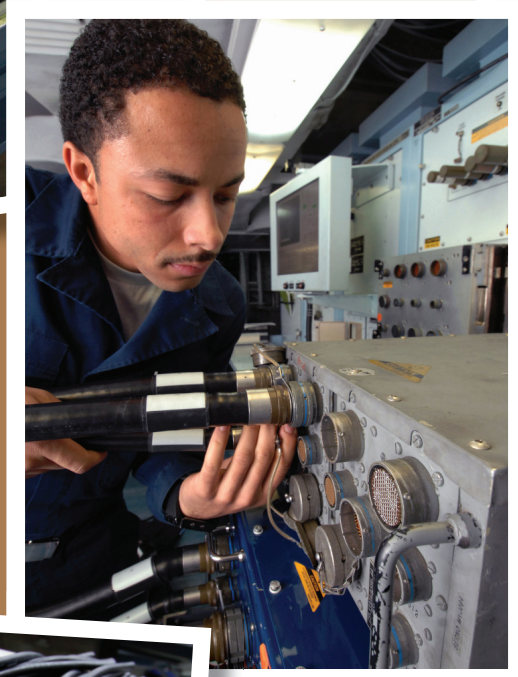


Turnkey SERIES 75 FLEXIBLE METAL- CORE CONDUIT ASSEMBLIES

FOR RUGGED EMI/RFI APPLICATIONS



Series 75 Flexible Metal-Core Conduit System Introduction and Quick Selection Guide



The Ultimate in Highly Flexible, Crush-Proof EMI/RFI Protection

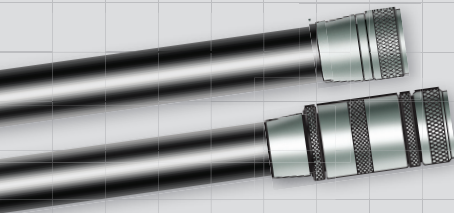
Glenair Series 75 Metal-Core Conduit is a helically wound, continuous solder metal conduit, delivering the highest level of EMI/RFI shielding and crush-proof strength available for mission-critical interconnect wiring applications. Metal-core conduit is the material of choice for TEMPEST secure communications and intensive EMI/RFI environments, and is offered in brass, nickel/iron, or stainless steel. Specify braided shielding and jacketing for additional mechanical and environmental protection. State-of-the-art construction IAW MIL-C-13909/A-A-52240, MIL-PRF-24758A and MIL-DTL-28840.

Series 75 Do-It-Yourself Fittings are the best choice when ease of assembly and installation is a requirement, or when producing prototype wire-routing systems in unpredictable lengths. Glenair's offerings include the compact, lightweight RP Plus family of backshells and fittings, plus heavy-duty environmental metal and weight-saving hybrid composite fittings built for rugged reliability in topside applications.

Prefer a Turnkey Solution? Factory terminated assemblies offer weight reduction and size savings, as well as highly durable tamper-proof fittings.



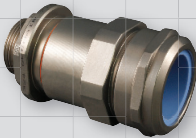
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Series 75
Flexible Metal-Core EMI/RFI Conduit
Configuration Options

Series 75 Flexible Conduit Tubing, Braided Shielding, and Jacketing Options

The Series 75 flexible metal-core conduit system is a helically wound, continuous solder metal conduit known for its flexibility, durability and hermeticity compared to a standard jacketed cable. System design begins with your selection of core material, either brass, nickel-iron, or stainless steel. Core materials may be outfitted with braided shielding and jacketing to address specific mechanical, electrical (EMI), and environmental protection requirements. See the individual catalog pages for detailed how-to-order information.



Superior EMI protection and crush-proof strength for static applications

Highly flexible crush-proof metal conduit, available in Nickel-Iron, Brass, or SST.



Adds braided shielding for additional tensile strength applications

Flexible metal-core conduit tubing with numerous braided shielding options, for additional tensile strength and effective grounding of electromagnetic interference.



Adds a jacket for environmental protection

Flexible metal-core conduit tubing with braided shielding plus a ruggedized jacket for environmental protection against contaminants and moisture.



Adds a second braided shield for high dB EMI/RFI shielding

Flexible metal-core conduit tubing with double braided shield for high frequency EMI/RFI shielding requirements.



A jacketed, double-braided configuration for combined environmental and EMI/RFI applications with high dB shielding requirements

Flexible metal-core conduit tubing with double braided shield and jacket for optimum EMI/RFI protection, strength and environmental sealing.



Triple-braided conduit for predictable and reliable grounding of surface-borne/high frequency electromagnetic interference

Flexible metal-core conduit tubing with triple braided shield for optimal tensile strength and enhanced high frequency EMI/RFI protection.



Triple-braided and jacketed conduit for maximum EMI shielding in environmental applications

Flexible metal-core conduit tubing with triple braided shield and jacket for enhanced high-frequency EMI/RFI protection, strength and environmental sealing.

Series 75 Flexible Metal-Core EMI/RFI Conduit Conduit Material Properties



Conduit Material Choices, Material Properties, and Military Specifications

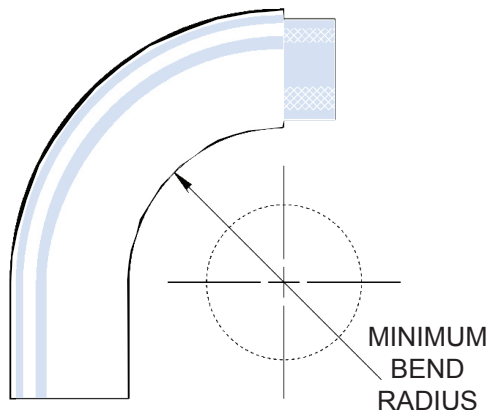
Glenair Code	Material	Properties	Applicable Military Specifications
B	Brass, Per A-A-52440 Type I, Grade B	Optimal EMI shielding when combined with bronze overbraid. Generally specified with bronze overbraid and jacket.	<ul style="list-style-type: none"> ■ IAW A-A-52440 (Covering shielded, electrical, flexible, metal conduit for use as protection of wiring in military vehicles from mechanical injury and, when properly installed and grounded, to prevent radiation that may cause interference with radio and other electronic equipment.) ■ MIL-C-13909 (Superseded by IAW-A-A-52440 above)
C	Stainless Steel AISI 316	Specified for high-temperature, corrosion, and crush resistance. Nominal shielding value. Typically braided with stainless steel braid for additional pull strength and durability. Available with or without a jacket.	<ul style="list-style-type: none"> ■ MIL-PRF-24758 (Covering the performance requirements for weatherproof flexible conduit systems for use primarily in exposed areas on U.S. Navy ships, to shield against electromagnetic (EM) radiation from own-ship transmitters and emissions external to the ship, electromagnetic pulse (EMP) events, and to minimize corrosion while being field repairable to reduce maintenance.)
N	Nickel Iron Alloy Type 4 ANSI/ASTM-A-753	80% Nickel, 20% Iron. Optimal low-frequency shielding material. Typically braided with stainless steel braid for additional pull strength and durability. Available with or without a jacket.	<ul style="list-style-type: none"> ■ MIL-DTL-28840 (Covering Connectors, Electrical, Circular, Threaded, High Shock, High Density, Shipboard, Metal Conduit, for EMI Shielding)

Conduit Resistance and Conduit Pull Force

Dash No.	Nominal I.D.	Percent Crush	Pull Force	
			Pounds	Newtons
08	.250 (6.4)	2.6	250	1112
12	.375 (9.5)	2.8	500	2224
16	.500 (12.7)	4.7	600	2669
20	.625 (15.9)	4.4	650	2891
24	.750 (19.1)	5.7	700	3114
32	1.000 (25.4)	5.0	750	3336
40	1.250 (31.8)	3.6	1500	6672
48	1.500 (38.1)	3.0	2000	8896
56	1.750 (44.5)	3.0	2000	8896
64	2.000 (50.8)	3.0	2000	8896
80	2.500 (63.5)	3.0	2000	8896
96	3.000 (76.2)	3.0	2000	8896

Crush resistance values are expressed as a "percent crush" with a force of 480 pounds (2138 Nm) applied to brass conduit with bronze braid and Neoprene jacket using a 4 inch width compression plate. The "percent crush" for double- and triple-braided conduit configurations are less due to additional braided coverings.

Pull-force values listed indicate the axial load at which the conduit braid separated at a point between the conduit end-fittings. No separation of the terminated end-fittings occurred at these force levels. Double- and triple-braided conduit configurations have a higher pull force due to additional braided coverings. (Note: These values are for factory installed fittings.)



Minimum Bend Radius: Brass conduit, single braid, neoprene jacket

Dash No.	A Dia	B Dia Max	Minimum Bend Radius
08	.250 (6.4)	.625 (15.9)	1.750 (44.5)
12	.375 (9.5)	.750 (19.1)	2.000 (50.8)
16	.500 (12.7)	.875 (22.2)	2.500 (63.5)
20	.625 (15.9)	1.000 (25.4)	3.000 (76.2)
24	.750 (19.1)	1.141 (29.0)	3.750 (95.3)
32	1.000 (25.4)	1.500 (38.1)	5.000 (127.0)
40	1.250 (31.8)	1.750 (44.5)	6.250 (158.8)
48	1.500 (38.1)	2.000 (50.8)	7.750 (196.9)
56	1.750 (44.5)	2.250 (57.2)	8.500 (215.9)
64	2.000 (50.8)	2.531 (64.3)	10.000 (254.6)
80	2.500 (63.5)	3.031 (77.0)	12.500 (317.5)
96	3.000 (76.2)	3.560 (90.4)	15.000 (381.0)



Series 75 Flexible Metal-Core EMI/RFI Conduit Braided Shield and Jacket Options and Material Properties

EMI/RFI Braided Shielding and Non-Metallic (Fabric) Overbraids

B	Bronze	Heavy-gauge braided bronze wire for pull (tensile) strength in metal-core conduit systems. Specified for U.S. Navy and Military applications since the 1930s.
T	Tin/Copper	150°C temperature rating, 125 lbs. tensile strength, 96 hr. salt spray corrosion resistance
C	Stainless Steel	High tensile strength (225 lbs.), highest temperature—1093°C+
N	Nickel/Copper	200°C temperature rated, 150 lbs. tensile strength, 500 hrs. salt spray corrosion resistance
S	SnCuFe	Tin plated iron/copper braid for tensile strength in metal-core conduit
L	ArmorLite™	Microfilament metal-clad stainless steel braid. Ultra-lightweight EMI/RFI braiding for high-temperature applications -80°C to +260°C
D	Dacron	Yarn with excellent abrasion resistance, good chemical resistance, non-conductive
M	Nomex	-55°C to 260°C temperature range - will not melt, excellent chemical resistance, non-conductive
E	AmberStrand® 100%	Metal-clad EMI/RFI Shielding with a lightweight composite thermoplastic base material Reduces shielding weight 80% +
F	AmberStrand® 75%/25%	75% lightweight metal-clad composite thermoplastic combined with 25% nickel-plated 36AWG copper wire for additional strength

Jacketing Options

N	Neoprene	Tough, durable polychloroprene for mechanical and environmental protection
H	Hypalon®	Light weight with broad temperature range
E	EPDM	Better resistance to Ketones
V	Viton	Heaviest material with best resistance to oil and gasoline
B	Duraelectric, Black	Weatherproof, halogen free, flame resistant, functional to 260°C
G	Duraelectric, Gray	Qualified to US Navy MIL-PRF-24758A, Fed Std 595B #26270 Haze Gray color
TN	Duraelectric, Desert Tan	Duraelectric in Fed Std #3446 Desert Tan color
O	Duraelectric, Orange	OSHA Safety Orange to mark energized electrical cables

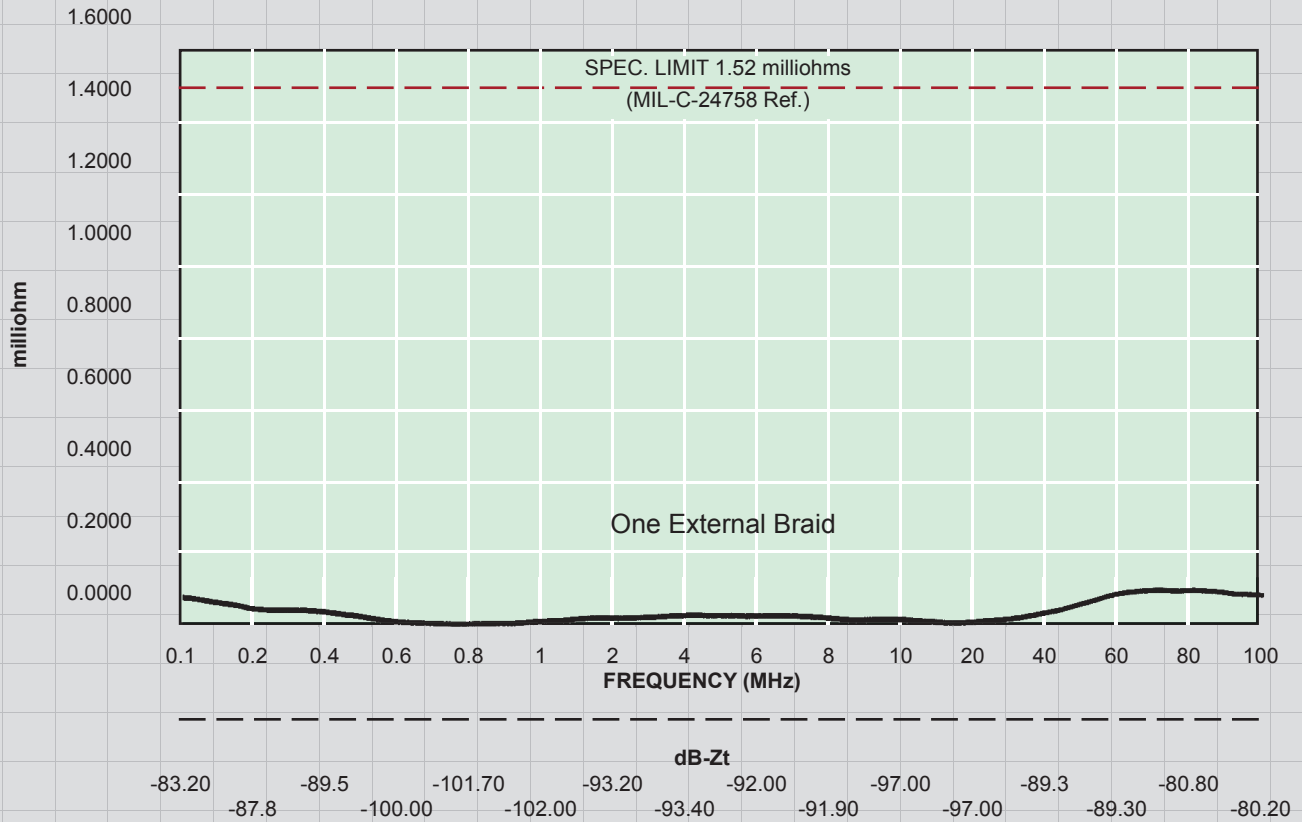
Jacketing Material Properties and Chemical Resistance

Material Property	EPDM (Ethylene Propylene Diene Monomer)	Hypalon (Chlorosulfonated Polyethylene)	Neoprene (Polychloroprene)	Viton (Fluoroelastomer)	Duraelectric
Temperature Range	-60°F to +300°F (-51°C to +149°C)	-60°F to +300°F (-51°C to +149°C)	-60°F to +250°F (-51°C to +121°C)	-40°F to +392°F (-40°C to +200°C)	-94°F to +392°F (-70°C to +200°C)
Specific Gravity	1.26	1.18	1.25	1.80	1.22
Weight: Lbs./Cubic Inch	.045	.043	.045	.055	.045
Abrasion Resistance	Excellent	Excellent	Excellent	Excellent	Good
Wear Resistance	Good	Good	Good	Good	Good
Flame Resistance	Good	Good	Good	Good	Excellent
Sunlight Resistance	Good	Excellent	Excellent	Excellent	Excellent
Chemical Resistance					
Aliphatic Hydrocarbons	Good	Good	Good	Excellent	Excellent
Aromatic Hydrocarbons	Good	Fair	Fair	Excellent	Excellent
Ketones, Etc.	Good	Poor	Poor	Poor	Excellent
Oil & Gasoline	Good	Good	Good	Excellent	Excellent

**Transfer Impedance
Series 75 Brass-Core Conduit
with Bronze Braid and User Installable Fittings
1.5 Inch Diameter**



Series 75
Metal-Core Conduit

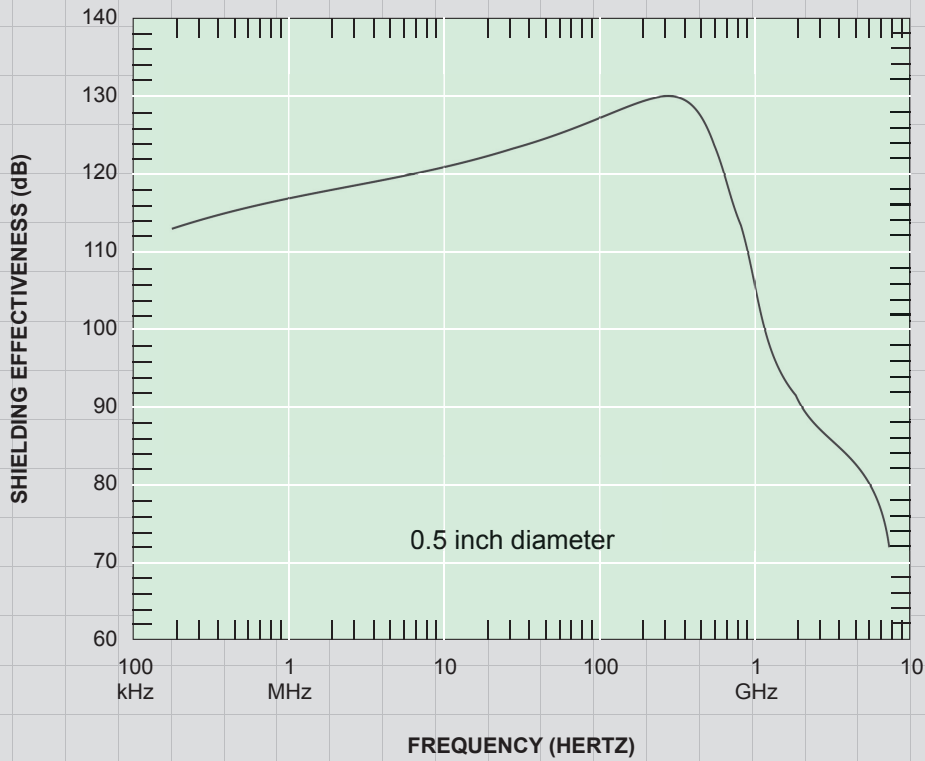
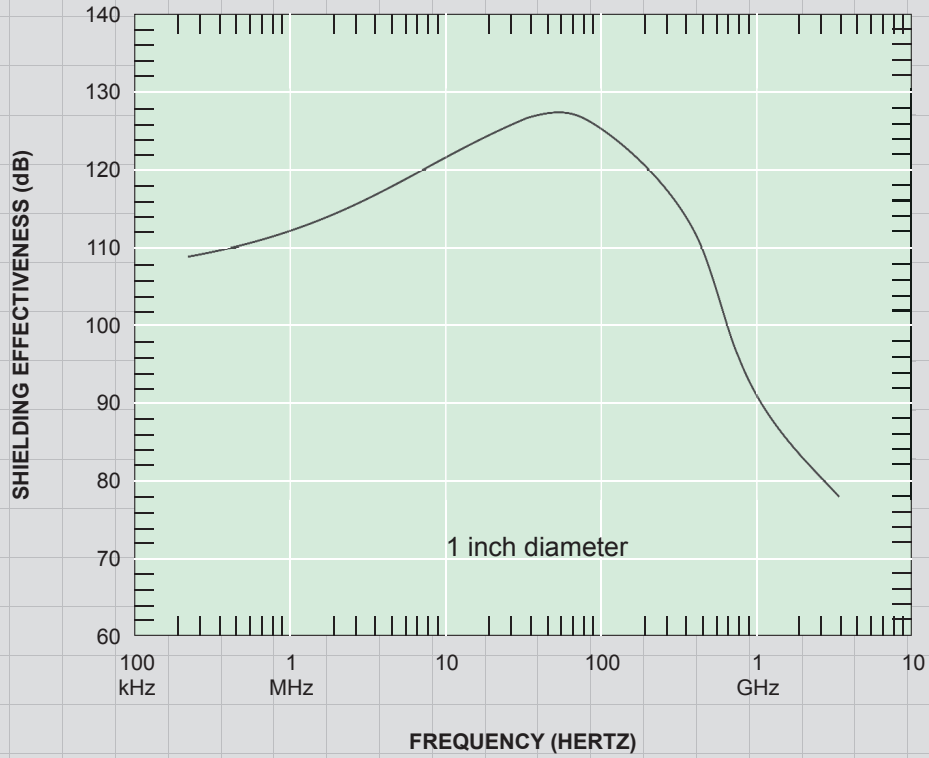


D



Shielding Effectiveness Series 75 Metal Core Conduit 1 Inch Diameter, 0.5 Inch Diameter

D



750-190 Flexible Metal-Core EMI/RFI Conduit

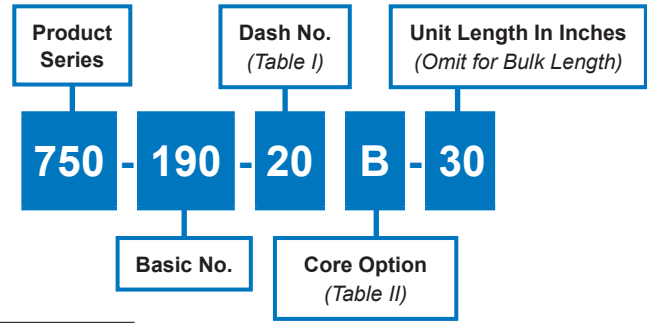


Series 75
Metal-Core Conduit

Superior EMI protection and crush-proof strength for static applications



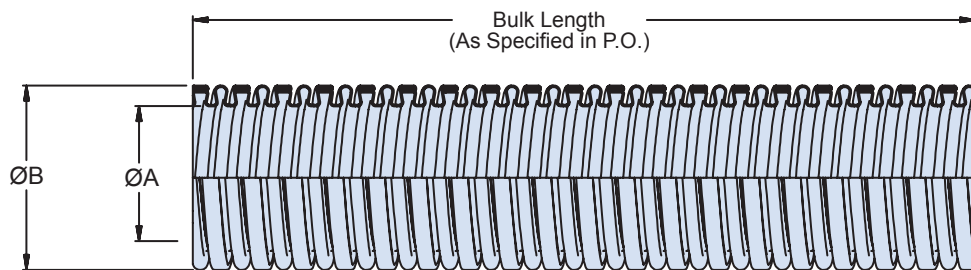
How To Order



Dash No.	"B" Glenair Brass			"C" SST, "N" Nickel/Iron		
	A I.D.	B O.D.		A I.D.	B O.D.	
	Min	Min	Max	Min	Min	Max
06	.175 (4.45)	.260 (6.60)	.270 (6.86)	.175 (4.45)	.260 (6.60)	.270 (6.86)
08	.260 (6.60)	.360 (9.14)	.370 (9.40)	.245 (6.22)	.354 (9.00)	.374 (9.50)
09	.294 (7.47)	.390 (9.91)	.398 (10.1)	.294 (7.47)	.390 (9.91)	.398 (10.1)
10	.308 (7.82)	.408 (10.4)	.425 (10.8)	.308 (7.82)	.408 (10.4)	.425 (10.8)
12	.380 (9.65)	.484 (12.3)	.490 (12.4)	.370 (9.40)	.478 (12.1)	.498 (12.6)
16	.505 (12.8)	.610 (15.5)	.620 (15.7)	.495 (12.6)	.627 (15.9)	.647 (16.4)
20	.630 (16.0)	.730 (18.5)	.740 (18.8)	.620 (15.7)	.750 (19.1)	.770 (19.6)
24	.760 (19.3)	.860 (21.8)	.875 (22.2)	.745 (18.9)	.870 (22.1)	.890 (22.6)
32	1.012 (25.7)	1.115 (28.3)	1.125 (28.6)	.995 (25.3)	1.182 (30.0)	1.202 (30.5)
40	1.265 (32.1)	1.475 (37.5)	1.485 (37.7)	1.245 (31.6)	1.444 (36.7)	1.464 (37.2)
48	1.510 (38.4)	1.730 (43.9)	1.740 (44.2)	1.495 (38.0)	1.694 (43.0)	1.714 (43.5)
56	1.760 (44.7)	1.970 (50.0)	1.985 (50.4)	1.760 (44.7)	1.970 (50.0)	1.985 (50.4)
64	2.010 (51.1)	2.240 (56.9)	2.250 (57.2)	1.995 (50.7)	2.204 (56.0)	2.224 (56.5)
80	2.515 (63.9)	2.735 (69.5)	2.745 (69.7)	2.495 (63.4)	2.704 (68.7)	2.724 (69.2)
96	2.995 (76.1)	3.194 (81.1)	3.214 (81.6)	2.995 (76.1)	3.194 (81.1)	3.214 (81.6)

SYM	Core Material
B	Brass, Per A-A-52440 Type I, Grade B
C	Stainless Steel
N	80% Nickel, 20% Iron

Length (Inches)	Tolerance (Inches)
Up To 18	± .50
19 - 36	± 1.0
37 - 72	± 1.5
73 - 144	± 2.0
145 - 300	± 3.0
301 - 600	± 4.0
601 - 1200	± 5.0
1201 - Up	± 6.0



Packaging

Long-length orders of 750-190 conduit are subject to carrier weight and box size restrictions. For example, UPS air shipments are currently limited to 50 lbs. per box. Unless otherwise specified, Glenair standard practice is to ship optimal lengths of product based on weight, size, and individual carrier specifications. Consult factory for additional information or to specify packaging requirements.

D



750-191 Flexible Metal-Core EMI/RFI Conduit with External Braid

Flexible metal-core conduit plus a single shield of EMI/RFI braiding



How To Order

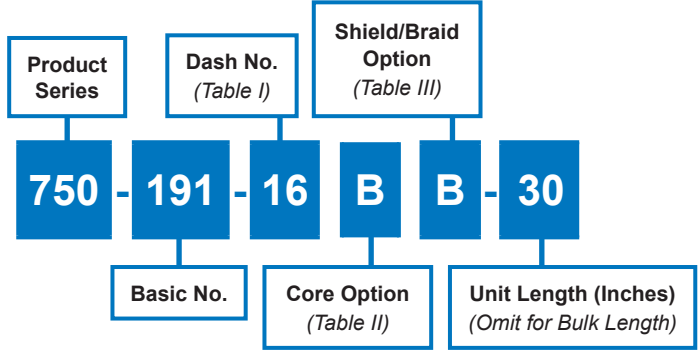
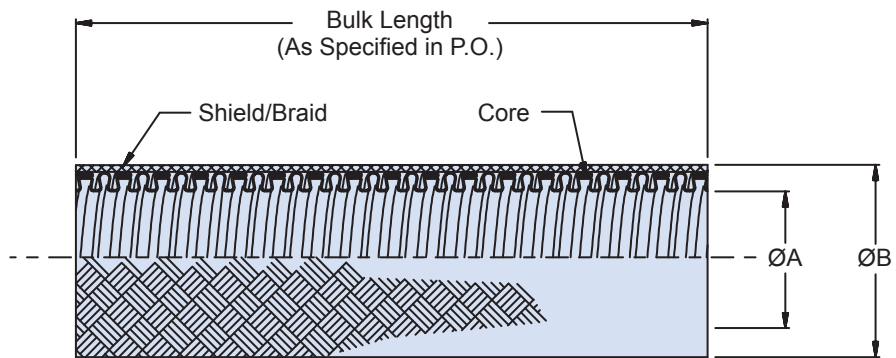


Table I: Dash No./Dimensions				
Dash No.	Glenair Brass		SST, Nickel/Iron	
	A I.D.	B O.D.	A I.D.	B O.D.
	Min	Max	Min	Max
06	.175 (4.45)	.330 (8.40)	.175 (4.45)	.330 (8.40)
08	.260 (6.60)	.430 (10.9)	.245 (6.22)	.434 (11.0)
09	.294 (7.47)	.458 (11.6)	.294 (7.47)	.458 (11.6)
10	.308 (7.82)	.485 (12.3)	.308 (7.82)	.485 (12.3)
12	.380 (9.65)	.550 (14.0)	.370 (9.40)	.558 (14.2)
16	.505 (12.8)	.680 (17.3)	.495 (12.6)	.707 (18.0)
20	.630 (16.0)	.800 (20.3)	.620 (15.7)	.830 (21.1)
24	.760 (19.3)	.935 (23.7)	.745 (18.9)	.950 (24.1)
32	1.012 (25.7)	1.201 (30.5)	.995 (25.3)	1.270 (32.3)
40	1.265 (32.1)	1.561 (39.6)	1.245 (31.6)	1.532 (38.9)
48	1.510 (38.4)	1.816 (46.1)	1.495 (38.0)	1.782 (45.3)
56	1.760 (44.7)	2.061 (52.3)	1.760 (44.7)	2.053 (52.1)
64	2.010 (51.1)	2.326 (59.1)	1.995 (50.7)	2.292 (58.2)
80	2.515 (63.9)	2.821 (71.7)	2.495 (63.4)	2.792 (70.9)
96	2.995 (76.1)	3.290 (83.6)	2.995 (76.1)	3.282 (83.4)

Table III: Braided Shield	
SYM	Shield/Braid
B	Bronze (Standard for Brass Core)
C	Stainless Steel (Standard for SST and Nickel/Iron Core)
T	Tin Copper
N	Nickel Copper
S	SnCuFe
A	Silver Copper
L	Armorlite™
D	Dacron
M	Nomex
E	AmberStrand® 100%
F	AmberStrand® 75%/25%

Std. Conduit Tolerances	
Length (Inches)	Tolerance (Inches)
Up To 18	± .50
19 - 36	± 1.0
37 - 72	± 1.5
73 - 144	± 2.0
145 - 300	± 3.0
301 - 600	± 4.0
601 - 1200	± 5.0
1201 - Up	± 6.0

Table II: Conduit Core	
SYM	Core Material
B	Brass, Per A-A-52440 Type I, Grade B
C	Stainless Steel
N	80% Nickel, 20% Iron



Packaging

Long-length orders of 750-191 braided conduit are subject to carrier weight and box size restrictions. For example, UPS air shipments are currently limited to 50 lbs. per box. Unless otherwise specified, Glenair standard practice is to ship optimal lengths of product based on weight, size, and individual carrier specifications. Consult factory for additional information or to specify packaging requirements.

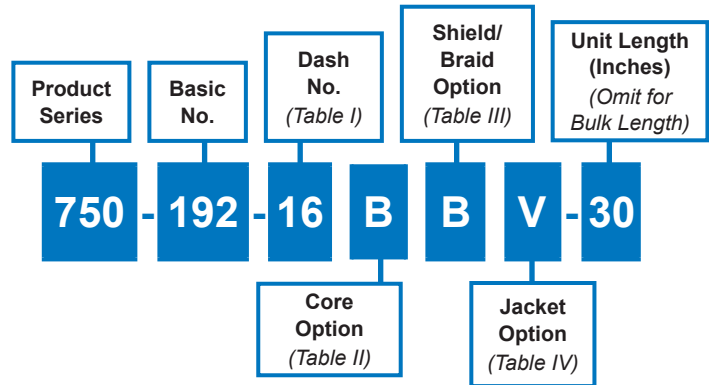
750-192 Flexible Metal-Core EMI/RFI Conduit with External Braid and Jacket



Flexible metal-core conduit plus a single shield of EMI/RFI braiding and jacket for environmental applications



How To Order



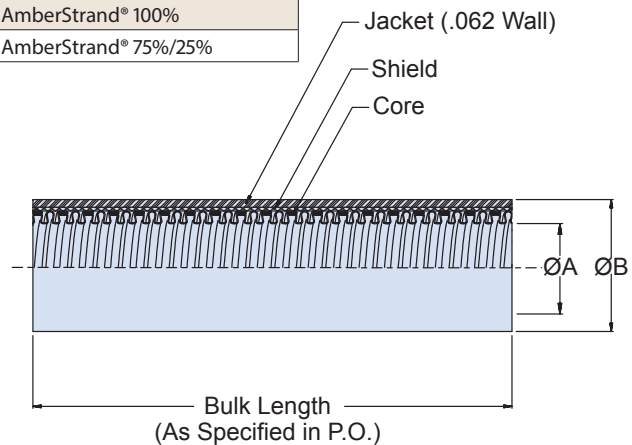
Dash No.	Glenair Brass		SST, Nickel/Iron	
	A I.D.	B O.D.	A I.D.	B O.D.
	Min	Max	Min	Max
06	.175 (4.45)	.460 (11.7)	.175 (4.45)	.460 (11.7)
08	.260 (6.60)	.560 (14.2)	.245 (6.22)	.564 (14.3)
09	.294 (7.47)	.588 (14.9)	.294 (7.47)	.588 (14.9)
10	.308 (7.82)	.615 (15.6)	.308 (7.82)	.615 (15.6)
12	.380 (9.65)	.680 (17.3)	.370 (9.40)	.688 (17.5)
16	.505 (12.8)	.810 (20.6)	.495 (12.6)	.837 (21.3)
20	.630 (16.0)	.930 (23.6)	.620 (15.7)	.960 (24.4)
24	.760 (19.3)	1.065 (27.0)	.745 (18.9)	1.080 (27.4)
32	1.012 (25.7)	1.331 (33.8)	.995 (25.3)	1.400 (35.6)
40	1.265 (32.1)	1.691 (43.0)	1.245 (31.6)	1.662 (42.2)
48	1.510 (38.4)	1.946 (49.4)	1.495 (38.0)	1.912 (48.6)
56	1.760 (44.7)	2.191 (55.7)	1.760 (44.7)	2.183 (55.4)
64	2.010 (51.1)	2.456 (62.4)	1.995 (50.7)	2.422 (61.5)
80	2.515 (63.9)	2.951 (75.0)	2.495 (63.4)	2.922 (74.2)
96	2.995 (76.1)	3.420 (86.9)	2.995 (76.1)	3.412 (86.7)

SYM	Shield/Braid
B	Bronze (Standard for Brass Core)
C	Stainless Steel (Standard for SST and Nickel/Iron Core)
T	Tin Copper
N	Nickel Copper
S	SnCuFe
A	Silver Copper
L	Armorlite™
D	Dacron
M	Nomex
E	AmberStrand® 100%
F	AmberStrand® 75%/25%

Length (Inches)	Tolerance (Inches)
Up To 18	± .50
19 - 36	± 1.0
37 - 72	± 1.5
73 - 144	± 2.0
145 - 300	± 3.0
301 - 600	± 4.0
601 - 1200	± 5.0
1201 - Up	± 6.0

SYM	Core Material
B	Brass, Per A-A-52440 Type I, Grade B
C	Stainless Steel
N	80% Nickel, 20% Iron

N	Neoprene
H	Hypalon®
E	EPDM
V	Viton
B	Duralectric, Black
G	Duralectric, Gray
TN	Duralectric, Desert Tan
O	Duralectric, OSHA Safety Orange



Packaging

Long-length orders of 750-192 braided and jacketed conduit are subject to carrier weight and box size restrictions. For example, UPS air shipments are currently limited to 50 lbs. per box. Unless otherwise specified, Glenair standard practice is to ship optimal lengths of product based on weight, size, and individual carrier specifications. Consult factory for additional information or to specify packaging requirements.

