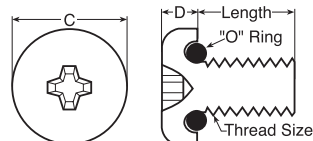
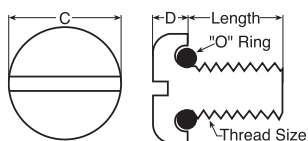


SEALING SCREWS

Sealing screws are designed with a groove underneath the head to accommodate an O-ring. When tightened, the O-ring is compressed against the connector flange a seal against air, water, and gas. These screws are also vibration-resistant. The reservoir beneath the head confines the O-ring and permits full metal-to-metal

contact between the screw and the connector flange. Sealing screws can be reused without spoiling the sealing action. Sealing screws are used in conjunction with the nut plates below.



SLOTTED PAN HEAD						
PART NUMBER	THREAD	LENGTH	C MAX.	D MAX.	CLEAR HOLE	
					MIN.	MAX.
S-440-3/8	4-40NC-2A	3/8"	.220"	.069"	.125"	.129"
S-440-1/2		1/2"				
S-440-5/8		5/8"				
S-440-3/4		3/4"				
S-632-3/8	6-32NC-2A	3/8"	.271"	.083"	.147"	.152"
S-632-1/2		1/2"				
S-632-5/8		5/8"				
S-632-3/4		3/4"				
Metric						
SM4-12mm	M4	12mm	CALL	CALL	CALL	CALL
SM5-12mm	M5	12mm	CALL	CALL	CALL	CALL

PHILLIPS PAN HEAD (MEETS MS3212 & MS3213)						
PART NUMBER	THREAD	LENGTH	C MAX.	D MAX.	CLEAR HOLE	
R-440-3/8	4-40NC-2A	3/8"	.238"	.080"	.125"	.129"
R-440-1/2		1/2"				
R-440-5/8		5/8"				
R-440-3/4		3/4"				
R-632-3/8	6-32NC-2A	3/8"	.294"	.097"	.147"	.152"
R-632-1/2		1/2"				
R-632-5/8		5/8"				
R-632-3/4		3/4"				

Material: Passivated stainless steel screws & silicone rubber O-rings

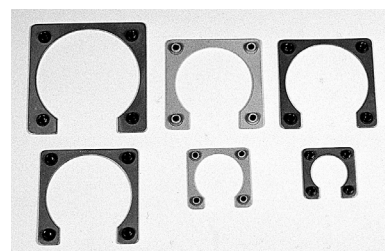
Additional threads, lengths, and styles available. Contact us for ordering information.

NUT PLATES

Nut plates are flat metal brackets containing four captive nuts that are used to mount flanged receptacles to a panel. They eliminate the challenge of working with loose nuts in a confined area and effectively distribute the screw tension across the back of the panel. These cost-effective devices are "self-wrenching," drawing

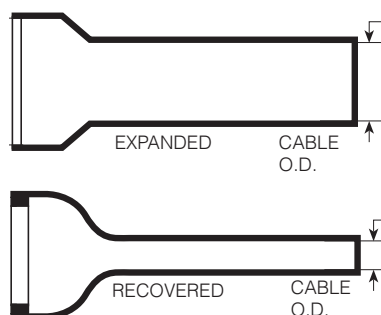
the bracket up for automatic alignment. Our plates are a "C" shape, design which allows you to slip the nut plate over the wire bundle just prior to mounting. The bracket is aluminum alloy with alodine plating and the nuts are steel alloy-plated with cadmium. Nut plates mate with above sealing screws.

