039	1.0	200
PGSC-1926A	PA	1.000 - 1.004	25.4 - 25.5	0.031 - 0.118	0.8 - 3.0	1.063	27.0	0.748	19.0	0.453	11.5	0.039	1.0	200
PGSC-2128A	PA	1.095 - 1.102	27.8 - 28.0	0.031 - 0.118	0.8 - 3.0	1.161	29.5	0.815	20.7	0.453	11.5	0.039	1.0	200

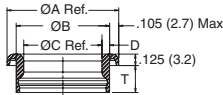
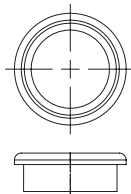
GFA Series
NAS1368 Flip Grommets

Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Light Green

Features:

- Installed by inserting the “un-flipped” grommet into the hole (forming dies - not supplied by Essentra - on each side of the hole are pressed together until the grommet “flips” over itself, creating a flange on both sides of the hole)
- Dies can be attached to a toggle type clamp, a pneumatic tool, or a bolt and nut through the center
- Meets NAS 1368 Standard
- Protects wires, cable, and tubing passing through holes



Item No.	NAS Part No.	Ø Mounting Hole		Max Recommended Panel Thickness		NAS1368 Panel Thickness Range		T		A Ref.		B		C Ref.		D		Bulk Pack Qty
		in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm			
GFA-N4A	NAS1368-N4A	0.375	9.5	0.030	0.8	0.025 - 0.080	0.6 - 2.0	0.235	6.0	0.567	14.4	0.367	9.3	0.251	6.4	0.058	1.5	100
GFA-N4B	NAS1368-N4B	0.375	9.5	0.100	2.5	0.081 - 0.140	2.1 - 3.6	0.295	7.5	0.567	14.4	0.367	9.3	0.251	6.4	0.058	1.5	100
GFA-N6A	NAS1368-N6A	0.500	12.7	0.030	0.8	0.025 - 0.080	0.6 - 2.0	0.235	6.0	0.692	17.6	0.492	12.5	0.376	9.6	0.058	1.5	100
GFA-N6B	NAS1368-N6B	0.500	12.7	0.090	2.3	0.081 - 0.140	2.1 - 3.6	0.295	7.5	0.692	17.6	0.492	12.5	0.376	9.6	0.058	1.5	100
GFA-N6C	NAS1368-N6C	0.500	12.7	0.160	4.1	0.141 - 0.200	3.6 - 5.1	0.360	9.1	0.692	17.6	0.492	12.5	0.376	9.6	0.058	1.5	100
GFA-N8A	NAS1368-N8A	0.625	15.9	0.030	0.8	0.025 - 0.080	0.6 - 2.0	0.235	6.0	0.815	20.7	0.615	15.6	0.499	12.7	0.058	1.5	100
GFA-N8B	NAS1368-N8B	0.625	15.9	0.090	2.3	0.081 - 0.140	2.1 - 3.6	0.295	7.5	0.815	20.7	0.615	15.6	0.499	12.7	0.058	1.5	100
GFA-N10A	NAS1368-N10A	0.781	19.8	0.030	0.8	0.025 - 0.080	0.6 - 2.0	0.235	6.0	0.971	24.7	0.771	19.6	0.605	15.4	0.083	2.1	100
GFA-N10B	NAS1368-N10B	0.781	19.8	0.080	2.0	0.081 - 0.140	2.1 - 3.6	0.295	7.5	0.971	24.7	0.771	19.6	0.605	15.4	0.083	2.1	100
GFA-N10D	NAS1368-N10D	0.781	19.8	0.210	5.3	0.201 - 0.250	5.1 - 6.4	0.420	10.7	0.971	24.7	0.771	19.6	0.605	15.4	0.083	2.1	100
GFA-N12A	NAS1368-N12A	0.906	23.0	0.020	0.5	0.025 - 0.080	0.6 - 2.0	0.235	6.0	1.096	27.8	0.896	22.8	0.730	18.5	0.083	2.1	100
GFA-N12B	NAS1368-N12B	0.906	23.0	0.070	1.8	0.081 - 0.140	2.1 - 3.6	0.295	7.5	1.096	27.8	0.896	22.8	0.730	18.5	0.083	2.1	100
GFA-N14A	NAS1368-N14A	1.031	26.2	0.020	0.5	0.025 - 0.080	0.6 - 2.0	0.235	6.0	1.221	31.0	1.021	25.9	0.855	21.7	0.083	2.1	100
GFA-N14B	NAS1368-N14B	1.031	26.2	0.070	1.8	0.081 - 0.140	2.1 - 3.6	0.295	7.5	1.221	31.0	1.021	25.9	0.855	21.7	0.083	2.1	100

BUSHINGS

04MP Series
Anti-Twist Bushings

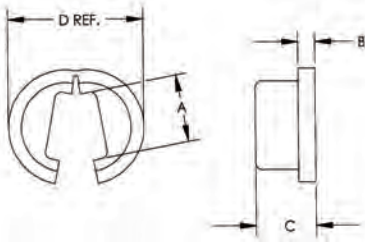


Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Black

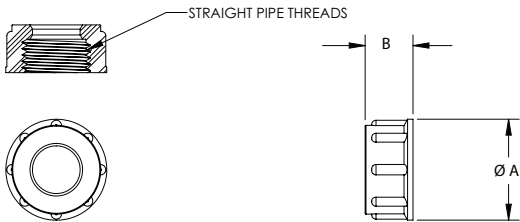
Features:

- Designed to be used with our standard 1/8" and 1/4" Lamp Cord Bushing in 04MP Series below
- Prevents the electrical cord from twisting inside the lamp
- Convenient opening allows for the bushing to easily slip around the cord
- Resistant to corrosion, vibration and abrasion



Item No.	Description	A		B		C		D		Bulk Pack Qty
		in	mm	in	mm	in	mm	in	mm	
04MP0125ATB	1/8"	0.195	5.0	0.050	1.3	0.175	4.4	0.390	9.9	1000
04MP0250ATB	1/4"	0.195	5.0	0.050	1.3	0.175	4.4	0.500	12.7	1000

04MP Series
Threaded Lampcord Bushings



Specifications:

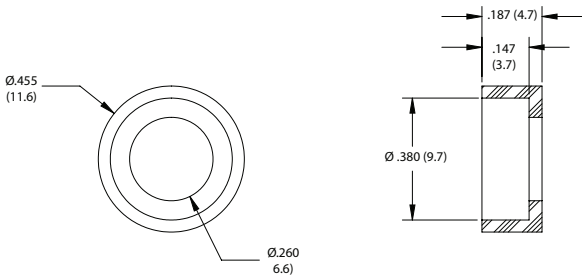
- Material: UL94 V-2 Heat Stabilized Nylon 6
- Color: Black

Features:

- Designed to protect the electrical lampcord from the knife-edge of the threaded pipe used in light fixtures
- Provides reliable, safe and insulated connections
- Easy installation
- Resists corrosion, vibration and abrasion

Item No.	Description	A		B		Bulk Pack Qty
		in	mm	in	mm	
04MP0125TLB	1/8 NPS	0.594	15.1	0.281	7.1	1000
04MP0250TLB	1/4 NPS	0.719	18.3	0.375	9.5	1000
04MP0375TLB	3/8 NPS	0.875	22.2	0.438	11.1	1000
04MP0500TLB	1/2 NPS	1.063	27.0	0.375	9.5	500

04MP Series
Lamp Snap Bushings



Specifications:

- Material: High Density Polyethylene
- Color: Black

Features:

- Easy installation
- Offers protection to lampcord insulation
- Durability for long lasting cord protection

Item No.	Bulk Pack Qty
04MP0125SBOD	1000

BUSHINGS & PLUGS

SB Series
Snub Bushings

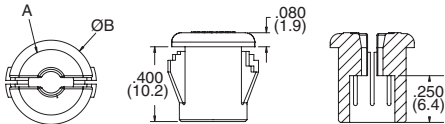


Specifications:

- Material: UL94V-2 Nylon 6/6
- Color: Black

Features:

- Bushing opens to accept cable then closes firmly when installed into hole
- Provides insulation and slight strain relief



Item No.	Ø Mounting Hole		Max Panel Thickness		ID		Ø A		Overall OD B		Bulk Pack Qty
	in	mm	in	mm	in	mm	in	mm	in	mm	
SB-1	0.375	9.5	0.125	3.2	0.150	3.8	0.360	9.1	0.450	11.4	500
SB-2	0.437	11.1	0.125	3.2	0.220	5.6	0.430	10.9	0.550	14.0	500
SB-3	0.500	12.7	0.125	3.2	0.280	7.1	0.490	12.4	0.630	16.0	500

62MP Series
Vented Locking Plugs

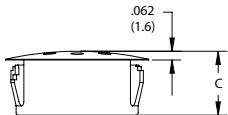
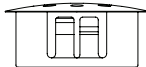
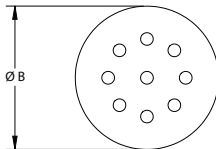


Specifications:

- Material: UL94 V-2 Heat Stabilized Nylon 6
- Color: See Table

Features:

- Each part is designed to lock into multiple standard sheet metal thicknesses (1/64 to 1/8)
- Provides a clean and easy way to close optional wiring or production access holes
- Vents allow heat and emissions to escape



Item No.		Approvals		Ø Mounting Hole		Max Panel Thickness		Ø Head B		Thickness C		Bulk Pack Qty
Black	White			in	mm	in	mm	in	mm	in	mm	
62MP0750V	62MP0750VW		Ⓢ	0.750	19.1	0.125	3.2	0.906	23.0	0.406	10.3	1000
62MP0875V	62MP0875VW		Ⓢ	0.875	22.2	0.125	3.2	1.016	25.8	0.453	11.5	1000
62MP1000V	62MP1000VW		Ⓢ	1.000	25.4	0.125	3.2	1.203	30.6	0.453	11.5	500

62VP Series
Vent Plugs

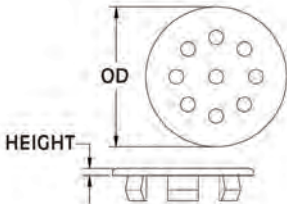


Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:

- Used to close excess chassis holes, wiring outlets and production access holes
- Resistant to corrosion, vibration and abrasion
- Designed with special flexible and tapered prongs which snugly lock in place with finger pressure
- Can be removed and reused when necessary
- Vented to allow air flow



Item No.	Ø Mounting Hole		Panel Thickness		OD		Head Height		Bulk Pack Qty
	in	mm	in	mm	in	mm	in	mm	
62VP087BM11	0.875	22.23	0.03 - 0.11	0.8 - 2.8	1.078	27.38	0.062	1.58	1000
62VP100BM11	1.000	25.40	0.03 - 0.11	0.8 - 2.8	1.219	30.96	0.062	1.58	500

GROMMETS

GR67/LTG Series
IP67 Liquid Tight Grommets

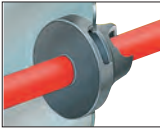


Specifications:

- Material: EPDM
- Color: Grey (Black for LTG-199017)

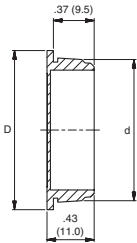
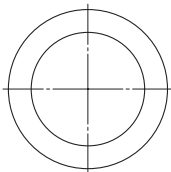
Features:

- Confirms to IP67 standard for watertight seal
- Acts as a blanking plug until cable is installed
- Designed to withstand vibration



Item No.	Fits	Ø Mounting Hole		Panel Thickness		Cable Size		Bulk Pack Qty
		in	mm	in	mm	in	mm	
LTG-199017	PG-7	0.492	12.5	0.020 - 0.079	0.5 - 2.0	0.138 - 0.197	3.5 - 5.0	1000
GR67464121A	PG-7	0.492	12.5	0.020 - 0.079	0.5 - 2.0	0.138 - 0.197	3.5 - 5.0	1000
GR6739897A	PG-9	0.630	16.0	0.039 - 0.157	1.0 - 4.0	0.197 - 0.276	5.0 - 7.0	1000
GR6734715A	PG-11	0.748	19.0	0.039 - 0.157	1.0 - 4.0	0.276 - 0.394	7.0 - 10.0	1000
GR6734716A	PG-16	0.906	23.0	0.039 - 0.157	1.0 - 4.0	0.394 - 0.551	10.0 - 14.0	1000
GR6743021A	PG-21	1.142	29.0	0.039 - 0.157	1.0 - 4.0	0.551 - 0.787	14.0 - 20.0	1000
GR67464122A	PG-29	1.496	38.0	0.039 - 0.157	1.0 - 4.0	0.787 - 1.024	20.0 - 26.0	250
GR67464123A	PG-36	1.890	48.0	0.039 - 0.157	1.0 - 4.0	1.024 - 1.378	26.0 - 35.0	250
GR67M16A	M16	0.650	16.5	0.039 - 0.157	1.0 - 4.0	0.197 - 0.354	5.0 - 9.0	1000
GR67M20A	M20	0.807	20.5	0.039 - 0.157	1.0 - 4.0	0.276 - 0.512	7.0 - 13.0	1000
GR67M25A	M25	1.004	25.5	0.059 - 0.157	1.5 - 4.0	0.394 - 0.670	10.0 - 17.0	1000
GR67M32A	M32	1.280	32.5	0.039 - 0.157	1.0 - 4.0	0.551 - 0.787	14.0 - 20.0	500
GR67M40A	M40	1.594	40.5	0.059 - 0.157	1.5 - 4.0	0.750 - 1.024	19.0 - 26.0	250
GR67M50A	M50	1.988	50.5	0.039 - 0.157	1.0 - 4.0	1.024 - 1.338	26.0 - 34.0	250

Push In Flexible Grommets



Specifications:

- Material: Polyethylene and TPE
- Color: Grey

Features:

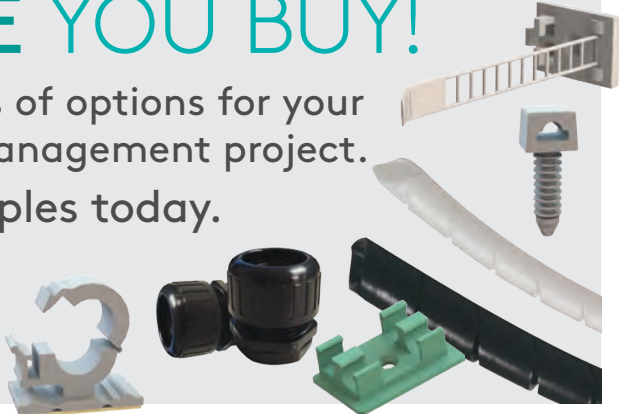
- Dust tight
- Quick and easy mounting
- For enclosures with more than .079 (2.0) thickness

Item No.	Ø d Hole		D OD		Ø Cable Range		Bulk Pack Qty
	in	mm	in	mm	in	mm	
494632	0.630	16.0	0.835	21.2	0.039 - 0.354	1.0 - 9.0	100
494633	0.787	20.0	0.992	25.2	0.039 - 0.512	1.0 - 13.0	100
494634	0.984	25.0	1.189	30.2	0.039 - 0.709	1.0 - 18.0	100
494635	1.260	32.0	1.465	37.2	0.039 - 0.984	1.0 - 25.0	50

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STRAIN RELIEF BUSHINGS

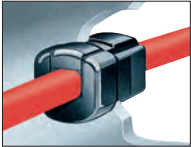
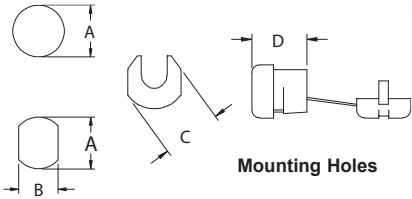
SRB/23MP Series
Strain Relief Bushings



- Specifications:
- Material: UL94 V-2 Nylon
 - Color: Black

- Features:
- Protects electronic products by absorbing the forces of pull, push and twist that may be exerted on a flexible power cord
 - Securely protects cable at entry point
 - To install: Position bushing on cable, press ends of bushing together with installation tool 23MPT0100 (page 114) and push into hole
 - Can be mounted in either a round hole or anti-rotation hole

Use with Installation Tool
23MPT0100 on page 114.



Item No.	Approvals	Cross Section	Cable Type	Gauge (AWG)	Cable Size		Strap Type	Ø A		Flats B		Max Panel		Length D		Width C Ref.		Bulk Pack Qty
					in	mm		in	mm	in	mm	in	mm	in	mm	in	mm	
23MP02L10	—	CSA	Flat	SPT-1	18/2	0.120-0.220	Y	0.375	9.5	0.330	8.4	0.125	3.2	0.410	10.4	0.420	10.7	1000
23MP02P40	—	CSA	Flat	SPT-1	18/2	0.120-0.220	Y	0.375	9.5	0.330	8.4	0.062	1.6	0.410	10.4	0.420	10.7	1000
	⚡	CSA	Flat	SPT-2	18/3	0.150-0.400	Z	0.375 - 0.625	9.5 - 15.9	0.625	15.9	0.100	2.5	0.460	11.6	0.660	16.7	1000
	⚡	CSA	Flat	SPT-2	18/3	0.160-0.410	Z	0.375 - 0.625	9.5 - 15.9	0.625	15.9	0.100	2.5	0.460	11.6	0.660	16.7	1000
23MP03020	⚡	CSA	Flat	SPT-3	16/3	0.320-0.650	Z	0.375 - 0.625	9.5 - 15.9	0.625	15.9	0.100	2.5	0.460	11.6	0.660	16.7	1000
	⚡	CSA	Flat	SP-1	18/2	0.120-0.220	Y	0.437	11.1	0.390	9.9	0.062	1.6	0.405	10.2	0.484	12.3	1000
	⚡	CSA	Flat	SPT-1	18/2	0.120-0.220	Y	0.437	11.1	0.390	9.9	0.062	1.6	0.405	10.2	0.484	12.3	1000
SRB-F-6	⚡	—	Flat	SPT-1	18/2	0.118-0.220	Z	0.433	11.0	0.390	9.9	0.098	2.5	0.406	10.3	0.492	12.5	1000
SRB-F-8	⚡	—	Flat	SPT-2	—	0.146-0.299	Z	0.500	12.7	0.465	11.8	0.063	1.6	0.406	10.3	0.547	13.9	1000
	⚡	—	Flat	SPT-2	—	0.150-0.299	Z	0.516	13.1	0.465	11.8	0.063	1.6	0.406	10.3	0.547	13.9	1000
SRB-F-9	⚡	—	Flat	SPT-2	—	0.146-0.299	Z	0.500	12.7	0.465	11.8	0.098	2.5	0.406	10.3	0.547	13.9	1000
	⚡	—	Flat	SPT-2	—	0.150-0.299	Z	0.516	13.1	0.465	11.8	0.098	2.5	0.406	10.3	0.547	13.9	1000
	⚡	CSA	Flat	SPT-1	18/3	0.120-0.300	Z	0.500	12.7	0.465	11.8	0.032	0.8	0.406	10.3	0.578	14.7	1000
23MP04J40	⚡	CSA	Flat	SPT-2	18/2	0.120-0.300	Y	0.500	12.7	0.465	11.8	0.032	0.8	0.406	10.3	0.578	14.7	1000
	⚡	CSA	Flat	HPN	18/2	0.120-0.300	Y	0.500	12.7	0.465	11.8	0.032	0.8	0.406	10.3	0.578	14.7	1000
	⚡	CSA	Flat	SPT-2	18/3	0.150-0.400	Y	0.500	12.7	0.460	11.7	0.095	2.4	0.495	12.6	0.565	14.4	1000
23MP04K10	⚡	CSA	Flat	HPN	16/2	0.160-0.300	Y	0.500	12.7	0.460	11.7	0.095	2.4	0.495	12.6	0.565	14.4	1000
	⚡	CSA	Flat	SPT-2	16/2	0.160-0.300	Y	0.500	12.7	0.460	11.7	0.095	2.4	0.495	12.6	0.565	14.4	1000
	⚡	CSA	Flat	HPN	18/2	0.150-0.280	Y	0.500	12.7	0.460	11.7	0.095	2.4	0.495	12.6	0.565	14.4	1000
	⚡	CSA	Flat	SPT-2	18/2	0.150-0.280	Y	0.500	12.7	0.460	11.7	0.095	2.4	0.495	12.6	0.565	14.4	1000
	⚡	CSA	Flat	SPT-2	18/3	0.150-0.400	Z	0.500	12.7	0.460	11.7	0.095	2.4	0.495	12.6	0.565	14.4	1000
23MP04K1Z	⚡	CSA	Flat	HPN	16/2	0.160-0.300	Z	0.500	12.7	0.460	11.7	0.095	2.4	0.495	12.6	0.565	14.4	1000
	⚡	CSA	Flat	SPT-2	16/2	0.160-0.300	Z	0.500	12.7	0.460	11.7	0.095	2.4	0.495	12.6	0.565	14.4	1000
	⚡	CSA	Flat	HPN	18/2	0.150-0.280	Z	0.500	12.7	0.460	11.7	0.095	2.4	0.495	12.6	0.565	14.4	1000
	⚡	CSA	Flat	SPT-2	18/2	0.150-0.280	Z	0.500	12.7	0.460	11.7	0.095	2.4	0.495	12.6	0.565	14.4	1000
	⚡	CSA	Flat	SPT-2	18/2	0.120-0.300	Y	0.500	12.7	0.465	11.8	0.100	2.5	0.406	10.3	0.565	14.3	1000
23MP04K40	⚡	CSA	Flat	HPN	18/2	0.120-0.300	Y	0.500	12.7	0.465	11.8	0.100	2.5	0.406	10.3	0.565	14.3	1000
	⚡	CSA	Flat	SPT-1	18/3	0.120-0.300	Y	0.500	12.7	0.465	11.8	0.156	3.9	0.406	10.3	0.578	14.7	1000
	⚡	CSA	Flat	SPT-2	18/2	0.120-0.300	Y	0.500	12.7	0.465	11.8	0.100	2.5	0.406	10.3	0.565	14.3	1000
	⚡	CSA	Flat	HPN	18/2	0.120-0.300	Y	0.500	12.7	0.465	11.8	0.100	2.5	0.406	10.3	0.565	14.3	1000
	⚡	CSA	Flat	SPT-1	18/3	0.150-0.400	Z	0.525	13.3	0.460	11.7	0.187	4.7	0.495	12.6	0.565	14.4	1000
23MP04L10	⚡	CSA	Flat	HPN	16/2	0.160-0.300	Z	0.525	13.3	0.460	11.7	0.187	4.7	0.495	12.6	0.565	14.4	1000
	⚡	CSA	Flat	SPT-2	16/2	0.160-0.300	Z	0.525	13.3	0.460	11.7	0.187	4.7	0.495	12.6	0.565	14.4	1000
	⚡	CSA	Flat	HPN	18/2	0.150-0.280	Z	0.525	13.3	0.460	11.7	0.187	4.7	0.495	12.6	0.565	14.4	1000
	⚡	CSA	Flat	SPT-2	18/2	0.150-0.280	Z	0.525	13.3	0.460	11.7	0.187	4.7	0.495	12.6	0.565	14.4	1000
	⚡	CSA	Flat	SPT-2	18/2	0.120-0.300	Y	0.500	12.7	0.465	11.8	0.062	1.6	0.406	10.3	0.578	14.7	1000
23MP04N40	⚡	CSA	Flat	HPN	18/2	0.120-0.300	Y	0.500	12.7	0.465	11.8	0.062	1.6	0.406	10.3	0.578	14.7	1000
23MP05K40	⚡	CSA	Flat	SPT-2	16/2	0.150-400	Y	0.562	14.3	0.530	13.5	0.125	3.2	0.609	15.5	0.625	15.9	1000
23MP05KN4	⚡	CSA	Flat	SPT-2	18/3	0.150-400	Y	0.562	14.3	0.530	13.5	0.062	1.6	0.609	15.5	0.625	15.9	1000
	⚡	CSA	Flat	SPT-2	16/2	0.150-400	Y	0.562	14.3	0.530	13.5	0.062	1.6	0.609	15.5	0.625	15.9	1000
	⚡	CSA	Flat	SPT-2	18/3	0.120-0.300	Y	0.562	14.3	0.530	13.5	0.125	3.2	0.609	15.5	0.625	15.9	1000
	⚡	CSA	Flat	SPT-2	16/2	0.160-0.300	Y	0.562	14.3	0.530	13.5	0.125	3.2	0.609	15.5	0.625	15.9	1000
	⚡	CSA	Flat	SPT-2	16/3	0.160-0.410	Y	0.562	14.3	0.530	13.5	0.125	3.2	0.609	15.5	0.625	15.9	1000
23MP06N44	⚡	CSA	Flat	HPN	16/3	0.160-0.370	Y	0.562	14.3	0.530	13.5	0.125	3.2	0.609	15.5	0.625	15.9	1000
	⚡	CSA	Flat	SPT-1	18/3	0.120-0.300	Y	0.625	15.9	0.570	14.4	0.062	1.6	0.600	15.2	0.690	17.5	500
	⚡	CSA	Flat	SPT-1	18/3	0.120-0.300	Y	0.625	15.9	0.545	13.8	0.032	0.8	0.590	14.9	0.690	17.5	500
23MP30-10	⚡	CSA	Flat	SPT-2	16/3	0.160-0.410	Z	0.730	18.5	0.560	14.2	0.125	3.2	0.670	17.0	0.750	19.6	500
23MP07P30	⚡	CSA	Flat	SPT-1	—	0.120-0.300	Z	0.730	18.5	0.560	14.2	0.125	3.2	0.670	17.0	0.750	19.6	500
	⚡	CSA	Flat	SPT-2	16/3	0.160-0.410	Z	0.736	18.7	0.657	16.7	0.125	3.2	0.590	14.9	0.785	19.9	500
23MP33-10	⚡	CSA	Flat	SPT-3	16/3	0.245-0.425	Z	0.750 - 0.875	19.1 - 22.2	0.875	22.2	0.125	3.2	0.770	19.5	0.895	22.7	250
	⚡	CSA	Flat	SPT-3	14/2	0.240-0.420	Z	0.750 - 0.875	19.1 - 22.2	0.875	22.2	0.125	3.2	0.770	19.5	0.895	22.7	250
	⚡	CSA	Flat	HPN	14/3	0.240-0.525	Z	0.750 - 0.875	19.1 - 22.2	0.875	22.2	0.125	3.2	0.770	19.5	0.895	22.7	250
23MP31-20	⚡	CSA	Flat	SJT	12/3	0.180-0.425	Z	0.875	22.2	0.840	21.3	0.125	3.2	0.812	20.6	0.922	23.4	250
23MP34-2X	⚡	CSA	Flat	SPT-3	14/3	0.240-0.420	X	0.875	22.2	0.840	21.3	0.125	3.2	0.812	20.6	0.905	22.9	250
⚡	CSA	Flat	SJT	12/3	0.290-0.650	X	0.875	22.2	0.840	21.3	0.125	3.2	0.812	20.6	0.905	22.9	250	
23MP02M40	⚡	CSA	Round	AWN	14	0.156-0.187	Y	0.375	9.5	0.033	8.4	0.062	1.6	0.410	10.4	0.440	11.1	1000
23MP02M50	⚡	CSA	Round	AWN	16	0.125-0.156	Y	0.400	10.6	0.330	8.4	0.062	1.6	0.410	10.4	0.432	10.9	1000
SRB-R-1	⚡	—	Round	SVI	—	0.252	Z	0.500	12.7	0.453	11.5	0.062	1.6	0.433	11.1	0.559	14.2	1000
	⚡	—	Round	SVT	—	0.291	Z	0.516	13.1	0.453	11.5	0.062	1.6	0.433	11.1	0.559	14.2	1000
SRB-R-2	⚡	—	Round	SVI	—	0.252	Z	0.500	12.7	0.453	11.5	0.098	2.5	0.433	11.1	0.559	14.2	1000
	⚡	—	Round	SVT	—	0.291	Z	0.516	13.1	0.453	11.5	0.098	2.5	0.433	11.1	0.559	14.2	1000
23MP05N40	⚡	CSA	Round	SV	18/2	0.250	Y	0.500	12.7	0.450	11.4	0.062	1.6	0.448	11.3	0.578	14.7	1000
	⚡	CSA	Round	SVT	18/2	0.255	Y	0.500	12.7	0.450	11.4	0.062	1.6	0.448	11.3	0.578	14.7	1000
	⚡	CSA	Round	SV	18/3	0.290	Y	0.500	12.7	0.450	11.4	0.062	1.6	0.448	11.3	0.578	14.7	1000
	⚡	CSA	Round	SVT	18/3	0.290	Y	0.500	12.7	0.450	11.4	0.062	1.6	0.448	11.3	0.578	14.7	1000
	⚡	CSA	Round	HPD	16/2	0.290	Y	0.500	12.7	0.450	11.4	0.062	1.6	0.448	11.3	0.578	14.7	1000