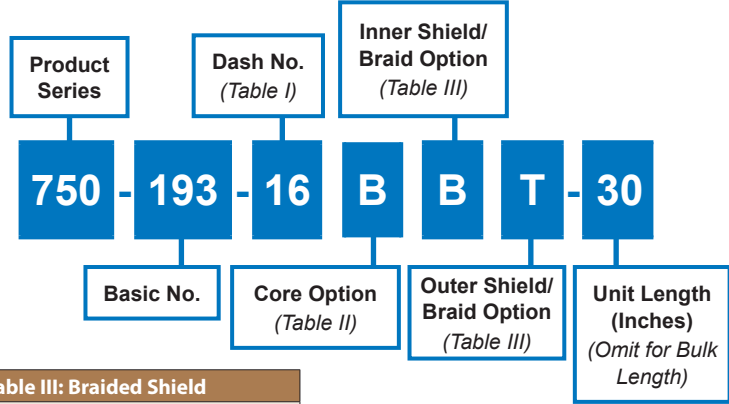


750-193 Flexible Metal-Core EMI/RFI Conduit with 2 External Braids

Double braided shield for high dB shielding requirements



How To Order

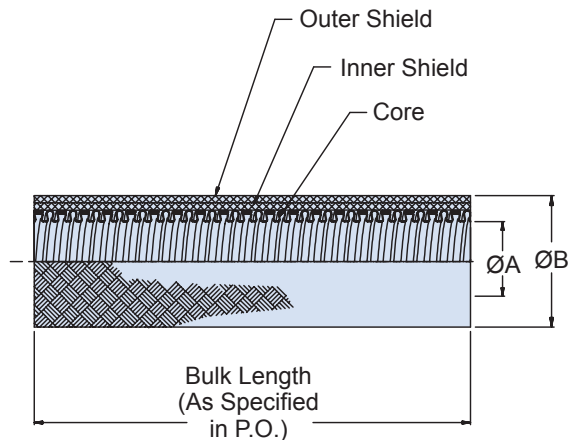


Dash No.	Glenair Brass		SST, Nickel/Iron	
	A I.D.	B O.D.	A I.D.	B O.D.
	Min	Max	Min	Max
06	.175 (4.45)	.390 (9.90)	.175 (4.45)	.390 (9.90)
08	.260 (6.60)	.490 (12.4)	.245 (6.22)	.494 (12.5)
09	.294 (7.47)	.518 (13.2)	.294 (7.47)	.518 (13.2)
10	.308 (7.82)	.545 (13.8)	.308 (7.82)	.545 (13.8)
12	.380 (9.65)	.610 (15.5)	.370 (9.40)	.618 (15.7)
16	.505 (12.8)	.740 (18.8)	.495 (12.6)	.767 (19.5)
20	.630 (16.0)	.860 (21.8)	.620 (15.7)	.890 (22.6)
24	.760 (19.3)	.995 (25.3)	.745 (18.9)	1.010 (25.7)
32	1.012 (25.7)	1.276 (32.4)	.995 (25.3)	1.338 (34.0)
40	1.265 (32.1)	1.636 (41.6)	1.245 (31.6)	1.600 (40.6)
48	1.510 (38.4)	1.891 (48.0)	1.495 (38.0)	1.850 (47.0)
56	1.760 (44.7)	2.136 (54.3)	1.760 (44.7)	2.121 (53.9)
64	2.010 (51.1)	2.401 (61.0)	1.995 (50.7)	2.360 (59.9)
80	2.515 (63.9)	2.896 (73.6)	2.495 (63.4)	2.860 (72.6)
96	2.995 (76.1)	3.365 (85.5)	2.995 (76.1)	3.350 (85.1)

SYM	Shield/Braid
B	Bronze (Standard for Brass Core)
C	Stainless Steel (Standard for SST and Nickel/Iron Core)
T	Tin Copper
N	Nickel Copper
S	SnCuFe
A	Silver Copper
L	Armorlite™
D	Dacron
M	Nomex
E	AmberStrand® 100%
F	AmberStrand® 75%/25%

Length (Inches)	Tolerance (Inches)
Up To 18	± .50
19 - 36	± 1.0
37 - 72	± 1.5
73 - 144	± 2.0
145 - 300	± 3.0
301 - 600	± 4.0
601 - 1200	± 5.0
1201 - Up	± 6.0

SYM	Core Material
B	Brass, Per A-A-52440 Type I, Grade B
C	Stainless Steel
N	80% Nickel, 20% Iron



Packaging

Long-length orders of 750-193 braided conduit are subject to carrier weight and box size restrictions. For example, UPS air shipments are currently limited to 50 lbs. per box. Unless otherwise specified, Glenair standard practice is to ship optimal lengths of product based on weight, size, and individual carrier specifications. Consult factory for additional information or to specify packaging requirements.

750-194 Flexible Metal-Core EMI/RFI Conduit with 2 External Braids and Jacket

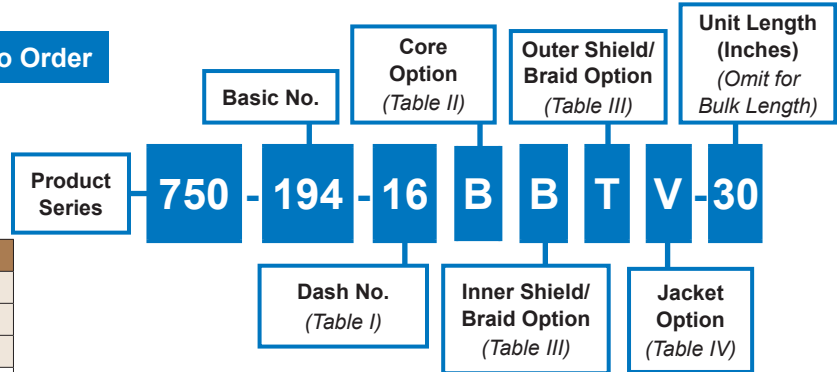


Series 75
Metal-Core Conduit

Double braided shield and jacket for high dB shielding requirements, environmental



How To Order



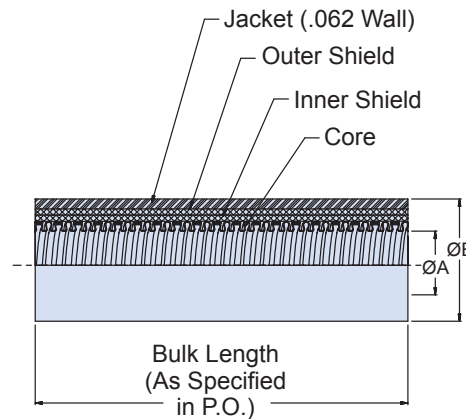
Dash No.	Glenair Brass		SST, Nickel/Iron	
	A I.D.	B O.D.	A I.D.	B O.D.
	Min	Max	Min	Max
06	.175 (4.45)	.520 (13.2)	.175 (4.45)	.520 (13.2)
08	.260 (6.60)	.620 (15.7)	.245 (6.22)	.624 (15.8)
09	.294 (7.47)	.648 (16.5)	.294 (7.47)	.648 (16.5)
10	.308 (7.82)	.675 (17.1)	.308 (7.82)	.675 (17.1)
12	.380 (9.65)	.740 (25.4)	.370 (9.40)	.748 (19.0)
16	.505 (12.8)	.870 (22.1)	.495 (12.6)	.897 (22.8)
20	.630 (16.0)	.990 (25.1)	.620 (15.7)	1.020 (25.9)
24	.760 (19.3)	1.125 (28.6)	.745 (18.9)	1.140 (29.0)
32	1.012 (25.7)	1.406 (35.7)	.995 (25.3)	1.468 (37.3)
40	1.265 (32.1)	1.766 (44.9)	1.245 (31.6)	1.730 (43.9)
48	1.510 (38.4)	2.021 (51.3)	1.495 (38.0)	1.980 (50.3)
56	1.760 (44.7)	2.266 (57.6)	1.760 (44.7)	2.251 (57.2)
64	2.010 (51.1)	2.531 (64.3)	1.995 (50.7)	2.490 (63.2)
80	2.515 (63.9)	3.026 (76.9)	2.495 (63.4)	2.990 (75.9)
96	2.995 (76.1)	3.495 (88.8)	2.995 (76.1)	3.480 (88.4)

SYM	Shield/Braid
B	Bronze (Standard for Brass Core)
C	Stainless Steel (Standard for SST and Nickel/Iron Core)
T	Tin Copper
N	Nickel Copper
S	SnCuFe
A	Silver Copper
L	Armorlite™
D	Dacron
M	Nomex
E	AmberStrand® 100%
F	AmberStrand® 75%/25%

Length (Inches)	Tolerance (Inches)
Up To 18	± .50
19 - 36	± 1.0
37 - 72	± 1.5
73 - 144	± 2.0
145 - 300	± 3.0
301 - 600	± 4.0
601 - 1200	± 5.0
1201 - Up	± 6.0

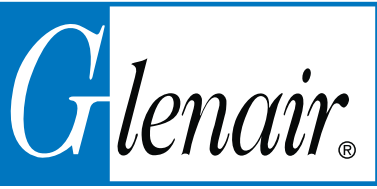
SYM	Core Material
B	Brass, Per A-A-52440 Type I, Grade B
C	Stainless Steel
N	80% Nickel, 20% Iron

N	Neoprene
H	Hypalon®
E	EPDM
V	Viton
B	Duraelectric, Black
G	Duraelectric, Gray
TN	Duraelectric, Desert Tan
O	Duraelectric, OSHA Safety Orange



Packaging

Long-length orders of 750-194 braided and jacketed conduit are subject to carrier weight and box size restrictions. For example, UPS air shipments are currently limited to 50 lbs. per box. Unless otherwise specified, Glenair standard practice is to ship optimal lengths of product based on weight, size, and individual carrier specifications. Consult factory for additional information or to specify packaging requirements.

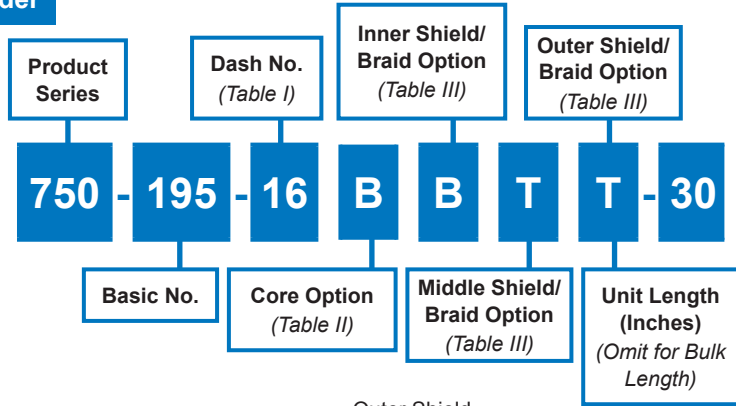


750-195 Flexible Metal-Core EMI/RFI Conduit with 3 External Braids

Triple braided shield for high dB shielding requirements



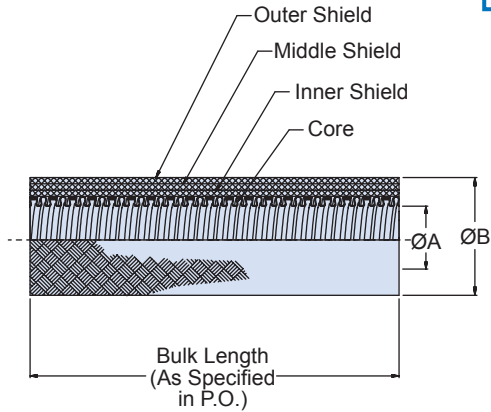
How To Order



Dash No.	Glenair Brass		SST, Nickel/Iron	
	A I.D.	B O.D.	A I.D.	B O.D.
	Min	Max	Min	Max
06	.175 (4.45)	.450 (11.4)	.175 (4.45)	.450 (11.4)
08	.260 (6.60)	.550 (14.0)	.245 (6.22)	.554 (14.1)
09	.294 (7.47)	.578 (14.7)	.294 (7.47)	.578 (14.7)
10	.308 (7.82)	.605 (15.4)	.308 (7.82)	.605 (15.4)
12	.380 (9.65)	.670 (17.0)	.370 (9.40)	.678 (17.2)
16	.505 (12.8)	.800 (20.3)	.495 (12.6)	.827 (21.0)
20	.630 (16.0)	.920 (23.4)	.620 (15.7)	.950 (24.1)
24	.760 (19.3)	1.055 (26.8)	.745 (18.9)	1.070 (27.2)
32	1.012 (25.7)	1.352 (34.3)	.995 (25.3)	1.429 (36.3)
40	1.265 (32.1)	1.712 (43.5)	1.245 (31.6)	1.691 (43.0)
48	1.510 (38.4)	1.967 (50.0)	1.495 (38.0)	1.941 (49.3)
56	1.760 (44.7)	2.212 (56.2)	1.760 (44.7)	2.212 (56.2)
64	2.010 (51.1)	2.477 (62.9)	1.995 (50.7)	2.451 (62.3)
80	2.515 (63.9)	2.972 (75.5)	2.495 (63.4)	2.951 (75.0)
96	2.995 (76.1)	3.441 (87.4)	2.995 (76.1)	3.441 (87.4)

SYM	Core Material
B	Brass, Per A-A-52440 Type I, Grade B
C	Stainless Steel
N	80% Nickel, 20% Iron

Length (Inches)	Tolerance (Inches)
Up To 18	± .50
19 - 36	± 1.0
37 - 72	± 1.5
73 - 144	± 2.0
145 - 300	± 3.0
301 - 600	± 4.0
601 - 1200	± 5.0
1201 - Up	± 6.0



SYM	Shield/Braid
B	Bronze (Standard for Brass Core)
C	Stainless Steel (Standard for SST and Nickel/Iron Core)
T	Tin Copper
N	Nickel Copper
S	SnCuFe
A	Silver Copper
L	Armorlite™
D	Dacron
M	Nomex
E	AmberStrand® 100%
F	AmberStrand® 75%/25%

Packaging

Long-length orders of 750-195 braided conduit are subject to carrier weight and box size restrictions. For example, UPS air shipments are currently limited to 50 lbs. per box. Unless otherwise specified, Glenair standard practice is to ship optimal lengths of product based on weight, size, and individual carrier specifications. Consult factory for additional information or to specify packaging requirements.

750-196 Flexible Metal-Core EMI/RFI Conduit with 3 External Braids and Jacket

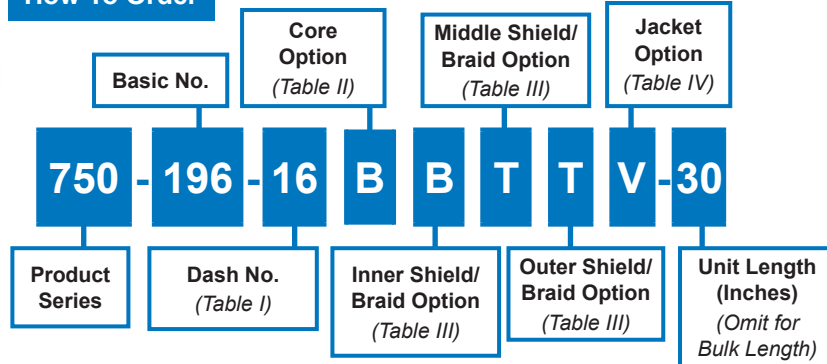


Series 75
Metal-Core Conduit

Triple braided shield and jacket for high dB shielding requirements, environmental



How To Order



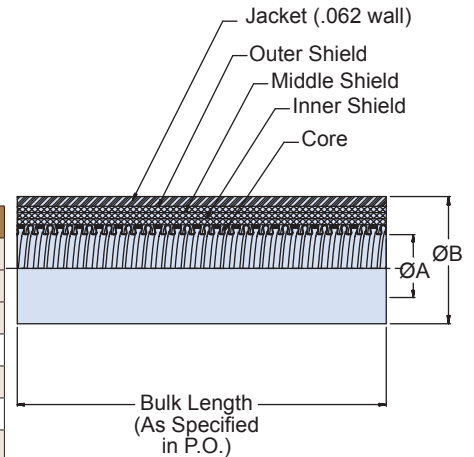
SYM	Core Material
B	Brass, Per A-A-52440 Type I, Grade B
C	Stainless Steel
N	80% Nickel, 20% Iron

SYM	Shield/Braid
B	Bronze (Standard for Brass Core)
C	Stainless Steel (Standard for SST and Nickel/Iron Core)
T	Tin Copper
N	Nickel Copper
S	SnCuFe
A	Silver Copper
L	Armorlite™
D	Dacron
M	Nomex
E	AmberStrand® 100%
F	AmberStrand® 75%/25%

N	Neoprene
H	Hypalon®
E	EPDM
V	Viton
B	Duraelectric, Black
G	Duraelectric, Gray
TN	Duraelectric, Desert Tan
O	Duraelectric, OSHA Safety Orange

Length (Inches)	Tolerance (Inches)
Up To 18	± .50
19 - 36	± 1.0
37 - 72	± 1.5
73 - 144	± 2.0
145 - 300	± 3.0
301 - 600	± 4.0
601 - 1200	± 5.0
1201 - Up	± 6.0

Dash No.	Glenair Brass		SST, Nickel/Iron	
	A I.D. Min	B O.D. Max	A I.D. Min	B O.D. Max
06	.175 (4.45)	.580 (14.7)	.175 (4.45)	.580 (14.7)
08	.260 (6.60)	.680 (17.3)	.245 (6.22)	.684 (17.4)
09	.294 (7.47)	.708 (18.0)	.294 (7.47)	.708 (18.0)
10	.308 (7.82)	.735 (18.7)	.308 (7.82)	.735 (18.7)
12	.380 (9.65)	.800 (20.3)	.370 (9.40)	.808 (20.5)
16	.505 (12.8)	.930 (23.6)	.495 (12.6)	.957 (24.3)
20	.630 (16.0)	1.050 (26.7)	.620 (15.7)	1.080 (27.4)
24	.760 (19.3)	1.185 (30.1)	.745 (18.9)	1.200 (30.5)
32	1.012 (25.7)	1.482 (37.6)	.995 (25.3)	1.559 (39.6)
40	1.265 (32.1)	1.842 (46.8)	1.245 (31.6)	1.821 (46.3)
48	1.510 (38.4)	2.097 (53.3)	1.495 (38.0)	2.071 (52.6)
56	1.760 (44.7)	2.342 (59.5)	1.760 (44.7)	2.342 (59.5)
64	2.010 (51.1)	2.607 (66.2)	1.995 (50.7)	2.581 (65.6)
80	2.515 (63.9)	3.102 (78.8)	2.495 (63.4)	3.081 (78.3)
96	2.995 (76.1)	3.571 (90.7)	2.995 (76.1)	3.571 (90.7)



Packaging

Long-length orders of 750-196 braided and jacketed conduit are subject to carrier weight and box size restrictions. For example, UPS air shipments are currently limited to 50 lbs. per box. Unless otherwise specified, Glenair standard practice is to ship optimal lengths of product based on weight, size, and individual carrier specifications. Consult factory for additional information or to specify packaging requirements.



Factory Terminated Series 75 Assemblies How-To-Order

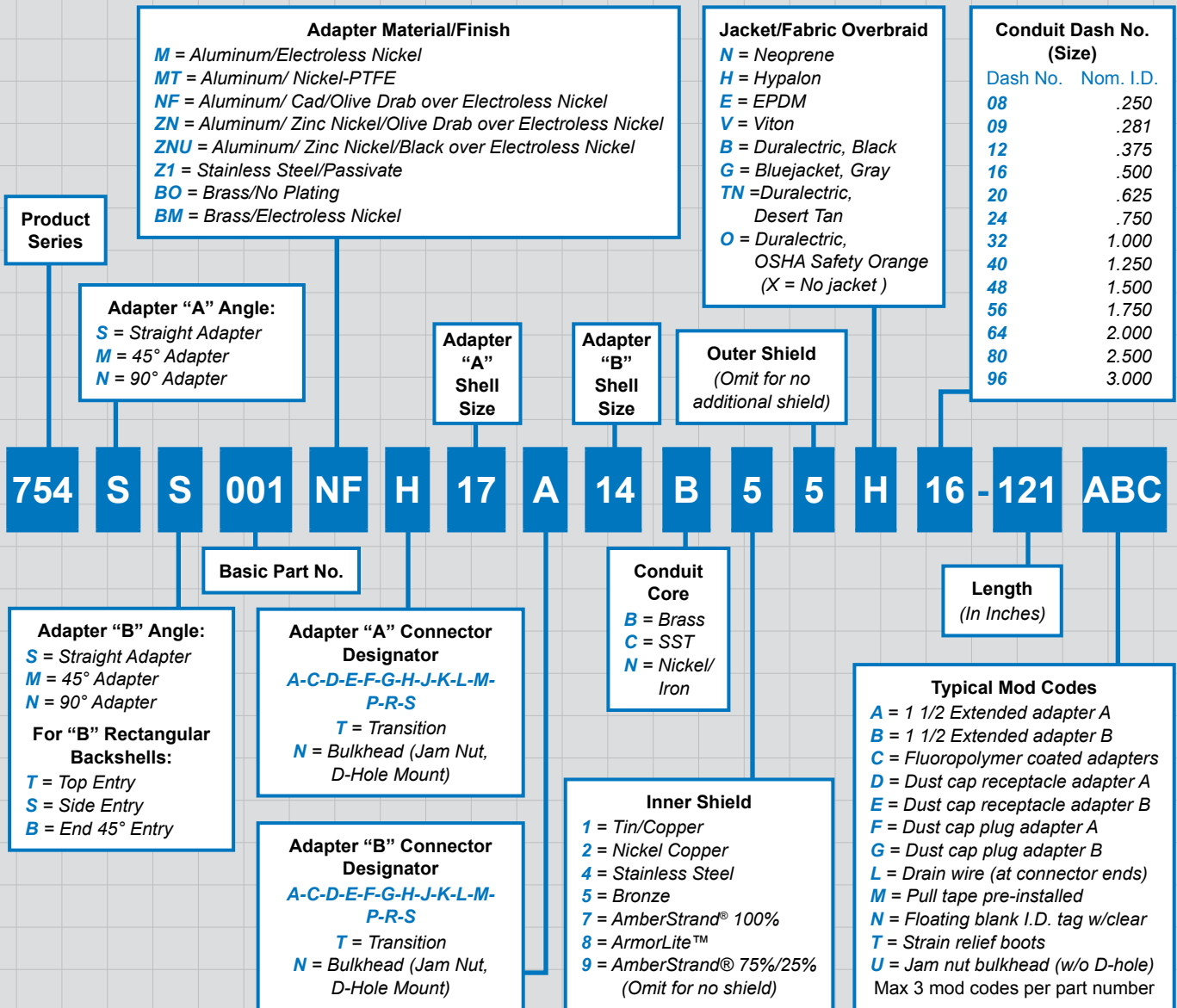
How-To-Order: Factory Terminated Series 75 Metal-Core Assembly

Use the order tree below to develop part numbers for the full range of Series 75 System point-to-point factory terminated assemblies. Diagrams of basic Series 75 point-to-point assemblies are shown on the facing page.



How To Order

D



Factory Terminated Series 75 Assemblies
Point-to-Point Assembly Selection Guide



Series 75
Metal-Core Conduit

Part Number
754-001

Connector Backshell to Bulkhead Feed-Thru or Connector Backshell
(circular connector to bulkhead feed-thru option shown)

Part Number
754-002

Circular Connector Backshell to D-Subminiature Connector Backshell
(45° backshell shown)

Part Number
754-003

Circular Connector Backshell to Micro-D Connector Backshell
(straight backshell shown)

Part Number
754-004

Circular Connector Backshell to Series 79 Micro-Crimp Connector Backshell
(45° backshell shown)

Part Number
754-005

Circular Connector Backshell to Swivel Joint Circular Connector Backshell

Part Number
754-006

Retractable Circular Connector Backshell to Circular Connector Backshell

Part Number
754-007

Band-In-A-Can Connector Backshell to Band-In-A-Can Connector Backshell

Part Number
754-008

Mighty Mouse Connector Backshell to Mighty Mouse Connector Backshell
(Consult factory for part number development)

D

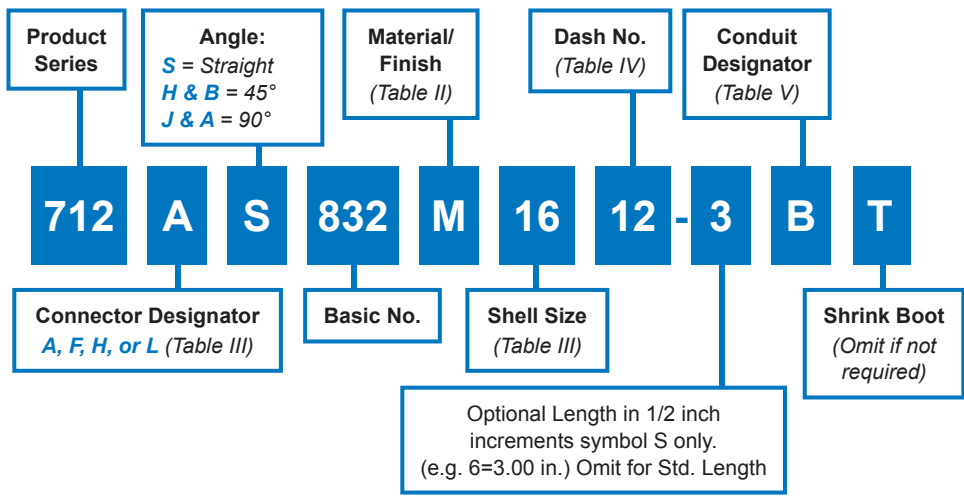


712-832
RP Plus System
 Low-Profile, Self-Locking, Environmental Backshell with
 Shrink Boot Accomodation for Series 75 Metal-Core Conduit

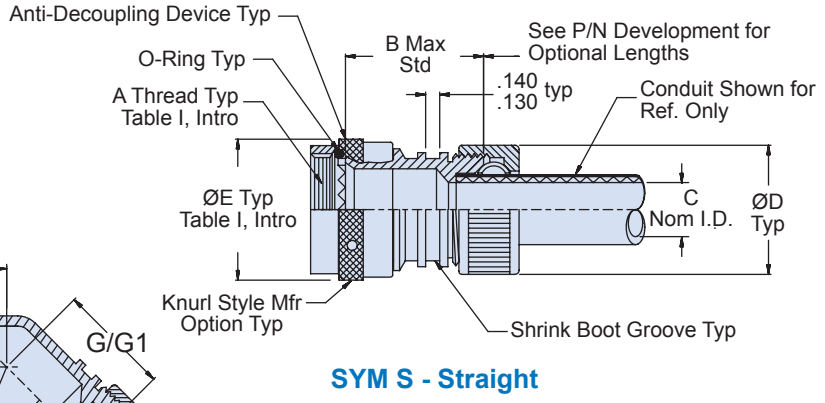
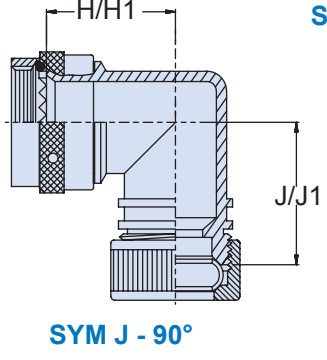
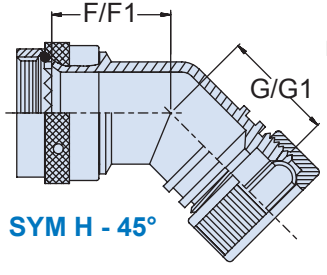
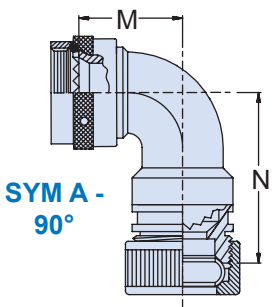
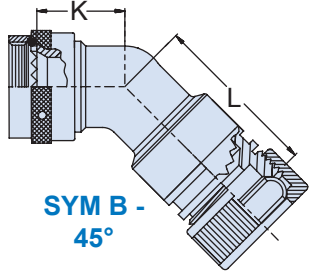
RP Plus conduit-to-connector backshell with self-locking coupling nut, environmental



How To Order



D



Material and Finish

- Adapters, Elbows, Coupling Nuts & Rings: See Table II
- Anti-Decoupling Device: Corrosion resistant material/NA
- O-Ring: Silicone/NA

Notes

- Minimum optional length is 1.50 Inches for shell sizes 08/09 thru 32 & 61, and 2.00 Inches for shell sizes 36 thru 48. Consult factory for shorter length.
- O-Ring not supplied with connector designator A
- Mates with Conduit per Table V

712-832

RP Plus System

Low-Profile, Self-Locking, Environmental Backshell with Shrink Boot Accomodation for Series 75 Metal-Core Conduit



Series 75
Metal-Core Conduit

Table III: Shell Size

Shell Size		Max Dash No Table IV	B Max	F Max	G Max	H Max	J Max	K Max	L Max	M Max	N Max
A,F,L	H										
08	09	08	1.25 (31.8)	0.639 (16.2)	1.20 (30.5)	0.75 (19.1)	1.31 (33.3)	0.600 (15.2)	1.500 (38.1)	0.680 (17.3)	1.670 (42.4)
10/11	11	12	1.25 (31.8)	0.654 (16.6)	1.23 (31.2)	0.81 (20.6)	1.37 (34.8)	0.630 (16.0)	1.730 (43.9)	0.770 (19.6)	1.810 (46.0)
12/13	13	16	1.25 (31.8)	0.688 (17.5)	1.25 (31.8)	0.87 (22.1)	1.43 (36.3)	0.660 (16.8)	1.800 (45.7)	0.800 (20.3)	1.830 (46.5)
14/15	15	20	1.25 (31.8)	0.705 (17.9)	1.28 (32.5)	0.92 (23.4)	1.50 (38.1)	0.690 (17.5)	1.910 (48.5)	0.880 (22.4)	1.910 (48.5)
16/17	17	24	1.25 (31.8)	0.732 (18.6)	1.30 (33.0)	0.98 (24.9)	1.56 (39.6)	0.820 (20.8)	2.060 (52.3)	1.060 (26.9)	2.040 (51.8)
18	19	24	1.25 (31.8)	0.748 (19.0)	1.31 (33.3)	1.02 (25.9)	1.58 (40.1)	0.970 (24.6)	2.240 (56.9)	1.150 (29.2)	2.220 (56.4)
20	21	32	1.35 (34.3)	0.773 (19.6)	1.52 (38.6)	1.08 (27.4)	1.89 (48.0)	0.970 (24.6)	2.290 (58.2)	1.150 (29.2)	2.260 (57.4)
22	23	32	1.35 (34.3)	0.800 (20.3)	1.56 (39.6)	1.14 (29.0)	1.97 (50.0)	1.000 (25.4)	2.430 (61.7)	1.300 (33.0)	2.370 (60.2)
24	25	40	1.35 (34.3)	0.823 (20.9)	1.59 (40.4)	1.20 (30.5)	2.04 (51.8)	1.000 (25.4)	2.480 (63.0)	1.300 (33.0)	2.420 (61.5)
28		40	1.50 (38.1)	1.041 (26.4)	1.82 (46.2)	1.48 (37.6)	2.28 (57.9)	TBD	TBD	1.400 (35.6)	2.640 (67.1)
32		48	1.50 (38.1)	1.092 (27.7)	1.86 (47.2)	1.61 (40.9)	2.37 (60.2)	TBD	TBD	1.750 (44.5)	2.930 (74.4)
36		48	1.75 (44.5)	1.138 (28.9)	1.91 (48.5)	1.72 (43.7)	2.46 (62.5)	TBD	TBD	1.950 (49.5)	2.960 (75.2)
40		64	1.75 (44.5)	1.184 (30.1)	1.95 (49.5)	1.83 (46.5)	2.57 (65.3)	N/A	N/A	N/A	N/A
44		64	1.75 (44.5)	1.235 (31.4)	2.00 (50.8)	1.95 (49.5)	2.70 (68.6)	N/A	N/A	N/A	N/A
48		64	1.75 (44.5)	1.287 (32.7)	2.05 (52.1)	2.08 (52.8)	2.82 (71.6)	N/A	N/A	N/A	N/A
61		32	1.35 (34.3)	1.003 (25.5)	1.77 (45.0)	1.39 (35.3)	1.88 (47.8)	N/A	N/A	N/A	N/A