CONNECTOR STYLES		MIL-DTL-5015	MIL-DTL-26482		MIL-DTL-38999		
PART NUMBER	THREAD	MS350, 9440 MS3452,9442 97, AIT, MS AIB/GT	PT/PTSE, 62GB, MB10, MS3470	MB12, MS3472	LJT SERIES I/ HE308	SJT, JN1003 JT SERIES II	AL00, TV-CTV SERIES III
M85049/95-8A	4-40	8/8S	8			8	
M85049/95-10A	4-40	10S/10SL	10		9	10	A/9
M85049/95-10B	6-32			10			
M85049/95-12A	4-40	12/12S	12	10	11	12	B/11
M85049/95-12B	6-32			12			
M85049/95-14A	4-40	14/14S	14		13	14	C/13
M85049/95-14B	6-32			14			
M85049/95-16A	4-40	16/16S/RJF544	16		15	16	D/15
M85049/95-16B	6-32			16			
M85049/95-18A	4-40	18	18/RJF		17	18	E/17
M85049/95-18B	6-32			18			
M85049/95-20A	4-40	20	20/RJFTV		19	20	F/19
M85049/95-20B	6-32			20			
M85049/95-22A	4-40	22	22		21	22	G/21
M85049/95-22B	6-32			22			
M85049/95-24A	6-32			24	25		J/25
M85049/95-24B	6-32	24	24		23	24	H/23
M85049/95-25A	6-32				25		
M85049/95-28A	6-32	28					
M85049/95-32A	6-32	32					
M85049/95-36A	6-32	36					
AT283-40	8-32	40					



TORQUE	MAX.	
	IN/LB	MM
4-40	6.3	.71
6-32	10	1.12

STANDARD HEAT SHRINK BOOTS



Standard heat shrink boots are supplied in flame-retardant polyolefin with an adhesive inner liner. A high shrink-ratio version for sealing smaller wire bundles is also available. The adhesive liner is heat-activated and bonds to the underlying surface, filling any small voids that might exist. When cool, the adhesive forms a barrier against water, moisture, dirt and other environmental contaminants. The lip on the connector end of the recovered boot fits into the sealing groove. Operating temperature is -67° F to 275° F (-55° C to 135° C). These boots are also available in halogen-free polyolefin, semi-rigid polyolefin, silicone, or Viton, with or without adhesive liner.

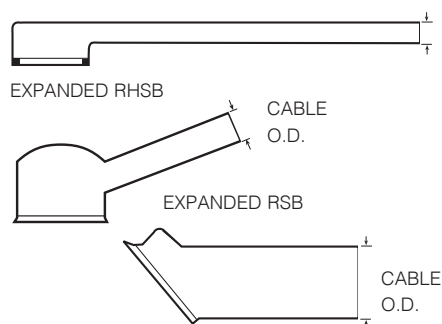
HEAT SHRINK BOOT PART NUMBER	CABLE O.D.		LENGTH ± 10%	AIT, AIB/GT G STYLE (MIL-DTL-5015) SHELL SIZE											
				10SL	12S	14S	16S/16	18	20	22	24	28	32	36	
	MAX.	MIN.													
HSB1	0.25 (6.4)	0.08 (2.0)	2.37 (60.2)	●	●										
HSB2	0.30 (7.6)	0.10 (2.5)	2.92 (74.2)			●	●	●							
HSB3	0.38 (9.7)	0.12 (3.0)	3.32 (84.3)						●	●					
HSB4	0.45 (11.4)	0.14 (3.6)	3.92 (99.6)								●	●			
SB1	0.88 (22.4)	0.25 (6.4)	4.17 (105.9)	●	●	●									
SB2	1.01 (25.7)	0.29 (7.4)	4.77 (121.2)	●	●	●	●	●							
SB3	1.16 (29.5)	0.33 (8.4)	5.46 (138.7)			●	●	●							
SB4	1.34 (34.0)	0.39 (9.9)	6.28 (159.5)				●	●	●	●					
SB5	1.47 (37.3)	0.41 (10.4)	7.00 (177.8)						●	●					
SB6	1.72 (43.7)	0.48 (11.2)	8.00 (203.2)								●	●			
SB7	1.97 (50.0)	0.51 (13.0)	8.00 (203.2)										●	●	
SB8	2.47 (62.7)	0.69 (17.5)	8.00 (203.2)										●	●	