STRAIN RELIEF BUSHINGS

SRB/23MP Series (continued)
Strain Relief Bushings



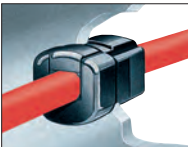
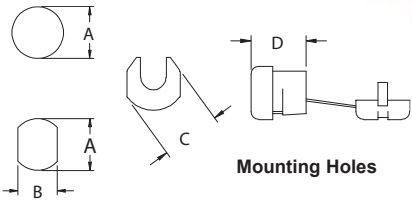
Specifications:

- Material: UL94 V-2 Nylon
- Color: Black

Features:

- Protects electronic products by absorbing the forces of pull, push and twist that may be exerted on a flexible power cord
- Securely protects cable at entry point
- To install: Position bushing on cable, press ends of bushing together with installation tool 23MPT0100 (page 114) and push into hole
- Can be mounted in either a round hole or anti-rotation hole

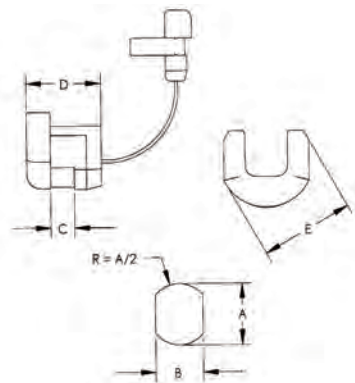
Use with Installation Tool
23MPT0100 on page 114.



Item No.	Approvals	Cross Section	Cable Type	Gauge (AWG)	Cable Size		Strap Type	Ø A		Flats B		Max Panel		Length D		Width C Ref.		Bulk Pack Qty
					in	mm		in	mm	in	mm	in	mm	in	mm			
23MP05P40		CSA	Round	SV	18/2	0.250	Y	0.500	12.7	0.450	11.4	0.100	2.5	0.448	11.3	0.578	14.7	1000
		CSA	Round	SVT	18/2	0.255	Y	0.500	12.7	0.450	11.4	0.100	2.5	0.448	11.3	0.578	14.7	1000
		CSA	Round	SV	18/3	0.290	Y	0.500	12.7	0.450	11.4	0.100	2.5	0.448	11.3	0.578	14.7	1000
		CSA	Round	SVT	18/3	0.290	Y	0.500	12.7	0.450	11.4	0.100	2.5	0.448	11.3	0.578	14.7	1000
23MP06W10		CSA	Round	HPD	16/2	0.290	Y	0.500	12.7	0.450	11.4	0.100	2.5	0.448	11.3	0.578	14.7	1000
		CSA	Round	SJ	18/2	0.300	Y	0.500	12.7	0.465	11.8	0.090	2.3	0.437	11.1	0.563	14.3	1000
		CSA	Round	SJT	18/2	0.300	Y	0.500	12.7	0.465	11.8	0.090	2.3	0.437	11.1	0.563	14.3	1000
		CSA	Round	SJO	18/2	0.300	Y	0.500	12.7	0.465	11.8	0.090	2.3	0.437	11.1	0.563	14.3	1000
23MP06L10		CSA	Round	SJ	18/2, 18/3	0.325-0.360	Z	0.625	15.9	0.550	14.0	0.125	3.2	0.666	16.9	0.725	18.4	500
		CSA	Round	SJT	16/2, 16/3	0.325-0.360	Z	0.625	15.9	0.550	14.0	0.125	3.2	0.666	16.9	0.725	18.4	500
		CSA	Round	SJO		0.325-0.360	Z	0.625	15.9	0.550	14.0	0.125	3.2	0.666	16.9	0.725	18.4	500
23MP06N34		CSA	Round	SJ	16/3	0.355	Y	0.625	15.9	0.550	14.0	0.062	1.6	0.595	15.1	0.703	17.9	1000
		CSA	Round	SJT	18/3	0.405	Y	0.625	15.9	0.550	14.0	0.062	1.6	0.595	15.1	0.703	17.9	1000
		CSA	Round	SJT	16/3	0.430	Y	0.625	15.9	0.550	14.0	0.062	1.6	0.595	15.1	0.703	17.9	1000
		CSA	Round	SJO	18/2	0.390	Y	0.625	15.9	0.550	14.0	0.062	1.6	0.580	14.7	0.703	17.9	1000
23MP06N35		CSA	Round	SJ	18/2	0.390	Y	0.625	15.9	0.550	14.0	0.062	1.6	0.580	14.7	0.703	17.9	1000
		CSA	Round	SJT	16/2	0.405	Y	0.625	15.9	0.550	14.0	0.062	1.6	0.580	14.7	0.703	17.9	1000
		CSA	Round	SJO	18/2	0.405	Y	0.625	15.9	0.550	14.0	0.062	1.6	0.580	14.7	0.703	17.9	1000
		CSA	Round	SJT	18/2	0.390	Y	0.625	15.9	0.550	14.0	0.062	1.6	0.580	14.7	0.703	17.9	1000
23MP06N40		CSA	Round	SJT	18/2	0.300	Y	0.625	15.9	0.550	14.0	0.062	1.6	0.585	14.8	0.703	17.9	1000
		CSA	Round	SJO	18/2	0.300	Y	0.625	15.9	0.550	14.0	0.062	1.6	0.585	14.8	0.703	17.9	1000
		CSA	Round	SJ	18/3	0.325-0.360	Y	0.625	15.9	0.550	14.0	0.125	3.2	0.580	14.7	0.703	17.9	500
23MP06P34		CSA	Round	SJT	16/3, 18/3	0.325-0.360	Y	0.625	15.9	0.550	14.0	0.125	3.2	0.580	14.7	0.703	17.9	500
		CSA	Round	SJO	18/3	0.325-0.360	Y	0.625	15.9	0.550	14.0	0.125	3.2	0.580	14.7	0.703	17.9	500
		CSA	Round	SJ	18/2, 18/3, 16/2	0.325-0.360	Y	0.625	15.9	0.550	14.0	0.125	3.2	0.580	14.7	0.703	17.9	500
23MP06P35		CSA	Round	SJT	16/2, 18/2	0.325-0.360	Y	0.625	15.9	0.550	14.0	0.125	3.2	0.580	14.7	0.703	17.9	500
		CSA	Round	SJO	18/2, 16, 2, 18/3	0.325-0.360	Y	0.625	15.9	0.550	14.0	0.125	3.2	0.580	14.7	0.703	17.9	500
		CSA	Round	SJ	18/2	0.300	Y	0.625	15.9	0.550	14.0	0.125	3.2	0.590	14.9	0.703	17.9	500
23MP06P40		CSA	Round	SJT	18/2	0.300	Y	0.625	15.9	0.550	14.0	0.125	3.2	0.590	14.9	0.703	17.9	500
		CSA	Round	SJT	18/2	0.300	Y	0.625	15.9	0.550	14.0	0.125	3.2	0.590	14.9	0.703	17.9	500
		CSA	Round	SJO	18/2	0.300	Y	0.625	15.9	0.550	14.0	0.125	3.2	0.590	14.9	0.703	17.9	500
SRB-R-3		—	Round	SJT	18/3	0.299	Z	0.626	15.9	0.551	14.0	0.062	1.6	0.583	14.8	0.701	17.8	500
SRB-R-4		—	Round	SJT	18/3	0.299	Z	0.626	15.9	0.551	14.0	0.126	3.2	0.583	14.8	0.693	17.6	500
SRB-R-7		—	Round	SJT	16/3	0.323-0.362	Z	0.626	15.9	0.551	14.0	0.062	1.6	0.583	14.8	0.701	17.8	500
SRB-R-8		—	Round	SJT	16/3	0.323-0.362	Z	0.626	15.9	0.551	14.0	0.126	3.2	0.583	14.8	0.681	17.3	500
SRB-R-9		—	Round	SJT	14/3	0.362-0.413	Z	0.748	19.0	0.650	16.5	0.062	1.6	0.750	19.1	0.847	21.5	100
		—	Round	SJT	14/3	0.433	Z	0.780	19.8	0.650	16.5	0.062	1.6	0.750	19.1	0.847	21.5	100
SRB-R-10		—	Round	SJT	14/3	0.362-0.413	Z	0.748	19.0	0.650	16.5	0.126	3.2	0.764	19.4	0.854	21.7	100
		—	Round	SJT	14/3	0.433	Z	0.780	19.8	0.650	16.5	0.126	3.2	0.764	19.4	0.854	21.7	100
		CSA	Round	SJTO	18/4	0.360	X	0.750	19.0	0.660	16.8	0.125	3.2	0.745	18.9	0.830	21.0	500
23MP07P20		CSA	Round	SJT	14/3	0.370	X	0.750	19.0	0.660	16.8	0.125	3.2	0.745	18.9	0.830	21.0	500
		CSA	Round	S	18/3	0.405	X	0.750	19.0	0.660	16.8	0.125	3.2	0.745	18.9	0.830	21.0	500
		CSA	Round	S	16/3	0.430	X	0.750	19.0	0.660	16.8	0.125	3.2	0.745	18.9	0.830	21.0	500
		CSA	Round	STO	18/3	0.405	X	0.750	19.0	0.660	16.8	0.125	3.2	0.745	18.9	0.830	21.0	500
		CSA	Round	STO	16/3	0.430	X	0.750	19.0	0.660	16.8	0.125	3.2	0.745	18.9	0.830	21.0	500
		CSA	Round	S	16/2	0.405	X	0.750	19.0	0.660	16.8	0.125	3.2	0.745	18.9	0.830	21.0	500
		CSA	Round	S	18/2	0.390	X	0.750	19.0	0.660	16.8	0.125	3.2	0.745	18.9	0.830	21.0	500
		CSA	Round	STO	18/2	0.390	X	0.750	19.0	0.660	16.8	0.125	3.2	0.745	18.9	0.830	21.0	500
		CSA	Round	STO	16/2	0.405	X	0.750	19.0	0.660	16.8	0.125	3.2	0.745	18.9	0.830	21.0	500
		CSA	Round	SJ	18/4, 16/2, 16/3, 14/2	0.325-0.360	Z	0.875	22.2	0.770	19.6	0.125	3.2	0.755	19.1	0.922	23.4	250
		CSA	Round	SJT	18/3, 16/3	0.325-0.360	Z	0.875	22.2	0.770	19.6	0.125	3.2	0.755	19.1	0.922	23.4	250
		CSA	Round	SJO	14/2, 16/3, 18/4	0.325-0.360	Z	0.875	22.2	0.770	19.6	0.125	3.2	0.755	19.1	0.922	23.4	250
23MP07K30		CSA	Round	SJ	18/3, 16/2	0.325-0.360	Z	0.875	22.2	0.770	19.6	0.125	3.2	0.750	19.1	0.922	23.4	250
		CSA	Round	SJT	16/2	0.325-0.360	Z	0.875	22.2	0.770	19.6	0.125	3.2	0.750	19.1	0.922	23.4	250
		CSA	Round	SJO	18/3, 16/2	0.325-0.360	Z	0.875	22.2	0.770	19.6	0.125	3.2	0.750	19.1	0.922	23.4	250
		CSA	Round	SJT	14/3	0.370-0.425	Z	0.875	22.2	0.770	19.6	0.125	3.2	0.760	19.3	0.922	23.4	250
23MP07W20		CSA	Round	SJ	12/3	0.370-0.425	Z	0.875	22.2	0.770	19.6	0.125	3.2	0.760	19.3	0.922	23.4	250
		CSA	Round	S	18/3, 16/3	0.390-0.430	Z	0.875	22.2	0.770	19.6	0.125	3.2	0.760	19.3	0.922	23.4	250
		CSA	Round	STO	16/2, 16, 3, 18/3	0.390-0.430	Z	0.875	22.2	0.770	19.6	0.125	3.2	0.760	19.3	0.922	23.4	250
23MP31-20		CSA	Round	SPT-3	12/3	0.425-0.475	Z	0.875	22.2	0.840	21.3	0.125	3.2	0.812	20.6	0.922	23.4	250
23MP08P20		CSA	Round	S	14/2, 14/3	0.530-0.600	Z	0.875	22.2	0.840	21.3	0.125	3.2	0.812	20.6	0.922	23.4	250
		CSA	Round	ST	12/2	0.530-0.600	Z	0.875	22.2	0.840	21.3	0.125	3.2	0.812	20.6	0.922	23.4	250
23MP09P20		CSA	Round	S		0.570	Z	1.093	27.7	1.000	25.4	0.281	7.1	0.990	25.1	1.215	30.8	100
		CSA	Round	S	12/3	0.640	Z	1.125	28.5	1.000	25.4	0.281	7.1	0.990	25.1	1.215	30.8	100
		CSA	Round	S	10/2	0.650	Z	1.093	27.7	1.000	25.4	0.281	7.1	0.990	25.1	1.215	30.8	100
		CSA	Round	S	10/3	0.700	Z	1.187	30.1	1.000	25.4	0.281	7.1	0.990	25.1	1.215	30.8	100