Table IV: Dash No. and Shrink Boot

Dash No	C I.D.		Ø D Max		F1 Max		G1 Max		H1 Max		J1 Max		Shrink Boot Part Number
08	0.250	(6.4)	0.84	(21.3)	N/A		N/A		N/A		N/A		770-001S104
12	0.375	(9.5)	0.97	(24.6)	0.654	(16.6)	1.23	(31.2)	0.81	(20.6)	1.37	(34.8)	770-001S105
16	0.500	(12.7)	1.09	(27.7)	0.688	(17.5)	1.25	(31.8)	0.87	(22.1)	1.43	(36.3)	770-001S106
20	0.625	(15.9)	1.22	(31.0)	0.705	(17.9)	1.28	(32.5)	0.92	(23.4)	1.50	(38.1)	770-001S106
24	0.750	(19.1)	1.35	(34.3)	0.732	(18.6)	1.30	(33.0)	0.98	(24.9)	1.56	(39.6)	770-001S107
32	1.000	(25.4)	1.66	(42.2)	0.773	(19.6)	1.52	(38.6)	1.08	(27.4)	1.89	(48.0)	770-001S108
40	1.250	(31.8)	1.91	(48.5)	0.823	(20.9)	1.59	(40.4)	1.20	(30.5)	2.04	(51.8)	770-001S108
48	1.500	(38.1)	2.28	(57.9)	1.041	(26.4)	1.86	(47.2)	1.48	(37.6)	2.37	(60.2)	770-001S109
64	2.000	(50.8)	2.78	(70.6)	1.092	(27.7)	1.95	(49.5)	1.61	(40.9)	2.57	(65.3)	770-001S109

Table II: Material and Finish

Sym	Material	Finish Description
NF	Al Alloy	Cad O.D. Over Electroless Nickel
BN	Brass	(1000 Hour Salt Spray)
B0	Brass	Unplated
Z1	300 Series SST	Passivate
M	Al Alloy	Electroless Nickel
MT	Al Alloy	Nickel PTFE
SN	Steel, B1113	Cad O.D. Over Electroless Nickel (1000 Hour Salt Spray)

Table V: Conduit Designator

Conduit Part Number	Core Material	Conduit Designator
750-191 & -192 (Core Option N) 750-084, 750-085	Nickel/Iron Core	N
750-191 & -192 (Core Option C) 750-094, 750-095	Stainless Steel Core	
M24758-*, 750-079	M24758 Brass Core	
750-191 & -192 (Core Option B) 730-031, 750-045	Glenair Brass Core	B
750-190 (Core Option N)	Nickel/Iron Core	W
750-190 (Core Option C)	Stainless Steel Core	
750-190 (Core Option B)	Glenair Brass Core	X
750-193 & -194 (Core Option N)	Nickel/Iron Core	Y
750-193 & -194 (Core Option C)	Stainless Steel Core	
750-193 & -194 (Core Option B)	Glenair Brass Core	Z

Table II (continued)

Sym	Material	Finish Description	Component
ZM	300 Series SST	Electroless Nickel	Adapter, Elbow
		Passivate	Coupling Nut
ZW	300 Series SST	Cadmium Olive Drab over Electroless Nickel	Adapter, Elbow
		Cadmium Olive Drab	Coupling Nut

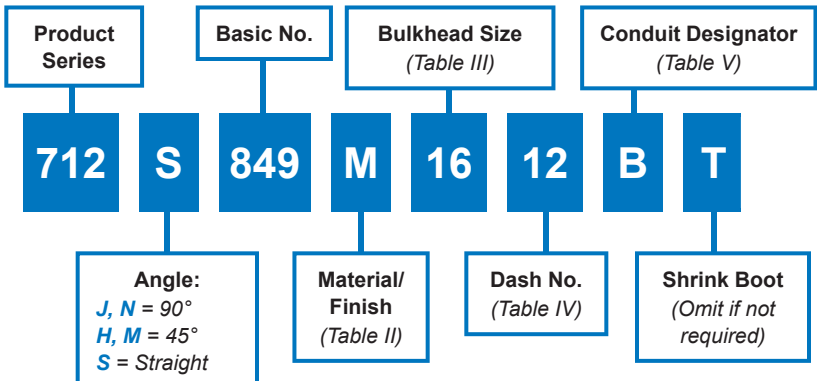


712-849
RP Plus System
 Low-Profile Bulkhead Fitting with Shrink Boot Accomodation
 for Series 75 Metal-Core Conduit

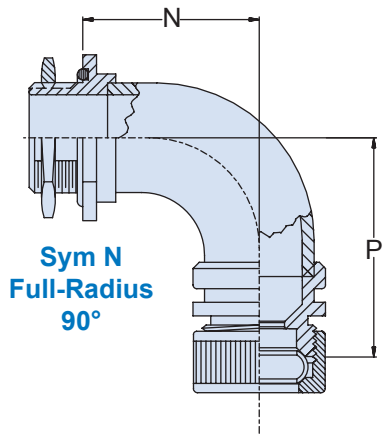
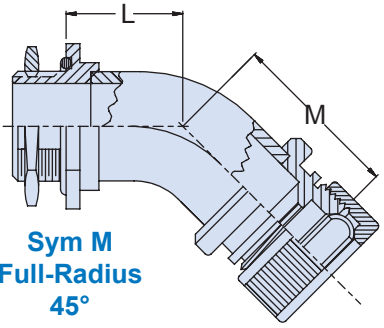
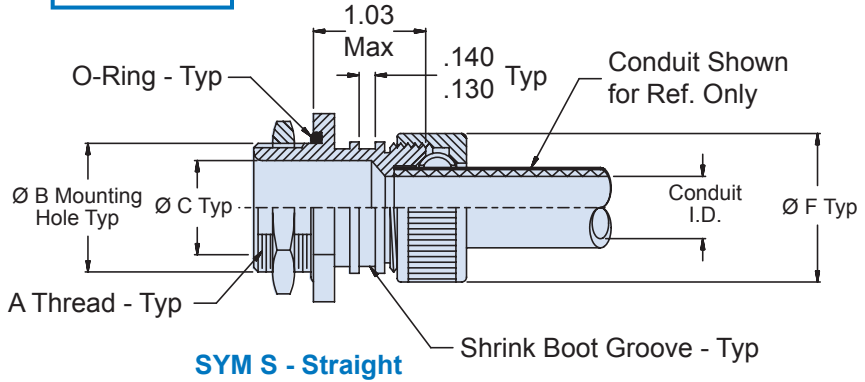
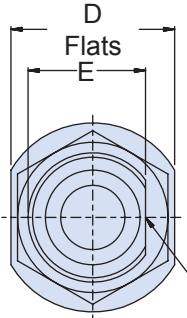
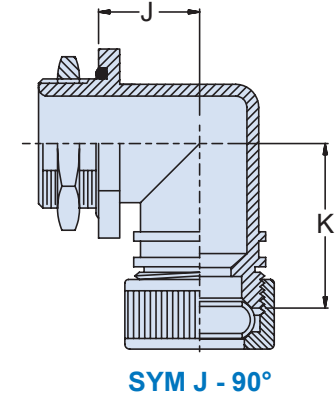
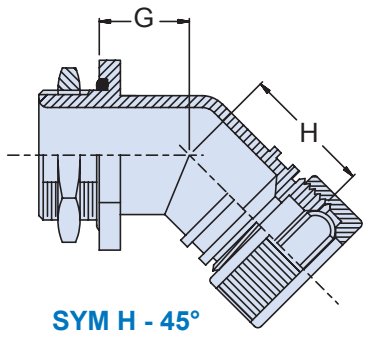
RP Plus conduit-to-bulkhead fitting, environmental



How To Order



D



- Material and Finish**
- Adapters, Elbows, Nuts & Rings: See Table II
 - O-Ring: Silicone/NA

- Notes**
- Mates with conduit per Table V

712-849
RP Plus System
Low-Profile Bulkhead Fitting with Shrink Boot Accomodation
for Series 75 Metal-Core Conduit



Series 75
Metal-Core Conduit

Table III: Bulkhead Size

Bulkhead Size	A Thread Class 2A	B Dia +.015 -.000		C Dia		Max Dash No Table IV	D Flats		E +.000 -.015		G Max		J Max	
08	1/2-20 UNF	0.505	(12.8)	0.250	(6.4)	08	0.750	(19.1)	0.438	(11.1)	0.53	(13.5)	0.70	(17.8)
12	5/8-24 UNEF	0.630	(16.0)	0.375	(9.5)	12	0.875	(22.2)	0.563	(14.3)	0.56	(14.2)	0.77	(19.6)
16	3/4-20 UNEF	0.755	(19.2)	0.500	(12.7)	16	1.000	(25.4)	0.688	(17.5)	0.58	(14.7)	0.84	(21.3)
20	7/8-20 UNEF	0.880	(22.4)	0.625	(15.9)	20	1.125	(28.6)	0.812	(20.6)	0.61	(15.5)	0.91	(23.1)
24	1-20 UNEF	1.005	(25.5)	0.750	(19.1)	24	1.250	(31.8)	0.938	(23.8)	0.64	(16.3)	0.98	(24.9)
32	1 5/16-18 UNEF	1.318	(33.5)	1.000	(25.4)	32	1.562	(39.7)	1.250	(31.8)	0.71	(18.0)	1.16	(29.5)
40	1 1/2-18 UNEF	1.505	(38.2)	1.250	(31.8)	40	1.812	(46.0)	1.438	(36.5)	0.77	(19.6)	1.30	(33.0)
48	1 3/4-18 UNS	1.755	(44.6)	1.500	(38.1)	48	2.062	(52.4)	1.688	(42.9)	0.83	(21.1)	1.44	(36.6)
64	2 1/4-16 UN	2.255	(57.3)	2.000	(50.8)	64	2.562	(65.1)	2.188	(55.6)	0.97	(24.6)	1.71	(43.4)

Table IV: Dash No./Shrink Boot

Dash No	Conduit I.D.	F Dia Max	H Max	K Max	L Max	M Max	N Max	P Max	Shrink Boot Part Number
08	0.250 (6.4)	0.84 (21.3)	1.06 (26.9)	1.26 (32.0)	0.50 (12.7)	1.01 (25.7)	0.68 (17.3)	1.20 (30.5)	770-001S104
12	0.375 (9.5)	0.97 (24.6)	1.09 (27.7)	1.32 (33.5)	0.53 (13.5)	1.04 (26.4)	0.75 (19.1)	1.26 (32.0)	770-001S105
16	0.500 (12.7)	1.09 (27.7)	1.12 (28.4)	1.38 (35.1)	0.55 (14.0)	1.07 (27.2)	0.81 (20.6)	1.32 (33.5)	770-001S106
20	0.625 (15.9)	1.22 (31.0)	1.14 (29.0)	1.44 (36.6)	0.61 (15.5)	1.12 (28.4)	0.93 (23.6)	1.45 (36.8)	770-001S106
24	0.750 (19.1)	1.35 (34.3)	1.17 (29.7)	1.51 (38.4)	0.63 (16.0)	1.14 (29.0)	1.00 (25.4)	1.51 (38.4)	770-001S107
32	1.000 (25.4)	1.66 (42.2)	1.23 (31.2)	1.66 (42.2)	0.71 (18.0)	1.22 (31.0)	1.18 (30.0)	1.70 (43.2)	770-001S108
40	1.250 (31.8)	1.91 (48.5)	1.28 (32.5)	1.79 (45.5)	0.76 (19.3)	1.27 (32.3)	1.31 (33.3)	1.82 (46.2)	770-001S108
48	1.500 (38.1)	2.28 (57.9)	1.36 (34.5)	1.98 (50.3)	0.81 (20.6)	1.32 (33.5)	1.43 (36.3)	1.95 (49.5)	770-001S109
64	2.000 (50.8)	2.78 (70.6)	1.50 (38.1)	2.23 (56.6)	TBD (TBD)	TBD (TBD)	TBD (TBD)	TBD (TBD)	770-001S109

D

Table II: Material and Finish

Sym	Material	Finish Description
NF	Al Alloy	Cad O.D. Over Electroless Nickel (1000 Hour Salt Spray)
BN	Brass	
B0	Brass	Unplated
Z1	300 Series SST	Passivate
M	Al Alloy	Electroless Nickel
MT	Al Alloy	Nickel PTFE
SN	Steel, B1113	Cad O.D. Over Electroless Nickel (1000 Hour Salt Spray)
ZM	300 Series SST	Electroless Nickel
ZW	300 Series SST	Cadmium Olive Drab over Electroless Nickel

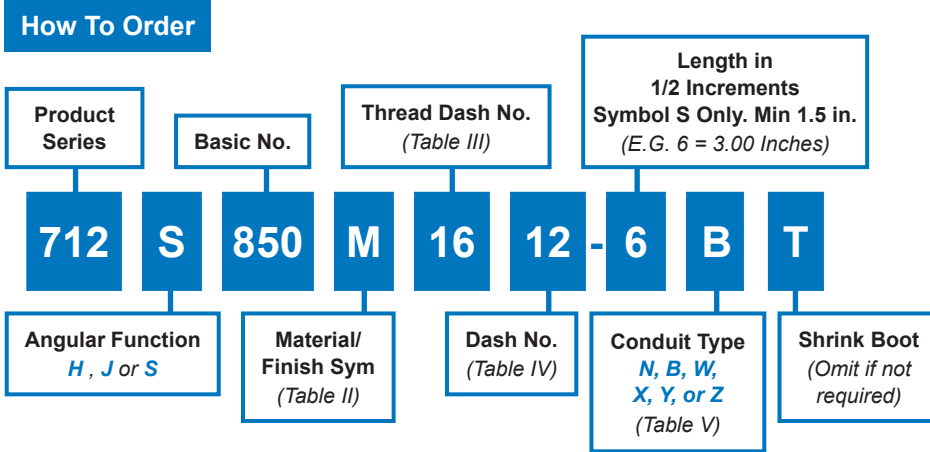
Table V: Conduit Designator

Conduit Part Number	Core Material	Conduit Designator
750-191 & -192 (Core Option N) 750-084, 750-085	Nickel/Iron Core	N
750-191 & -192 (Core Option C) 750-094, 750-095	Stainless Steel Core	
M24758-*, 750-079	M24758 Brass Core	
750-191 & -192 (Core Option B) 730-031, 750-045	Glenair Brass Core	B
750-190 (Core Option N)	Nickel/Iron Core	W
750-190 (Core Option C)	Stainless Steel Core	
750-190 (Core Option B)	Glenair Brass Core	X
750-193 & -194 (Core Option N)	Nickel/Iron Core	Y
750-193 & -194 (Core Option C)	Stainless Steel Core	
750-193 & -194 (Core Option B)	Glenair Brass Core	
750-193 & -194 (Core Option B)	Glenair Brass Core	Z

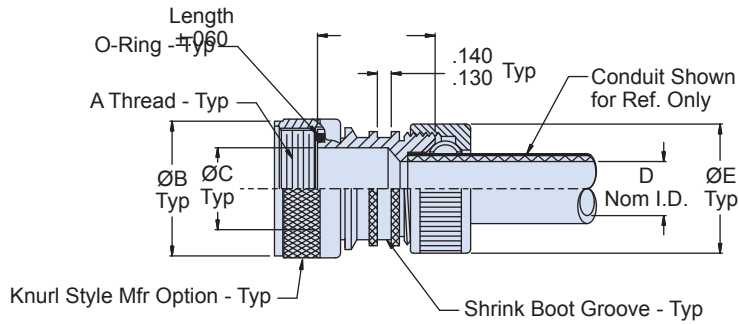


712-850
RP Plus System
Conduit to Transition or End Fitting Backshell
for Series 75 Metal-Core Conduit

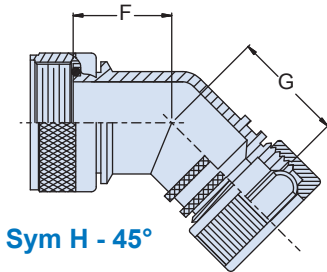
RP Plus conduit-to-transition or end fitting backshell



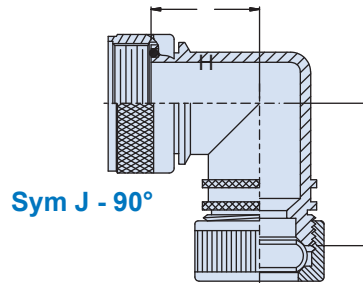
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SYM S - Straight



Sym H - 45°



Sym J - 90°

Intermateability Guide	
For use with	
Y transitions	710-106, 710-107, 710-370,
T transitions	710-108, 710-109, 710-371
Connector adapters	713-100, 713-101, 713-110
Bulkhead adapters	710-100, 710-101, 710-372
Bulkhead feed-thrus	710-102, 710-103, 710-373
Male Pipe thread adapters	710-114, 710-115, 710-405
Female pipe thread adapters	710-116, 710-117, 710-406

Material and Finish

- Adapters, Elbows, Nuts & Rings: See Table II
- O-Ring: Silicone/NA

Notes

- Mates with conduit per Table V

712-850
RP Plus System
Conduit to Transition or End Fitting Backshell
for Series 75 Metal-Core Conduit



Series 75
Metal-Core Conduit

Table II: Material and Finish

Sym	Material	Finish Description
NF	Al Alloy	Cad O.D. Over Electroless Nickel (1000 Hour Salt Spray)
BN	Brass	
B0	Brass	Unplated
Z1	300 Series SST	Passivate
M	Al Alloy	Electroless Nickel
MT	Al Alloy	Nickel PTFE
SN	Steel, B1113	Cad O.D. Over Electroless Nickel (1000 Hour Salt Spray)
ZM	300 Series SST	Electroless Nickel
ZW	300 Series SST	Cadmium Olive Drab over Electroless Nickel

Table III: Dash No./Thread

Dash No	A Thread Class 2A	B Dia Max	C Dia
08	1/2-20 UNF	0.640 (16.3)	0.250 (6.4)
12	5/8-24 UNEF	0.760 (19.3)	0.375 (9.5)
16	3/4-20 UNEF	0.890 (22.6)	0.500 (12.7)
20	7/8-20 UNEF	1.024 (26.0)	0.625 (15.9)
24	1.00-20 UNEF	1.152 (29.3)	0.750 (19.1)
32	1 5/16-18 UNEF	1.488 (37.8)	1.000 (25.4)
40	1 1/2-18 UNEF	1.676 (42.6)	1.250 (31.8)
48	1 3/4-18 UNS	1.960 (49.8)	1.500 (38.1)
64	2 1/4-16 UN	2.460 (62.5)	2.000 (50.8)
80	2 3/4-16 UN	2.930 (74.4)	2.500 (63.5)
96	3 1/4-16 UN	3.450 (87.6)	3.000 (76.2)

Table IV: Dash No./Shrink Boot

Dash No	Conduit I.D.	E Dia Max	F Max	G Max	H Max	J Max	Shrink Boot Part Number
08	0.250 (6.4)	0.84 (21.3)	0.71 (18.0)	1.06 (26.9)	0.88 (22.4)	1.26 (32.0)	770-001S104
12	0.375 (9.5)	0.97 (24.6)	0.74 (18.8)	1.09 (27.7)	0.95 (24.1)	1.32 (33.5)	770-001S105
16	0.500 (12.7)	1.09 (27.7)	0.76 (19.3)	1.12 (28.4)	1.02 (25.9)	1.38 (35.1)	770-001S106
20	0.625 (15.9)	1.22 (31.0)	0.79 (20.1)	1.14 (29.0)	1.12 (28.4)	1.44 (36.6)	770-001S106
24	0.750 (19.1)	1.35 (34.3)	0.83 (21.1)	1.17 (29.7)	1.19 (30.2)	1.51 (38.4)	770-001S107
32	1.000 (25.4)	1.66 (42.2)	0.88 (22.4)	1.23 (31.2)	1.32 (33.5)	1.66 (42.2)	770-001S108
40	1.250 (31.8)	1.91 (48.5)	1.07 (27.2)	1.28 (32.5)	1.52 (38.6)	1.79 (45.5)	770-001S108
48	1.500 (38.1)	2.28 (57.9)	1.16 (29.5)	1.36 (34.5)	1.66 (42.2)	1.98 (50.3)	770-001S109
64	2.000 (50.8)	2.78 (70.6)	1.26 (32.0)	1.50 (38.1)	1.99 (50.5)	2.23 (56.6)	770-001S109

Table V: Conduit Designator

Conduit Part Number	Core Material	Conduit Designator
750-191 & -192 (Core Option N) 750-084, 750-085	Nickel/Iron Core	N
750-191 & -192 (Core Option C) 750-094, 750-095	Stainless Steel Core	
M24758-*, 750-079	M24758 Brass Core	
750-191 & -192 (Core Option B) 730-031, 750-045	Glenair Brass Core	B
750-190 (Core Option N)	Nickel/Iron Core	W
750-190 (Core Option C)	Stainless Steel Core	
750-190 (Core Option B)	Glenair Brass Core	X
750-193 & -194 (Core Option N)	Nickel/Iron Core	Y
750-193 & -194 (Core Option C)	Stainless Steel Core	
750-193 & -194 (Core Option B)	Glenair Brass Core	Z

D

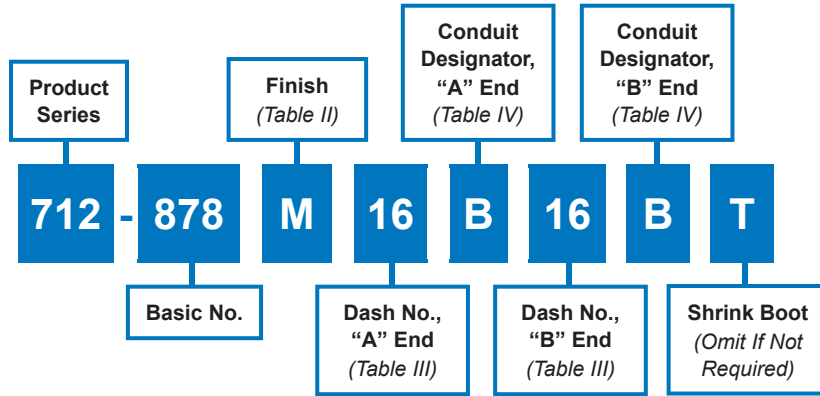


712-878 RP Plus Splice

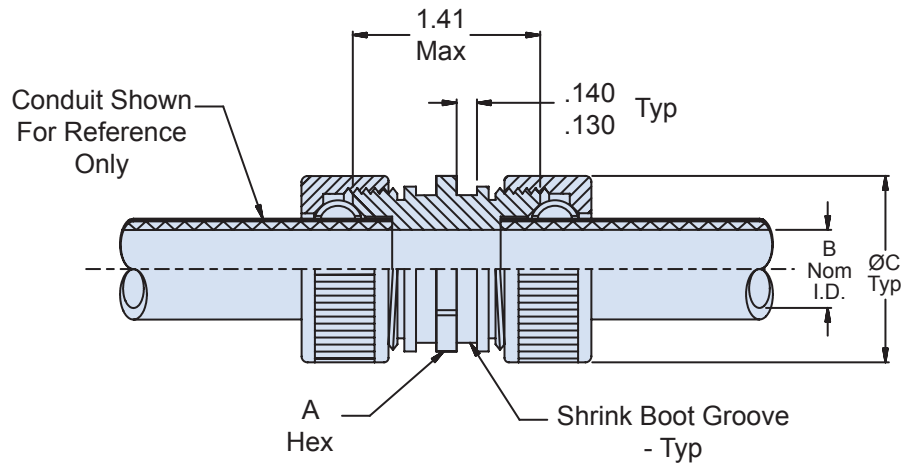
RP Plus conduit-to-conduit splice



How To Order



D



Material & Finish

Adapters, Nuts & Rings: See Table II

Notes

Mates with conduit per Table IV

Table II: Material/Finish

Sym	Description	
	Material	Finish
NF	AL Alloy	Cadmium Olive Drab over Electroless Nickel (1000 Hour Salt Spray)
BN	Brass	
B0	Brass	Unplated
Z1	300 Series SST	Passivate
M	AL Alloy	Electroless Nickel
MT	AL Alloy	Nickel PTFE
SN	Steel, B1113	Cadmium Olive Drab over Electroless Nickel (1000 Hour Salt Spray)
ZM	300 Series SST	Electroless Nickel
ZW	300 Series SST	Cadmium Olive Drab over Electroless Nickel

Table III: Dash No./

Dash No.	A Hex	B I.D.	Ø C Max	Shrink Boot Part Number
08	.875 (22.2)	.250 (6.40)	.840 (21.3)	770-001S104
12	1.000 (25.4)	.375 (9.53)	.970 (24.6)	770-001S105
16	1.125 (28.6)	.500 (12.7)	1.090 (27.7)	770-001S106
20	1.250 (31.8)	.625 (15.9)	1.220 (31.0)	770-001S106
24	1.375 (34.9)	.750 (19.1)	1.350 (34.3)	770-001S107
32	1.750 (44.5)	1.000 (25.4)	1.660 (42.2)	770-001S108
40	2.000 (50.8)	1.250 (31.8)	1.910 (48.5)	770-001S108
48	2.375 (60.3)	1.500 (38.1)	2.280 (57.9)	770-001S109
64	2.875 (73.0)	2.000 (50.8)	2.780 (70.6)	770-001S109

Table V: Conduit Designator

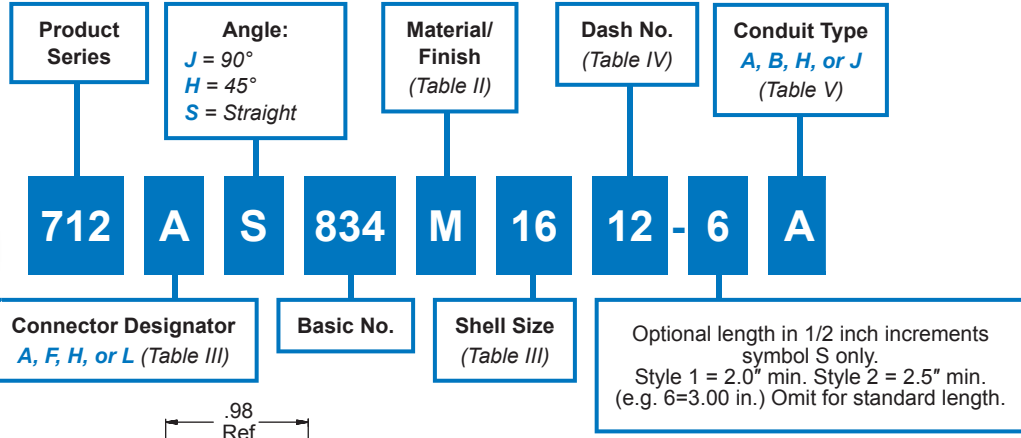
Conduit Part Number	Core Material	Conduit Designator
750-191 & -192 (Core Option N) 750-084, 750-085	Nickel/Iron Core	N
750-191 & -192 (Core Option C) 750-094, 750-095	Stainless Steel Core	
M24758-*, 750-079	M24758 Brass Core	
750-191 & -192 (Core Option B) 730-031, 750-045	Glenair Brass Core	B
750-190 (Core Option N)	Nickel/Iron Core	W
750-190 (Core Option C)	Stainless Steel Core	
750-190 (Core Option B)	Glenair Brass Core	X
750-193 & -194 (Core Option N)	Nickel/Iron Core	Y
750-193 & -194 (Core Option C)	Stainless Steel Core	
750-193 & -194 (Core Option B)	Glenair Brass Core	Z



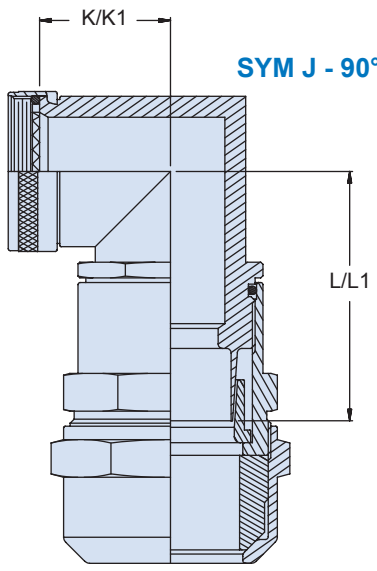
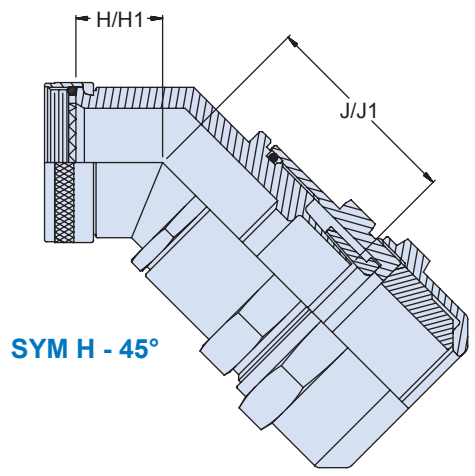
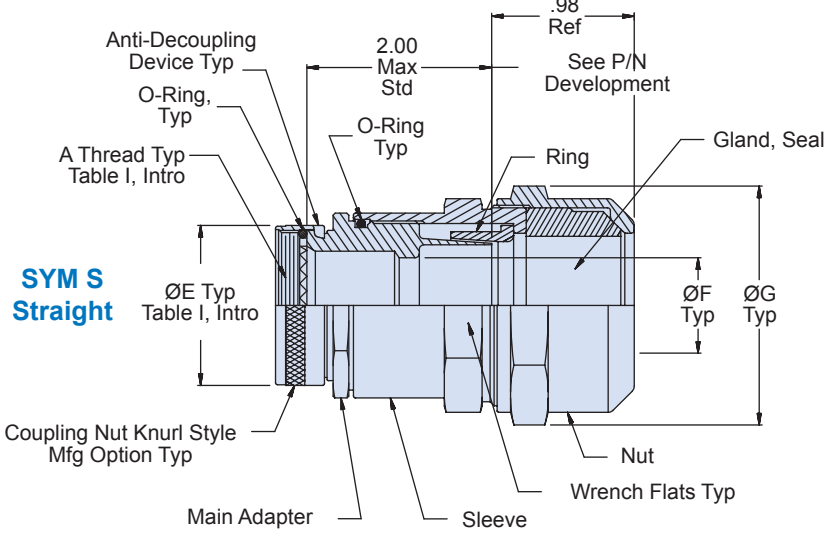
712-834
Heavy-Duty Environmental System - Metal
Metal Self-Locking, Advanced EMI/Sealing Conduit to Connector
Backshell for Series 75 Metal-Core Conduit

Metal Heavy-Duty Environmental System conduit-to-connector backshell, self-locking with advanced EMI shielding and environmental sealing

How To Order



D



Material and Finish

- Adapters, Elbows, Nuts, Sleeve & Ring: See Table II
- O-Rings & Gland: Silicone Rubber/NA
- Anti-Decoupling Device: Corrosion Resistant Material

Specifications

- When conduit diameter exceeds max dash no. (Table III) Style 2 will be supplied (also see pages A-32 – A-33). Dimensions H1, J1, K1 and L1 apply to Style 2 angular fittings.
- O-Ring not supplied with connector designator A

712-834

**Heavy-Duty Environmental System - Metal
Metal Self-Locking, Advanced EMI/Sealing Conduit to Connector
Backshell for Series 75 Metal-Core Conduit**



Series 75
Metal-Core Conduit

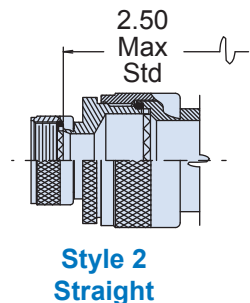


Table III: Shell Size/Dimensions

Shell Size		Max Dash No Style I	H Max	J Max	K Max	L Max
A, F, L	H					
08	09	08	0.71 (18.0)	1.63 (41.4)	0.88 (22.4)	1.90 (48.3)
10	11	12	0.74 (18.8)	1.66 (42.2)	0.95 (24.1)	1.97 (50.0)
12	13	16	0.76 (19.3)	1.70 (43.2)	1.02 (25.9)	2.07 (52.6)
14	15	20	0.79 (20.1)	1.73 (43.9)	1.12 (28.4)	2.14 (54.4)
16	17	24	0.81 (20.6)	1.76 (44.7)	1.19 (30.2)	2.21 (56.1)
18	19	24	0.83 (21.1)	1.78 (45.2)	1.19 (30.2)	2.21 (56.1)
20	21	32	0.86 (21.8)	1.82 (46.2)	1.32 (33.5)	2.38 (60.5)
22	23	32	0.88 (22.4)	1.85 (47.0)	1.32 (33.5)	2.38 (60.5)
24	25	40	0.92 (23.4)	1.88 (47.8)	1.45 (36.8)	2.52 (64.0)
28		40	1.07 (27.2)	1.91 (48.5)	1.52 (38.6)	2.52 (64.0)
32		48	1.12 (28.4)	1.97 (50.0)	1.66 (42.2)	2.65 (67.3)
36		48	1.16 (29.5)	2.01 (51.1)	1.66 (42.2)	2.73 (69.3)
40		64	1.21 (30.7)	2.07 (52.6)	1.99 (50.5)	2.97 (75.4)
44		64	1.26 (32.0)	2.11 (53.6)	1.99 (50.5)	3.09 (78.5)
48		80	1.31 (33.3)	2.18 (55.4)	2.26 (57.4)	3.21 (81.5)
61		40	0.92 (23.4)	1.87 (47.5)	1.45 (36.8)	2.52 (64.0)