HEAT SHRINK BOOT PART	CABLE O.D.		± 10%	MB M85049/60 (MIL-DTL-26482 STYLE) SHELL SIZE										LJT/SJT/JT M85049/62 & TV-CTV M85049/69 (MIL-DTL-38999 STYLE) SHELL SIZE									
				LENGTH																			
	MAX.	MIN.		8	10	12	14	16	18	20	22	24	A	B	C	D	E	F	G	H	J		
NUMBER	MAX.	MIN.	± 10%	8	10	12	14	16	18	20	22	24	8/9	10/11	12/13	14/15	16/17	18/19	20/21	22/23	24/25		
HSB1	0.25 (6.4)	0.08 (2.0)	2.37 (60.2)	●	●								●	●									
HSB2	0.30 (7.6)	0.10 (2.5)	2.92 (74.2)			●	●	●							●	●	●						
HSB3	0.38 (9.7)	0.12 (3.0)	3.32 (84.3)						●	●								●	●				
HSB4	0.45 (11.4)	0.14 (3.6)	3.92 (99.6)								●	●								●	●		
SB1	0.88 (22.4)	0.25 (6.4)	4.17 (105.9)	●	●	●	●						●	●	●	●							
SB2	1.01 (25.7)	0.29 (7.4)	4.77 (121.2)		●	●	●	●						●	●	●	●						
SB3	1.16 (29.5)	0.33 (8.4)	5.46 (138.7)			●	●	●	●						●	●	●	●					
SB4	1.34 (34.0)	0.39 (9.9)	6.28 (159.5)					●	●	●						●	●	●	●				
SB5	1.47 (37.3)	0.41 (10.4)	7.00 (177.8)							●	●	●						●	●	●			
SB6	1.72 (43.7)	0.48 (11.2)	8.00 (203.2)								●	●								●	●		

All dimensions in inches (millimeters in parenthesis)

RIGHT ANGLE HEAT SHRINK BOOTS

RECOVERED RSB and RHSB



Right angle heat shrink boots are supplied in flame-retardant polyolefin with an adhesive inner liner. A high shrink-ratio version for sealing smaller wire bundles is also available. The adhesive liner is heat-activated and bonds to the underlying surface, filling any small voids that might exist. When cool, the adhesive forms a barrier against water, moisture, dirt and other environmental contaminants. The lip on the connector end of the recovered boot fits into the sealing groove. Operating temperature is -67° F to 275° F (-55° C to 135° C). These boots are also available in halogen-free polyolefin, semi-rigid polyolefin, silicone, or Viton, with or without adhesive liner.

HEAT SHRINK BOOT PART NUMBER	CABLE O.D.		LENGTH ± 10%	AIT, AIB/GT G STYLE (MIL-DTL-5015 STYLE) SHELL SIZE											
	MAX	MIN		10SL	12S	14S	16S/16	18	20	22	24	28	32	36	
RHSB1	0.24 (6.1)	0.08 (2.0)	1.77 (45.0)	●	●										
RHSB2	0.30 (7.6)	0.10 (2.5)	2.64 (67.1)			●	●	●							
RHSB3	0.37 (9.4)	0.12 (3.0)	3.17 (81.0)						●	●					
RHSB4	0.45 (11.4)	0.14 (3.6)	4.57 (116.1)							●	●	●	●		
RSB1	0.88 (22.4)	0.23 (5.8)	4.14 (105.2)	●	●										
RSB2	1.01 (25.7)	0.26 (6.6)	4.88 (124.0)	●	●	●	●	●							
RSB3	1.16 (29.5)	0.30 (7.6)	5.76 (146.3)			●	●	●							
RSB4	1.34 (34.0)	0.35 (8.9)	6.78 (172.2)				●	●	●	●					
RSB5	1.47 (37.3)	0.37 (9.4)	7.29 (185.2)						●	●					
RSB6	1.72 (43.7)	0.44 (11.2)	7.93 (201.4)								●	●			
RSB7	1.97 (50.0)	0.51 (13.0)	8.84 (224.5)								●	●	●	●	
RSB8	2.47 (62.7)	0.69 (17.5)	8.95 (227.3)										●	●	