STRAIN RELIEF BUSHINGS

23MP Series
90° Angle Strain Relief Bushings



Specifications:

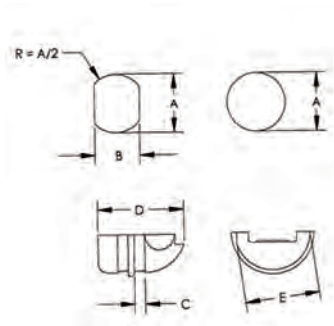
- Material: Heat Stabilized UL94 V-2 Nylon
- Color: Black

Features:

- Securely anchor, absorb and protect cables and wires
- Installs easily and quickly with our installation pliers or other hand or production tools
- Resists corrosion, vibration and abrasion

Item No.	Approvals	Cross Section	Cable Type	Gauge (AWG)	Cable Size		Cable Type	Ø A		Flats B		Max Panel Thickness C		Length D		Width E		Bulk Pack Qty
					in	mm		in	mm	in	mm	in	mm	in	mm	in	mm	
23MP13L10		CSA	Flat	SPT-1	18/2	0.120-0.220	Z	0.437	11.1	0.390	9.9	0.062	1.6	0.500	12.7	0.510	12.9	500
23MP14L10		CSA	Flat	SPT-2	18/2, 16/2	0.150-0.280	Z	0.500	12.7	0.450	11.4	0.100	2.5	0.687	17.5	0.550	13.9	1000
		CSA	Flat	HPN	16/2	0.160-0.300	Z	0.500	12.7	0.450	11.4	0.100	2.5	0.687	17.5	0.550	13.9	1000
23MP15L10		CSA	Round	SV	18/2, 18/3	0.250-0.265	Z	0.500	12.7	0.450	11.4	0.100	2.5	0.687	17.5	0.562	14.3	1000
23MP16L10		CSA	Flat	SP-2	18/3	0.150-0.400	Z	0.562	14.3	0.525	13.3	0.125	3.2	0.875	22.2	0.625	15.9	500
		CSA	Flat	HPN	16/3	0.160-0.370	Z	0.562	14.3	0.525	13.3	0.125	3.2	0.875	22.2	0.625	15.9	500
		CSA	Flat	SPT-3	18/2	0.190-0.350	Z	0.562	14.3	0.525	13.3	0.125	3.2	0.875	22.2	0.625	15.9	500
		CSA	Flat		16/2	0.200-0.370	Z	0.562	14.3	0.525	13.3	0.125	3.2	0.875	22.2	0.625	15.9	500

23MP Series
"EZ" Strain Relief Bushings



Specifications:

- Material: Heat Stabilized UL94 V-2 Nylon
- Color: Black

Features:

- Eliminates several costly and fatigue prone assembly steps
- Securely anchor, absorb and protect cables and wires
- Resists corrosion, vibration and abrasion

Item No.	Approvals	Cross Section	Cable Type	Gauge (AWG)	Cable Size		Ø A		Flats B		Max Panel Thickness C		Length D		Width E		Bulk Pack Qty
					in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	
23MP04KEZS	MP4KEZS	Flat	SPT	18/2	0.150 X 0.280	3.8 X 7.1	0.500	12.7	0.465	11.8	0.100	2.5	0.580	14.7	0.510	12.9	1000
	—	Flat	SPT	16/2	0.150 X 0.280	3.8 X 7.1	0.500	12.7	0.465	11.8	0.100	2.5	0.580	14.7	0.510	12.9	1000
23MP04NEZS	MP4NEZS	Flat	SPT	18/2	0.150 X 0.280	3.8 X 7.1	0.500	12.7	0.465	11.8	0.062	1.6	0.570	14.4	0.500	12.7	1000
	—	Flat	SPT	16/2	0.160 X 0.300	4.1 X 7.6	0.500	12.7	0.465	11.8	0.062	1.6	0.570	14.4	0.500	12.7	1000
23MP06N34EZ	MP6N34EZ	Round	SJT	16/3	0.300	7.2	0.625	15.9	0.550	14.0	0.062	1.6	0.655	16.6	0.585	14.9	1000
	—	Round	SJ	16/3	0.355	9.0	0.625	15.9	0.550	14.0	0.062	1.6	0.655	16.6	0.585	14.9	1000
	—	Round	SJT	18/3	0.405	10.2	0.625	15.9	0.550	14.0	0.062	1.6	0.655	16.6	0.585	14.9	1000

STRAIN RELIEF TOOL / CABLE GLANDS

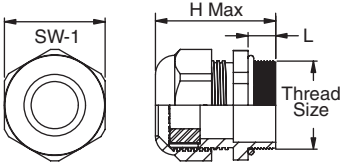
23MPT Series
Strain Relief Tool



- Features:
- An indispensable tool for fast, accurate assembly of bushings

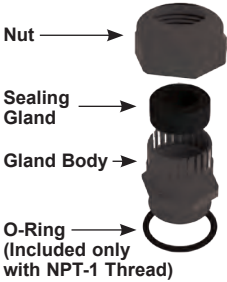
Item No.	Pack Qty
23MPT0100	1

CG-NPT Series
NPT Cable Glands



- Specifications:
- Material: Body and Nut: UL94 V-2 Nylon 6
Sealing Gland: CR/NBR
O-Ring: NBR
 - Color: Black
 - Material: Optional CGLN Locking Nut:
UL94 V-2 Glass-Filled Nylon 6
 - Color: Black

- Features:
- Protection Class: IP68 - 5 Bar
 - Designed for superior sealing; no O-Ring is needed for smaller sizes to meet IP68 rating
 - Operating temperature: -4°F - 212°F (-20°C -100°C)



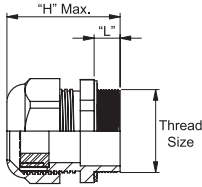
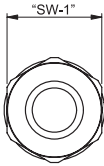
Item No.	Approval	Ø Cable Range Min		Ø Cable Range Max		Thread Size	Mounting Hole		L		SW-1		H Max Ref.		Bulk Pack Qty
		in	mm	in	mm		in	mm	in	mm	in	mm	in	mm	
CG-NPT-1/4-1-BK	—	0.157	4.0	0.315	8.0	NPT-1/4	0.524	13.3	0.354	9.0	0.748	19.0	1.378	35.0	100
CG-NPT-3/8-1-BK	UL	0.118	3.0	0.276	7.0	NPT-3/8	0.670	17.0	0.571	14.5	0.866	22.0	1.750	44.5	100
CG-NPT-3/8-2-BK	UL	0.197	5.0	0.394	10.0	NPT-3/8	0.670	17.0	0.571	14.5	0.866	22.0	1.750	44.5	100
CG-NPT-1/2-1-BK	UL	0.197	5.0	0.236	9.0	NPT-1/2	0.875	22.2	0.571	14.5	0.945	24.0	1.770	45.0	100
CG-NPT-1/2-2-BK	UL	0.276	7.0	0.472	12.0	NPT-1/2	0.875	22.2	0.591	15.0	1.063	27.0	1.870	47.5	100
CG-NPT-1/2-3-BK	UL	0.394	10.0	0.551	14.0	NPT-1/2	0.875	22.2	0.591	15.0	1.063	27.0	1.870	47.5	100
CG-NPT-3/4-1-BK	UL	0.354	9.0	0.630	16.0	NPT-3/4	1.068	27.1	0.591	15.0	1.299	33.0	2.050	52.0	50
CG-NPT-3/4-2-BK	UL	0.551	14.0	0.709	18.0	NPT-3/4	1.068	27.1	0.591	15.0	1.299	33.0	2.050	52.0	50
CG-NPT-1-1-BK	UL	0.472	12.0	0.787	20.0	NPT-1	1.350	34.3	0.709	18.0	1.654	42.0	2.380	60.5	25
CG-NPT-1-2-BK	UL	0.748	19.0	0.984	25.0	NPT-1	1.350	34.3	0.709	18.0	1.654	42.0	2.380	60.5	25

Optional Locknuts

Item No.	Thread Size	Locking Nuts Across Flats		Thickness		Bulk Pack Qty
		in	mm	in	mm	
CGLN-NPT-3/8-BK	NPT-3/8	0.866	22.0	0.197	5.0	100
CGLN-NPT-1/2-BK	NPT-1/2	1.063	27.0	0.236	6.0	100
CGLN-NPT-3/4-BK	NPT-3/4	1.417	36.0	0.276	7.0	100
CGLN-NPT-1-BK	NPT-1	1.654	42.0	0.276	7.0	100

CABLE GLANDS

CG-M Series
Cable Glands – Metric Thread

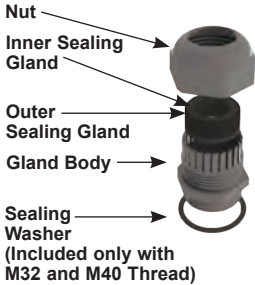


Specifications:

- Material: Body and Nut: UL94 V-2 Nylon 6
Sealing Gland: CR/NBR
O-Ring: NBR
- Color: Black
- Material: Optional CGLN Locking Nut: UL94 V-2 Glass-Filled Nylon 6
- Color: Black

Features:

- Protection Class: IP68 - 5 Bar
- Designed for superior sealing; no Sealing Washer is needed for smaller sizes to meet IP68 rating
- Two Sealing Glands are included with all but the M12 thread. Remove the inner sealing gland for larger cable diameters



Item No.	Approval	Ø Cable Range Min		Ø Cable Range Max		Thread Size	Mounting Hole		L		SW-1		H Max Ref.		Pack Qty	Bulk Pack Qty
		in	mm	in	mm		in	mm	in	mm	in	mm	in	mm		
CG-M12-1-BK	UL	0.079	2.0	0.197	5.0	M12	0.480	12.2	0.315	8.0	0.591	15.0	1.220	31.0	1	100
CG-M16-1-BK	UL	0.118	3.0	0.394	10.0	M16	0.638	16.2	0.315	8.0	0.787	20.0	1.398	35.5	1	100
CG-M20-1-BK	UL	0.197	5.0	0.512	13.0	M20	0.795	20.2	0.315	8.0	0.945	24.0	1.417	36.0	1	100
CG-M25-1-BK	UL	0.315	8.0	0.669	17.0	M25	0.992	25.2	0.315	8.0	1.142	29.0	1.623	43.0	1	50
CG-M32-1-BK	UL	0.472	12	0.827	21.0	M32	1.268	32.2	0.394	10.0	1.417	36.0	1.968	50.0	1	25
CG-M40-1-BK	UL	0.630	16	1.102	28.0	M40	1.583	40.2	0.394	10.0	1.811	46.0	2.008	51.0	1	10

Optional Locknuts

Item No.	Thread Size	Across Flats		Thickness		Pack Qty	Bulk Pack Qty
		in	mm	in	mm		
CGLN-M12-BK	M12	0.669	17.0	0.197	5.0	1	100
CGLN-M16-BK	M16	0.866	22.0	0.197	5.0	1	100
CGLN-M20-BK	M20	1.063	27.0	0.236	6.0	1	100
CGLN-M25-BK	M25	1.260	32.0	0.236	6.0	1	100
CGLN-M32-BK	M32	1.614	41.0	0.276	7.0	1	100
CGLN-M40-BK	M40	1.969	50.0	0.276	7.0	1	50

MPSG-M Series
Metric Cable Gland Inserts

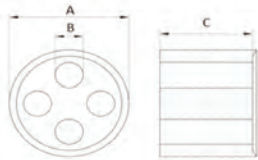


Specifications:

- Material: Thermoplastic Elastomer
- Color: Black
- Operating Range: -22°F ~ +212°F (-30°C ~ +100°C)

Features:

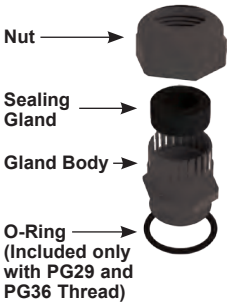
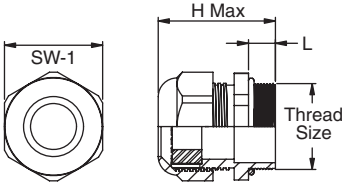
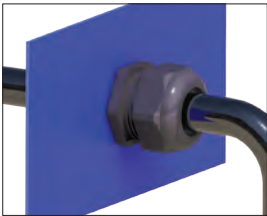
- Protection Class: IP68 - 5 bar
- These multi-port sealing inserts allow for multiple individual cables to be used rather than a single bundle
- RoHS compliant