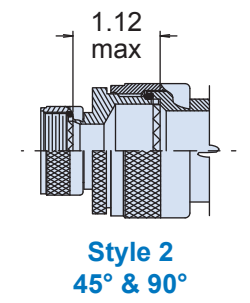


Table IV Dash No./Dimensions

Dash No	F.I.D.	Ø G Max	H1 Max	J1 Max	K1 Max	L1 Max
08	0.250 (6.4)	1.18 (30.0)	N/A	N/A	N/A	N/A
12	0.375 (9.5)	1.32 (33.5)	0.74 (18.8)	1.66 (42.2)	.95 (24.1)	1.97 (50.0)
16	0.500 (12.7)	1.45 (36.8)	0.76 (19.3)	1.70 (43.2)	1.02 (25.9)	2.07 (52.6)
20	0.625 (15.9)	1.66 (42.2)	0.79 (20.1)	1.73 (43.9)	1.12 (28.4)	2.14 (54.4)
24	0.750 (19.1)	1.79 (45.5)	0.83 (21.1)	1.78 (45.2)	1.19 (30.2)	2.21 (56.1)
32	1.000 (25.4)	2.06 (52.3)	0.88 (22.4)	1.85 (47.0)	1.32 (33.5)	2.38 (60.5)
40	1.250 (31.8)	2.32 (58.9)	1.07 (27.2)	1.91 (48.5)	1.52 (38.6)	2.52 (64.0)
48	1.500 (38.1)	2.59 (65.8)	1.16 (29.5)	2.01 (51.1)	1.66 (42.2)	2.73 (69.3)
64	2.000 (50.8)	3.26 (82.8)	1.26 (32.0)	2.11 (53.6)	1.99 (50.5)	3.09 (78.5)
80	2.500 (63.5)	3.80 (96.5)	1.31 (33.3)	2.18 (55.4)	2.26 (57.4)	3.21 (81.5)

D

Table II

Sym	Material	Finish Description	Component
BO	Brass	Unplated	
BN	Brass	Cad/O.D. Over Electroless Nickel (1,000 Hour Salt Spray)	
BM	Brass	Electroless Nickel	
BMT	Brass	Nickel-PTFE	
M	Aluminum Alloy	Electroless Nickel	
MT	Aluminum Alloy	Nickel-PTFE	
NF	Aluminum Alloy	Cad/O.D. Over Electroless Nickel (1,000 Hour Salt Spray)	
Z1	300 Series SST	Passivate	
ZN	Aluminum Alloy	Zinc Nickel/Olive Drab Over Electroless Nickel (1,000 Hour Salt Spray)	
ZM	300 Series SST	Electroless Nickel	Adapter, Elbow
		Passivate	Coupling Nut
ZW	300 Series SST	Cad O.D. Over Electroless Nickel	Adapter, Elbow
		Cad Olive Drab	Coupling Nut

**Table VI
Recommended Torque**

Conduit Size Code	±5 Inch Pounds	
	Sleeve	Nut
08	120	40-60
12	120	↑
16	140	↑
20	140	↑
24	150	↑
32	170	↑
40	170	↑
48	170	↑
64	170	↑
80	170	40-60

Table V: Conduit Type

Conduit Type	Part Number	Configuration
A	750-192	Brass conduit with single braided shield and jacket
B	750-194	Brass conduit with double braided shield and jacket
H	750-192	Stainless steel conduit with single braided shield and jacket
J	750-192	Nickel/iron conduit with single braided shield and Jacket

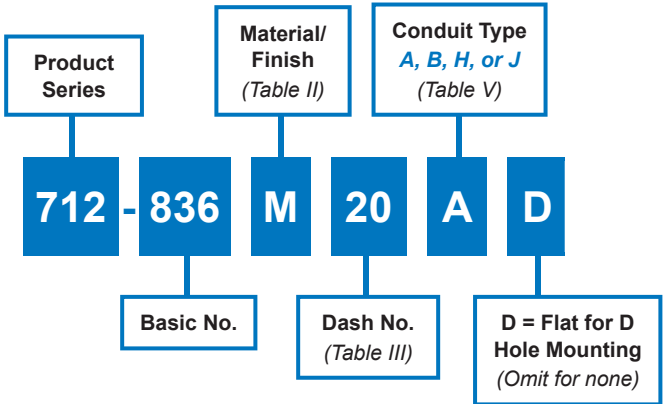


712-836
Heavy-Duty Environmental System - Metal
Advanced EMI/Sealing Conduit to Bulkhead Fitting
for Series 75 Metal-Core Conduit

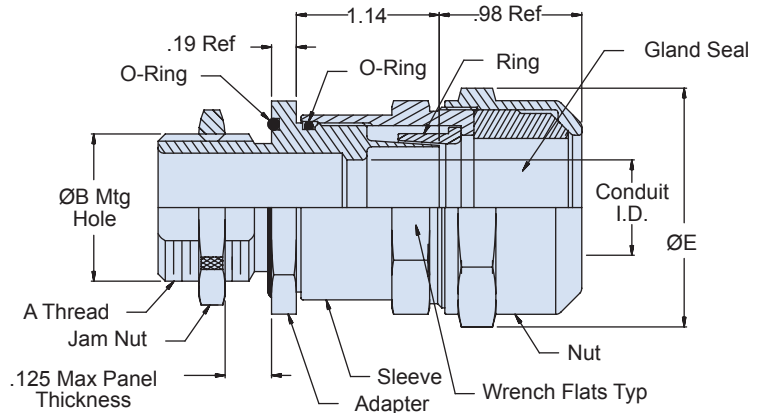
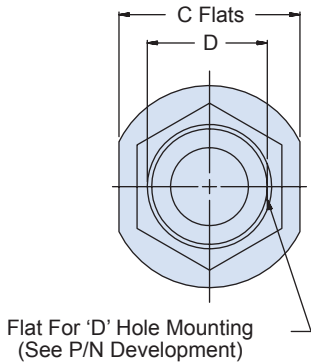
Metal Heavy-Duty Environmental System conduit-to-bulkhead fitting, with advanced EMI shielding and environmental sealing



How To Order



D



Material and Finish

- Adapter, Nuts, Sleeves & Rings: See Table II
- O-Rings & Gland: Silicone Rubber/NA

712-836

**Heavy-Duty Environmental System - Metal
Advanced EMI/Sealing Conduit to Bulkhead Fitting
for Series 75 Metal-Core Conduit**



Series 75
Metal-Core Conduit

Table III: Dash No./Dimensions

Dash No	Conduit I.D.	A Thread	Ø B +.015 -.000	C Flats	D +.000 -.015	Ø E Max
08	0.250 (6.4)	1/2-20 UNF - 2A	0.505 (12.8)	0.875 (22.2)	0.438 (11.1)	1.18 (30.0)
12	0.375 (9.5)	5/8-24 UNEF - 2A	0.630 (16.0)	1.000 (25.4)	0.563 (14.3)	1.32 (33.5)
16	0.500 (12.7)	3/4-20 UNEF - 2A	0.755 (19.2)	1.250 (31.8)	0.688 (17.5)	1.45 (36.8)
20	0.625 (15.9)	7/8-20 UNEF - 2A	0.880 (22.4)	1.312 (33.3)	0.812 (20.6)	1.66 (42.2)
24	0.750 (19.1)	1.00-20 UNEF - 2A	1.005 (25.5)	1.500 (38.1)	0.938 (23.8)	1.79 (45.5)
32	1.000 (25.4)	1 5/16-18 UNEF - 2A	1.318 (33.5)	1.750 (44.5)	1.250 (31.8)	2.06 (52.3)
40	1.250 (31.8)	1 1/2-18 UNEF - 2A	1.505 (38.2)	2.000 (50.8)	1.438 (36.5)	2.32 (58.9)
48	1.500 (38.1)	1 3/4-18 UNS - 2A	1.755 (44.6)	2.250 (57.2)	1.688 (42.9)	2.59 (65.8)
64	2.000 (50.8)	2 1/4-16 UN - 2A	2.255 (57.3)	2.750 (69.9)	2.188 (55.6)	3.26 (82.8)
80	2.500 (63.5)	2 3/4-16 UN - 2A	2.755 (70.0)	3.250 (82.6)	2.688 (68.3)	3.80 (96.5)
96	3.000 (76.2)	3 1/4-16 UN - 2A	3.255 (82.7)	3.750 (95.3)	3.188 (81.0)	4.45 (113.0)

Table II: Material/Finish

Sym	Material	Finish Description
BO	Brass	Unplated
BN	Brass	Cad/O.D. Over Electroless Nickel (1,000 Hour Salt Spray)
BM	Brass	Electroless Nickel
BMT	Brass	Nickel-PTFE
M	Aluminum Alloy	Electroless Nickel
MT	Aluminum Alloy	Nickel-PTFE
NF	Aluminum Alloy	Cad/O.D. Over Electroless Nickel (1,000 Hour Salt Spray)
Z1	300 Series SST	Passivate
ZM	300 Series SST	Electroless Nickel
ZN	Aluminum Alloy	Zinc Nickel/Olive Drab over Electroless Nickel (1000 Hour Salt Spray)
ZW	300 Series SST	Cad O.D. Over Electroless Nickel

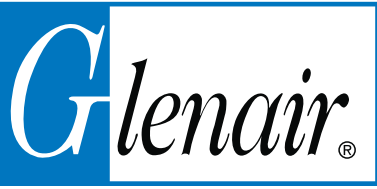
**Table IV
Recommended Torque**

Conduit Size Code	±5 Inch Pounds	
	Sleeve	Nut
08	120	40-60
12	120	↑
16	140	
20	140	
24	150	
32	170	
40	170	
48	170	
64	170	
80	170	
96	170	↓ 40-60

Table V: Conduit Type

Conduit Type	Part Number	Configuration
A	750-192	Brass conduit with single braided shield and jacket
B	750-194	Brass conduit with double braided shield and jacket
H	750-192	Stainless steel conduit with single braided shield and jacket
J	750-192	Nickel/iron conduit with single braided shield and jacket

D

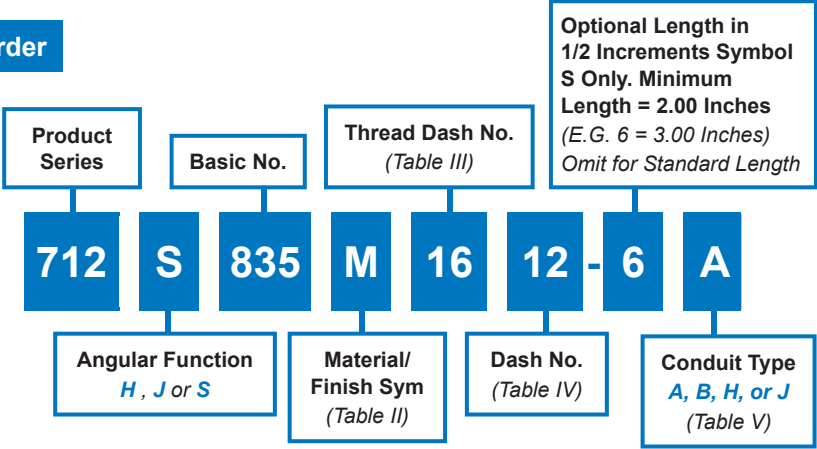


712-835
Heavy-Duty Environmental System - Metal
Environmental Conduit to Transition or End Fitting Backshell
for Series 75 Metal-Core Conduit

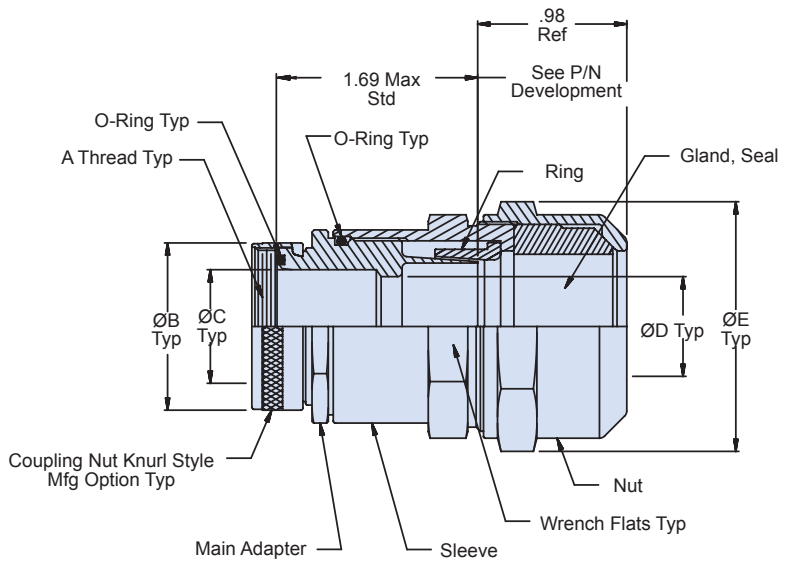
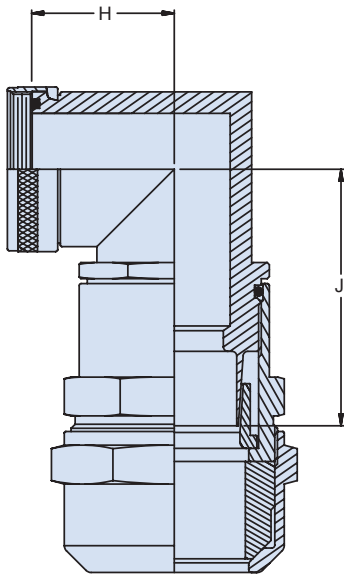
Metal Heavy-Duty Environmental System conduit-to-transition or end fitting backshell



How To Order



D



Intermateability Guide	
For use with	
Y transitions	710-106, 710-107, 710-370,
T transitions	710-108, 710-109, 710-371
Connector adapters	713-100, 713-101, 713-110
Bulkhead adapters	710-100, 710-101, 710-372
Bulkhead feed-thrus	710-102, 710-103, 710-373
Male Pipe thread adapters	710-114, 710-115, 710-405
Female pipe thread adapters	710-116, 710-117, 710-406

Material and Finish

- Adapters, Elbows, Nuts, Sleeve & Ring: See Table II
- O-Rings & Gland: Silicone rubber/NA

712-835

**Heavy-Duty Environmental System - Metal
Environmental Conduit to Transition or End Fitting Backshell
for Series 75 Metal-Core Conduit**



Series 75
Metal-Core Conduit

Table III: Thread Dash No./Dimensions

Thread Dash No.	A Thread	Ø B Max	Ø C
08	1/2-20 UNF	.640 (16.3)	.250 (6.35)
12	5/8-24 UNEF	.760 (19.3)	.375 (9.53)
16	3/4-20 UNEF	.890 (22.6)	.500 (12.7)
20	7/8-20 UNEF	1.024 (26.0)	.625 (15.9)
24	1.00-20 UNEF	1.152 (29.2)	.750 (19.1)
32	1 5/16-18 UNEF	1.488 (37.8)	1.000 (25.4)
40	1 1/2-18 UNEF	1.676 (42.7)	1.250 (31.8)
48	1 3/4-18 UNS	1.960 (49.8)	1.500 (38.1)
64	2 1/4-16 UN	2.460 (62.5)	2.000 (50.8)
80	2 3/4-16 UN	2.930 (74.4)	2.500 (64.0)
96	3 1/4-16 UN	3.450 (87.6)	3.000 (75.2)

Table II: Material/Finish

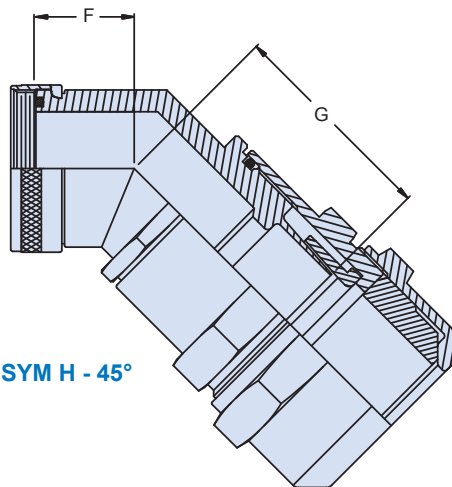
Sym	Material	Finish Description
BO	Brass	Unplated
BN	Brass	Cadmium/Olive Drab Over Electroless Nickel (1,000 Hour Salt Spray)
BM	Brass	Electroless Nickel
BMT	Brass	Nickel-PTFE
M	Aluminum Alloy	Electroless Nickel
MT	Aluminum Alloy	Nickel-PTFE
NF	Aluminum Alloy	Cadmium/Olive Drab Over Electroless Nickel (1,000 Hour Salt Spray)
Z1	300 Series SST	Passivate
ZM	300 Series SST	Electroless Nickel
ZN	Aluminum Alloy	Zinc Nickel/Olive Drab Over Electroless Nickel (1,000 Hour Salt Spray)
ZW	300 Series SST	Cad O.D. Over Electroless Nickel

Table IV: Recommended Torque

Conduit Size Code	±5 Inch Pounds	
	Sleeve	Nut
08	120	40-60
12	120	↑
16	140	↑
20	140	↑
24	150	↑
32	170	↑
40	170	↑
48	170	↑
64	170	↓
80	170	40-60

Table IV: Dash No./Dimensions

Dash No.	D I.D.	Ø E Max	F Max	G Max	H Max	J Max
08	.250 (6.4)	1.18 (30.0)	.71 (18.0)	1.63 (41.4)	.88 (22.4)	1.90 (48.3)
12	.375 (9.5)	1.32 (33.5)	.74 (18.8)	1.66 (42.2)	.95 (24.1)	1.97 (50.0)
16	.500 (12.7)	1.45 (36.8)	.76 (19.3)	1.70 (43.2)	1.02 (25.9)	2.07 (52.6)
20	.625 (15.9)	1.66 (42.2)	.79 (20.0)	1.73 (43.9)	1.12 (28.4)	2.14 (54.4)
24	.750 (19.1)	1.79 (45.5)	.83 (21.1)	1.78 (45.2)	1.19 (30.2)	2.21 (56.1)
32	1.000 (25.4)	2.06 (52.3)	.88 (22.4)	1.85 (47.0)	1.32 (33.5)	2.38 (60.5)
40	1.250 (31.8)	2.32 (58.9)	1.07 (27.2)	1.91 (48.5)	1.52 (38.6)	2.52 (64.0)
48	1.500 (38.1)	2.59 (65.8)	1.16 (29.5)	2.01 (51.1)	1.66 (42.2)	2.73 (69.3)
64	2.000 (50.8)	3.26 (82.8)	1.26 (32.0)	2.11 (53.6)	1.99 (50.5)	3.09 (78.5)
80	2.500 (63.5)	3.80 (96.5)	1.31 (33.3)	2.18 (55.4)	2.26 (57.4)	3.21 (81.5)
96	3.000 (76.2)	4.45 (113.0)	1.42 (36.1)	2.28 (57.9)	2.59 (65.8)	3.42 (86.9)

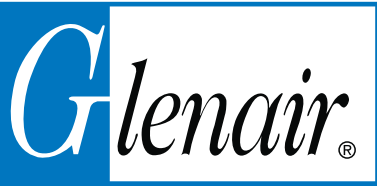


SYM H - 45°

Table V: Conduit Type

Conduit Type	Part Number	Configuration
A	750-192	Brass conduit with single braided shield and jacket
B	750-194	Brass conduit with double braided shield and jacket
H	750-192	Stainless steel conduit with single braided shield and jacket
J	750-192	Nickel/iron conduit with single braided shield and jacket

D

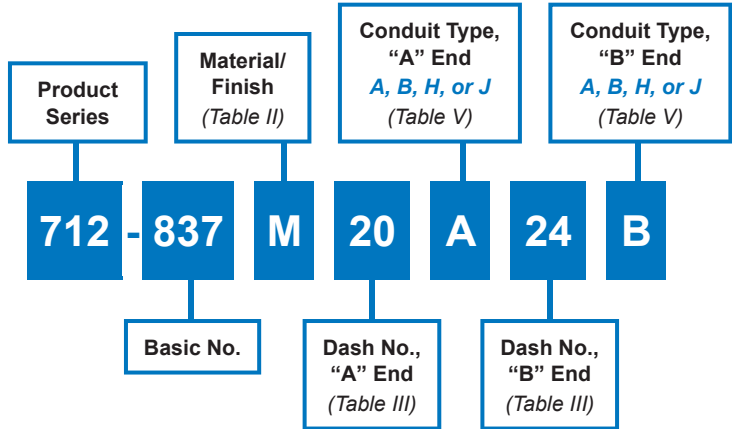


712-837
Heavy-Duty Environmental System - Metal
Advanced EMI/Sealing Conduit-to-Conduit Splice
for Series 75 Metal-Core Conduit

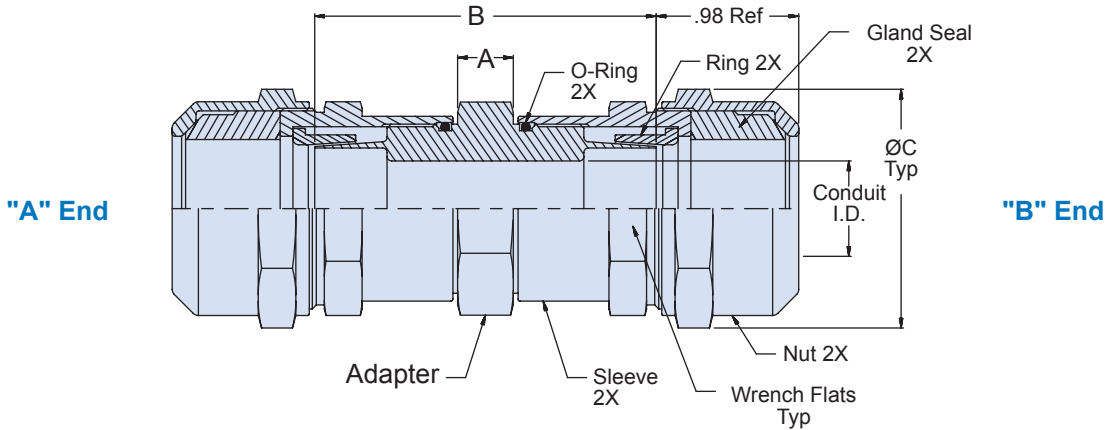
Metal Heavy-Duty Environmental System user installable splice kit with advanced EMI shielding and environmental sealing



How To Order



D



Material and Finish

- Adapters, Nuts, Sleeves & Rings: See Table II
- O-Rings & Gland: Silicone Rubber/NA

712-837

Heavy-Duty Environmental System - Metal Advanced EMI/Sealing Conduit-to-Conduit Splice for Series 75 Metal-Core Conduit

Series 75
Metal-Core Conduit

Table III: Dash No./Dimensions

Dash No	Conduit I.D.		A		B		C Max	
08	0.250	(6.4)	0.50	(12.7)	2.78	(70.6)	1.18	(30.0)
12	0.375	(9.5)	0.50	(12.7)	2.78	(70.6)	1.32	(33.5)
16	0.500	(12.7)	0.56	(14.2)	2.84	(72.1)	1.45	(36.8)
20	0.625	(15.9)	0.56	(14.2)	2.84	(72.1)	1.66	(42.2)
24	0.750	(19.1)	0.62	(15.7)	2.90	(73.7)	1.79	(45.5)
32	1.000	(25.4)	0.62	(15.7)	2.90	(73.7)	2.06	(52.3)
40	1.250	(31.8)	0.68	(17.3)	2.96	(75.2)	2.32	(58.9)
48	1.500	(38.1)	0.68	(17.3)	2.96	(75.2)	2.59	(65.8)
64	2.000	(50.8)	0.75	(19.1)	3.03	(77.0)	3.26	(82.8)
80	2.500	(63.5)	0.75	(19.1)	3.03	(77.0)	3.80	(96.5)
96	3.000	(76.2)	0.75	(19.1)	3.03	(77.0)	4.45	(113.0)

Table II: Material/Finish

Sym	Material	Finish Description
BO	Brass	Unplated
BN	Brass	Cad/O.D. Over Electroless Nickel (1,000 Hour Salt Spray)
BM	Brass	Electroless Nickel
BMT	Brass	Nickel-PTFE
M	Aluminum Alloy	Electroless Nickel
MT	Aluminum Alloy	Nickel-PTFE
NF	Aluminum Alloy	Cad/O.D. Over Electroless Nickel (1,000 Hour Salt Spray)
Z1	300 Series SST	Passivate
ZM	300 Series SST	Electroless Nickel
ZN	Aluminum Alloy	Zinc Nickel/Olive Drab over Electroless Nickel (1000 Hour Salt Spray)
ZW	300 Series SST	Cad O.D. Over Electroless Nickel

Table IV
Recommended Torque

Conduit Size Code	±5 Inch Pounds	
	Sleeve	Nut
08	120	40-60
12	120	↑
16	140	↑
20	140	↑
24	150	↑
32	170	↑
40	170	↑
48	170	↑
64	170	↑
80	170	↑
96	170	40-60

D

Table V: Conduit Type

Conduit Type	Part Number	Configuration
A	750-192	Brass conduit with single braided shield and jacket
B	750-194	Brass conduit with double braided shield and jacket
H	750-192	Stainless steel conduit with single braided shield and jacket
J	750-192	Nickel/iron conduit with single braided shield and jacket

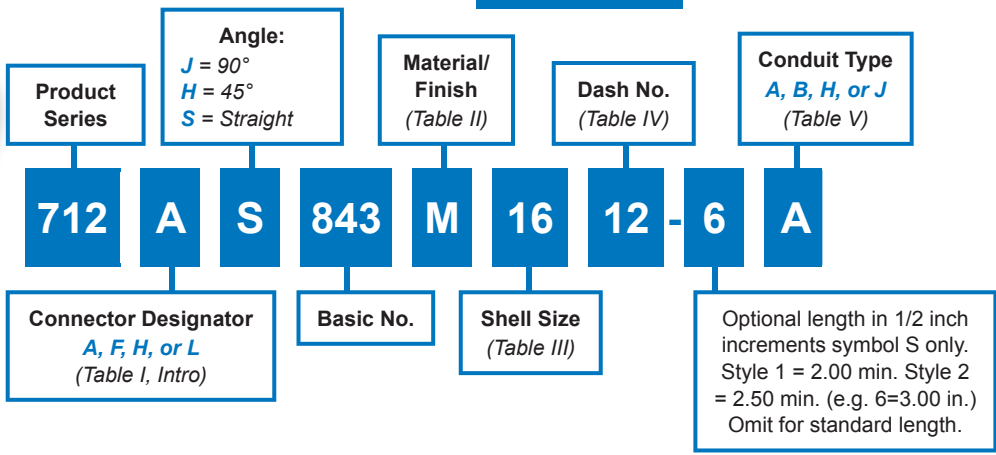


712-843
Heavy-Duty Environmental System - Composite
Environmental, Self-Locking Conduit to Connector Backshell for
Series 75 Metal-Core Conduit

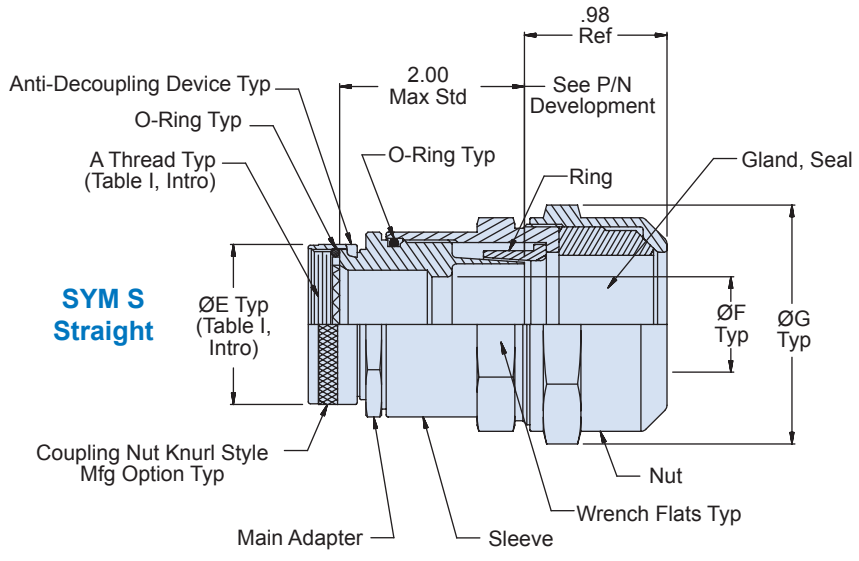
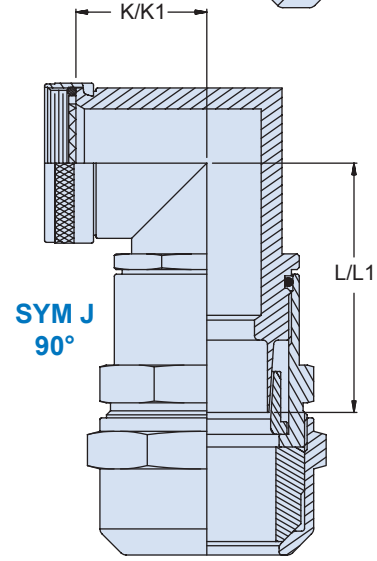
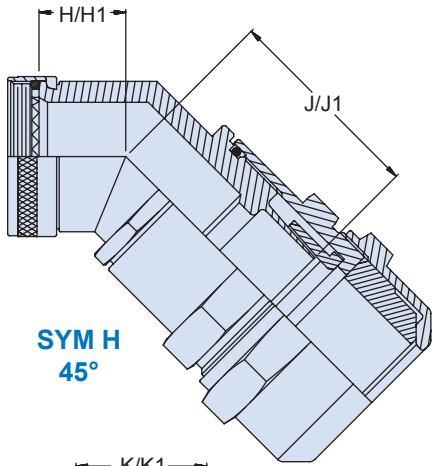
Weight-saving composite Heavy-Duty Environmental System self-locking conduit to connector backshell



How To Order



D



Material and Finish

- Adapters, Elbows, Coupling Nuts & Ring: See Table II
- Sleeves & Nuts: High Grade Engineering Thermoplastic, color Haze Gray/NA
- O-Ring & Gland Seal: Silicone Rubber/NA
- Anti-Decoupling Device: Corrosion resistant material/NA

Notes

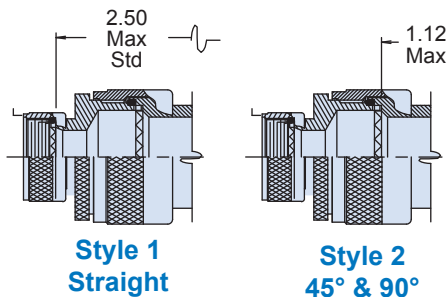
- When conduit diameter exceeds max dash no. (Table III) Style 2 will be supplied (also see pages A-32 – A-33). Dimensions H1, J1, K1 and L1 apply to Style 2 angular fittings.
- O-Ring not supplied with connector designator A

712-843

Heavy-Duty Environmental System - Composite Environmental, Self-Locking Conduit to Connector Backshell for Series 75 Metal-Core Conduit



Series 75 Metal-Core Conduit



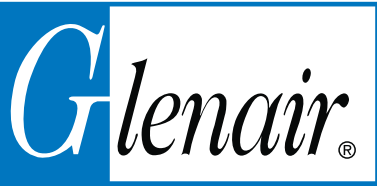
Shell Size		Max Dash No Style I	H Max	J Max	K Max	L Max
A, F, L	H					
08	09	08	0.71 (18.0)	1.63 (41.4)	0.88 (22.4)	1.90 (48.3)
10	11	12	0.74 (18.8)	1.66 (42.2)	0.95 (24.1)	1.97 (50.0)
12	13	16	0.76 (19.3)	1.70 (43.2)	1.02 (25.9)	2.07 (52.6)
14	15	20	0.79 (20.1)	1.73 (43.9)	1.12 (28.4)	2.14 (54.4)
16	17	24	0.81 (20.6)	1.76 (44.7)	1.19 (30.2)	2.21 (56.1)
18	19	24	0.83 (21.1)	1.78 (45.2)	1.19 (30.2)	2.21 (56.1)
20	21	32	0.86 (21.8)	1.82 (46.2)	1.32 (33.5)	2.38 (60.5)
22	23	32	0.88 (22.4)	1.85 (47.0)	1.32 (33.5)	2.38 (60.5)
24	25	40	0.92 (23.4)	1.88 (47.8)	1.45 (36.8)	2.52 (64.0)
28		40	1.07 (27.2)	1.91 (48.5)	1.52 (38.6)	2.52 (64.0)
32		48	1.12 (28.4)	1.97 (50.0)	1.66 (42.2)	2.65 (67.3)
36		48	1.16 (29.5)	2.01 (51.1)	1.66 (42.2)	2.73 (69.3)
40		64	1.21 (30.7)	2.07 (52.6)	1.99 (50.5)	2.97 (75.4)
44		64	1.26 (32.0)	2.11 (53.6)	1.99 (50.5)	3.09 (78.5)
48		80	1.31 (33.3)	2.18 (55.4)	2.26 (57.4)	3.21 (81.5)
61		40	0.92 (23.4)	1.87 (47.5)	1.45 (36.8)	2.52 (64.0)

Conduit Size Code	±5 Inch Pounds	
	Sleeve	Nut
08	120	40-60
12	120	
16	140	
20	140	
24	150	
32	170	
40	170	
48	170	
64	170	
80	170	40-60