HEAT SHRINK BOOT PART	CABLE O.D.		LENGTH ± 10%	MB M85049/60 (MIL-DTL-26482 STYLE) SHELL SIZE										LJT/SJT/JT M85049/62 & TV-CTV M85049/69 (MIL-DTL-38999 STYLE) SHELL SIZE									
														A	B	C	D	E	F	G	H	J	
	NUMBER	MAX.		MIN.		8	10	12	14	16	18	20	22	24	8/9	10/11	12/13	14/15	16/17	18/19	20/21	22/23	24/25
RHSB1	0.24 (6.1)	0.08 (2.0)	1.77 (45.0)	●	●								●	●									
RHSB2	0.30 (7.6)	0.10 (2.5)	2.64 (67.1)			●	●	●							●	●	●						
RHSB3	0.37 (9.4)	0.12 (3.0)	3.17 (81.0)						●	●								●	●				
RHSB4	0.45 (11.4)	0.14 (3.6)	4.57 (116.1)								●	●								●	●		
RSB1	0.88 (22.4)	0.23 (5.8)	4.14 (105.2)	●	●	●	●						●	●	●	●							
RSB2	1.01 (25.7)	0.26 (6.6)	4.88 (124.0)		●	●	●	●						●	●	●	●						
RSB3	1.16 (29.5)	0.30 (7.6)	5.76 (146.3)			●	●	●	●						●	●	●	●					
RSB4	1.34 (34.0)	0.35 (8.9)	6.78 (172.2)					●	●	●	●						●	●	●	●			
RSB5	1.47 (37.3)	0.37 (9.4)	7.29 (185.2)							●	●	●							●	●	●		
RSB6	1.72 (43.7)	0.44 (11.2)	7.93 (201.4)								●	●								●	●		

All dimensions in inches (millimeters in parenthesis)

BLACK POLYOLEFIN CONVOLUTED BOOTS



Convoluted boots are used in applications that require various cable outlet angles or if the cable harness requires quick access to connector wiring. When held in place on an angle while cooling, these boots will maintain their bend. If maximum connector serviceability is required, a two-piece spin coupling endbell should be used. The convoluted boot is used in conjunction with this spin coupling endbell, which allows the user to unthread and push the endbell back out of the way by heating the boot until it becomes flexible. The user can make the required repair, reheat the boot and rethread the backshell without having to cut off and replace the boot.

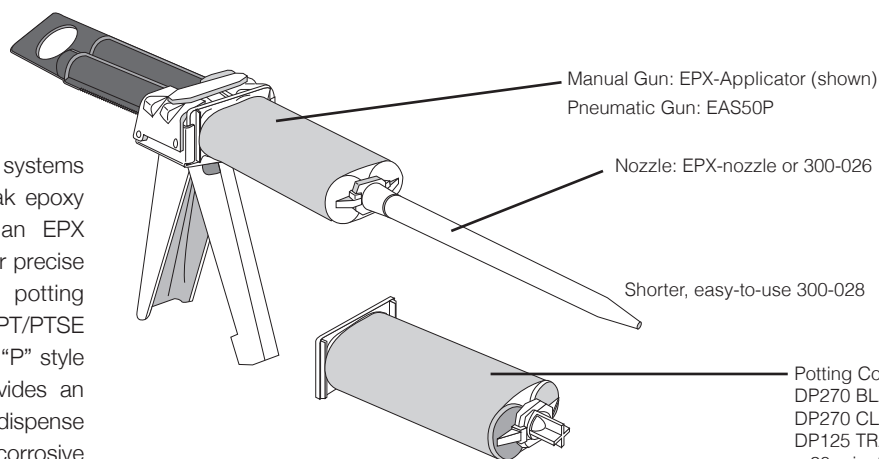
CONVOLUTED BOOTS	CABLE O.D.		LENGTH	MAX 90° LENGTH	AIT, AIB/GT G STYLE (MIL-DTL-5015 STYLE) SHELL SIZE										
	MAX.	MIN.			10SL	12S	14S	16S/16	18	20	22	24	28	32	36
CSB2	0.70 (17.8)	0.32 (8.1)	5.25 (133.4)	2.67 (67.8)	●	●	●								
CSB3	1.06 (26.9)	0.50 (12.7)	5.75 (146.1)	2.89 (73.4)			●	●	●	●	●				
CSB4	1.44 (36.6)	0.69 (17.5)	6.25 (158.8)	3.08 (78.2)				●	●	●	●	●	●		
CSB5	1.80 (45.7)	0.88 (22.4)	6.75 (171.5)	3.26 (82.8)						●	●	●	●	●	●
CSB6	2.15 (54.6)	0.90 (22.9)	9.30 (236.2)	5.45 (138.4)										●	●