Item No.	A		B		C		Number of Ports	Fits Size	Buck Pack Qty.
	in	mm	in	mm	in	mm			
MPSG-M16-2X4.5	0.461	11.7	0.177	4.5	0.299	7.6	2	M16	50
MPSG-M16-4X3.5	0.461	11.7	0.138	3.5	0.299	7.6	4	M16	50
MPSG-M20-2X4	0.594	15.1	0.157	4	0.295	7.5	2	M20	50
MPSG-M20-2X6	0.594	15.1	0.236	6	0.295	7.5	2	M20	50
MPSG-M20-4X5	0.594	15.1	0.197	5	0.295	7.5	4	M20	50
MPSG-M25-2X6	0.780	19.8	0.236	6	0.366	9.3	2	M25	50
MPSG-M25-2X8	0.780	19.8	0.315	8	0.366	9.3	2	M25	50
MPSG-M25-3X6.5	0.780	19.8	0.256	6.5	0.366	9.3	3	M25	50
MPSG-M25-3X7	0.780	19.8	0.276	7	0.366	9.3	3	M25	50
MPSG-M25-4X4.6	0.780	19.8	0.181	4.6	0.366	9.3	4	M25	50
MPSG-M25-4X6	0.780	19.8	0.236	6	0.366	9.3	4	M25	50
MPSG-M32-2X8	0.988	25.1	0.315	8	0.492	12.5	2	M32	25
MPSG-M32-4X8	0.988	25.1	0.315	8	0.492	12.5	4	M32	25
MPSG-M32-6X6	0.988	25.1	0.236	6	0.492	12.5	6	M32	25
MPSG-M40-8X6.5	1.272	32.3	0.256	6.5	0.591	15	8	M40	10

CABLE GLANDS

CG-PG Series
PG Cable Glands



Specifications:

- Material: Body and Nut: UL94 V-2 Nylon 6
Sealing Gland: CR/NBR
O-Ring: NBR
- Color: Black
- Material: Optional CGLN Locking Nut:
UL94 V-2 Glass-Filled Nylon 6
- Color: Black
- Temperature Range: -4°F - 212°F (-20°C -100°C)

Features:

- Protection Class: IP68 - 5 Bar
- Designed for superior sealing; no O-Ring needed for smaller sizes to meet IP68 rating

Optional Locknuts

Item No.	Thread Size	Locking Nuts					
		Across Flats		Thickness		Pack Qty	Bulk Pack Qty
		In	mm	In	mm		
CGLN-PG7-BK	PG7	0.748	19.0	0.197	5.0	1	100
CGLN-PG9-BK	PG9	0.866	22.0	0.197	5.0	1	100
CGLN-PG11-BK	PG11	0.945	24.0	0.197	5.0	1	100
CGLN-PG13.5-BK	PG13.5	1.063	27.0	0.236	6.0	1	100
CGLN-PG16-BK	PG16	1.181	30.0	0.236	6.0	1	100
CGLN-PG21-BK	PG21	1.417	36.0	0.276	7.0	1	100
CGLN-PG29-BK	PG29	1.811	46.0	0.276	7.0	1	100
CGLN-PG36-BK	PG36	2.362	60.0	0.315	8.0	1	50

Item No.	Approval	Ø Cable Range Min		Ø Cable Range Max		Thread Size	Mounting Hole		L		SW-1		H Max Ref.		Pack Qty	Bulk Pack Qty
		in	mm	in	mm		in	mm	in	mm	in	mm	in	mm		
CG-PG7-1-BK	UL	0.079	2.0	0.197	5.0	PG7	0.500	12.7	0.315	8.0	0.591	15.0	1.201	30.5	1	100
CG-PG7-2-BK	UL	0.118	3.0	0.256	6.5	PG7	0.500	12.7	0.315	8.0	0.591	15.0	1.201	30.5	1	100
CG-PG9-1-BK	UL	0.079	2.0	0.236	6.0	PG9	0.606	15.4	0.315	8.0	0.748	19.0	1.339	34.0	1	100
CG-PG9-2-BK	UL	0.157	4.0	0.315	8.0	PG9	0.606	15.4	0.315	8.0	0.748	19.0	1.339	34.0	1	100
CG-PG11-1-BK	UL	0.118	3.0	0.276	7.0	PG11	0.740	18.8	0.315	8.0	0.866	22.0	1.457	37.0	1	100
CG-PG11-2-BK	UL	0.197	5.0	0.394	10.0	PG11	0.740	18.8	0.315	8.0	0.866	22.0	1.457	37.0	1	100
CG-PG13.5-1-BK	UL	0.236	6.0	0.472	12.0	PG13.5	0.815	20.7	0.354	9.0	0.945	24.0	1.535	39.0	1	100
CG-PG16-1-BK	UL	0.394	10.0	0.551	14.0	PG16	0.898	22.8	0.394	10.0	1.063	27.0	1.673	42.5	1	50
CG-PG21-1-BK	UL	0.236	9.0	0.630	16.0	PG21	1.126	28.6	0.433	11.0	1.299	33.0	1.870	47.5	1	50
CG-PG21-2-BK	UL	0.512	13.0	0.709	18.0	PG21	1.126	28.6	0.433	11.0	1.299	33.0	1.870	47.5	1	50
CG-PG29-1-BK	UL	0.472	12.0	0.787	20.0	PG29	1.472	37.4	0.433	11.0	1.654	42.0	2.087	53.0	1	25
CG-PG36-1-BK	UL	0.787	20.0	1.024	26.0	PG36	1.870	47.5	0.512	13.0	2.087	53.0	2.402	61.0	1	10
CG-PG36-2-BK	UL	0.866	22.0	1.260	32.0	PG36	1.870	47.5	0.512	13.0	2.087	53.0	2.402	61.0	1	10

MPSG-PG Series
PG Cable Gland Inserts

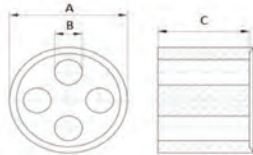


Specifications:

- Material: Thermoplastic Elastomer
- Color: Black
- Operating Range: -22°F ~ +212°F (-30°C ~ +100°C)

Features:

- Protection Class: IP68 - 5 bar
- These multi-port sealing inserts allow for multiple individual cables to be used rather than a single bundle
- RoHS compliant



Item No.	A		B		C		Number of Ports	Fits Size	Buck Pack Qty.
	in	mm	in	mm	in	mm			
MPSG-2X3-1	0.417	10.6	0.118	3.0	0.295	7.5	2	PG 9	100
MPSG-4X2-1	0.417	10.6	0.079	2.0	0.295	7.5	4	PG 9	100
MPSG-2X4.5-1	0.524	13.3	0.177	4.5	0.335	8.5	2	PG 11	100
MPSG-3X4-1	0.524	13.3	0.157	4.0	0.335	8.5	3	PG 11	100
MPSG-3X5-1	0.524	13.3	0.197	5.0	0.335	8.5	3	PG 11	100
MPSG-2X5-1	0.602	15.3	0.197	5.0	0.335	8.5	2	PG 13.5	100
MPSG-2X6-1	0.602	15.3	0.236	6.0	0.335	8.5	2	PG 13.5	100
MPSG-3X4-2	0.602	15.3	0.157	4.0	0.335	8.5	3	PG 13.5	100
MPSG-3X5-2	0.602	15.3	0.197	5.0	0.335	8.5	3	PG 13.5	100
MPSG-2X6-2	0.685	17.4	0.236	6.0	0.354	9.0	2	PG 16	50
MPSG-3X6-1	0.685	17.4	0.236	6.0	0.354	9.0	3	PG 16	50
MPSG-3X6.5-1	0.685	17.4	0.256	6.5	0.354	9.0	3	PG 16	50
MPSG-M32-4X8	0.988	25.1	0.315	8	0.492	12.5	4	M32	25
MPSG-M32-6X6	0.988	25.1	0.236	6	0.492	12.5	6	M32	25
MPSG-M40-8X6.5	1.272	32.3	0.256	6.5	0.591	15	8	M40	10

CABLE GLANDS

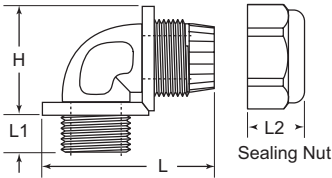
CGS Series
Spiral Cable Glands



- Specifications:
- Material: UL94 V-2 Nylon 6/6
 - Sealing Gland: CR/NBR
 - Color: Black
 - Operating Temperature Range: -4°F to 212°F (-20°C to 100°C)
- Features:
- Spiral top provides strain relief for movable and flexible cables
 - Protection Class: IP68 - 5 bar

Item No.	Approval	Ø Cable Range Min		Ø Cable Range Max		Thread Size	Mounting Hole (A)		Thread Length (L)	
		in	mm	in	mm		in	mm	in	mm
CGS-NPT-3/8-1-BK	UL	0.197	5	0.394	10.0	3/8 NPT	0.670	17.0	0.591	15
CGS-NPT-1/2-1-BK	UL	0.394	10	0.551	14.0	1/2 NPT	0.875	22.2	0.591	15
CGS-NPT-1/2-2-BK	UL	0.276	7	0.472	12.0	1/2 NPT	0.875	22.2	0.591	15
CGS-NPT-3/4-1-BK	UL	0.551	14	0.709	18.0	3/4 NPT	1.068	27.1	0.591	15
CGS-NPT-3/4-2-BK	UL	0.354	9	0.630	16.0	3/4 NPT	1.068	27.1	0.591	15
CGS-M12-1-BK	UL	0.118	3	0.256	6.5	M12	0.480	12.2	0.315	8
CGS-M16-1-BK	UL	0.197	5	0.394	10.0	M16	0.638	16.2	0.315	8
CGS-M16-2-BK	UL	0.197	5	0.394	10.0	M16	0.638	16.2	0.591	15
CGS-M20-1-BK	UL	0.394	10	0.551	14.0	M20	0.795	20.2	0.315	8
CGS-M20-2-BK	UL	0.236	6	0.472	12.0	M20	0.795	20.2	0.315	8
CGS-M20-3-BK	UL	0.236	6	0.472	12.0	M20	0.795	20.2	0.591	15
CGS-M20-4-BK	UL	0.512	13	0.709	18.0	M20	0.795	20.2	0.591	15
CGS-M25-1-BK	UL	0.512	13	0.709	18.0	M25	0.992	25.2	0.315	8
CGS-PG7-1-BK	UL	0.110	2.8	0.260	6.6	PG 7	0.500	12.7	0.315	8
CGS-PG9-1-BK	UL	0.150	3.8	0.310	7.9	PG 9	0.606	15.4	0.315	8
CGS-PG13-1-BK	UL	0.230	5.8	0.470	11.9	PG 13.5	0.815	20.7	0.354	9
CGS-PG16-1-BK	UL	0.390	9.9	0.550	14.0	PG 16	0.898	22.8	0.394	10
CGS-PG21-1-BK	UL	0.510	13	0.700	17.8	PG 21	1.126	28.6	0.433	11

CGRA Series
90° NPT Cable Glands



- Specifications:
- Material: UL94 V-2 Nylon 6/6
 - Color: Black
 - Temperature Range: Working -40°F to 221°F (-40°C to 105°C)
 - Intermittent up to 300°F (149°C)
- Features:
- IP 68 rated protection: 5 bar
 - Provides dust and water-tight performance and strain relief
 - EPDM gasket and lock nut are sold separately

Optional Parts

LNPT - NPT Locknuts			
Locknut Item No.	NPT Thread	Pack Qty	Bulk Pack Qty
CGLN-NPT-3/8-BK	3/8"	1	50
CGLN-NPT-1/2-BK	1/2"	1	50
CGLN-NPT-3/4-BK	3/4"	1	50

Item No.	NPT Thread	Mounting Hole	Overall Length L		Mounting Thread L1		Nut Length L2		Overall Height H		Variable Clamping Range (Min/Max)		Pack Qty	Bulk Pack Qty
			in	mm	in	mm	in	mm	in	mm	in	mm		
CGRA011A	3/8	0.687	1.909	48.5	0.461	11.7	0.657	16.7	1.181	30.0	0.197 - 0.354	5.0 - 8.0	1	20
CGRA015A	1/2	0.875	2.031	51.6	0.579	14.7	0.724	18.4	1.228	31.2	0.393 - 0.512	10.0 - 13.0	1	20
CGRA018A	3/4	1.0625	2.539	64.5	0.583	14.8	0.878	22.3	1.638	41.6	0.512 - 0.630	13.0 - 16.0	1	20

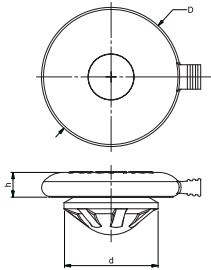
HOLE PLUGS & CABLE GROMMETS

Metric & PG Threaded Rubber Plugs



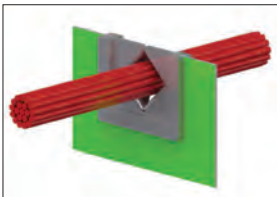
- Specifications:
- Material: Silicone Rubber
 - Color: Black

- Features:
- Can be pushed into place using a blunt tipped tool
 - Used to give water tight protection to spare holes that need to be closed off
 - Pull tab for easy removal
 - Fits standard Metric and PG sizes



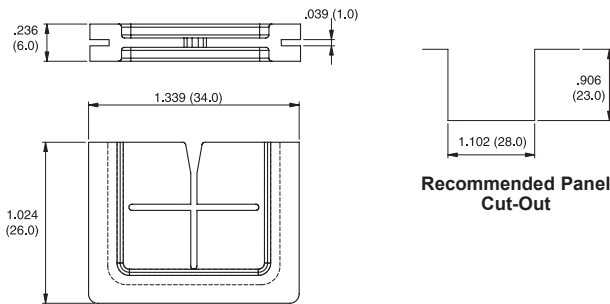
Item No.	Cable Gland Sizes	Ø Hole		Panel Thickness Range		d		D		h		Bulk Pack Qty
		in	mm	in	mm	in	mm	in	mm	in	mm	
551846	PG7/M12	0.480 - 0.492	12.2 - 12.5	0.039 - 0.079	1.0 - 2.0	0.571	14.5	0.968	24.6	0.189	4.8	1000
551847	PG9/M16	0.606 - 0.638	15.4 - 16.2	0.039 - 0.079	1.0 - 2.0	0.689	17.5	1.087	27.6	0.197	5.0	500
551848	PG11/PG13.5/M20	0.740 - 0.815	18.8 - 20.7	0.039 - 0.079	1.0 - 2.0	0.905	23.0	1.346	34.2	0.236	6.0	500
551849	PG16	0.898	22.8	0.039 - 0.079	1.0 - 2.0	1.024	26.0	1.520	38.6	0.256	6.5	200
551850	PG21/M25	0.992 - 1.126	25.2 - 28.6	0.039 - 0.079	1.0 - 2.0	1.220	31.0	1.732	44.0	0.295	7.5	100
551851	M32	1.268 - 1.394	32.2 - 35.4	0.039 - 0.079	1.0 - 2.0	1.575	40.0	2.205	56.0	0.354	9.0	100