Dash No	F.I.D.	Ø G Max	H1 Max	J1 Max	K1 Max	L1 Max
08	0.250 (6.4)	1.18 (30.0)	N/A	N/A	N/A	N/A
12	0.375 (9.5)	1.32 (33.5)	0.74 (18.8)	1.66 (42.2)	0.95 (24.1)	1.97 (50.0)
16	0.500 (12.7)	1.45 (36.8)	0.76 (19.3)	1.70 (43.2)	1.02 (25.9)	2.07 (52.6)
20	0.625 (15.9)	1.66 (42.2)	0.79 (20.1)	1.73 (43.9)	1.12 (28.4)	2.14 (54.4)
24	0.750 (19.1)	1.79 (45.5)	0.83 (21.1)	1.78 (45.2)	1.19 (30.2)	2.21 (56.1)
32	1.000 (25.4)	2.06 (52.3)	0.88 (22.4)	1.85 (47.0)	1.32 (33.5)	2.38 (60.5)
40	1.250 (31.8)	2.32 (58.9)	1.07 (27.2)	1.91 (48.5)	1.52 (38.6)	2.52 (64.0)
48	1.500 (38.1)	2.59 (65.8)	1.16 (29.5)	2.01 (51.1)	1.66 (42.2)	2.73 (69.3)
64	2.000 (50.8)	3.26 (82.8)	1.26 (32.0)	2.11 (53.6)	1.99 (50.5)	3.09 (78.5)
80	2.500 (63.5)	3.80 (96.5)	1.31 (33.3)	2.18 (55.4)	2.26 (57.4)	3.21 (81.5)

Conduit Type	Part Number	Configuration
A	750-192	Brass conduit with single braided shield and jacket
B	750-194	Brass conduit with double braided shield and jacket
H	750-192	Stainless steel conduit with single braided shield and jacket
J	750-192	Nickel/iron conduit with single braided shield and jacket

Sym	Material	Finish Description	Component
BO	Brass	Unplated	
BN	Brass	Cad/O.D. Over Electroless Nickel (1,000 Hour Salt Spray)	
BM	Brass	Electroless Nickel	
BMT	Brass	Nickel-PTFE	
M	Aluminum Alloy	Electroless Nickel	
MT	Aluminum Alloy	Nickel-PTFE	
NF	Aluminum Alloy	Cad/O.D. Over Electroless Nickel (1,000 Hour Salt Spray)	
Z1	300 Series SST	Passivate	
ZN	Aluminum Alloy	Zinc Nickel/Olive Drab Over Electroless Nickel (1,000 Hour Salt Spray)	
ZM	300 Series SST	Electroless Nickel	Adapter, Elbow
		Passivate	Coupling Nut
ZW	300 Series SST	Cad O.D. Over Electroless Nickel	Adapter, Elbow
		Cad Olive Drab	Coupling Nut

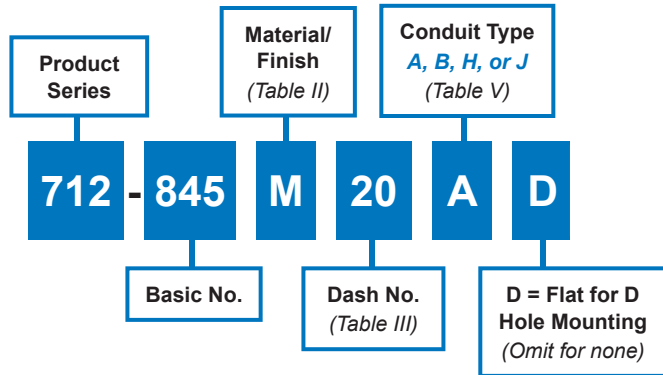


712-845
Heavy-Duty Environmental System - Composite
Conduit-to-Bulkhead Fitting
for Series 75 Metal-Core Conduit

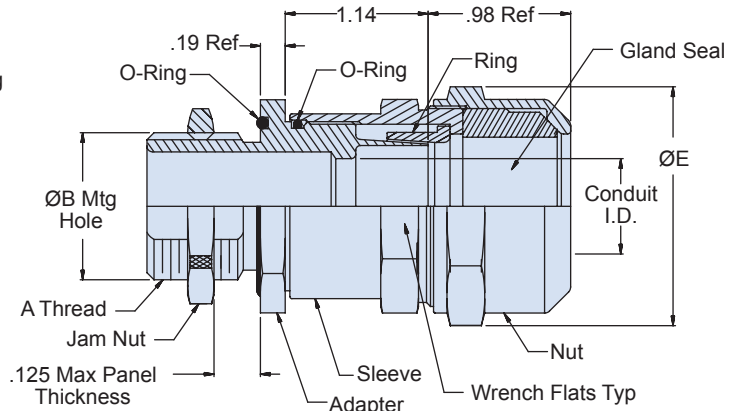
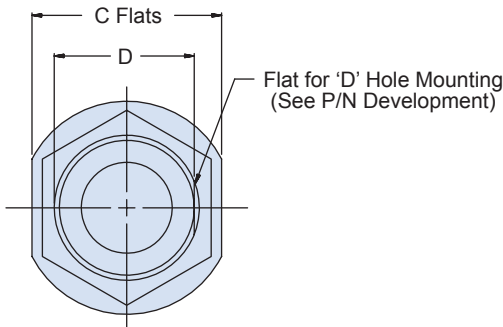
Weight-saving composite Heavy-Duty Environmental System conduit-to-bulkhead fitting



How To Order



D



Material and Finish

- Adapter, Jam Nuts & Rings: See Table II
- Sleeves & Nuts: High grade engineering thermoplastic, color Haze Gray/NA
- O-Ring & Gland Seal: Silicone rubber/NA

712-845
Heavy-Duty Environmental System - Composite
Conduit-to-Bulkhead Fitting
for Series 75 Metal-Core Conduit



Table III: Dash No./Dimensions

Dash No	Conduit I.D.	A Thread	Ø B +.015 -.000	C Flats	D +.000 -.015	Ø E Max
08	0.250 (6.4)	1/2-20 UNF - 2A	0.505 (12.8)	0.875 (22.2)	0.438 (11.1)	1.18 (30.0)
12	0.375 (9.5)	5/8-24 UNEF - 2A	0.630 (16.0)	1.000 (25.4)	0.563 (14.3)	1.32 (33.5)
16	0.500 (12.7)	3/4-20 UNEF - 2A	0.755 (19.2)	1.250 (31.8)	0.688 (17.5)	1.45 (36.8)
20	0.625 (15.9)	7/8-20 UNEF - 2A	0.880 (22.4)	1.312 (33.3)	0.812 (20.6)	1.66 (42.2)
24	0.750 (19.1)	1.00-20 UNEF - 2A	1.005 (25.5)	1.500 (38.1)	0.938 (23.8)	1.79 (45.5)
32	1.000 (25.4)	1 5/16-18 UNEF - 2A	1.318 (33.5)	1.750 (44.5)	1.250 (31.8)	2.06 (52.3)
40	1.250 (31.8)	1 1/2-18 UNEF - 2A	1.505 (38.2)	2.000 (50.8)	1.438 (36.5)	2.32 (58.9)
48	1.500 (38.1)	1 3/4-18 UNS - 2A	1.755 (44.6)	2.250 (57.2)	1.688 (42.9)	2.59 (65.8)
64	2.000 (50.8)	2 1/4-16 UN - 2A	2.255 (57.3)	2.750 (69.9)	2.188 (55.6)	3.26 (82.8)
80	2.500 (63.5)	2 3/4-16 UN - 2A	2.755 (70.0)	3.250 (82.6)	2.688 (68.3)	3.80 (96.5)
96	3.000 (76.2)	3 1/4-16 UN - 2A	3.255 (82.7)	3.750 (95.3)	3.188 (81.0)	4.45 (113.0)

Table II: Material/Finish

Sym	Material	Finish Description
BO	Brass	Unplated
BN	Brass	Cad/O.D. Over Electroless Nickel (1,000 Hour Salt Spray)
BM	Brass	Electroless Nickel
BMT	Brass	Nickel-PTFE
M	Aluminum Alloy	Electroless Nickel
MT	Aluminum Alloy	Nickel-PTFE
NF	Aluminum Alloy	Cad/O.D. Over Electroless Nickel (1,000 Hour Salt Spray)
Z1	300 Series SST	Passivate
ZM	300 Series SST	Electroless Nickel
ZN	Aluminum Alloy	Zinc Nickel/Olive Drab over Electroless Nickel (1000 Hour Salt Spray)
ZW	300 Series SST	Cad O.D. Over Electroless Nickel

Table IV: Recommended Torque

Conduit Size Code	±5 Inch Pounds	
	Sleeve	Nut
08	120	40-60
12	120	↑
16	140	↑
20	140	↑
24	150	↑
32	170	↑
40	170	↑
48	170	↑
64	170	↑
80	170	↑
96	170	40-60 ↓

Table V: Conduit Type

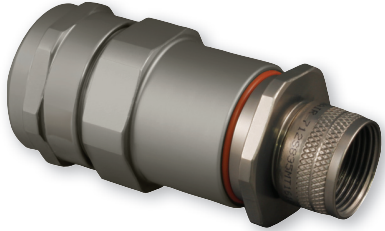
Conduit Type	Part Number	Configuration
A	750-192	Brass conduit with single braided shield and jacket
B	750-194	Brass conduit with double braided shield and jacket
H	750-192	Stainless steel conduit with single braided shield and jacket
J	750-192	Nickel/iron conduit with single braided shield and jacket



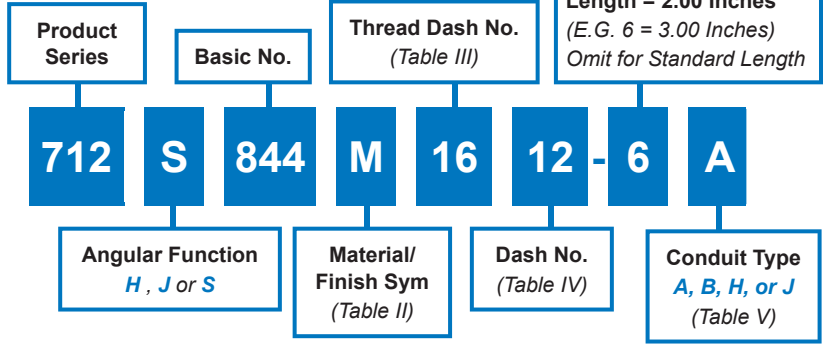
712-844
Heavy-Duty Environmental System - Composite
Conduit to Transition or End Fitting Backshell
for Series 75 Metal-Core Conduit

Weight-saving composite Heavy-Duty Environmental System conduit-to-transition or end fitting backshell

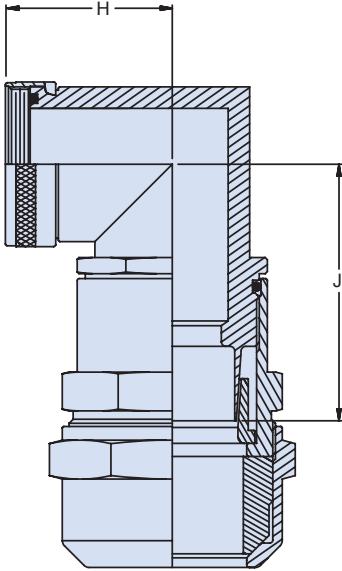
How To Order



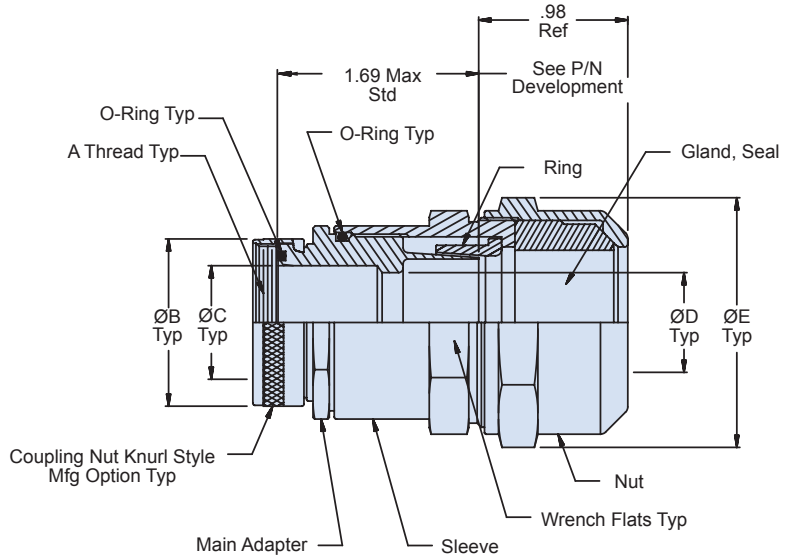
Optional Length in 1/2 Increments Symbol **S** Only. Minimum Length = 2.00 Inches (E.G. 6 = 3.00 Inches) Omit for Standard Length



D



SYM J - 90°



SYM S - Straight

Intermateability Guide	
For use with	
Y transitions	710-106, 710-107, 710-370,
T transitions	710-108, 710-109, 710-371
Connector adapters	713-100, 713-101, 713-110
Bulkhead adapters	710-100, 710-101, 710-372
Bulkhead feed-thrus	710-102, 710-103, 710-373
Male Pipe thread adapters	710-114, 710-115, 710-405
Female pipe thread adapters	710-116, 710-117, 710-406

Material and Finish

- Adapters, Elbows, and Ring: See Table II
- Sleeves and Nuts: High grade engineering thermoplastic, color Haze Gray/NA
- O-Rings & Gland: Silicone rubber/NA

712-844

**Heavy-Duty Environmental System - Composite
Conduit to Transition or End Fitting Backshell
for Series 75 Metal-Core Conduit**



Series 75
Metal-Core Conduit

Table III: Dash No./Dimensions

Thread Dash No.	A Thread	Ø B Max	Ø C
08	1/2-20 UNF	.640 (16.3)	.250 (6.35)
12	5/8-24 UNEF	.760 (19.3)	.375 (9.53)
16	3/4-20 UNEF	.890 (22.6)	.500 (12.7)
20	7/8-20 UNEF	1.024 (26.0)	.625 (15.9)
24	1.00-20 UNEF	1.152 (29.2)	.750 (19.1)
32	1 5/16-18 UNEF	1.488 (37.8)	1.000 (25.4)
40	1 1/2-18 UNEF	1.676 (42.7)	1.250 (31.8)
48	1 3/4-18 UNS	1.960 (49.8)	1.500 (38.1)
64	2 1/4-16 UN	2.460 (62.5)	2.000 (50.8)
80	2 3/4-16 UN	2.930 (74.4)	2.500 (64.0)
96	3 1/4-16 UN	3.450 (87.6)	3.000 (75.2)

Table II: Material/Finish

Sym	Material	Finish Description
BO	Brass	Unplated
BN	Brass	Cadmium/Olive Drab Over Electroless Nickel (1,000 Hour Salt Spray)
BM	Brass	Electroless Nickel
BMT	Brass	Nickel-PTFE
M	Aluminum Alloy	Electroless Nickel
MT	Aluminum Alloy	Nickel-PTFE
NF	Aluminum Alloy	Cadmium/Olive Drab Over Electroless Nickel (1,000 Hour Salt Spray)
Z1	300 Series SST	Passivate
ZM	300 Series SST	Electroless Nickel
ZN	Aluminum Alloy	Zinc Nickel/Olive Drab Over Electroless Nickel (1,000 Hour Salt Spray)
ZW	300 Series SST	Cad O.D. Over Electroless Nickel

Table IV: Recommended Torque

Conduit Size Code	±5 Inch Pounds	
	Sleeve	Nut
08	120	40-60
12	120	↑
16	140	↑
20	140	↑
24	150	↑
32	170	↑
40	170	↑
48	170	↑
64	170	↓
80	170	40-60

Table IV: Dash No./Dimensions

Dash No.	D I.D.	Ø E Max	F Max	G Max	H Max	J Max
08	.250 (6.4)	1.18 (30.0)	.71 (18.0)	1.63 (41.4)	.88 (22.4)	1.90 (48.3)
12	.375 (9.5)	1.32 (33.5)	.74 (18.8)	1.66 (42.2)	.95 (24.1)	1.97 (50.0)
16	.500 (12.7)	1.45 (36.8)	.76 (19.3)	1.70 (43.2)	1.02 (25.9)	2.07 (52.6)
20	.625 (15.9)	1.66 (42.2)	.79 (20.0)	1.73 (43.9)	1.12 (28.4)	2.14 (54.4)
24	.750 (19.1)	1.79 (45.5)	.83 (21.1)	1.78 (45.2)	1.19 (30.2)	2.21 (56.1)
32	1.000 (25.4)	2.06 (52.3)	.88 (22.4)	1.85 (47.0)	1.32 (33.5)	2.38 (60.5)
40	1.250 (31.8)	2.32 (58.9)	1.07 (27.2)	1.91 (48.5)	1.52 (38.6)	2.52 (64.0)
48	1.500 (38.1)	2.59 (65.8)	1.16 (29.5)	2.01 (51.1)	1.66 (42.2)	2.73 (69.3)
64	2.000 (50.8)	3.26 (82.8)	1.26 (32.0)	2.11 (53.6)	1.99 (50.5)	3.09 (78.5)
80	2.500 (63.5)	3.80 (96.5)	1.31 (33.3)	2.18 (55.4)	2.26 (57.4)	3.21 (81.5)
96	3.000 (76.2)	4.45 (113.0)	1.42 (36.1)	2.28 (57.9)	2.59 (65.8)	3.42 (86.9)

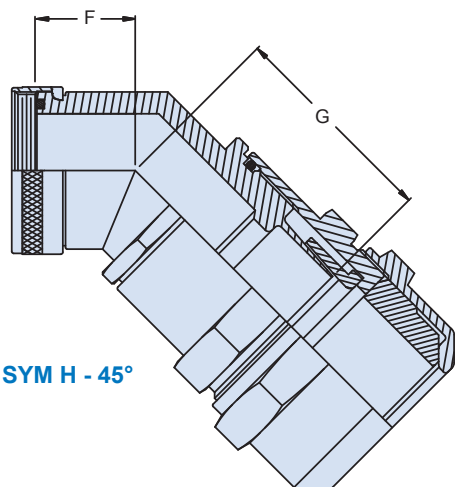
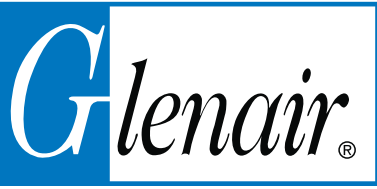


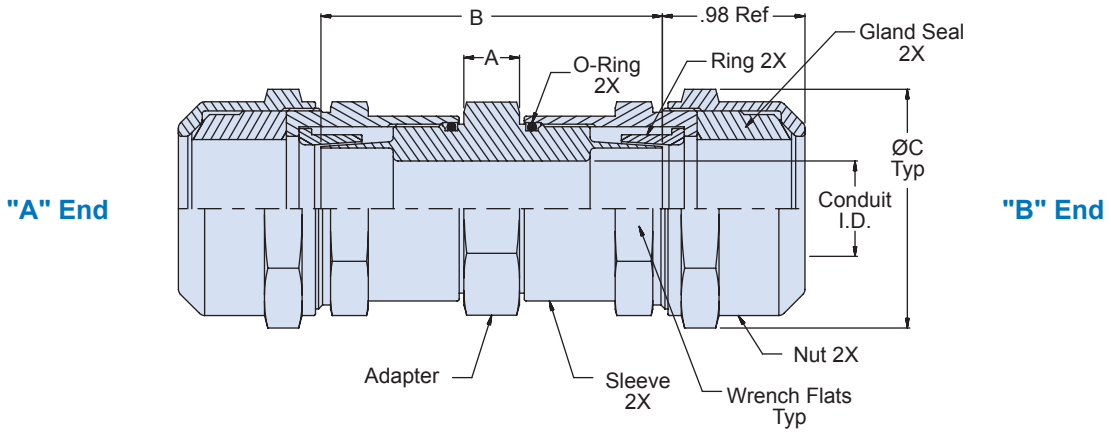
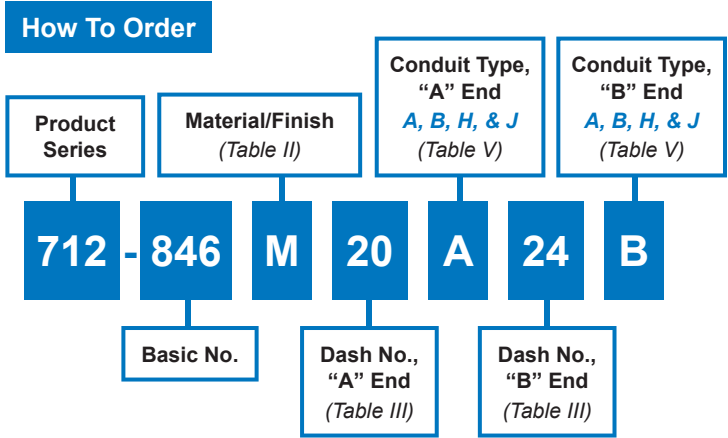
Table V: Conduit Type

Conduit Type	Part Number	Configuration
A	750-192	Brass conduit with single braided shield and jacket
B	750-194	Brass conduit with double braided shield and jacket
H	750-192	Stainless steel conduit with single braided shield and jacket
J	750-192	Nickel/iron conduit with single braided shield and jacket



712-846
Heavy-Duty Environmental System - Composite
Conduit-to-Conduit Splice for Series 75 Metal-Core Conduit

Weight-saving composite Heavy-Duty Environmental System user installable splice kit



Material and Finish

- Adapters & Rings: See Table II
- Sleeves & Nuts: High grade engineering thermoplastic, color Haze Gray/NA
- O-Rings & Gland: Silicone rubber/NA

712-846

Heavy-Duty Environmental System - Composite Conduit-to-Conduit Splice for Series 75 Metal-Core Conduit

Series 75
Metal-Core Conduit

Table III: Dash No./Dimensions

Dash No	Conduit I.D.	A	B	Ø C Max
08	0.250 (6.4)	0.50 (12.7)	2.78 (70.6)	1.18 (30.0)
12	0.375 (9.5)	0.50 (12.7)	2.78 (70.6)	1.32 (33.5)
16	0.500 (12.7)	0.56 (14.2)	2.84 (72.1)	1.45 (36.8)
20	0.625 (15.9)	0.56 (14.2)	2.84 (72.1)	1.66 (42.2)
24	0.750 (19.1)	0.62 (15.7)	2.90 (73.7)	1.79 (45.5)
32	1.000 (25.4)	0.62 (15.7)	2.90 (73.7)	2.06 (52.3)
40	1.250 (31.8)	0.68 (17.3)	2.96 (75.2)	2.32 (58.9)
48	1.500 (38.1)	0.68 (17.3)	2.96 (75.2)	2.59 (65.8)
64	2.000 (50.8)	0.75 (19.1)	3.03 (77.0)	3.26 (82.8)
80	2.500 (63.5)	0.75 (19.1)	3.03 (77.0)	3.80 (96.5)
96	3.000 (76.2)	0.75 (19.1)	3.03 (77.0)	4.45 (113.0)

Table IV: Recommended Torque

Conduit Size Code	±5 Inch Pounds	
	Sleeve	Nut
08	120	40-60
12	120	↑ ↓
16	140	
20	140	
24	150	
32	170	
40	170	
48	170	
64	170	
80	170	
96	170	

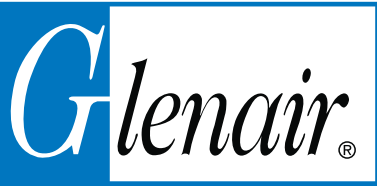
Table II: Material/Finish

Sym	Material	Finish Description
BO	Brass	Unplated
BN	Brass	Cad/O.D. Over Electroless Nickel (1,000 Hour Salt Spray)
BM	Brass	Electroless Nickel
BMT	Brass	Nickel-PTFE
M	Aluminum Alloy	Electroless Nickel
MT	Aluminum Alloy	Nickel-PTFE
NF	Aluminum Alloy	Cad/O.D. Over Electroless Nickel (1,000 Hour Salt Spray)
Z1	300 Series SST	Passivate
ZN	Aluminum Alloy	Zinc Nickel/Olive Drab Over Electroless Nickel (1,000 Hour Salt Spray)
ZM	300 Series SST	Passivate
ZW	300 Series SST	Cad O.D. Over Electroless Nickel

Table V: Conduit Type

Conduit Type	Part Number	Configuration
A	750-192	Brass conduit with single braided shield and jacket
B	750-194	Brass conduit with double braided shield and jacket
H	750-192	Stainless steel conduit with single braided shield and jacket
J	750-192	Nickel/iron conduit with single braided shield and jacket

D

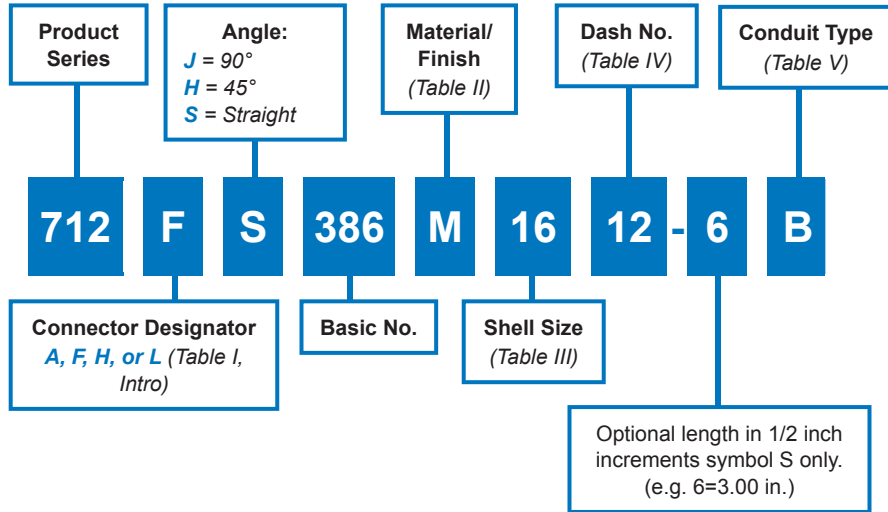


712-386
Legacy MIL-C-24758 (Superseded)
Environmental EMI/RFI Conduit to Connector Backshell
for Series 75 Metal-Core Conduit

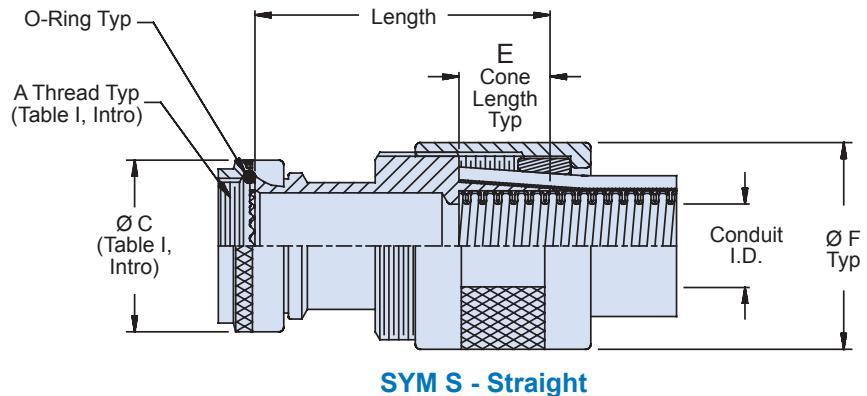
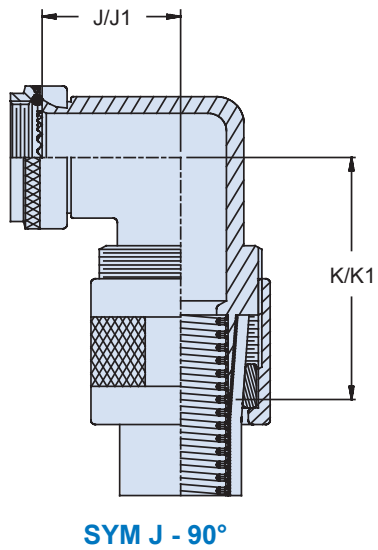
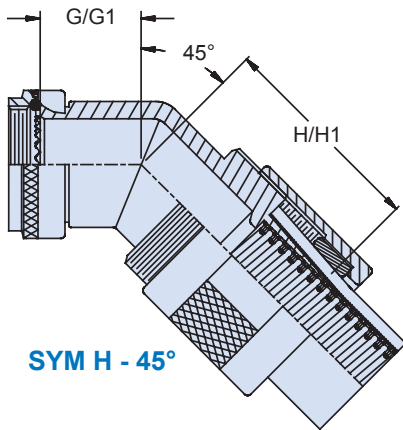
Legacy MIL-C-24758 conduit-to-connector backshell (Superseded by MIL-PRF-24758A [SH])



How To Order



D



Material/Finish

- Adapters, Elbows, Coupling Nuts, Nuts, Ring: See Table II
- O-Rings: Silicone/NA

Notes

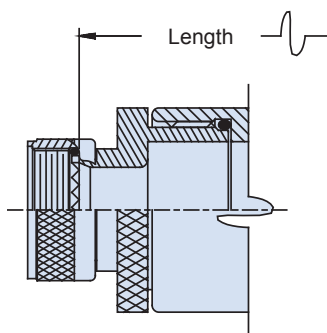
- O-Ring not supplied with connector designator A
- F dimension is based on type A conduit. Add .125 (3.2) to listed dimensions for additional shield types B or D.
- When tubing I.D. max exceeds inside diameter of connector shell, style 2 will be supplied. Refer to pages A-32 – A-33.