CONVOLUTED BOOTS	CABLE O.D.		LENGTH	MAX 90° LENGTH	MB M85049/60 (MIL-DTL-26482 STYLE) SHELL SIZE								LJT/SJT/JT M85049/62 & TV-CTV M85049/69 (MIL-DTL-38999 STYLE) SHELL SIZE									
													A	B	C	D	E	F	G	H	J	
	MAX.	MIN.			8	10	12	14	16	18	20	22	24	8/9	10/11	12/13	14/15	16/17	18/19	20/21	22/23	24/25
CSB2	0.70 (17.8)	0.32 (8.1)	5.25 (133.4)	2.67 (67.8)	●	●							●	●								
CSB3	1.06 (26.9)	0.50 (12.7)	5.75 (146.1)	2.89 (73.4)			●	●	●	●				●	●	●	●					
CSB4	1.44 (36.6)	0.69 (17.5)	6.25 (158.8)	3.08 (78.2)					●	●	●	●	●			●	●	●	●	●		
CSB5	1.80 (45.7)	0.88 (22.4)	6.75 (171.5)	3.26 (82.8)							●	●	●		●	●	●					

NOTE: Allow 20% recovery for proper bonding of adhesive liner.

POTTING SYSTEM

3M Scotch-Weld™ EPX potting systems consist of a self-leveling Duo-Pak epoxy potting compound cartridge, an EPX applicator, and an EPX nozzle for precise mixing. 3M's two-part epoxy potting compound is for use with the PT/PTSE and MS-E/F/R, AIT & AIB series "P" style endbells. The EPX system provides an easy way to meter, mix and dispense potting compound. 3M's non-corrosive epoxy potting compound is specially-formulated for electronic applications. Available in black and clear.



3M

Manual Gun: EPX-Applicator (shown)
Pneumatic Gun: EAS50P

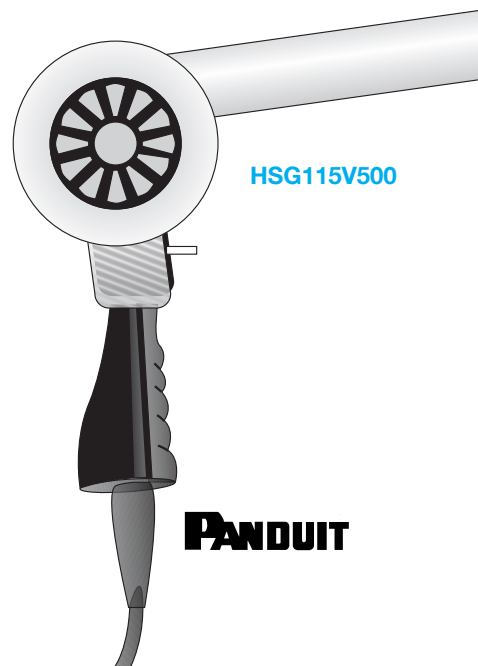
Nozzle: EPX-nozzle or 300-026

Shorter, easy-to-use 300-028

Potting Compound:
DP270 BLACK
DP270 CLEAR
DP125 TRANSLUSCENT
20-minute work-life
with excellent
wetting properties allows
same-day shipping of
assemblies
DP100 PLUS CLEAR
4-minute work-life;
Rapid setup for
automotive applications

HEAT GUN

The Panduit HSG115V500 heat gun is a general-purpose tool designed for all types of heat shrink boots and tubing. The air intake adjustment varies temperature from 500°F (260°C) to 650°F (344°C). The unit operates on 115 Vac at 11 amps. The tool comes with an adjustable stand and a neoprene AC cord. The bearings, brushes and heating element are replaceable.



HSG115V500

PANDUIT

PMAADAPTERS



PMAFIX Adapters are manufactured from specially-formulated polyamids that are self-extinguishing, free of halogen and cadmium and are extremely shock-resistant.