CGA Series Cable Grommets



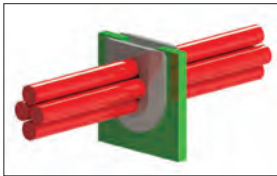
- Specifications:
- Material: Silicone Rubber, 70 Shore A
 - Color: Black

- Features:
- Routes cables and protects wires from sharp edges
 - "Wings" are flexible so it can accept various diameters and shapes
 - Continuous working temperature of 300°F



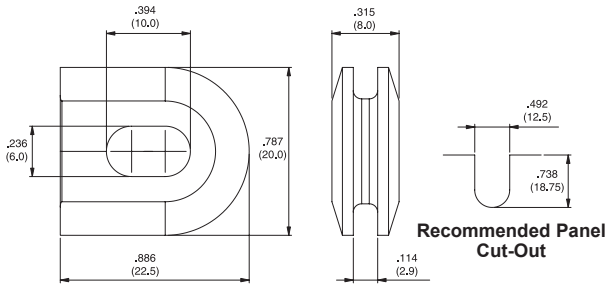
Item No.	Ø Maximum Bundle		Panel Thickness		Bulk Pack Qty
	in	mm	in	mm	
1258288	0.591	15.0	0.039	1.0	1000

CGB Series Cable Grommets



- Specifications:
- Material: Silicone Rubber, 65 Shore A
 - Color: Black

- Features:
- Routes cables and protects wires from sharp edges
 - "Wings" are flexible so it can accept various diameters and shapes
 - Continuous working temperature of 350°F



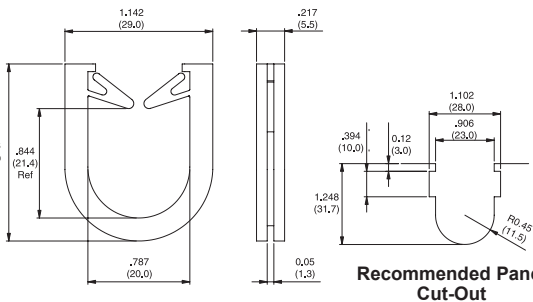
Item No.	Bundle Area		Max Panel Thickness		Bulk Pack Qty
	in	mm	in	mm	
1342664	0.394 x 0.236	10.0 x 6.0	0.110	2.8	1000

CGC Series Cable Grommets



- Specifications:
- Material: Nylon 6/6
 - Color: Natural

- Features:
- Routes cables and protects wires from sharp edges
 - "Wings" are flexible so it can accept various diameters and shapes
 - Cables may be inserted and removed



Item No.	Bundle Area		Max Panel Thickness		Bulk Pack Qty
	in	mm	in	mm	
CGC-1-01	0.844 x 0.787	21.4 x 20.0	0.047	1.2	250

EDGE WIRE SADDLES

EHWSE/EWSE/EWSJS Series
Edge Wire Saddles

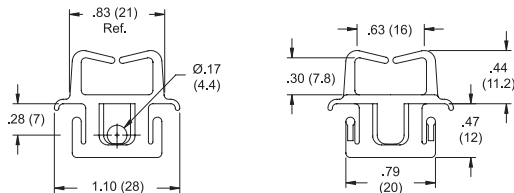
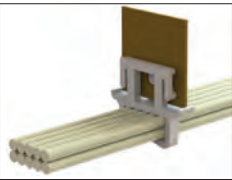


Figure 1

Recommended Mounting Hole

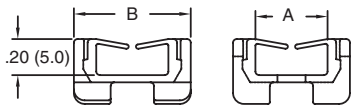
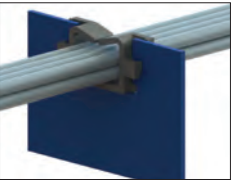
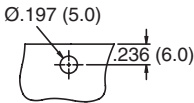


Figure 2

Recommended Panel Cut-Out

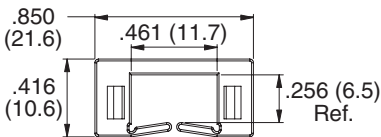
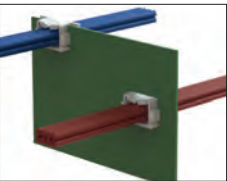
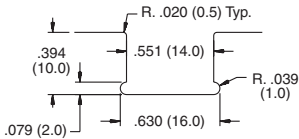
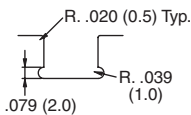
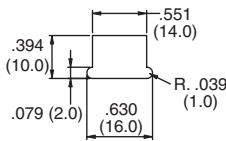


Figure 3

Thru Hole Panel Cut-Out

Edge Hole Panel Cut-Out



Specifications:

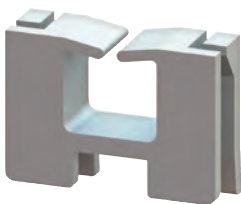
- Material: UL94 V-2 Nylon 6/6
- Color: See Table

Features:

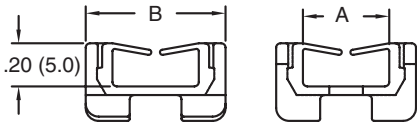
- Mounts vertically or horizontally
- Routes cables and protects wires from sharp edges

Item No.	Figure	Approval	Color	Panel Thickness		Depth		Bulk Pack Qty
				in	mm	in	mm	
EHWSE-1-01	1	91	Natural	0.039 - 0.079	1.0 - 2.0	0.240	6.2	1000
EWSE-1-01	2	91	Black	0.032 - 0.078	0.8 - 1.2	0.190	4.8	1000
EWSE-2-01	2	91	Natural	0.047 - 0.063	1.2 - 1.6	0.190	4.8	1000
EWSE-3-01	2	91	Grey	0.063 - 0.079	1.6 - 2.0	0.190	4.8	1000
EWSJS-1-01	3	—	Natural	0.032 - 0.078	0.8 - 2.0	0.260	6.6	1000

EWSE Series
Edge Wire Saddles



EWSE-12.8-01

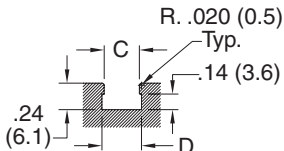


Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:

- Snaps into cutout on the board
- Routes cables and protects wires from sharp edges



Recommended Panel Cut-Out

Item No.	Panel Thickness		A		B		C		D		Depth		Bulk Pack Qty
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	
EWSE-8.1-01	0.031 - 0.063	0.8 - 1.6	0.200	5.0	0.440	11.3	0.320	8.1	0.360	9.1	0.140	3.6	1000
EWSE-12.8-01	0.031 - 0.063	0.8 - 1.6	0.390	10.0	0.640	16.2	0.500	12.8	0.540	13.8	0.140	3.6	1000

EDGE WIRE SADDLES & GROMMET EDGING

HEWSE Series
Hinged Edge Wire Saddles

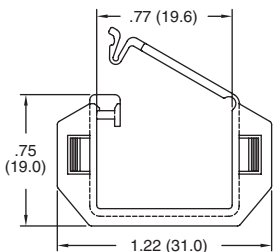
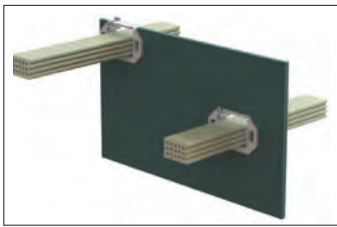


Figure 1

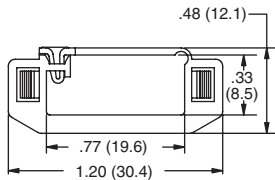


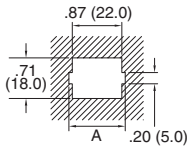
Figure 2

Specifications:

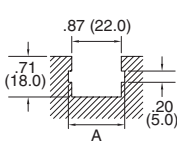
- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:

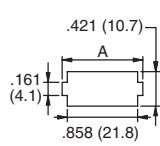
- Routes cables and protects them from sharp edges
- Installed in a mounting slot; edge or through-hole
- Hinged latch allows retrofitting into pre-existing applications



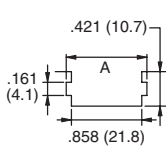
Thru Hole
Panel Cut-Out



Edge Hole Panel
Cut-Out



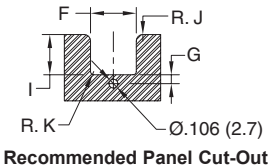
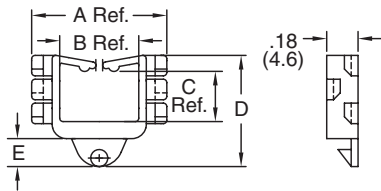
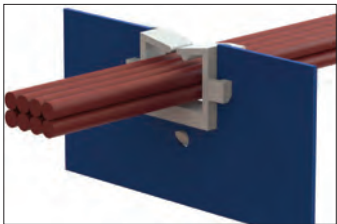
Thru Hole Panel
Cut-Out



Edge Hole Panel
Cut-Out

Item No.	Figure	Panel Thickness		A		Depth		Bulk Pack Qty
		in	mm	in	mm	in	mm	
HEWSE-22-01	1	0.020 - 0.063	0.5 - 1.6	0.980	25.0	0.260	6.6	1000
HEWSE-25-01	2	0.031 - 0.063	0.8 - 1.6	0.980	25.0	0.260	6.6	1000
HEWSE-25-01	2	0.079	2.0	1.020	26.0	0.260	6.6	1000

LEWSE Series
Edge Wire Saddles



Recommended Panel Cut-Out

Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:

- Locking pin in mounting base provides firm grip to the board
- Protects wires from sharp edges
- Available in four different sizes

Item No.	Panel Thickness	A Ref.	B Ref.	C Ref.	D	E	F	I	G	R. J	R. K	Bulk Pack Qty
		in	in	in	in	in	in	in	in	in	in	
LEWSE-14-01	0.031 - 0.063	0.780	0.460	0.290	0.640	0.160	0.551	0.484	0.106	0.079	0.039	1000
LEWSE-19-01	0.031 - 0.063	1.060	0.660	0.590	0.980	0.150	0.756	0.831	0.100	0.079	0.039	1000
LEWSE-21-01	0.031 - 0.063	1.130	0.660	0.580	0.980	0.150	0.827	0.827	0.100	0.079	0.060	1000
LEWSE-27-01	0.031 - 0.063	1.370	0.900	0.910	1.310	0.120	10.630	1.140	0.106	0.079	0.060	1000

MCCG Series
Metal Cushioned Grommets

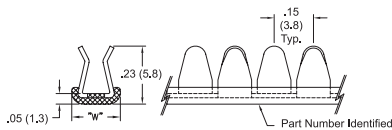


Figure 1

Specifications:

- Material: 304 Stainless Steel, Coated with Black Nylon 11
- Cushion: UL94 V-0 TPE (60 Shore D)
- Temperature Range: -40°F - 185°F (-40°C - 85°C)

Features:

- Dielectric Strength: 1500 volts @ 60Hz
- Flexible polymer cushion gives additional abrasion protection
- Sold in 100 foot reels that can be cut to length using metal shears
- The MCCGF is the more flexible of the two due to the design

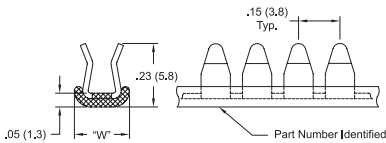


Figure 2

Item No.	Figure	Fits Panel Thickness		Width W		Roll Length
		in	mm	in	mm	
MCCG-1N	MCCGF-1N	0.029 - 0.045	0.7 - 1.1	0.190	4.8	100
MCCG-2N	MCCGF-2N	0.044 - 0.056	1.1 - 1.4	0.190	4.8	100
MCCG-3N	MCCGF-3N	0.055 - 0.069	1.4 - 1.7	0.190	4.8	100
MCCG-4N	—	0.069 - 0.090	1.7 - 2.3	0.230	5.8	100
MCCG-6N	—	0.113 - 0.130	2.9 - 3.3	0.230	5.8	100

GROMMET EDGING

MCG/MCGF Series
Metal Grommets

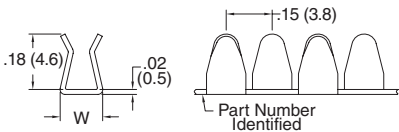
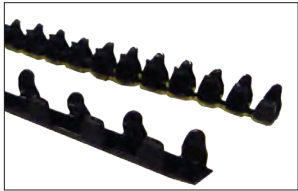


Figure 1

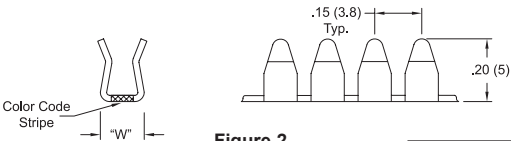
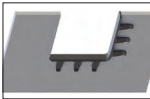


Figure 2



Specifications:

- Material: 304 Stainless Steel, Coated with Black Nylon 11 and a cushion of TPE 60 Shore D UL94V-0 rating
- Color: See Table
- Temperature Range: -40°F - 285°F (-40°C - 140°C)

Features:

- Dielectric Strength: 1000 Volts @ 60Hz
- Locks onto panel with finger pressure
- Sold in 100 foot reels that can be cut to length using metal shears
- The MCGF is the more flexible of the two due to the design