712-386

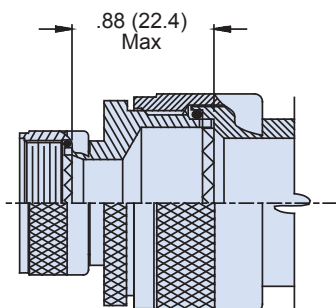
Legacy MIL-C-24758 (Superseded)
Environmental EMI/RFI Conduit to Connector Backshell
for Series 75 Metal-Core Conduit



Series 75
Metal-Core Conduit



Style 2
(Straight)



Style 2
(45° & 90°)

Table III: Shell Size/Dimensions

Shell Size		G Max	H Max	J Max	K Max
A,F,L	H				
08	09	.639 (16.2)	1.700 (43.2)	.750 (19.1)	1.810 (46.0)
10	11	.654 (16.6)	1.730 (43.9)	.810 (20.6)	1.870 (47.5)
12	13	.688 (17.5)	1.750 (44.5)	.870 (22.1)	1.930 (49.0)
14	15	.705 (17.9)	1.780 (45.2)	.920 (23.4)	2.000 (50.8)
16	17	.732 (18.6)	1.800 (45.7)	.980 (24.9)	2.060 (52.3)
18	19	.748 (19.0)	1.810 (46.0)	1.020 (25.9)	2.080 (52.8)
20	21	.773 (19.6)	2.020 (51.3)	1.080 (27.4)	2.390 (60.7)
22	23	.800 (20.3)	2.060 (52.3)	1.140 (29.0)	2.470 (62.7)
24	25	.823 (20.9)	2.090 (53.1)	1.200 (30.5)	2.540 (64.5)
28		1.041 (26.4)	2.320 (58.9)	1.480 (37.6)	2.780 (70.6)
32		1.092 (27.7)	2.360 (59.9)	1.610 (40.9)	2.870 (72.9)
36		1.138 (28.9)	2.410 (61.2)	1.720 (43.7)	2.960 (75.2)
40		1.184 (30.1)	2.450 (62.2)	1.830 (46.5)	3.070 (78.0)
44		1.235 (31.4)	2.500 (63.5)	1.950 (49.5)	3.200 (81.3)
48		1.287 (32.7)	2.550 (64.8)	2.080 (52.8)	3.320 (84.3)
61		1.003 (25.5)	2.270 (57.7)	1.390 (35.3)	2.380 (60.5)

Table IV Dash No./Dimensions

Dash No	Conduit I.D.	E	Ø F Max	G1 Max	H1 Max	J1 Max	K1 Max
08	.250 (6.4)	.75 (19.1)	1.16 (29.5)	.639 (16.2)	1.700 (43.2)	.750 (19.1)	1.810 (46.0)
12	.375 (9.5)	.75 (19.1)	1.34 (34.0)	.654 (16.6)	1.730 (43.9)	.810 (20.6)	1.870 (47.5)
16	.500 (12.7)	.75 (19.1)	1.46 (37.1)	.688 (17.5)	1.750 (44.5)	.870 (22.1)	1.930 (49.0)
20	.625 (15.9)	.75 (19.1)	1.65 (41.9)	.705 (17.9)	1.780 (45.2)	.920 (23.4)	2.000 (50.8)
24	.750 (19.1)	.75 (19.1)	1.84 (46.7)	.732 (18.6)	1.800 (45.7)	.980 (24.9)	2.060 (52.3)
32	1.000 (25.4)	1.00 (25.4)	2.02 (51.3)	.773 (19.6)	2.020 (51.3)	1.080 (27.4)	2.390 (60.7)
40	1.250 (31.8)	1.00 (25.4)	2.34 (59.4)	.823 (20.9)	2.090 (53.1)	1.200 (30.5)	2.540 (64.5)
48	1.500 (38.1)	1.00 (25.4)	2.72 (69.1)	1.041 (26.4)	2.360 (59.9)	1.480 (37.6)	2.870 (72.9)
56	1.750 (44.5)	1.00 (25.4)	2.96 (75.2)	1.062 (27.0)	2.410 (61.2)	1.550 (39.4)	2.960 (75.2)
64	2.000 (50.8)	1.00 (25.4)	3.22 (81.8)	1.092 (27.7)	2.450 (62.2)	1.610 (40.9)	3.070 (78.0)
80	2.500 (63.5)	1.00 (25.4)	3.86 (98.0)	1.190 (30.2)	2.550 (64.8)	1.860 (47.2)	3.320 (84.3)
96	3.000 (76.2)	1.00 (25.4)	4.38 (111.3)	1.250 (31.8)	2.610 (66.3)	1.990 (50.5)	3.450 (87.6)

Table II: Finish

Symbol	Material	Finish
A	Aluminum Alloy, 6061	Cadmium, Olive Drab, per QQ-P-416 over Electroless Nickel per ASTM B733-90 and MIL-C-26074, 1000 Hour Salt Spray
B	Brass, ASTM B16	
C	Corrosion Resistant Steel 300 Series	Passivate per QQ-P-35
M	Aluminum Alloy, 6061	Electroless Nickel per ASTM B733-90 and MIL-C-26074
NC	Aluminum Alloy, 6061	Zinc Cobalt, Olive Drab
S	Carbon Steel, B1113	Cadmium, Olive Drab, per QQ-P-416, over Electroless Nickel per ASTM B733-90 and MIL-C-26074, 500 Hour Salt Spray

Table V: Conduit Type

Conduit Type	Part Number	Configuration
A	750-192	Brass conduit with single braided shield and jacket
B	750-194	Brass conduit with double braided shield and jacket
D	750-196	Brass conduit with triple braided shield and jacket
H	750-192	Stainless steel conduit with single braided shield and jacket
J	750-192	Nickel/iron conduit with single braided shield and jacket

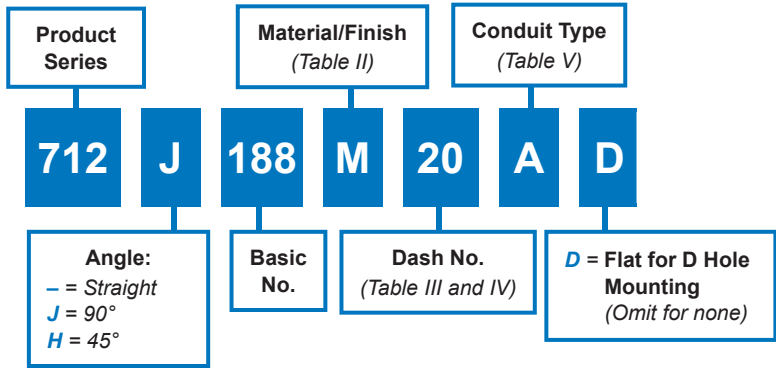
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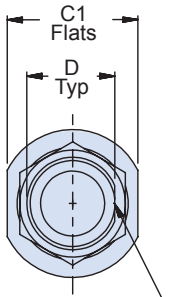
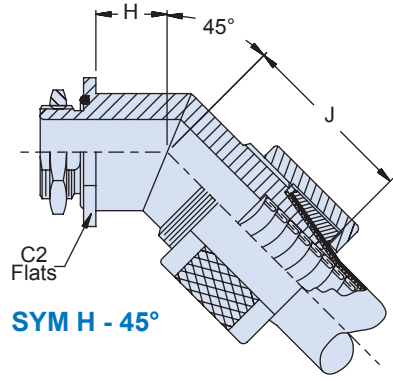
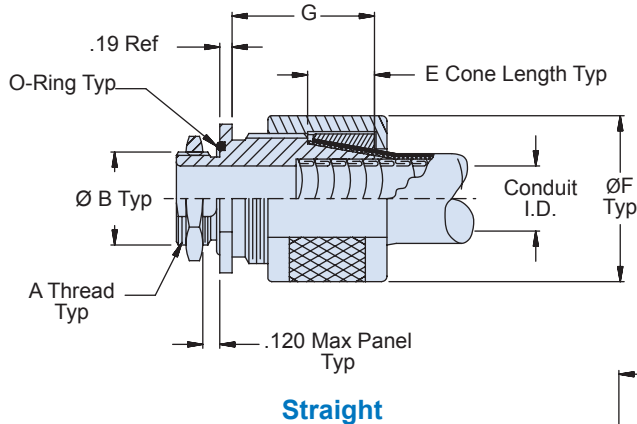
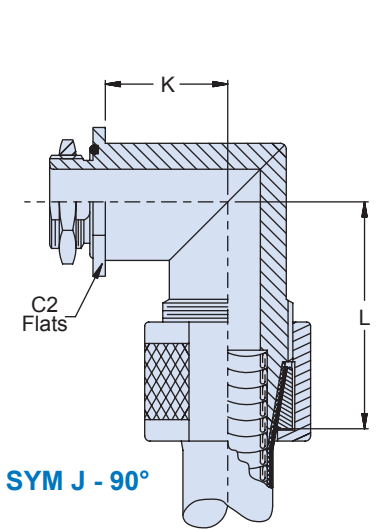
712-188
Legacy MIL-C-24758 (Superseded)
Environmental EMI/RFI Bulkhead Fitting
for Series 75 Metal-Core Conduit

Legacy MIL-C-24758 conduit-to-bulkhead fitting (Superseded by MIL-PRF-24758A [SH])

How To Order



D



Flat for 'D' Hole Mounting
(see P/N Development)

Material/Finish

- Adapter, Nuts, Rings: See Table II
- O-Ring: Silicone

Notes

- F dimensions are based on type A conduit. Add .125 (3.2) to listed dimensions for additional shield types B or D.

712-188
Legacy MIL-C-24758 (Superseded)
Environmental EMI/RFI Bulkhead Fitting
for Series 75 Metal-Core Conduit



Series 75
Metal-Core Conduit

D

Table III: Dash No./Dimensions

Dash No	Conduit I.D.	A Thread Class 2A	Ø B +.03 -.00	C1 Flats	C2 Flats	D +.000 -.015	H Max	J Max	K Max	L Max
08	.250 (6.4)	1/2 - 20 UNF	.50 (12.7)	000 (25.4)	.750 (19.1)	.438 (11.1)	0.424 (10.8)	1.700 (43.2)	0.550 (14.0)	1.810 (46.0)
12	.375 (9.5)	5/8 - 24 UNEF	.63 (16.0)	1.187 (30.1)	.875 (22.2)	.563 (14.3)	0.454 (11.5)	1.730 (43.9)	0.610 (15.5)	1.870 (47.5)
16	.500 (12.7)	3/4 - 20 UNEF	.75 (19.1)	1.250 (31.8)	1.000 (25.4)	.688 (17.5)	0.488 (12.4)	1.750 (44.5)	0.670 (17.0)	1.930 (49.0)
20	.625 (15.9)	7/8 - 20 UNEF	.88 (22.4)	1.375 (34.9)	1.125 (28.6)	.812 (20.6)	0.505 (12.8)	1.780 (45.2)	0.720 (18.3)	2.000 (50.8)
24	.750 (19.1)	1 - 20 UNEF	1.00 (25.4)	1.625 (41.3)	1.250 (31.8)	.938 (23.8)	0.532 (13.5)	1.800 (45.7)	0.780 (19.8)	2.060 (52.3)
32	1.000 (25.4)	1 5/16 - 18 UNEF	1.32 (33.5)	1.812 (46.0)	1.562 (39.7)	1.250 (31.8)	0.573 (14.6)	2.020 (51.3)	0.880 (22.4)	2.390 (60.7)
40	1.250 (31.8)	1 1/2 - 18 UNEF	1.50 (38.1)	2.125 (54.0)	1.812 (46.0)	1.438 (36.5)	0.623 (15.8)	2.090 (53.1)	1.000 (25.4)	2.540 (64.5)
48	1.500 (38.1)	1 3/4 - 18 UNS	1.75 (44.5)	2.500 (63.5)	2.062 (52.4)	1.688 (42.9)	0.841 (21.4)	2.360 (59.9)	1.280 (32.5)	2.870 (72.9)
56	1.750 (44.5)	2 - 18 UNS	2.00 (50.8)	2.750 (69.9)	2.312 (58.7)	1.938 (49.2)	0.862 (21.9)	2.410 (61.2)	1.350 (34.3)	2.960 (75.2)
64	2.000 (50.8)	2 1/4 - 16 UN	2.25 (57.2)	3.000 (76.2)	2.562 (65.1)	2.188 (55.6)	0.892 (22.7)	2.450 (62.2)	1.410 (35.8)	3.070 (78.0)
80	2.500 (63.5)	2 3/4 - 16 UN	2.75 (69.9)	3.625 (92.1)	3.062 (77.8)	2.688 (68.3)	0.990 (25.1)	2.550 (64.8)	1.660 (42.2)	3.320 (84.3)
96	3.000 (76.2)	3 1/4 - 16 UN	3.25 (82.6)	4.000 (101.6)	3.562 (90.5)	3.188 (81.0)	1.050 (26.7)	2.610 (66.3)	1.790 (45.5)	3.450 (87.6)

Table IV: Dash No./Dimensions

Dash No	E	Ø F Max	G
08	.75 (19.1)	1.16 (29.5)	1.39 (35.3)
12	.75 (19.1)	1.34 (34.0)	1.39 (35.3)
16	.75 (19.1)	1.46 (37.1)	1.39 (35.3)
20	.75 (19.1)	1.65 (41.9)	1.39 (35.3)
24	.75 (19.1)	1.84 (46.7)	1.39 (35.3)
32	1.00 (25.4)	2.02 (51.3)	1.64 (41.7)
40	1.00 (25.4)	2.34 (59.4)	1.64 (41.7)
48	1.00 (25.4)	2.72 (69.0)	1.64 (41.7)
56	1.00 (25.4)	2.96 (75.2)	1.64 (41.7)
64	1.00 (25.4)	3.22 (81.8)	1.64 (41.7)
80	1.00 (25.4)	3.86 (98.0)	1.64 (41.7)
96	1.00 (25.4)	4.38 (111.3)	1.64 (41.7)

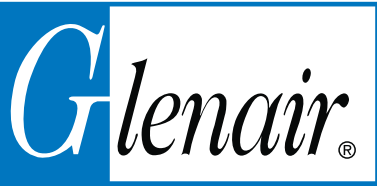
Table II: Finish

Symbol	Material	Finish
A	Aluminum Alloy, 6061	Cadmium, Olive Drab, per QQ-P-416 over Electroless Nickel per ASTM B733-90 and MIL-C-26074, 1000 Hour Salt Spray
B	Brass, ASTM B16	
C	Corrosion Resistant Steel, 300 Series	Passivate per QQ-P-35
M	Aluminum Alloy, 6061	Electroless Nickel per ASTM B733-90 and MIL-C-26074
NC	Aluminum Alloy, 6061	Zinc Cobalt, Olive Drab
S	Carbon Steel, B1113	Cadmium, Olive Drab, per QQ-P-416, over Electroless Nickel per ASTM B733-90 and MIL-C-26074, 500 Hour Salt Spray

1.000 (25.4)
1.187 (30.1)
1.250 (31.8)
1.375 (34.9)
1.625 (41.3)
1.812 (46.0)
2.125 (54.0)
2.500 (63.5)
2.750 (69.9)
3.000 (76.2)
3.625 (92.1)

Table V: Conduit Type

Conduit Type	Part Number	Configuration
A	750-192	Brass conduit with single braided shield and jacket
B	750-194	Brass conduit with double braided shield and jacket
D	750-196	Brass conduit with triple braided shield and jacket
H	750-192	Stainless steel conduit with single braided shield and jacket
J	750-192	Nickel/iron conduit with single braided shield and jacket



712-387
Legacy MIL-C-24758 (Superseded)
Conduit to Transition or End Fitting Backshell
for Jacketed and/or Shielded Series 75 Metal-Core Conduit

Legacy MIL-C-24758 Conduit-to-transition or end-fitting backshell (Superseded by MIL-PRF-24758A [SH])

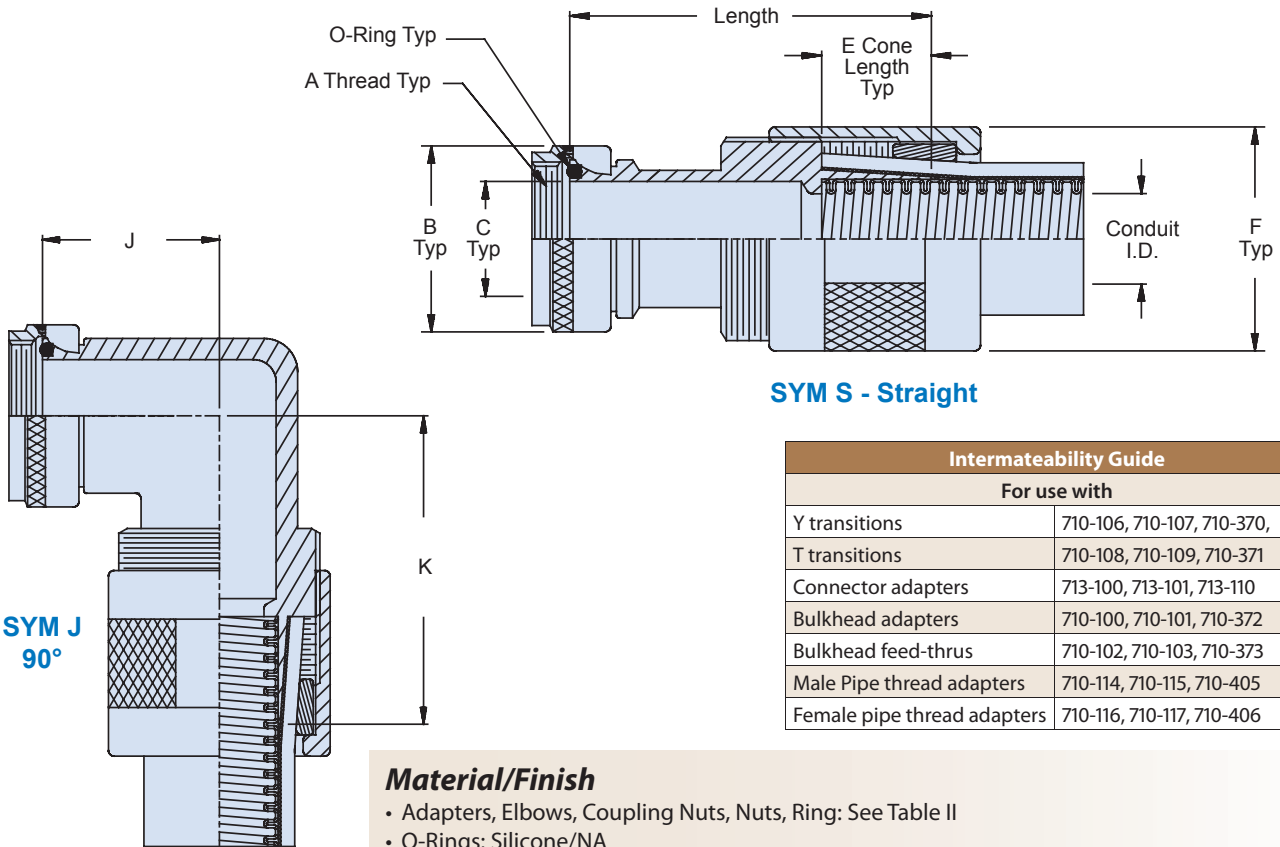


How To Order

Length in 1/2 inch (12.7) increments
 (Example: 6 = 3.0 inches (76.2))
 Minimum Length:
 Dash No. (Table II) **08 to 24** = 1.50 (38.1)
 Dash No. (Table II) **32 to 96** = 2.00 (63.5)

Product Series	Basic No.	Thread Dash No. (Table III)	Length in 1/2 inch (12.7) increments			
712	S	387	M	16	12 - 6	A
Angular Function S = Straight H = 45° J = 90°	Material/Finish (Table II)	Dash No. (Table III and IV)	Conduit Type (Table V)			

D



Intermateability Guide	
For use with	
Y transitions	710-106, 710-107, 710-370,
T transitions	710-108, 710-109, 710-371
Connector adapters	713-100, 713-101, 713-110
Bulkhead adapters	710-100, 710-101, 710-372
Bulkhead feed-thrus	710-102, 710-103, 710-373
Male Pipe thread adapters	710-114, 710-115, 710-405
Female pipe thread adapters	710-116, 710-117, 710-406

- Material/Finish**
- Adapters, Elbows, Coupling Nuts, Nuts, Ring: See Table II
 - O-Rings: Silicone/NA

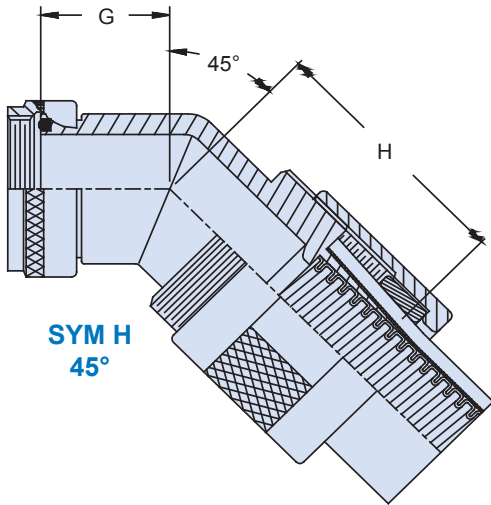
- Notes**
- F dimension is based on type A conduit. Add .125 (3.2) to listed dimensions for each additional shield types B and D

712-387

**Legacy MIL-C-24758 (Superseded)
Conduit to Transition or End Fitting Backshell
for Jacketed and/or Shielded Series 75 Metal-Core Conduit**



Series 75
Metal-Core Conduit



Dash No.	A Thread Class 2B	B Dia Max	C Dia
08	1/2 - 20 UNF	.640 (16.3)	.250 (6.4)
12	5/8 - 24 UNEF	.760 (19.3)	.375 (9.5)
16	3/4 - 20 UNEF	.890 (22.6)	.500 (12.7)
20	7/8 - 20 UNEF	1.024 (26.0)	.625 (15.9)
24	1 - 20 UNEF	1.152 (29.3)	.750 (19.1)
32	1 5/16 - 18 UNEF	1.488 (37.8)	1.000 (25.4)
40	1 1/2 - 18 UNEF	1.676 (42.6)	1.250 (31.8)
48	1 3/4 - 18 UNS	1.960 (49.8)	1.500 (38.1)
56	2 - 18 UNS	2.210 (56.1)	1.750 (44.5)
64	2 1/4 - 16 UN	2.460 (62.5)	2.000 (50.8)
80	2 3/4 - 16 UN	2.930 (74.4)	2.500 (63.5)
96	3 1/4 - 16 UN	3.450 (87.6)	3.000 (76.2)

Dash No.	Conduit I.D.	E	F Dia Max	G Max	H Max	J Max	K Max
08	.250 (6.40)	.75 (19.1)	1.16 (29.5)	.624 (15.8)	1.700 (43.2)	.750 (19.1)	1.810 (46.0)
12	.375 (9.50)	.75 (19.1)	1.34 (34.0)	.654 (16.6)	1.730 (43.9)	.810 (20.6)	1.870 (47.5)
16	.500 (12.7)	.75 (19.1)	1.46 (37.1)	.688 (17.5)	1.750 (44.5)	.870 (22.1)	1.930 (49.0)
20	.625 (15.9)	.75 (19.1)	1.65 (41.9)	.705 (17.9)	1.780 (45.2)	.920 (23.4)	2.000 (50.8)
24	.750 (19.1)	.75 (19.1)	1.84 (46.7)	.732 (18.6)	1.800 (45.7)	.980 (24.9)	2.060 (52.3)
32	1.000 (25.4)	1.00 (25.4)	2.02 (51.3)	.773 (19.6)	2.020 (51.3)	1.080 (27.4)	2.390 (60.7)
40	1.250 (31.8)	1.00 (25.4)	2.34 (59.4)	.823 (20.9)	2.090 (53.1)	1.200 (30.5)	2.540 (64.5)
48	1.500 (38.1)	1.00 (25.4)	2.72 (69.0)	1.041 (26.4)	2.360 (59.9)	1.480 (37.6)	2.870 (72.9)
56	1.750 (44.5)	1.00 (25.4)	2.96 (75.2)	1.062 (27.0)	2.410 (61.2)	1.550 (39.4)	2.960 (75.2)
64	2.000 (50.8)	1.00 (25.4)	3.22 (81.8)	1.092 (27.7)	2.450 (62.2)	1.610 (40.9)	3.070 (78.0)
80	2.500 (63.5)	1.00 (25.4)	3.86 (98.0)	1.190 (30.2)	2.550 (64.8)	1.860 (47.2)	3.320 (84.3)
96	3.000 (76.2)	1.00 (25.4)	4.38 (111.3)	1.250 (31.8)	2.610 (66.3)	1.990 (50.5)	3.450 (87.6)

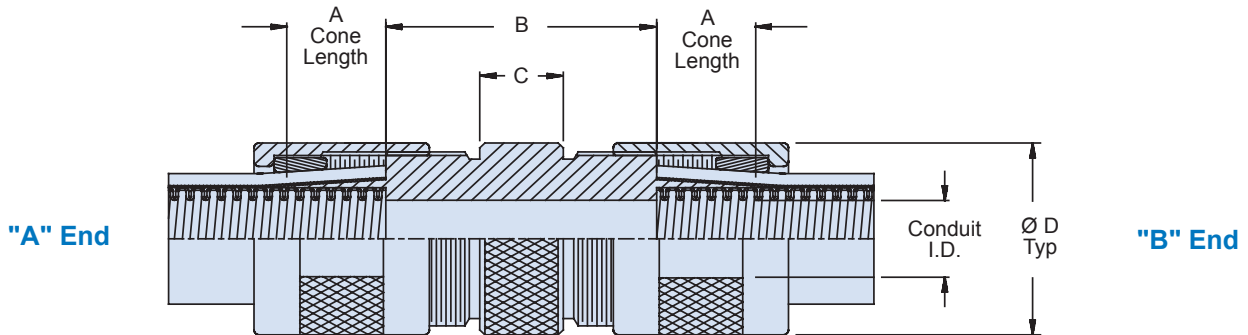
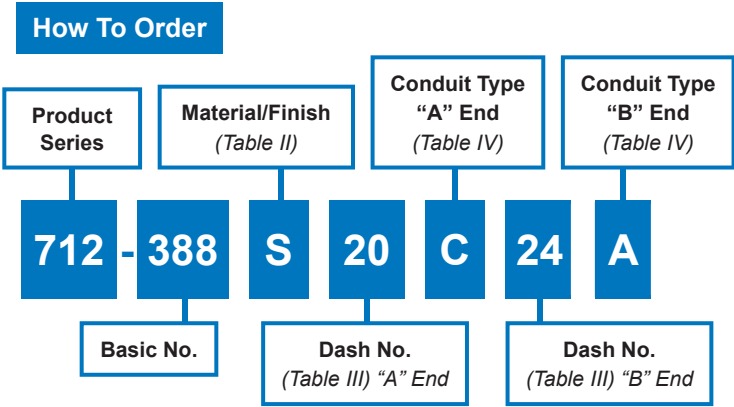
Symbol	Material	Finish
A	Aluminum Alloy, 6061	Cadmium, Olive Drab, per QQ-P-416 over Electroless Nickel per ASTM B733-90 and MIL-C-26074, 500 Hour Salt Spray
B	Brass, ASTM B16	
C	Corrosion Resistant Steel	Passivate per QQ-P-35
M	Aluminum Alloy, 6061	Electroless Nickel per ASTM B733-90 and MIL-C-26074
NC	Aluminum Alloy, 6061	Zinc Cobalt, Olive Drab
S	Carbon Steel, B1113	Cadmium, Olive Drab, per QQ-P-416, over Electroless Nickel per ASTM B733-90 and MIL-C-26074, 500 Hour Salt Spray

Conduit Type	Part Number	Configuration
A	750-192	Brass conduit with single braided shield and jacket
B	750-194	Brass conduit with double braided shield and jacket
D	750-196	Brass conduit with triple braided shield and jacket
H	750-192	Stainless steel conduit with single braided shield and jacket
J	750-192	Nickel/iron conduit with single braided shield and jacket



712-388
Legacy MIL-C-24758 (Superseded)
Environmental EMI/RFI Splice Fitting
for Series 75 Metal-Core Conduit

Legacy MIL-C-24758 user-installable splice kit (Superseded by MIL-PRF-24758A [SH])



Material/Finish

- Adapter, Nuts, Ring: See Table II

Specifications

- F dimensions are based on type A construction. Add .125 (3.2) to listed dimensions for additional shield types B or D.

712-388
Legacy MIL-C-24758 (Superseded)
Environmental EMI/RFI Splice Fitting
for Series 75 Metal-Core Conduit



Series 75
Metal-Core Conduit

Table III: Dash No./Dimensions						
Dash No	Conduit I.D.	A	B	C	Ø D Max (Note 2)	
08	.250 (6.4)	.75 (19.1)	1.78 (45.2)	.50 (12.7)	1.16 (29.5)	
12	.375 (9.5)	.75 (19.1)	1.78 (45.2)	.50 (12.7)	1.28 (32.5)	
16	.500 (12.7)	.75 (19.1)	1.84 (46.7)	.56 (14.2)	1.40 (35.6)	
20	.625 (15.9)	.75 (19.1)	1.84 (46.7)	.56 (14.2)	1.59 (40.4)	
24	.750 (19.1)	.75 (19.1)	1.90 (48.3)	.62 (15.7)	1.78 (45.2)	
32	1.000 (25.4)	.75 (19.1)	1.90 (48.3)	.62 (15.7)	1.96 (49.8)	
40	1.250 (31.8)	1.00 (25.4)	1.96 (49.8)	.68 (17.3)	2.28 (57.9)	
48	1.500 (38.1)	1.00 (25.4)	1.96 (49.8)	.68 (17.3)	2.66 (67.6)	
56	1.750 (44.5)	1.00 (25.4)	1.96 (49.8)	.75 (19.1)	2.96 (75.2)	
64	2.000 (50.8)	1.00 (25.4)	2.03 (51.6)	.75 (19.1)	3.16 (80.3)	
80	2.500 (63.5)	1.00 (25.4)	2.03 (51.6)	.75 (19.1)	3.86 (98.0)	
96	3.000 (76.2)	1.00 (25.4)	2.03 (51.6)	.75 (19.1)	4.38 (111.3)	

Table II: Finish		
Symbol	Material	Finish
A	Aluminum Alloy, 6061	Cadmium, Olive Drab, per QQ-P-416 over Electroless Nickel per ASTM B733-90 and MIL-C-26074, 500 Hour Salt Spray
B	Brass, ASTM B16	
C	Corrosion Resistant Steel	Passivate per QQ-P-35
M	Aluminum Alloy, 6061	Electroless Nickel per ASTM B733-90 and MIL-C-26074
NC	Aluminum Alloy, 6061	Zinc Cobalt, Olive Drab
S	Carbon Steel, B1113	Cadmium, Olive Drab, per QQ-P-416, over Electroless Nickel per ASTM B733-90 and MIL-C-26074, 500 Hour Salt Spray

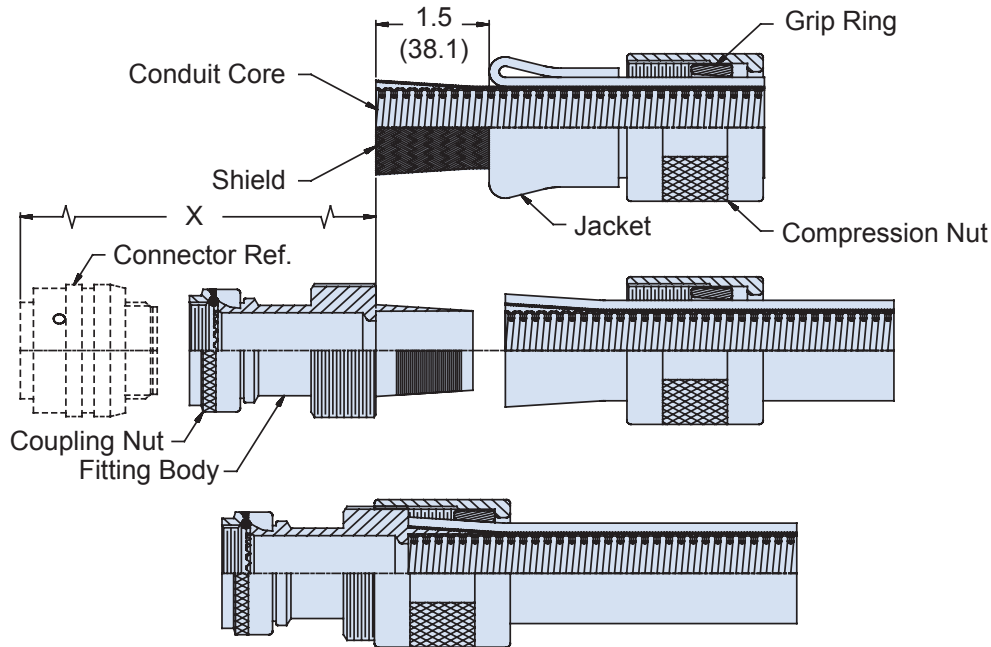
Table V: Conduit Type		
Conduit Type	Part Number	Configuration
A	750-192	Brass conduit with single braided shield and jacket
B	750-194	Brass conduit with double braided shield and jacket
D	750-196	Brass conduit with triple braided shield and jacket
H	750-192	Stainless steel conduit with single braided shield and jacket
J	750-192	Nickel/iron conduit with single braided shield and jacket

D



Installation Procedures for Legacy MIL-C-24758 System (712-188, 712-386, 712-387 & 712-388)

Legacy MIL-C-24758 System Fittings



D

Pre-assembly Preparation

1. Determine overall conduit assembly length required from connector face to connector face. From this dimension, establish conductor length needed for connector termination and add two inches.
2. Temporarily assemble connector to fitting and hand tighten. Establish and deduct the "X" dimension(s) from the overall assembly length in Step 1.
3. Disassemble fitting from connector. Prepare conduit and assemble to fitting per instructions below.

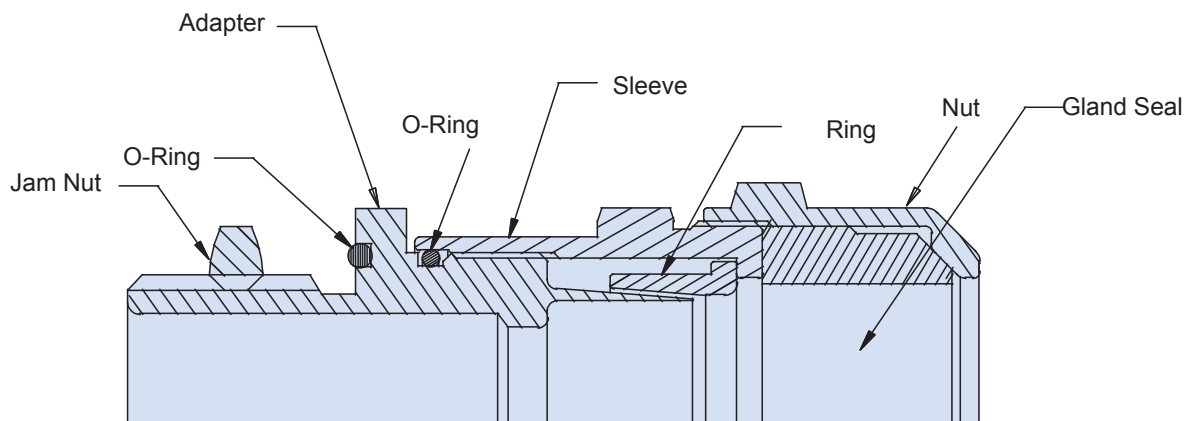
Fitting/Conduit Assembly

1. Cut conduit to length per pre-assembly preparation step 2 using an abrasive disk or an equivalent. Ends of conduit must be perpendicular to the bore to assure proper termination.
2. Slide compression nut and grip ring onto conduit.
3. Fold jacket back approximately 1.5 inches (38.1 mm), as shown in figure 1. Silicone grease or other lubricant may be used to aid this process.
4. Deburr and remove all sharp edges on inside diameter, face and outside diameter of conduit core.

5. Flare shield out from conduit to fit over serrated cone of fitting. Slide conduit core into bore in fitting and bottom on shoulder at "X" dimension. Shield should be flush to external shoulder of fitting. Trim loose strands if required.
6. Fold jacket forward. Jacket should be flush with shoulder at "X" dimension.
7. Bring grip ring and compression nut forward, thread to fitting body and torque to recommended value in Table I. Silicone grease or other lubricant may be used to aid this process. For stainless-steel fitting, use an "anti-sieze" lubricant on threads to prevent galling and obtain correct torque values.

Conduit Dash No.	Torque Values	
	Fitting Torque Values (Inch Pounds)	Newton/Meters
8	140	16
12, 16	150	17
20, 24, 32	175	20
40, 48, 56	190	21
64, 80, 96	210	24

Heavy-Duty Environmental System

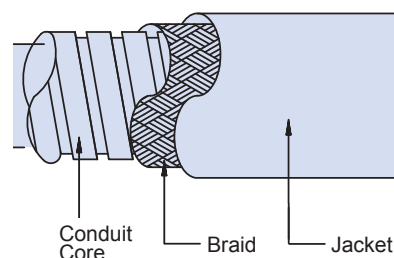


Tools:

- Tin snips or scissors capable of trimming conduit and braid
- Hacksaw, chop saw or tubing cutter
- Anti Seize Compound such as NSN 8030-01 450 4009 Tef Gel
- Razorblade
- Adjustable wrench (Rigid E110 or similar)
- Silicone O-Ring lube
- Vice or second wrench
- Needle-nose pliers

Preassembly instructions: Disassemble fitting and ensure all thread engagements are smooth and burr free. Lubricate gland and O-Ring with silicone lube.