Simple mounting with locking clips ensures high pullout values and a vibration-free connection to PMAFLEX conduit. Using a snap-to-close clip fastening, PMAFIX connectors feature a unique safety mechanism that can only be released with a screwdriver. These connectors are ideal for use in applications where the cable protection system requires a high degree of sealing and safety.

 = Sealed to IP68 all others IP67

FOR MIL-DTL-5015, MS310-, AIT, AIB, GT & 97 STYLES

SHELL SIZE	CONNECTOR BARREL	THREADED A/B ENDBELL	PMA CONDUIT SIZE						
			10	12	17	23	29	36	48
8S		●	Contact us	Contact us					
10S	●		BFIBM-U120T	Contact us					
10SL		●	BVIRA-U150	BVIRA-U152					
12S/12	●	●	BVIRA-U150	BVIRA-U152					
12SL		●	BVIRA-U180	BVIRA-U182	BVIRA-U187				
14S/14	●	●	BVIRA-U180	BVIRA-U182	BVIRA-U187				
16S/16	●	●		BVIVG-U212	BVIVG-U217				
18	●	●		BVIVG-U242	BVIVG-U247	BVIVG-U243			
20	●	●		BVIVG-U292	BVIVG-U297	BVIVG-U293	BVIVG-U299		
22		●		BVIVG-U292	BVIVG-U297	BVIVG-U293	BVIVG-U299		
24		●		BVIVG-U352	BVIVG-U357	BVIVG-U353	BVIVG-U359	BVIVG-U356	
28		●		BVIVG-U352	BVIVG-U357	BVIVG-U353	BVIVG-U359	BVIVG-U356	
32		●			BVIVG-U437	BVIVG-U433	BVIVG-U439	BVIVG-U436	
36		●				BVIVG-U503	BVIVG-U509	BVIVG-U506	BVIVG-U508
40		●				BVIVG-U563	BVIVG-U569	BVIVG-U566	BVIVG-U568

FOR MIL-DTL-26482 SERIES 1 STYLES

SHELL SIZE	PT/PTSE CONNECTOR BARREL	PT A ENDBELL	PMA CONDUIT SIZE						
			10	12	17	23	29	36	48
8		●	Contact us	Contact us					
10	●		BFIBM-U120T	Contact us					
		●	BVIRA-U150	BVIRA-U152					
12	●			BVIRB-U162					
		●	BVIRA-U180	BVIRA-U182	BVIRA-U187				
14		●		BVIVG-U212	BVIVG-U217				
	●			BVIVB-U202					
16	●			BVIRB-U232	BVIRB-U237				
18	●			BVIRB-U262	BVIRB-U267				
20	●	●			BVIVG-U297	BVIVG-U293	BVIVG-U299	BVIVG-U296***	
22	●					BVIRB-U323			
		●			BVIRB-U357	BVIRB-U353	BVIRB-U359		
24	●	●			BVIVG-U357	BVIVG-U353	BVIVG-U359		

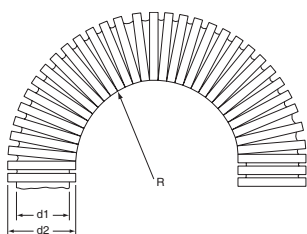
*** Uses an additional thread adapter

FOR MIL-DTL-26482 SERIES 2 STYLES

SHELL SIZE	MB/MS347_ CONNECTOR BARREL	PMA CONDUIT SIZE						
		10	12	17	23	29	36	48
8	●		BVIVG-U242	BVIVG-U247	BVIVG-U243			
10	●	BVIRA-U150	BVIRA-U152					
12	●	BVIRA-U180	BVIRA-U182	BVIRA-U187				
14	●		BVIVG-U212	BVIVG-U217				
16	●		BVIVG-U242	BVIVG-U242				
18	●		BVIRB-U262H	BFIVB-U267				
20	●		BVIVG-U292	BVIVG-U297	BVIVG-U293	BVIVG-U299		
22	●				BFILB-U323			
24	●			BVIVG-U357	BVIVG-U353	BVIVG-U359	BVIVG-U356	

H Special please contact us

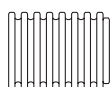
PMAFLEX PCS



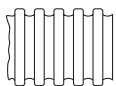
PMAFLEX PCS heavy-duty cable conduits are manufactured using modified polyamides that are free of halogen and cadmium. These impact-resistant conduits are rugged, easy to install and provide excellent resistance to UV rays and environmental corrosion.