Item No.		Fits Panel Thickness		Width W		Color Coded	Roll Length	
Figure 1	Figure 2	in	mm	in	mm		ft	
MCG-1N	—	0.029 - 0.045	0.7 - 1.1	0.140	3.6	—	100	
MCG-2N	—	0.044 - 0.056	1.1 - 1.4	0.140	3.6	—	100	
MCG-3N	—	0.055 - 0.069	1.4 - 1.7	0.140	3.6	—	100	
MCG-4N	—	0.069 - 0.090	1.7 - 2.3	0.180	4.6	—	100	
MCG-6N	—	0.113 - 0.130	2.9 - 3.3	0.180	4.6	—	100	
—	MCGF-1N	0.029 - 0.045	0.7 - 1.1	0.130	3.3	White	100	
—	MCGF-2N	0.044 - 0.056	1.1 - 1.4	0.130	3.3	Pink	100	
—	MCGF-3N	0.055 - 0.069	1.4 - 1.7	0.130	3.3	Yellow	100	

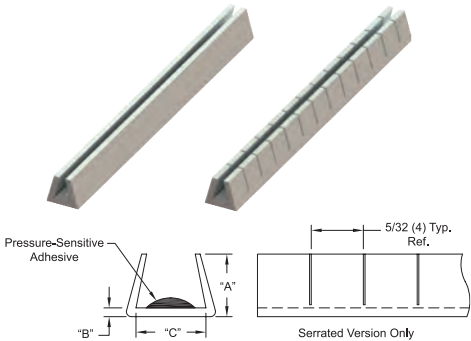
NGSG/SNGSG/PGSG/SPGSG Series
Continuous Grommet Edging with Adhesive

Specifications:

- Material Options:
 - UL94 HB Nylon Temperature Range: -40°F - 149°F (-40°C - 65°C)
 - Polyethylene: Temperature Range: 32°F - 149°F (0°C - 65°C)
- Color: See Table

Features:

- Adhesive provides self-retaining grip eliminating the need for epoxy
- Sizes 6, 7, and 8 are extra flexible
- Solid version is for straight edges
- Serrated version for round, square, and rectangular holes
- Polyethylene material is very flexible



Solid Profile Item No.		Serrated Profile Item No.		Material	Panel Thickness Range		A Ref.		B Ref.		C Ref.		Roll Length
Natural	Black	Natural	Black		in	mm	in	mm	in	mm	in	mm	
NGSG-2	—	SNGSG-2	SNGSG-2B	UL94 HB Nylon	0.037 - 0.071	0.9 - 1.8	0.172	4.4	0.031	0.8	0.109	2.8	100
NGSG-2.5	—	SNGSG-2.5	—	UL94 HB Nylon	0.072 - 0.105	1.8 - 2.7	0.172	4.4	0.031	0.8	0.109	2.8	100
NGSG-3	—	SNGSG-3	—	UL94 HB Nylon	0.106 - 0.164	2.7 - 4.2	0.188	4.8	0.047	1.2	0.156	4.0	100
PGSG-2	PGSG-2B	SPGSG-2	SPGSG-2B	Polyethylene	0.037 - 0.071	0.9 - 1.8	0.172	4.4	0.031	0.8	0.109	2.8	100
PGSG-6	PGSG-6B	SPGSG-6	—	Polyethylene	0.037 - 0.071	0.9 - 1.8	0.160	4.1	0.025	0.6	0.060	1.5	100
PGSG-2.5	PGSG-2.5B	SPGSG-2.5	SPGSG-2.5B	Polyethylene	0.072 - 0.105	1.8 - 2.7	0.172	4.4	0.031	0.8	0.109	2.8	100
—	—	SPGSG-7	—	Polyethylene	0.072 - 0.105	1.8 - 2.7	0.188	4.8	0.035	0.9	0.100	2.5	100
PGSG-3	PGSG-3B	SPGSG-3	SPGSG-3B	Polyethylene	0.106 - 0.164	2.7 - 4.2	0.188	4.8	0.047	1.2	0.156	4.0	100
—	—	SPGSG-8	—	Polyethylene	0.106 - 0.164	2.7 - 4.2	0.188	4.8	0.035	0.9	0.156	4.0	100

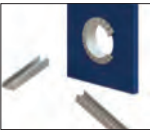
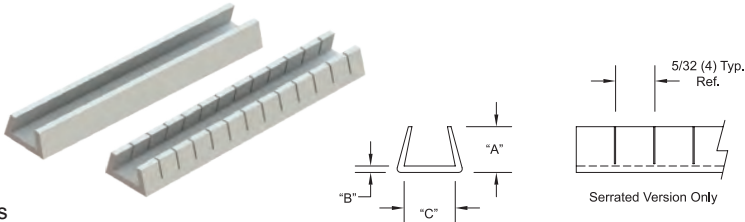
NGS/PGS/SNGS/SPGS Series
Continuous Grommet Edging

Specifications:

- Material: See Table
- Color: See Table

Features:

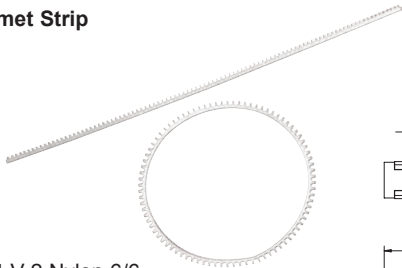
- Solid version is for straight edges
- Serrated version for round, square, and rectangular holes
- Polyethylene material is very flexible



Solid Profile Item No.		Serrated Profile Item No.		Material	Panel Thickness Range		A Ref.		B Ref.		C Ref.		Roll Length
Natural	Black	Natural	Black		in	mm	in	mm	in	mm	in	mm	
NGS-1	—	SNGS-1	SNGS-1B	UL94 HB Nylon	0.026-0.036	0.7 - 0.9	0.125	3.2	0.031	0.8	0.031	0.8	100
NGS-2	—	SNGS-2	SNGS-2B	UL94 HB Nylon	0.037-0.071	0.9 - 1.8	0.172	4.4	0.031	0.8	0.109	2.8	100
—	—	SNGS-2.5	SNGS-2.5B	UL94 HB Nylon	0.072-0.105	1.8 - 2.7	0.172	4.4	0.031	0.8	0.109	2.8	100
—	—	SNGS-3	SNGS-3B	UL94 HB Nylon	0.106-0.164	2.7 - 4.2	0.188	4.8	0.047	1.2	0.156	4.0	100
—	—	SNGS-4	SNGS-4B	UL94 HB Nylon	0.164-0.187	4.2 - 4.7	0.188	4.8	0.047	1.2	0.188	4.8	100
—	—	SNGS-5	—	UL94 HB Nylon	0.188-0.250	4.8 - 6.4	0.188	4.8	0.047	1.2	0.250	6.4	100
PGS-1	PGS-1B	SPGS-1	—	Polyethylene	0.026-0.036	0.7 - 0.9	0.125	3.2	0.031	0.8	0.031	0.8	100
PGS-2	PGS-2B	SPGS-2	—	Polyethylene	0.037-0.071	0.9 - 1.8	0.172	4.4	0.031	0.8	0.109	2.8	100
PGS-2.5	PGS-2.5B	SPGS-2.5	SPGS-2.5B	Polyethylene	0.072-0.105	1.8 - 2.7	0.172	4.4	0.031	0.8	0.109	2.8	100
PGS-3	—	SPGS-3	—	Polyethylene	0.106-0.164	2.7 - 4.2	0.188	4.8	0.047	1.2	0.156	4.0	100

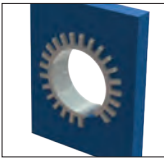
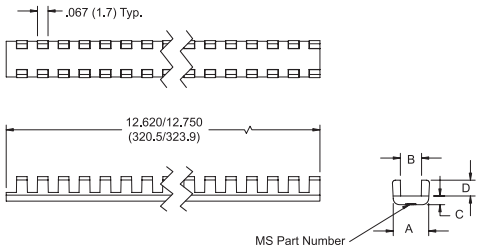
GROMMET EDGING

MGS Series
MS21266 Grommet Strip



- Specifications:
- Material: UL94 V-2 Nylon 6/6
 - Color: Natural

- Features:
- Ideally suited to cover normal and irregular shaped holes in sheet metal
 - Complies with NASM21266
 - Minimum hole diameter is 1"



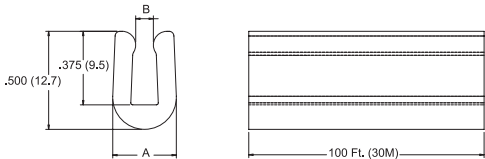
Item No.	Military Part Number	Panel Thickness	A		B		C		D		Bulk Pack Qty
			in		in		in		in		
MGS-1-01	MS21266-1N	0.015 - 0.052	0.150		0.056		0.055		0.100		100
MGS-2-01	MS21266-2N	0.052 - 0.085	0.175		0.090		0.055		0.100		100
MGS-3-01	MS21266-3N	0.085 - 0.128	0.220		0.131		0.055		0.100		100
MGS-4-01	MS21266-4N	0.128 - 0.192	0.325		0.195		0.070		0.160		100
MGS-5-01	MS21266-5N	0.192 - 0.255	0.385		0.260		0.070		0.170		100
MGS-6-01	MS21266-6N	0.255 - 0.318	0.445		0.320		0.075		0.180		100
MGS-8-01	MS21266-8N	0.380 - 0.510	0.640		0.515		0.075		0.180		50

RG Series
Rubber Grommet Edging



- Specifications:
- Material: TPE
 - Color: Black

- Features:
- Supplied in rolls that can be cut to required length
 - Prevents wires and cables from chafing against sharp edges



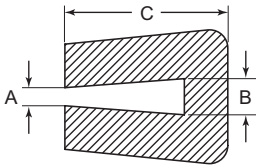
Item No.	Fits Panel Thickness		A Ref		B Max		Roll Length	
	in	mm	in	mm	in	mm	ft	m
RG-1	0.063	1.6	0.264	6.7	0.030	0.8	100	30
RG-2	0.093	2.4	0.293	7.4	0.060	1.5	100	30
RG-3	0.125	3.2	0.324	8.2	0.090	2.3	100	30

GRE Series
PVC Grommet Edging



- Specifications:
- Material: Soft PVC
 - Color: Black

- Features:
- Protects sharp or delicate edges
 - Fits irregular shapes and a range of panel thicknesses
 - PVC material is non-staining; resistant to ozone, acids, and sunlight; with excellent aging qualities



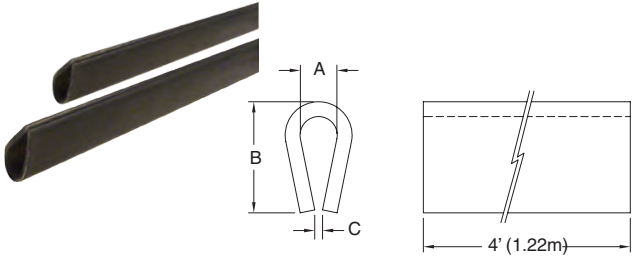
Item No.	Panel Thickness A		Panel Thickness B		Overall Width C		Roll Length	
	in	mm	in	mm	in	mm	ft	m
GRE32343A	0.031	0.78	0.047	1.19	0.276	7.01	164	50
GRE34074A	0.039	0.99	0.079	2.00	0.315	8.00	164	50
GRE34075A	0.059	1.49	0.110	2.79	0.374	9.50	164	50
GRE34076A	0.106	2.69	0.149	3.78	0.413	10.49	164	50
GRE34077A	0.146	3.70	0.204	5.18	0.433	11.00	164	50
GRE34078A	0.209	5.30	0.267	6.78	0.512	13.00	164	50

GROMMET EDGING, CHANNELS & INSULATORS

DSC Series
Nylon Grommet Edging

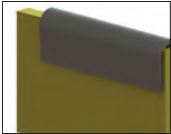
Specifications:

- Material: UL94 HB
MDS Filled Nylon
- Color: Gray



Features:

- Used as wear strips, non-abrasive edging, noise-reducing conveyor strips, framing, binding, or to protect from sharp edges
- Built-in lubricant for reduced friction and longer part life
- Resistant to ordinary solvents, mild acids and alkalis or fungus growth
- Comes in 4 foot lengths that can be cut to desired length



Item No.	A Fits Panel Thickness		B		C Ref		Wall Thickness		Length		Packaged
	in	mm	in	mm	in	mm	in	mm	ft	m	
DSC-5-48	0.062	1.6	0.300	7.6	0.031	0.8	0.031	0.8	4	1.22	100 Ft
DSC-1-48	0.125	3.2	0.375	9.5	0.020	0.5	0.047	1.2	4	1.22	100 Ft
DSC-2-48	0.188	4.8	0.500	12.7	0.031	0.8	0.047	1.2	4	1.22	100 Ft
DSC-3-48	0.250	6.4	0.625	15.9	0.045	1.1	0.063	1.6	4	1.22	100 Ft

CH Series
Polystyrene Channel



Specifications:

- Material: ULB94 HB
Polystyrene
- Color: White

Features:

- Protects from sharp edges
- Binds and frames
- Sold in 4 foot lengths that can be cut to desired length

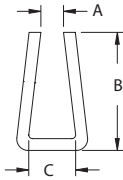


Fig. 1



Fig. 2

Item No.	Fits Panel Thickness		A Ref		B Ref		C Min.		Figure	Length		Packaged
	in	mm	in	mm	in	mm	in	mm		ft	m	
CH200X250-48	0.250	6.4	0.200	5.1	0.375	9.5	0.25	6.4	1	4	1.22	100 ft
CH15X50-48	0.050	1.3	0.015	0.4	0.437	11.1	0.05	1.3	1	4	1.22	100 ft
CH20X141-48	0.140	3.6	0.020	0.5	0.562	14.3	0.14	3.6	2	4	1.22	100 ft