1. Measure conduit to desired length (better long than short) and cut to length.
2. Using snips, trim end of conduit, braid and jacket. Ensure all bent edges are removed or smoothed.
3. Slide sleeve, nut and gland seal up conduit (out of way).
4. Using ring as a guide, cut jacket back 1/4" (6.35mm) wider than ring.
5. Slide ring over braid to edge of jacket.
6. Insert cone portion of adapter under braid and ring over conduit core. Apply anti seize to threads.
7. Slide sleeve down conduit and engage threads on adapter. Tighten sleeve until it bottoms out against adapter. O-Ring should not be visible.
8. Slide gland seal and nut down to engage thread on sleeve. Tighten until only a small portion of blue gland 1/32" (.793mm) seal is visible above nut.



D

Glenair 600 series backshell assembly tools are recommended for assembly and installation. A catalog is available on request, or may be accessed on the internet at www.glenair.com.

SERIES 72, 74 & 75

ADAPTERS AND TRANSITIONS

**FOR METAL-CORE AND POLYMER-CORE
CONVOLUTED CONDUIT SYSTEMS**



Glenair offers a complete wire-routing solution with conduit adapters and multi-branch transitions. Adapt conduit to popular commercial and Mil-spec connector styles like D-Subminiature, MIL-DTL-83513 Micro, and Series 79 Micro-Crimp with a full range of adapters that feature MIL-DTL-38999 Series III interface teeth, EMI/RFI gaskets, entry angle and mounting options. Solve difficult wire-routing issues with Y, T, Double Y and Double T transitions.



Connector Adapters and Transitions

Glenair MIL-DTL-38999 Series III (H code) Adapters and Transitions provide a universal solution to conduit routing and connector accommodation in multi-branch conduit assemblies. The teeth create a locking interface when combined with a self-locking backshell or fitting. These adapters and transitions may be used with any of the do-it-yourself adapters and fittings in this book that have MIL-DTL-38999 Series III (H code) threads and teeth, and provide environmental protection when combined with an environmental H code backshell or fitting.

Other Adapters and Transitions provide a quick and easy solution for conduit routing when a locking interface is not needed. This system of adapters and transitions has the advantage of being available in much larger shell sizes for use with conduit up to 2¾ inches. They provide an environmental interface when used with any of the do-it-yourself transition fittings in this book.



Transitions with MIL-DTL-38999 Series III Threads and Interlocking Teeth pages E-22 – E-25



Circular Connector Adapter page E-30 – E-31



Transitions for use with Glenair transition fittings, pages E-32 – E-33



Pipe Thread Adapter, page E-28

Part No.	Description	Page No.
Circular Adapters with MIL-DTL-38999 Series III Interface Teeth		
713-361	Circular Connector Adapter/Extender	E-2
713-362	Bulkhead Feed-Thru Adapter	E-4
713-363	Bulkhead Flange Mount Adapter	E-6
Rectangular Connector Adapters with MIL-DTL-38999 Series III Interface Teeth		
713-364	M24308 D-Subminiature Adapter	E-8
713-365	M83513 Micro-D Adapter	E-10
713-366	Series 79 Micro-Crimp Adapter	E-12
713-382	Series 28 HiPer-D Adapter	E-14
Other Specialized Connector Adapters		
713-368	Band-In-A-Can Adapter	E-16
713M*369	Mighty Mouse Adapter/Extender	E-18
713-370	Pipe Thread Adapter	E-20
Transitions with MIL-DTL-38999 Series III Interface Teeth		
713-351	Y Transition	E-22
713-352	Double-Y Transition	E-23
713-353	T Transition	E-24
713-354	Double-T Transition	E-25
Other Adapters and Transitions		
710-100	Bulkhead Feed-Thru	E-26
710-114 – 710-117, 710-405 – 710-406	Male and Female Pipe Thread Adapters	E-28
713-100	Circular Connector Adapter	E-30
710-106 – 710-109, 710-370 – 710-371	Y and T Transitions	E-32
710-077	Multibranch Transitions	E-33
687-051	Split Bushing with Snap Assembly for Series 74 Tubing	E-34
G70685	Split Bushing with Snap Assembly for Series 72 Tubing	E-35





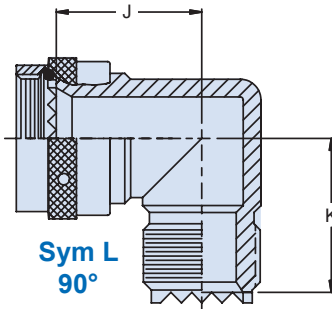
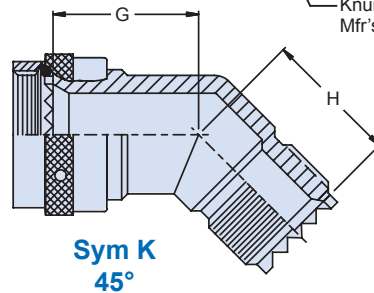
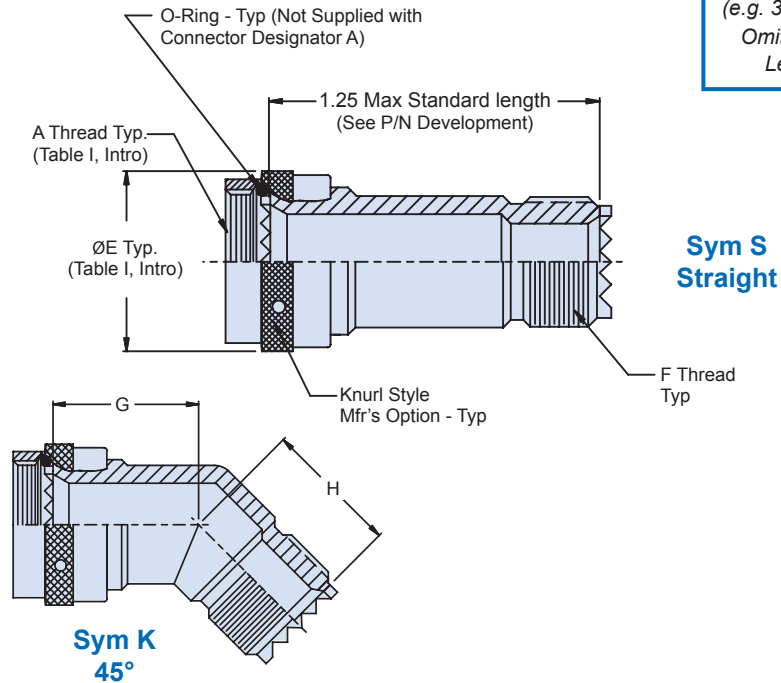
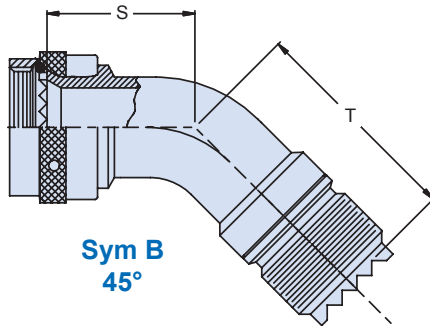
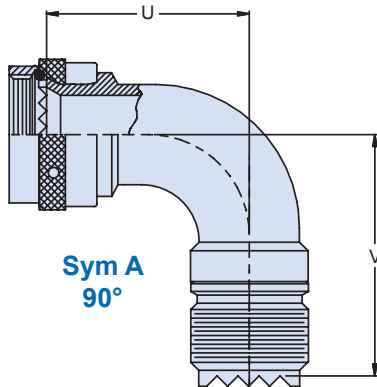
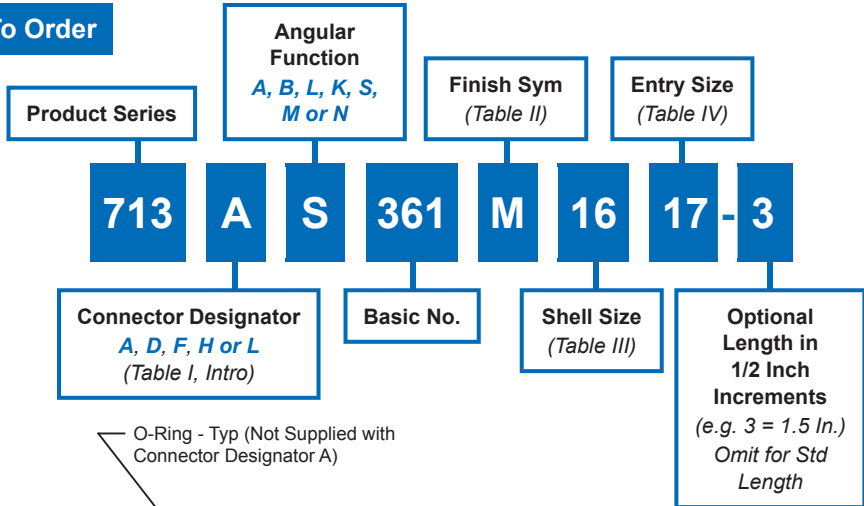
713-361

Metal Self-Locking Environmental Circular Connector Adapter/Extender Straight, 45°, 90°

Circular connector adapter/extender, self-locking with environmental O-Ring and MIL-DTL-38999 Series III (H code) accessory thread and interface teeth



How To Order



Material and Finish

- Adapters, Elbows & Coupling Nuts: See Table II
- Anti-decoupling Device: Corrosion resistant material/N.A.
- O-Ring: Silicone/N.A.

Notes

- Minimum optional length is 1.5 inches. Note: Length applies to Sym S, Straight only.
- MIL-DTL-38999, Series III accessory interface (Glenair Code H). Entry size corresponds to MIL-DTL-38999, Series III shell size.

713-361 Metal Self-Locking Environmental Circular Connector Adapter/Extender Straight, 45°, 90°



Table III: Shell Size/Dimensions

Shell Size			G Max	H Max	J Max	K Max	L Max	M Max	N Max	P Max	S Max	T Max	U Max	V Max
A	D, F, L	H												
08	08	09	.830 (21.1)	.890 (22.6)	.940 (23.9)	1.00 (25.4)	.721 (18.3)	1.080 (27.4)	.878 (22.3)	1.230 (31.2)	.600 (15.2)	1.460 (37.1)	.680 (17.3)	1.630 (41.4)
10	10	11	.860 (21.8)	.920 (23.4)	1.010 (25.7)	1.07 (27.2)	.747 (19.0)	1.080 (27.4)	.940 (23.9)	1.270 (32.3)	.630 (16.0)	1.650 (41.9)	.770 (19.6)	1.730 (43.9)
12	12	13	.882 (22.4)	.942 (23.9)	1.070 (27.2)	1.13 (28.7)	.747 (19.0)	1.080 (27.4)	.940 (23.9)	1.270 (32.3)	.660 (16.8)	1.700 (43.2)	.800 (20.3)	1.730 (43.9)
14	14	15	.900 (22.9)	.970 (24.6)	1.130 (28.7)	1.19 (30.2)	.799 (20.3)	1.110 (28.2)	1.003 (25.5)	1.310 (33.3)	.690 (17.5)	1.770 (45.0)	.880 (22.4)	1.770 (45.0)
16	16	17	.930 (23.6)	.990 (25.1)	1.190 (30.2)	1.25 (31.8)	.825 (21.0)	1.110 (28.2)	1.065 (27.1)	1.350 (34.3)	.820 (20.8)	1.850 (47.0)	1.060 (29.9)	1.830 (46.5)
18	18	19	.950 (24.1)	1.010 (25.7)	1.240 (31.5)	1.30 (33.0)	.877 (22.3)	1.140 (29.0)	1.128 (28.7)	1.390 (35.3)	.970 (24.6)	2.040 (51.8)	1.150 (29.2)	2.010 (51.1)
20	20	21	.980 (24.9)	1.040 (26.4)	1.310 (33.3)	1.37 (34.8)	.903 (22.9)	1.160 (29.5)	1.190 (30.2)	1.440 (36.6)	.970 (24.6)	2.080 (52.8)	1.150 (29.2)	2.050 (52.1)
22	22	23	1.000 (25.4)	1.060 (26.9)	1.360 (34.5)	1.42 (36.1)	.928 (23.6)	1.200 (30.5)	1.253 (31.8)	1.530 (38.9)	1.000 (25.4)	2.220 (56.4)	1.300 (33.0)	2.160 (54.9)
24	24	25	1.030 (26.2)	1.090 (27.7)	1.540 (39.1)	1.49 (37.8)	.954 (24.2)	1.250 (31.8)	1.315 (33.4)	1.610 (40.9)	1.000 (25.4)	2.280 (57.9)	1.300 (33.0)	2.210 (56.1)
28	-	-	1.480 (37.6)	1.140 (29.0)	1.670 (42.4)	1.60 (40.6)	1.006 (25.6)	1.350 (34.3)	1.628 (41.4)	1.970 (50.0)	TBD	TBD	1.400 (35.6)	2.430 (61.7)
32	-	-	1.610 (40.9)	1.180 (30.0)	1.780 (45.2)	1.69 (42.9)	1.058 (26.9)	1.450 (36.8)	1.754 (44.6)	2.140 (54.4)	TBD	TBD	1.750 (44.5)	2.720 (69.1)

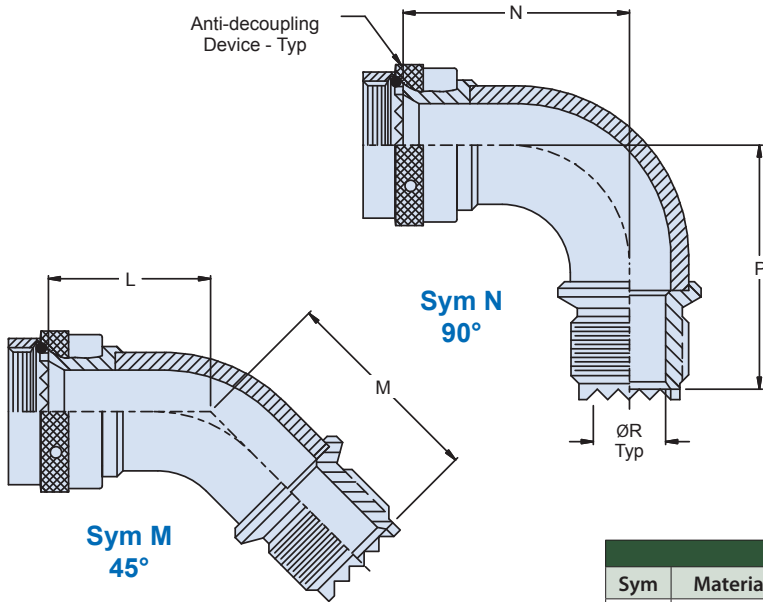


Table IV: Entry Size/Conduit Dimensions

Entry Size	Conduit Size (Ref)	F Thread ISO Metric	Ø R
09	06, 09	M12 X 1.0-6g	.281 (7.14)
11	10, 12	M15 X 1.0-6g	.397 (10.1)
13	14, 16	M18 X 1.0-6g	.511 (13.0)
15	20	M22 X 1.0-6g	.636 (16.2)
17	24	M25 X 1.0-6g	.761 (19.3)
19	28	M28 X 1.0-6g	.875 (22.2)
21	32	M31 X 1.0-6g	1.000 (25.4)
23	36	M34 X 1.0-6g	1.125 (28.6)
25	40	M37 X 1.0-6g	1.250 (31.8)
33	48	M45 X 1.5-6g	1.530 (38.9)
37	56	M50 X 1.5-6g	1.750 (44.5)

Table II: Material/Finish

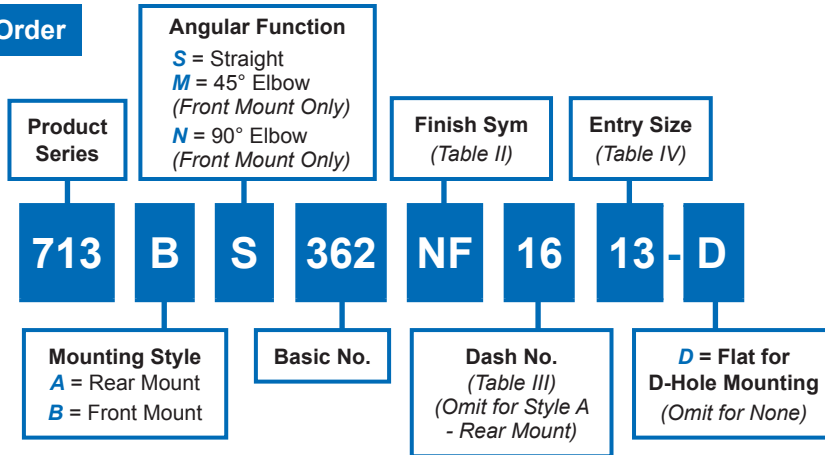
Sym	Material	Finish Description	Component
B	Aluminum	Cadmium, Olive Drab	
C		Anodize, Black (Non-Conductive)	
M		Electroless Nickel	
MT		Nickel-PTFE	
NF		Cadmium/Olive Drab Over Electroless Nickel	
UCR		Zinc Cobalt/Black	
ZN		Zinc Nickel/Olive Drab Over Electroless Nickel	
ZNU		Zinc Nickel/Black Over Electroless Nickel	
Z1	300 Series SST	Passivate	
ZM		Electroless Nickel	Adapter, Elbow
		Passivate	Coupling Nut
ZMT		Nickel - PTFE	Adapter, Elbow
		Passivate	Coupling Nut
ZW		Cadmium O.D. Over Electroless Nickel	Adapter, Elbow
	Cadmium Olive Drab	Coupling Nut	



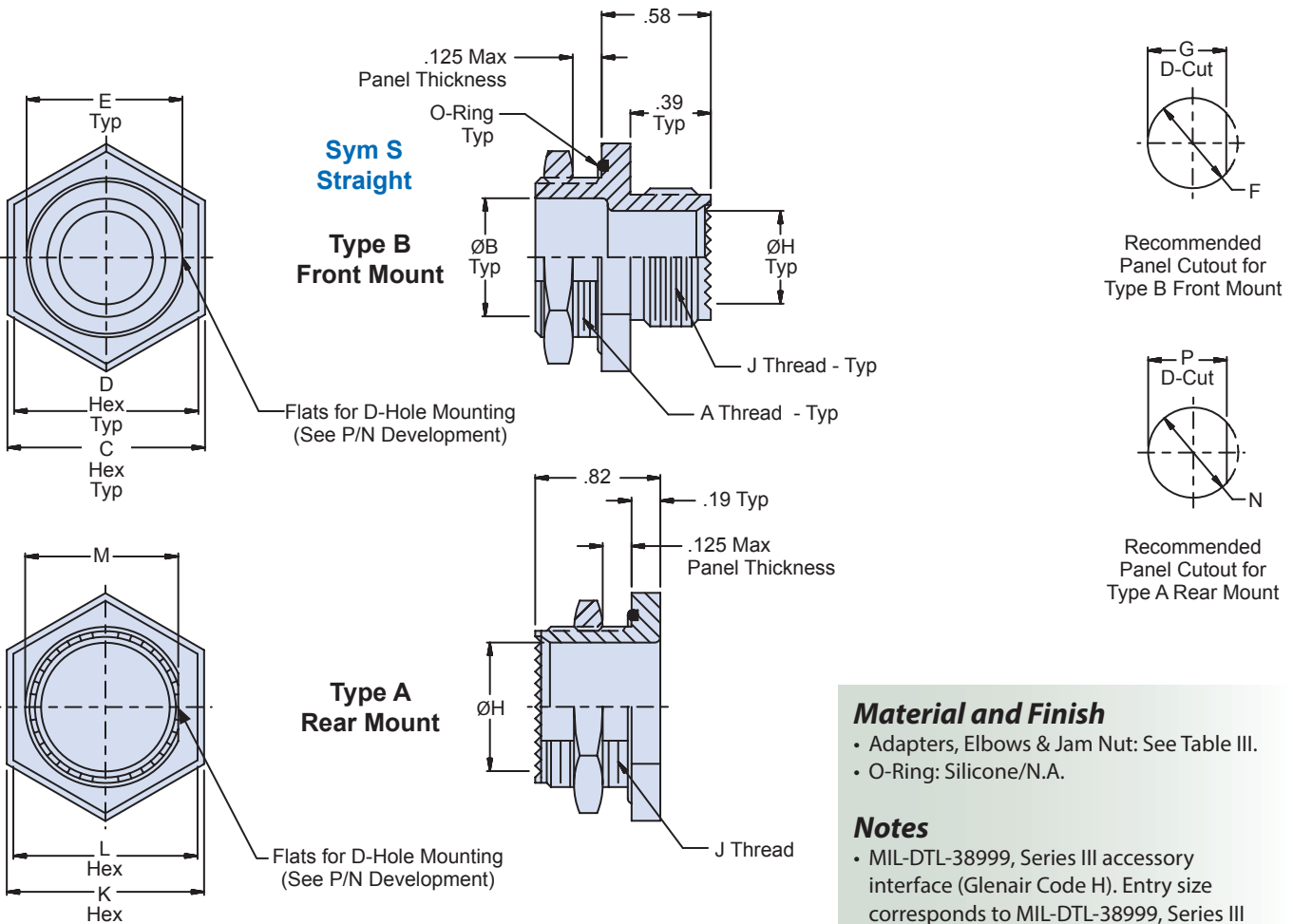
713-362 Environmental Bulkhead Adapter

Bulkhead feed-thru adapter with environmental O-Ring and MIL-DTL-38999 Series III (H code) accessory thread and interface teeth

How To Order



E



Material and Finish

- Adapters, Elbows & Jam Nut: See Table III.
- O-Ring: Silicone/N.A.

Notes

- MIL-DTL-38999, Series III accessory interface (Glenair Code H). Entry size corresponds to MIL-DTL-38999, Series III shell size.

713-362 Environmental Bulkhead Adapter



Table III: Dash No./Dimensions

Dash No	A Thread Class 2A	Ø B	C Hex	D Hex	E Flat +.000 -.015	Ø F +.015 -.000	G +.010 -.000	Max Entry Size
06	7/16 - 28 UNEF	.188 (4.78)	.688 (17.5)	.625 (15.9)	.375 (9.53)	.443 (11.3)	.385 (9.80)	11
08	1/2 - 20 UNF	.250 (6.35)	.750 (19.1)	.688 (17.5)	.438 (11.1)	.505 (12.8)	.448 (11.4)	13
09	9/16 - 24 UNEF	.281 (7.14)	.812 (20.6)	.750 (19.1)	.500 (12.7)	.568 (14.4)	.510 (13.0)	13
10	9/16 - 24 UNEF	.313 (8.00)	.812 (20.6)	.750 (19.1)	.500 (12.7)	.568 (14.4)	.510 (13.0)	13
12	5/8 - 24 UNEF	.375 (9.53)	.875 (22.2)	.812 (20.6)	.563 (14.3)	.630 (16.0)	.573 (14.6)	15
14	11/16 - 24 UNEF	.438 (11.1)	.938 (23.8)	.875 (22.2)	.625 (15.9)	.693 (17.6)	.635 (16.1)	15
16	3/4 - 20 UNF	.500 (12.7)	1.000 (25.4)	.938 (23.8)	.688 (17.5)	.755 (19.2)	.698 (17.7)	17
20	7/8 - 20 UNEF	.625 (15.9)	1.125 (28.6)	1.062 (27.0)	.812 (20.6)	.880 (22.4)	.822 (21.0)	19
24	1 - 20 UNEF	.750 (19.1)	1.250 (31.8)	1.188 (30.2)	.938 (23.8)	1.005 (25.5)	.948 (24.1)	21
28	1 3/16 - 18 UNEF	.875 (22.2)	1.438 (36.5)	1.375 (34.9)	1.125 (28.6)	1.193 (30.3)	1.135 (28.8)	23
32	1 5/16 - 18 UNEF	1.000 (25.4)	1.562 (39.7)	1.562 (39.7)	1.250 (31.8)	1.318 (33.5)	1.260 (32.0)	25
40	1 1/2 - 18 UNEF	1.250 (31.8)	1.812 (46.0)	1.750 (44.5)	1.438 (36.5)	1.505 (38.2)	1.448 (36.8)	33
48	1 3/4 - 18 UNS	1.500 (38.1)	2.062 (52.4)	2.000 (50.8)	1.688 (42.9)	1.755 (44.6)	1.698 (43.1)	37
56	2 - 18 UNS	1.750 (44.5)	2.312 (58.7)	2.250 (57.2)	1.938 (49.2)	2.005 (50.9)	1.948 (49.5)	37
64	2 1/4 - 16 UN	2.000 (50.8)	2.562 (65.1)	2.500 (63.5)	2.188 (55.6)	2.255 (57.3)	2.198 (55.8)	37

Table IV: Entry Size/Dimensions

Entry Size	Conduit Size (Ref)	Ø H	J Thread ISO Metric	K Hex	L Hex	M +.000 -.015	Ø N +.015 -.000	P +.010 -.000	Q Max	R Max	S Max	T Max
09	06, 09	.281 (7.14)	M12 X 1.0-6g	.750 (19.1)	.688 (17.5)	.422 (10.7)	.477 (12.1)	.432 (11.0)	.53 (13.5)	.73 (18.5)	.75 (19.1)	.95 (24.1)
11	10, 12	.397 (10.1)	M15 X 1.0-6g	.875 (22.2)	.812 (20.6)	.541 (13.7)	.596 (15.1)	.551 (14.0)	.53 (13.5)	.73 (18.5)	.75 (19.1)	.95 (24.1)
13	14, 16	.511 (13.0)	M18 X 1.0-6g	1.000 (25.4)	.938 (23.8)	.659 (16.7)	.714 (18.1)	.669 (16.9)	.55 (14.0)	.76 (19.3)	.81 (20.6)	1.01 (25.7)
15	20	.636 (16.9)	M22 X 1.0-6g	1.125 (28.6)	1.062 (27.0)	.816 (20.7)	.871 (22.1)	.826 (21.0)	.61 (15.5)	.81 (20.6)	.93 (23.6)	1.14 (29.0)
17	24	.761 (19.3)	M25 X 1.0-6g	1.250 (31.8)	1.188 (30.2)	.934 (23.7)	.989 (25.1)	.944 (24.0)	.63 (16.0)	.83 (21.1)	1.00 (25.4)	1.20 (30.5)
19	28	.875 (22.2)	M28 X 1.0-6g	1.375 (34.9)	1.312 (33.3)	1.052 (26.7)	1.107 (28.1)	1.062 (27.0)	.68 (17.3)	.89 (22.6)	1.12 (28.4)	1.32 (33.5)
21	32	1.000 (25.4)	M31 X 1.0-6g	1.500 (38.1)	1.438 (36.5)	1.170 (29.7)	1.225 (31.1)	1.180 (30.0)	.71 (18.0)	.91 (23.1)	1.18 (30.0)	1.39 (35.3)
23	36	1.125 (28.6)	M34 X 1.0-6g	1.625 (41.3)	1.625 (41.3)	1.289 (32.7)	1.344 (34.1)	1.299 (33.0)	.73 (18.5)	.94 (23.9)	1.25 (31.8)	1.45 (36.8)
25	40	1.250 (31.8)	M37 X 1.0-6g	1.750 (44.5)	1.750 (44.5)	1.407 (35.7)	1.462 (37.1)	1.417 (36.0)	.76 (19.3)	.96 (24.4)	1.31 (33.3)	1.51 (38.4)
33	48	1.530 (38.9)	M45 X 1.5-6g	2.125 (54.0)	2.000 (50.8)	1.702 (43.2)	1.777 (45.1)	1.712 (43.5)	.81 (20.6)	1.01 (25.7)	1.43 (36.3)	1.64 (41.7)
37	56	1.750 (44.5)	M50 X 1.5-6g	2.250 (57.2)	2.250 (57.2)	1.899 (48.2)	1.974 (50.1)	1.909 (48.5)	.86 (21.8)	1.07 (27.2)	1.56 (39.6)	1.76 (44.7)

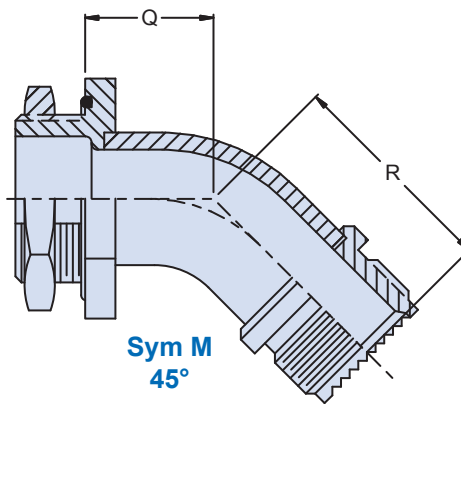
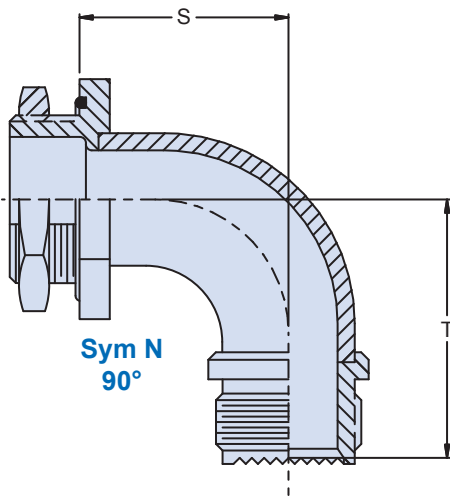
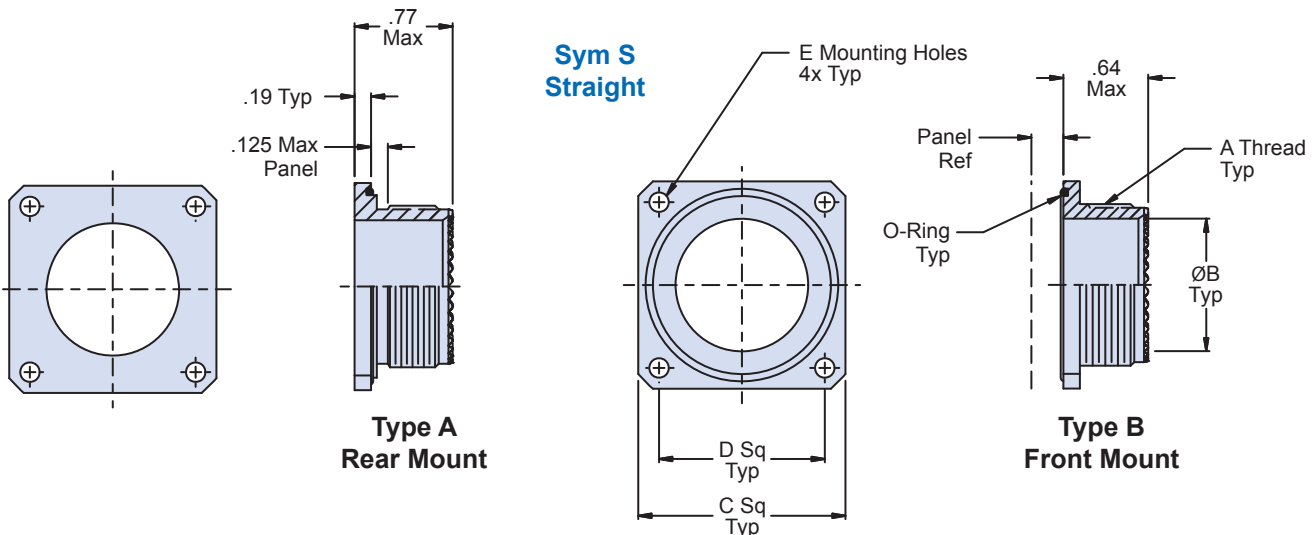
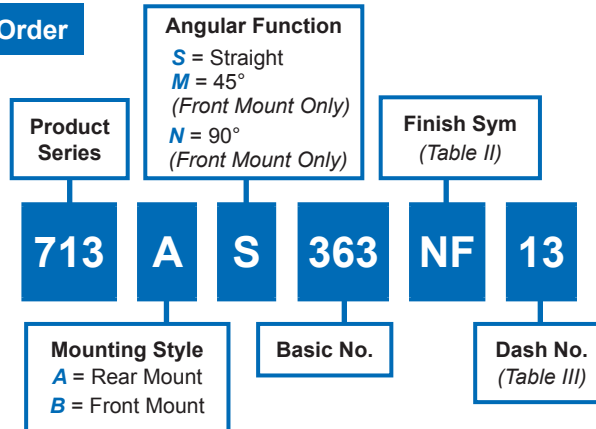


Table II: Finish

Sym	Material	Finish Description	
B	Aluminum	Cadmium, Olive Drab	
C		Anodize, Black	
M		Electroless Nickel	
MT		Nickel-PTFE	
NF		Cadmium/O.D. Over Electroless Nickel	
UCR		Zinc Cobalt/Black	
ZN		Zinc Nickel/O.D. Over Electroless Nickel	
ZNU		Zinc Nickel/Black Over Electroless Nickel	
Z1		Stainless Steel	Passivate
ZM			Electroless Nickel
ZMT	Nickel-PTFE		
ZW	Cadmium/O.D. Over Electroless Nickel		

Bulkhead flange mount adapter with environmental O-Ring and MIL-DTL-38999 Series III (H code) accessory thread and interface teeth
How To Order

Material and Finish

- Adapters & Elbows : See Table II
- O-Ring: Silicone/N.A.

Notes

- MIL-DTL-38999, Series III accessory interface (Glenair Code H).
- Dash No. corresponds to MIL-DTL-38999, Series III shell size.