They are CSA-approved (227.3) and UL-recognized: File # E-80294.

Temperature range -58°F to 221°F (-50°C to 105°C)



T-PROFILE



G-PROFILE

CONDUIT SIZE	PART NUMBER	PUT UP FEET (METERS)	D1	D2	STATIC NON-FLEXING BEND RADIUS	DYNAMIC FLEXING BEND RADIUS
T (THIN PROFILE) TIGHT BEND RADIUS						
10	PCST-10B	164 (50)	0.362 (9.2)	0.512 (13.0)	0.787 (20.0)	1.969 (50.0)
12	PCST-12B	164 (50)	0.465 (11.8)	0.622 (15.8)	0.984 (25.0)	2.756 (70.0)
17	PCST-17B	164 (50)	0.630 (16.0)	0.835 (21.2)	1.378 (35.0)	3.150 (80.0)
G (LARGE PROFILE) HIGH PULL-OUT STRENGTH						
17	PCSG-17B	164 (50)	0.598 (15.2)	0.835 (21.2)	1.378 (35.0)	3.346 (85.0)
23	PCSG-23B	164 (50)	0.866 (22.0)	1.122 (28.5)	1.575 (40.0)	4.331 (110.0)
29	PCSG-29B	164 (50)	1.091 (27.7)	1.354 (34.4)	1.969 (50.0)	5.118 (130.0)
36	PCSG-36B	98 (30)	1.409 (35.8)	1.669 (42.4)	2.362 (60.0)	7.087 (180.0)
48	PCSG-48B	98 (30)	1.843 (46.8)	2.142 (54.4)	2.756 (70.0)	8.661 (220.0)

NOTE: A wide array of conduits are available including high-temperature or ultraflexible for robotics.

F.CK SCREENING BRAID



F.CK Screening Braid is made of tin-plated copper and is supplied on a tube former. The tube former prevents the material from folding and greatly simplifies installation. This product is used in applications that require shielding from electromagnetic fields. F.CK Screening Braid is used over wires or cables but inside conduit.

Temperature range -103°F to 842°F (-75°C to 450°C).
Up to 95% electrical coverage.



NOTE: Contact us for EMI endbell adapters

PART NUMBER	WIRING	CROSS SECTION INCH ² (MM ²)	OPERATING RANGE INCH (MM)		WEIGHT PER 100 M LBS. (KG)	PCS CONDUIT SIZE
			MIN.	MAX.		
F.CK03	16X5X0.12	.035 (0.9)	.098 (2.5)	.138 (3.5)	2.86 (1.3)	-
F.CK04	16X7X0.12	.050 (1.3)	.118 (3.0)	.196 (5.0)	3.74 (1.7)	-
F.CK06	24X7X0.12	.075 (1.9)	.177 (4.5)	.354 (9.0)	4.62 (2.1)	07
F.CK10	24X9X0.14	.131 (3.3)	.275 (7.0)	.472 (12.0)	11.00 (5.5)	10
F.CK12.5	24X10X0.14	.145 (3.7)	.433 (11.0)	.551 (14.0)	16.06 (7.3)	12
F.CK15	24X11X0.20	.326 (8.3)	.512 (13.0)	.708 (18.0)	25.30 (11.5)	17
F.CK20	48X16X0.12	.342 (8.7)	.630 (16.0)	1.500 (38.0)	33.70 (15.3)	23
F.CK25	48X18X0.14	.524 (13.3)	.866 (22.0)	1.570 (40.0)	45.50 (20.7)	23, 29
F.CK30	48X20X0.15	.667 (16.9)	1.06 (27.0)	1.690 (43.0)	68.20 (31.0)	29, 36
F.CK35	48X20X0.15	.667 (16.9)	1.30 (33.0)	1.850 (47.0)	93.50 (42.5)	36, 48

All dimensions in inches (millimeters in parenthesis)