OS Series
Straight Terminal Insulators

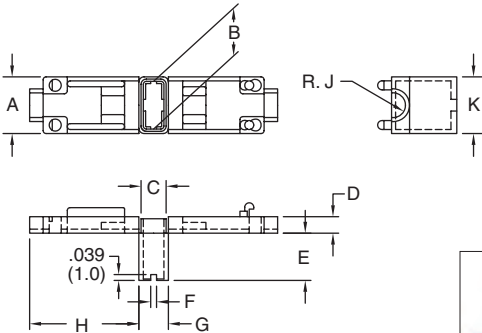


Specifications:

- Material: UL94 V-2 Nylon 6
- Color: Natural

Features:

- Insulating sleeve for straight type receptacles
- Installs easily by hand; slip the sleeve onto receptacle and snap shut with fingers
- For pre-assembled wire and receptacle



Item No.	Approval	Terminal Type	Ø Wire		A		B		C		D		E		F		G		H		R.J		K		Bulk Pack Qty
			in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	
OS-187	UL	Straight Type 187 Series	9/64	3.6	0.346	8.8	0.240	6.1	0.106	2.7	0.102	2.6	0.268	6.8	0.039	1.0	0.154	3.9	0.594	15.1	0.071	1.8	0.295	7.5	500
OS-250	UL	Straight Type 187 Series	5/32	3.8	0.386	9.8	0.311	7.9	0.164	3.4	0.110	2.8	0.315	8.0	0.039	1.0	0.185	4.7	0.728	18.5	0.081	2.1	0.358	9.1	500

OF Series
Flag Terminal Insulators

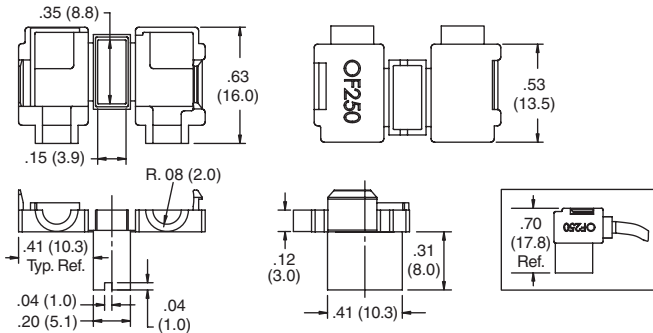


Specifications:

- Material: UL94 V-2 Nylon 6
- Color: Natural

Features:

- Insulating sleeve for flag type receptacles
- Installs easily by hand; slip the sleeve onto receptacle and snap shut with fingers
- For pre-assembled wire and receptacle



Item No.	Approval	Terminal Type	Wire Ø		Bulk Pack Qty
			in	mm	
OF-250		Flag Type 250 Series	0.150	3.9	500

Quick Fit Straight Terminal Insulators

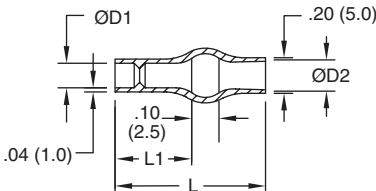
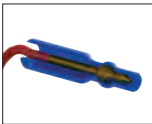


Figure 1

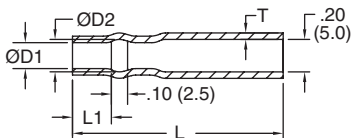


Figure 2

Specifications:

- Material: UL94 V-0 Soft PVC
- Color: Transparent Blue
- UL Temperature Range: 221°F (105°C)
- UL Voltage: 600V

Features:

- Replaces heat shrink tubing
- Made from a specially formulated soft PVC for fast, flexible installation
- Transparent for visual inspection
- No corrosion when exposed to copper

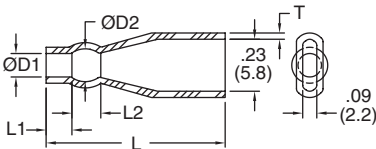


Figure 3

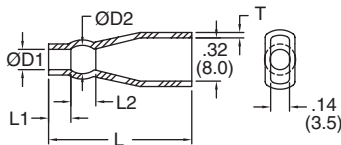


Figure 4

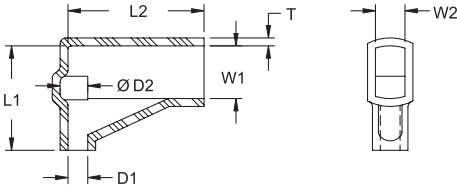
Item No.	Figure	Wire OD Range		Wire Gauge	Ø D1		Ø D2		L1		L2		L		T		Bulk Pack Qty
		in	mm		in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	
224225	1	0.580 - 0.091	1.5 - 2.3	22 - 18	0.100	2.5	0.160	4.1	0.240	6.1	—	—	0.510	13.0	—	—	1000
224230	1	0.068 - 0.113	1.7 - 2.9	20 - 18	0.120	3.0	0.160	4.1	0.240	6.1	—	—	0.510	13.0	—	—	1000
215025	2	0.580 - 0.091	1.5 - 2.3	22 - 18	0.100	2.5	0.160	4.1	0.240	6.1	—	—	1.300	33.0	0.040	1.0	1000
215032	2	0.071 - 0.126	1.8 - 3.2	18 - 16	0.130	3.3	0.180	4.6	0.280	7.1	—	—	1.340	34.0	0.040	1.0	1000
235830	3	0.580 - 0.091	1.5 - 2.3	20 - 18	0.120	3.0	0.160	4.0	0.200	5.0	0.100	2.5	0.910	23.0	0.030	.08	1000
235835	3	0.071 - 0.140	1.8 - 3.6	18 - 14	0.140	3.5	0.180	4.5	0.200	5.0	0.120	3.0	0.910	23.0	0.030	.08	1000
238032	4	0.071 - 0.126	1.8 - 3.2	18 - 16	0.130	3.3	0.190	4.8	0.200	5.1	0.100	2.5	0.950	24.1	0.040	1.0	1000
238035	4	0.071 - 0.140	1.8 - 3.6	18 - 14	0.140	3.6	0.180	4.6	0.200	5.1	0.120	3.0	0.950	24.1	0.040	1.0	1000
238040	4	0.091 - 0.140	2.3 - 3.6	16 - 14	0.160	4.1	0.200	5.1	0.200	5.1	0.120	3.0	0.970	24.6	0.040	1.0	1000
238048	4	0.113 - 0.190	2.9 - 4.8	14 - 12	0.190	4.8	0.250	6.3	0.200	5.1	0.100	2.5	0.980	24.6	0.040	1.0	1000

INSULATORS & CONNECTORS

Quick Fit Flag Terminal Insulators

- Specifications:
- Material: UL94 V-0 Soft PVC
 - Color: Transparent Blue
 - UL Temperature Range: 221°F (105°C)
 - UL Voltage: 600V

- Features:
- Replaces heat shrink tubing
 - Made from a specially formulated soft PVC for fast, flexible installation
 - Transparent for visual inspection
 - No corrosion when exposed to copper

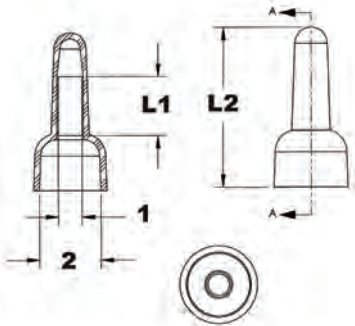


Item No.	Wire OD Range		Wire Gauge	Ø D1		Ø D2		L1		L2		W1		W2		T		Bulk Pack Qty
	in	mm		in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	
248532	0.071 - 0.126	1.8 - 3.2	18 - 16	0.130	3.2	0.170	4.2	0.530	13.5	0.690	17.5	0.340	8.5	0.180	4.5	0.040	1.0	1000
248548	0.133 - 0.190	2.9 - 4.8	14 - 12	0.190	4.8	0.230	5.8	0.530	13.5	0.690	17.5	0.340	8.5	0.180	4.5	0.040	1.0	1000

NM Series
Closed End Wire Connectors

- Specifications:
- Material: UL94 V-2 Nylon 6/6
 - Material: Insert: Tin Plated Copper
 - Color: Natural

- Features:
- Nylon insulated and UL approved
 - Easy installation, simply insert pre-stripped wires into connector tube and crimp with a crimping tool to hold wires firmly, even in vibration

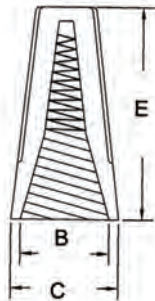


Item No.	Approval	Wire Gauge	L1		L2		1		2		Bulk Pack Qty
			in	mm	in	mm	in	mm	in	mm	
NM22WC01	UL	22 - 16	0.275	6.9	0.787	20.0	0.094	2.4	0.307	7.8	100
NM22WC02	UL	16 - 14	0.295	7.5	0.787	20.0	0.118	3.0	0.307	7.8	100
NM22WC05	UL	12 - 10	0.335	8.5	1.004	25.5	0.165	4.1	0.409	10.3	100
NM22WC08	—	8	0.374	9.5	1.071	27.2	0.165	4.7	0.472	12.0	100

NM Series
Screw On Wire Connectors

- Specifications:
- Material: PVC with Spring Inserted
 - Color: See Table

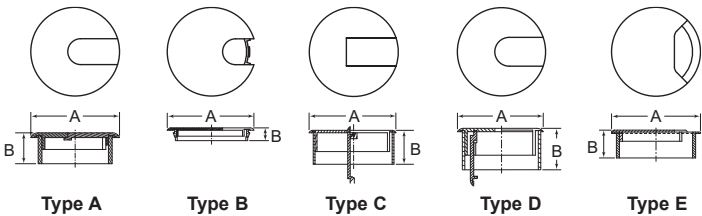
- Features:
- Easy to use, simply strip wires and screw on connector
 - Maximum Temperature of 221°F (105°C)
 - Shell is made from durable PVC with a spring inserted



Item No.	Color	Ø B		Ø C		E		Wire Combination	Bulk Pack Qty
		in	mm	in	mm	in	mm		
NM22SWC71	GRAY	0.256	6.5	0.338	8.6	0.598	15.2	MIN#20X1+##22X1 MAX#16X2	100
NM22SWC72	BLUE	0.280	7.1	0.390	9.9	0.697	17.7	MIN#20X3 MAX#16X3	100
NM22SWC73	ORANGE	0.382	9.7	0.496	12.6	0.866	22.0	MIN#20X3 MAX#16X3+##18X1	100
NM22SWC74	YELLOW	0.433	11.0	0.551	14.0	0.961	24.4	MIN#14X1+##18X1 MAX#14X4+##18X1	100
NM22SWC76	RED	0.516	13.1	0.645	16.3	1.043	26.5	MIN#14X2 MAX#10X2+##12X2	100

DESK GROMMETS

WMRG Series
Round Desk Grommets



Specifications:

- Material: See Table
- Color: Black
- Surface Finish: See Table

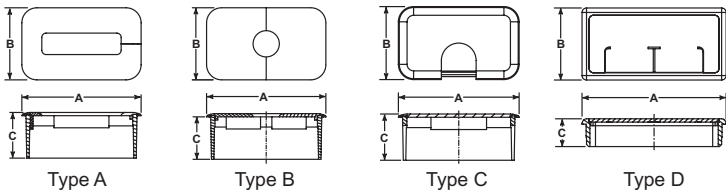
Features:

- Used extensively on office furniture and computer desks to eliminate the clutter of wires and cables
- Several shapes and styles; most can be coordinated to match the color of your desk surface
- Layer packed for your convenience and to protect the surface during shipping



Item No.	Type	Style	A		B		Ø To Fit Hole		Material	Surface Finish	Bulk Pack Qty
			in		in		in				
WMRG100A	A	3-PIECE	1.500		0.469		1.250		ABS	Textured	1000
WMRG110B	D	3-PIECE	2.250		1.000		2.000		ABS	Polished	400
WMRG130A	D	3-PIECE	2.250		1.000		2.000		ABS	Textured	600
WMRG140A	B	2-PIECE	3.000		0.540		2.500		ABS	Textured	750
WMRG160A	C	3-PIECE	3.000		1.050		2.750		ABS	Textured	400
WMRG170C	A	3-PIECE	3.000		1.050		2.750		ABS	Polished	300
WMRG180B	E	2-PIECE	3.625		1.100		3.250		PS	Textured	240
WMRG190B	D	3-PIECE	2.250		1.000		2.000		ABS	Textured	400

WMTG Series
Rectangular Table Grommets



Specifications:

- Material: See Table
- Color: Black
- Surface Finish: Textured

Features:

- Wire management grommets are used extensively on office furniture and computer desks to eliminate the clutter of wires and cables

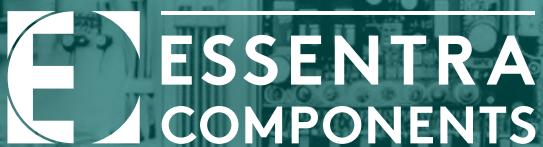
Item No.	Type	Style	A		B		C		Ø To Fit Hole		Material	Surface Finish	Bulk Pack Qty
			in		in		in		in				
WMTG100A	B	3-Piece	3.500		2.125		0.700		3.250 x 1.875		ABS	Textured	525
WMTG110A	B	3-Piece	3.500		2.125		1.250		3.230 x 1.865		ABS	Textured	315
WMTG120A	A	2-Piece	3.475		2.102		1.250		3.250 x 1.865		ABS	Textured	189
WMTG150A	B	2-Piece	3.500		2.134		1.287		3.250 x 1.865		ABS	Textured	320
WMTG170A	C	2-Piece	3.365		2.245		1.750		3.125 x 2.000		ABS	Textured	204
WMTG180A	D	2-Piece	4.020		2.010		0.775		3.770 x 1.750		Polypropylene	Textured	288

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