713-363

Environmental Bulkhead Flange Mount Adapter Straight, 45°, 90°



Table III: Dash No./Dimensions

Dash No.	Conduit Size (Ref)	A Thread ISO Metric	Ø B		C Dim	D ± .005	Ø E ± .005	Ø F +.015 -0.000	Ø G +.030 -0.000	H Max	J Max	K Max	L Max
09	06, 09	M12 X 1.0-6g	.281	(7.14)	.937 (23.8)	.719 (18.3)	.125 (3.18)	.477 (12.1)	.281 (7.14)	.53 (13.5)	.73 (18.5)	.75 (19.1)	.95 (24.1)
11	10, 12	M15 X 1.0-6g	.397	(10.1)	1.031 (26.2)	.812 (20.6)	.125 (3.18)	.596 (15.1)	.397 (10.1)	.53 (13.5)	.73 (18.5)	.75 (19.1)	.95 (24.1)
13	14, 16	M18 X 1.0-6g	.511	(13.0)	1.125 (28.6)	.906 (23.0)	.125 (3.18)	.714 (18.1)	.511 (13.0)	.55 (14.0)	.76 (19.3)	.81 (20.6)	1.01 (25.7)
15	20	M22 X 1.0-6g	.636	(16.9)	1.250 (31.8)	.969 (24.6)	.125 (3.18)	.871 (22.1)	.636 (16.9)	.61 (15.5)	.81 (20.6)	.93 (23.6)	1.14 (29.0)
17	24	M25 X 1.0-6g	.761	(19.3)	1.343 (34.1)	1.062 (27.0)	.125 (3.18)	.989 (25.1)	.761 (19.3)	.63 (16.0)	.83 (21.1)	1.00 (25.4)	1.20 (30.5)
19	28	M28 X 1.0-6g	.875	(22.2)	1.467 (37.3)	1.156 (29.4)	.125 (3.18)	1.107 (28.1)	.875 (22.2)	.68 (17.3)	.89 (22.6)	1.12 (28.4)	1.32 (33.5)
21	32	M31 X 1.0-6g	1.000	(25.4)	1.562 (39.7)	1.250 (31.8)	.147 (3.18)	1.225 (31.1)	1.000 (25.4)	.71 (18.0)	.91 (23.1)	1.18 (30.0)	1.39 (35.3)
23	36	M34 X 1.0-6g	1.125	(28.7)	1.703 (43.3)	1.375 (34.9)	.147 (3.73)	1.344 (34.1)	1.125 (28.7)	.73 (18.5)	.94 (23.9)	1.25 (31.8)	1.45 (36.8)
25	40	M37 X 1.0-6g	1.250	(31.8)	1.812 (46.0)	1.500 (38.1)	.147 (3.73)	1.462 (37.1)	1.250 (31.8)	.76 (19.3)	.96 (24.4)	1.31 (33.3)	1.51 (38.4)
33	48	M45 X 1.5-6g	1.530	(38.9)	2.250 (57.2)	1.750 (44.5)	.147 (3.73)	1.777 (45.1)	1.530 (38.9)	.81 (20.6)	1.01 (25.7)	1.43 (36.3)	1.64 (41.7)
37	56	M50 X 1.5-6g	1.750	(44.5)	2.500 (63.5)	1.938 (49.2)	.173 (4.39)	1.974 (50.1)	1.750 (44.5)	.86 (21.8)	1.02 (25.9)	1.56 (39.6)	1.76 (44.7)

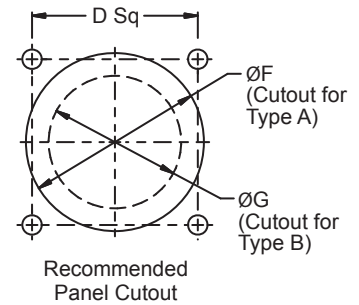
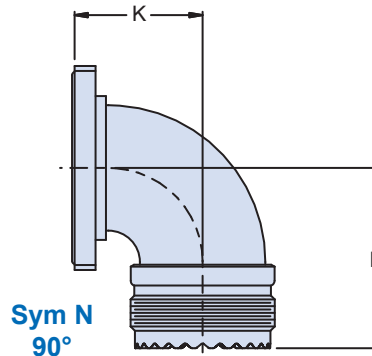
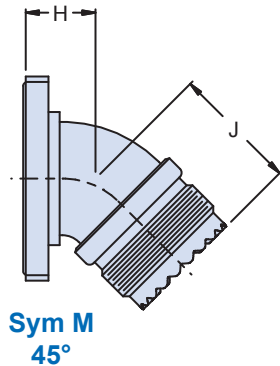
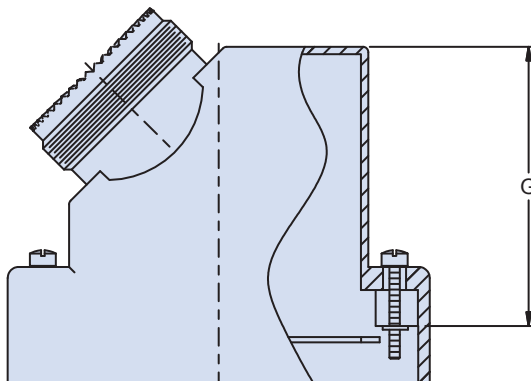
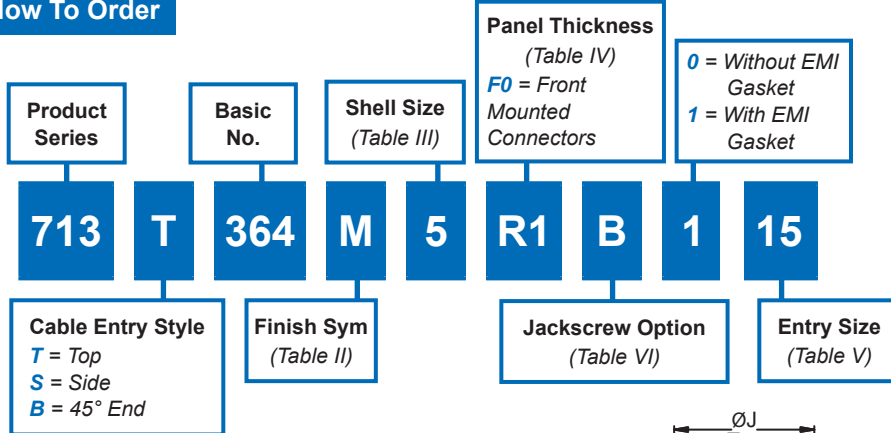


Table II: Finish

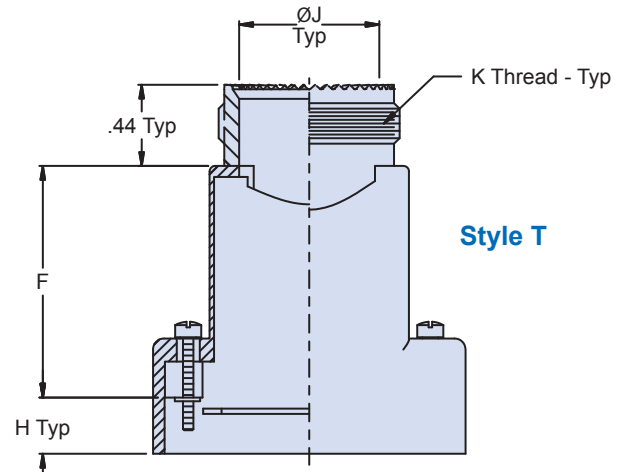
Sym	Material	Finish Description
B	Aluminum	Cadmium, Olive Drab
C		Anodize, Black (Non-Conductive)
M		Electroless Nickel
MT		Nickel-PTFE
NF		Cadmium/Olive Drab Over Electroless Nickel
UCR		Zinc Cobalt/Black
ZN		Zinc Nickel/Olive Drab Over Electroless Nickel
ZNU		Zinc Nickel/Black Over Electroless Nickel
Z1	Stainless Steel	Passivate
ZM		Electroless Nickel
ZMT		Nickel-PTFE
ZW		Cadmium/Olive Drab Over Electroless Nickel

M24308 D-subminiature connector adapter with MIL-DTL-38999 Series III (H code) accessory thread and interface teeth and optional EMI/RFI gasket

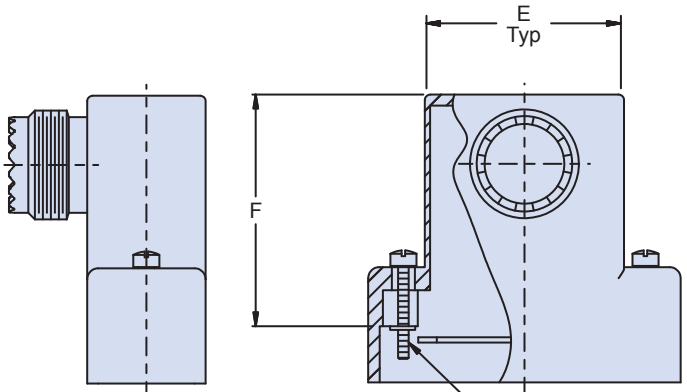
How To Order



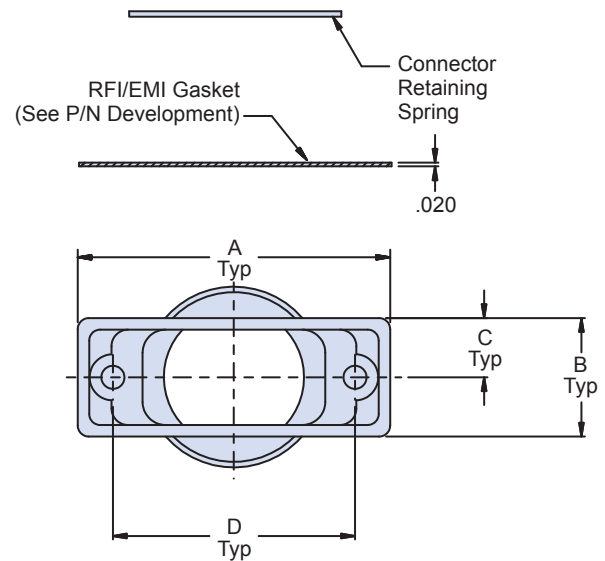
Style B
45°



Style T



Style S



713-364

M24308 D-Subminiature Connector Adapter

Top, Side, 45° Entry



Male Jackscrew Options

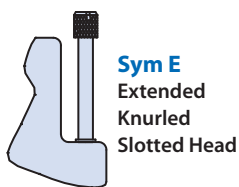


Table III: Shell Size/Dimensions

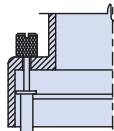
Shell Size	Com'l Shell Size (Ref)	A Max	B Max	C Ref	D ± .005	E Dim	F ± .031	G ± .031	Max Entry
1	E/09	1.393 (35.4)	.624 (15.8)	.312 (7.92)	.984 (25.0)	757 (19.2)	1.03 (26.2)	1.41 (35.8)	13
2	A/15	1.709 (43.4)	.624 (15.8)	.312 (7.92)	1.312 (33.3)	1.088 (27.6)	1.19 (30.2)	1.51 (38.4)	15
3	B/25	2.265 (57.5)	.624 (15.8)	.312 (7.92)	1.852 (47.0)	1.622 (41.2)	1.31 (33.3)	1.59 (40.4)	17
4	C/37	2.900 (73.7)	.624 (15.8)	.312 (7.92)	2.500 (63.5)	2.275 (57.8)	1.31 (33.3)	1.62 (41.1)	17
5	D/50	2.800 (71.1)	.750 (19.1)	.375 (9.53)	2.406 (61.1)	2.175 (55.2)	1.54 (39.1)	1.77 (45.0)	21
6	F/104	2.900 (73.7)	.844 (21.4)	.422 (10.7)	2.500 (63.5)	2.285 (58.0)	1.54 (39.1)	1.78 (45.2)	21

Table II: Material/Finish

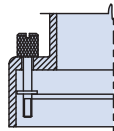
Sym	Material	Finish Description
B	Aluminum	Cadmium, Olive Drab
C		Anodize, Black (Non-Conductive)
M		Electroless Nickel
MT		Nickel-PTFE
NF		Cadmium/Olive Drab Over Electroless Nickel
UCR		Zinc Cobalt/Black
ZN		Zinc Nickel/Olive Drab Over Electroless Nickel
ZNU		Zinc Nickel/Black Over Electroless Nickel
Z1		Passivate
ZM	Stainless Steel	Electroless Nickel
ZMT		Nickel-PTFE
ZW		Cadmium/Olive Drab Over Electroless Nickel

Table IV: Panel Thickness

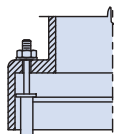
Dash No.	Panel Thickness	H
CC	N/A	.174 (4.41)
F0	N/A	.343 (8.71)
R1	.031 (.790)	.247 (6.27)
R2	.047 (1.19)	.231 (5.87)
R3	.062 (1.57)	.216 (5.49)
R4	.093 (2.36)	.185 (4.70)
R5	.104 (2.64)	.174 (4.42)
R6	.125 (3.20)	.153 (3.89)
R7	.156 (4.00)	.125 (3.20)
R8	.135 (3.43)	.140 (3.60)
R9	.188 (4.80)	.094 (2.39)



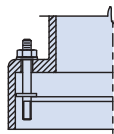
Turnable Female



Turnable Male



Fixed Females



Fixed Males

Table V: Entry Size

Entry Size	Conduit Size (Ref)	Ø J	K Thread ISO Metric
09	06, 09	.281 (7.14)	M12 X 1.0-6g
11	10, 12	.397 (10.1)	M15 X 1.0-6g
13	14, 16	.511 (13.0)	M18 X 1.0-6g
15	20	.636 (16.2)	M22 X 1.0-6g
17	24	.761 (19.3)	M25 X 1.0-6g
19	28	.875 (22.2)	M28 X 1.0-6g
21	32	1.000 (25.4)	M31 X 1.0-6g

Table VI: Jackscrew Options

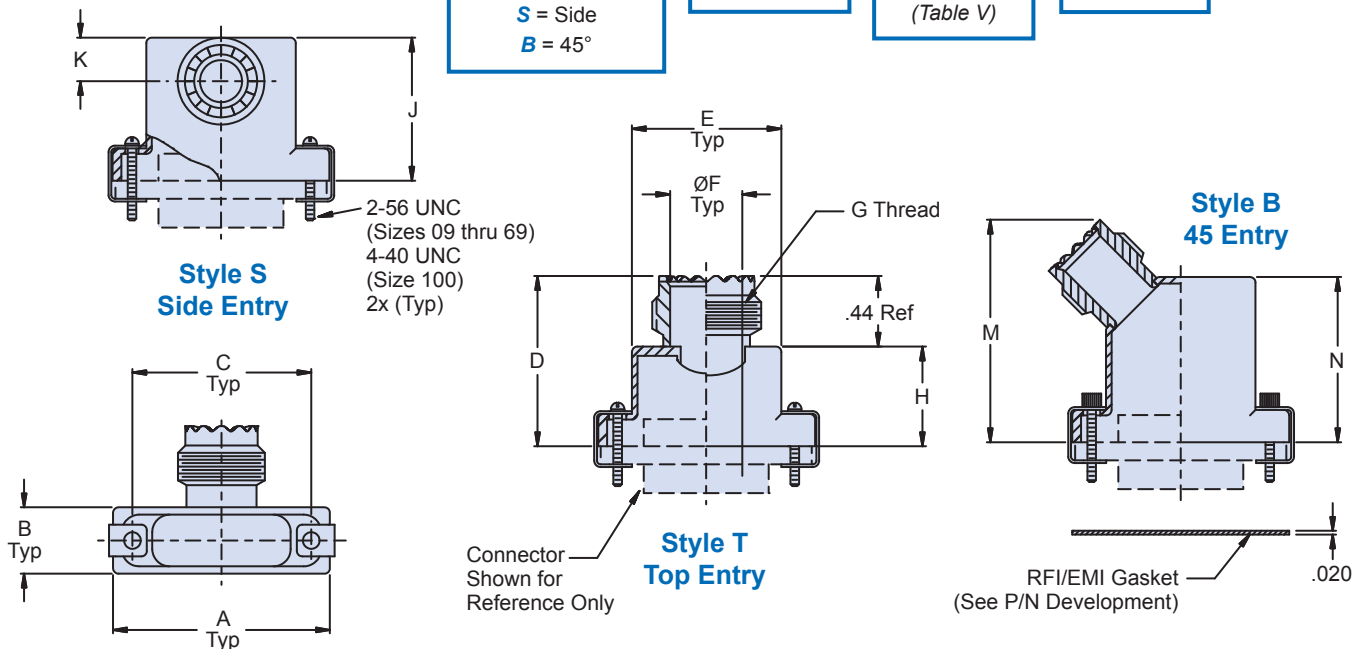
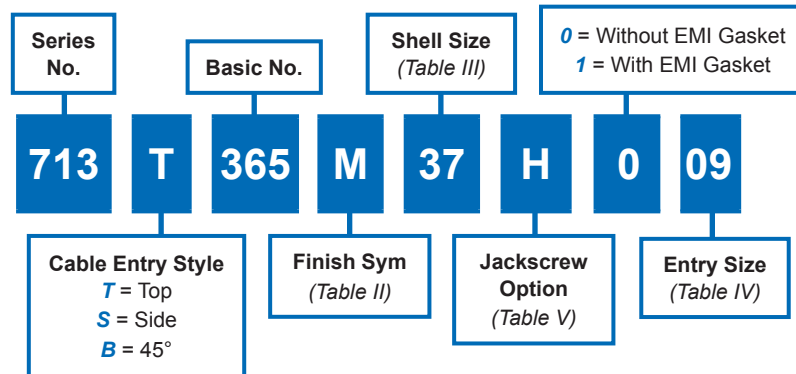
Symbol	Description
A	Socket Head
B	Fillister Head
D	Drilled Fillister Head
E	Extended Knurled Slotted Head
H	Hex Head
K	Knurled Slotted Head
Polarizing Jackscrew Options	
F	Turnable Male and Female
L	Turnable Females
M	Turnable Males
N	Fixed Male and Female
P	Fixed Females
R	Fixed Males

Material and Finish

- Adapter: See Table II
- Jackscrews, Hardware: CRES/Passivate
- Gasket: Metex (Monel Mesh/Silicone) or equiv/NA

Notes

- MIL-DTL-38999, Series III accessory interface (Glenair Code H). Entry size corresponds to MIL-DTL-38999 series III shell size.
- For front mount, mating connector must be mounted to panel using M24308/26 female screw locks (float mounts cannot be used). For rear mounted applications, use 559-001.
- Symbol E hardware is not available with style B (45°) cable entries, style T (top) shell size 1 (all entries) and shell size 2 with entry sizes 13 & 15.

M83513 Micro-D connector adapter with MIL-DTL-38999 Series III (H code) accessory thread and interface teeth and optional EMI/RFI gasket
How To Order

Material and Finish

- Adapter: See Table II
- Retaining Clip, Washers, Jackscrews, Nuts, Jackposts: CRES/Passivate
- Gasket: Metex (Monel Mesh/Silicone) or equiv/NA

Notes

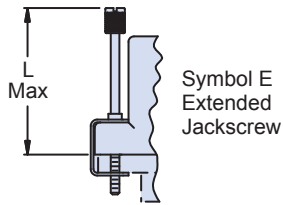
- MIL-DTL-38999, Series III accessory interface (Glenair Code H). Entry size corresponds to MIL-DTL-38999 Series III shell size.
- RFI/EMI Gasket (559-005) mounts between mating connector and panel.
- Symbol E hardware is not available with style B (45°) cable entries. Symbol E hardware on Style T cable entries may interfere with coupling from mating backshell. Consult factory for use of Symbol E hardware on Style T (Top) cable entries.

713-365 M83513 Micro-D Connector Adapter Top, Side, 45° Entry



Table III: Shell Size/Dimensions

Shell Size	A Max	B Max	C Dim	D Max	E Max	H Max	J Max	L Max	M Max	N Max	Max Entry		
											Top	Side	45 End
09	.850 (21.6)	.370 (9.4)	.565 (14.4)	1.030 (26.2)	.410 (10.4)	.590 (15.0)	.673 (17.1)	1.040 (26.4)	N/A	N/A	09	09	-
15	1.000 (25.4)	.370 (9.4)	.715 (18.2)	1.030 (26.2)	.580 (14.7)	.590 (15.0)	.673 (17.1)	1.170 (29.7)	1.206 (30.6)	.895 (22.7)	11	09	11
21	1.150 (29.2)	.370 (9.4)	.865 (22.0)	1.030 (26.2)	.740 (18.8)	.590 (15.0)	.707 (17.6)	1.290 (32.8)	1.306 (33.2)	.995 (25.3)	13	09	13
25	1.250 (31.8)	.370 (9.4)	.965 (24.5)	1.090 (27.7)	.850 (21.6)	.650 (16.5)	.748 (19.0)	1.350 (34.3)	1.411 (35.8)	1.100 (27.9)	13	09	13
31	1.400 (35.6)	.370 (9.4)	1.115 (28.3)	1.150 (29.2)	.980 (24.9)	.710 (18.0)	.785 (19.9)	1.420 (36.1)	1.541 (39.1)	1.230 (31.2)	15	11	15
37	1.550 (39.4)	.370 (9.4)	1.265 (32.1)	1.190 (30.2)	1.130 (28.7)	.750 (19.1)	.785 (19.9)	1.450 (36.8)	1.666 (42.3)	1.355 (34.4)	17	11	17
51	1.500 (38.1)	.410 (10.4)	1.215 (31.0)	1.220 (31.0)	1.080 (27.4)	.780 (19.8)	.859 (21.8)	1.480 (37.6)	1.616 (41.0)	1.305 (33.1)	17	11	17
51-2	1.910 (48.5)	.370 (9.4)	1.615 (41.0)	1.220 (31.0)	1.510 (38.4)	.780 (19.8)	.859 (21.8)	1.480 (37.6)	1.891 (48.0)	1.580 (40.1)	17	11	17
67	2.310 (58.7)	.370 (9.4)	2.015 (51.2)	1.220 (31.0)	1.880 (47.8)	.780 (19.8)	.905 (23.0)	1.480 (37.6)	2.066 (52.5)	1.755 (44.6)	19	13	19
69	1.810 (46.0)	.410 (10.4)	1.515 (38.5)	1.220 (31.0)	1.380 (35.0)	.780 (19.8)	.905 (23.0)	1.480 (37.6)	1.866 (47.4)	1.555 (39.5)	19	13	19
100	2.235 (56.8)	.460 (11.7)	1.800 (45.7)	1.280 (32.5)	1.470 (37.3)	.840 (21.3)	1.060 (26.9)	1.580 (40.1)	1.856 (47.1)	1.545 (39.2)	21	15	21



Style T & S Only

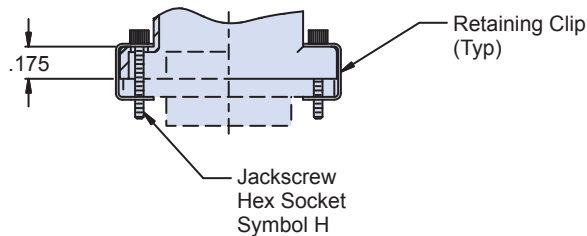
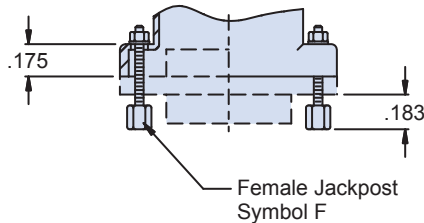
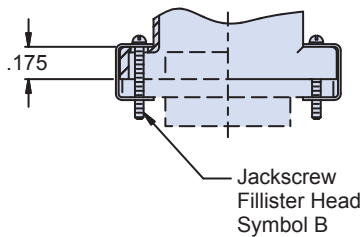


Table IV: Entry Size

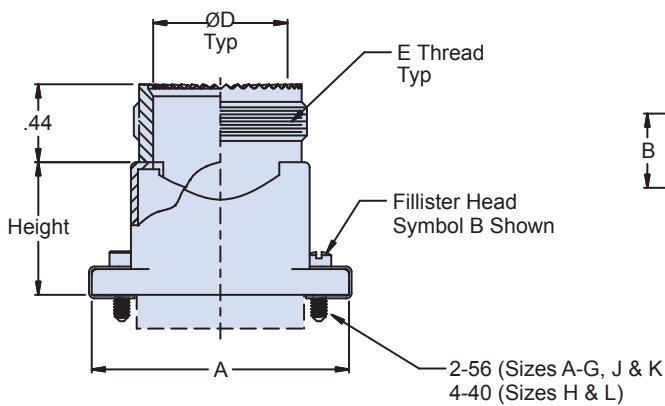
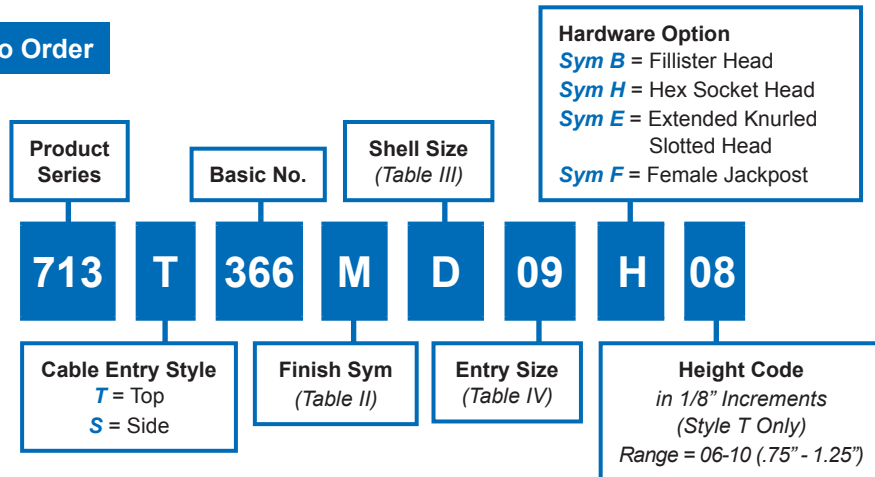
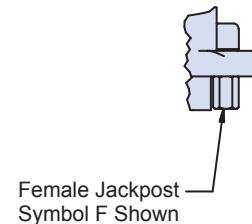
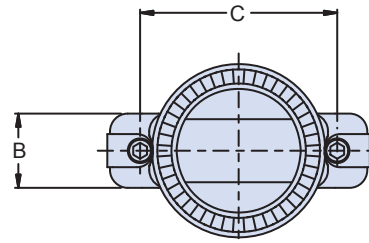
Entry Size	Conduit Size (Ref)	ØF	G Thread ISO Metric	K Dim
09	06, 09	.281 (7.14)	M12 X 1.0-6g	.236 (6.00)
11	10, 12	.397 (10.1)	M15 X 1.0-6g	.295 (7.49)
13	14, 16	.511 (13.0)	M18 X 1.0-6g	.354 (8.99)
15	20	.636 (16.2)	M22 X 1.0-6g	.433 (10.1)
17	24	.761 (19.3)	M25 X 1.0-6g	.492 (12.5)
19	28	.875 (22.2)	M28 X 1.0-6g	.551 (14.0)
21	32	1.000 (25.4)	M31 X 1.0-6g	.610 (15.5)

Table V: Jackscrew Type

Symbol	Jackscrew Type
B	(2) Male Fillister Head
H	(2) Male Hex Socket
E	(2) Male Extended
F	(2) Female Jackpost
FB	(1) Female Jackpost, (1) Male Fillister Head
FH	(1) Female Jackpost, (1) Male Hex Socket

Table II: Material/Finish

Sym	Material	Finish Description
B	Aluminum	Cadmium, Olive Drab
C		Anodize, Black
M		Electroless Nickel
MT		Nickel-PTFE
NF		Cadmium/Olive Drab Over Electroless Nickel
UCR		Zinc Cobalt/Black
ZN		Zinc Nickel/Olive Drab Over Electroless Nickel
ZNU		Zinc Nickel/Black Over Electroless Nickel
Z1	Stainless Steel	Passivate
ZM		Electroless Nickel
ZMT		Nickel-PTFE
ZW		Cadmium/Olive Drab Over Electroless Nickel

Series 79 Micro-Crimp connector adapter with MIL-DTL-38999 Series III (H code) accessory thread and interface teeth
How To Order

**Style T
Top Entry**

Material and Finish

- Adapter: See Table II
- Retaining Clip, Washers, Jackscrews, Nuts, Jackposts: CRES/Passivate

Notes

- Symbol E hardware is not available with style T (Top) cable entries for shell sizes A through E, and for max entries on shell sizes F and G. Symbol E hardware with Style T cable entries may interfere with coupling from mating backshell.
- Consult factory for use of Symbol E hardware on Style T (Top) cable entries.
- MIL-DTL-38999, Series III accessory interface (Glenair Code H). Entry size corresponds to MIL-DTL-38999 Series III shell size.

713-366 Series 79 Micro-Crimp Connector Adapter Top or Side Entry

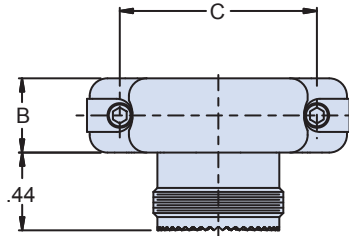


Table II: Finish		
Sym	Material	Finish Description
B	Aluminum	Cadmium, Olive Drab
C		Anodize, Black
M		Electroless Nickel
MT		Nickel-PTFE
NF		Cadmium/Olive Drab Over Electroless Nickel
UCR		Zinc Cobalt/Black
ZN		Zinc Nickel/Olive Drab Over Electroless Nickel
ZNU		Zinc Nickel/Black Over Electroless Nickel
Z1	Stainless Steel	Passivate
ZM		Electroless Nickel
ZMT		Nickel-PTFE
ZW		Cadmium/Olive Drab Over Electroless Nickel

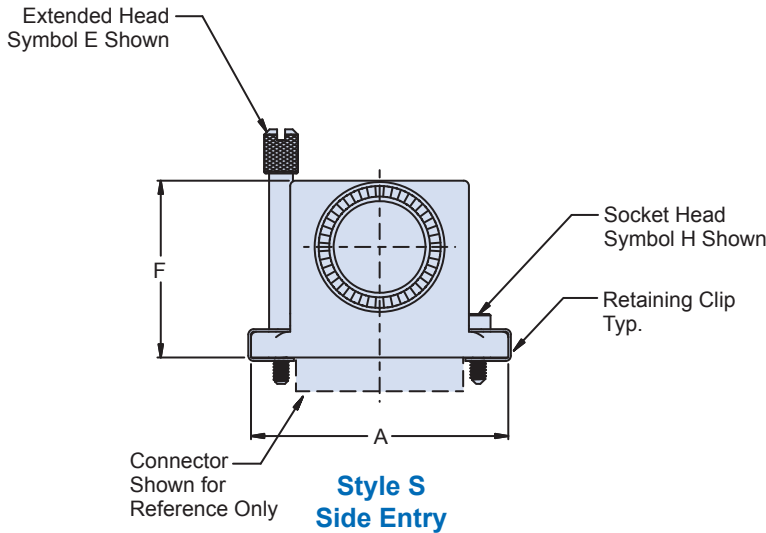
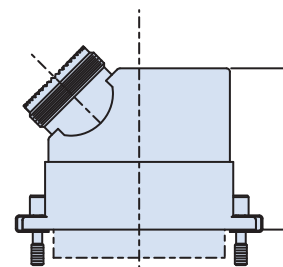
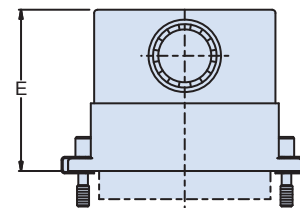
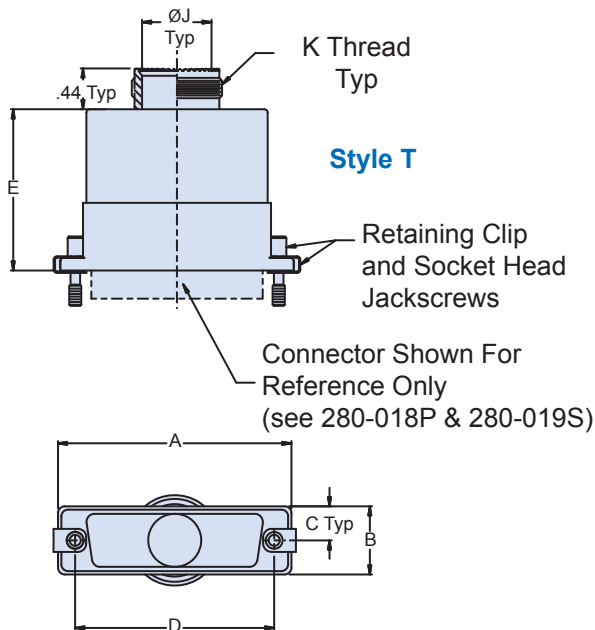
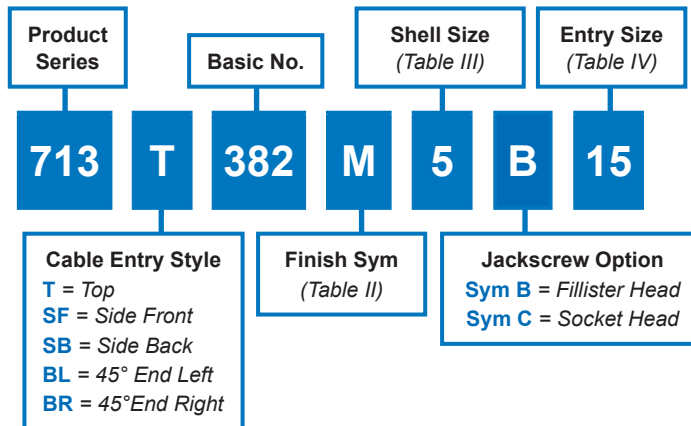


Table III: Shell Size					
Shell Size	A Max	B Max	C Dim	Max Entry	
A	.935 (23.7)	.450 (11.4)	.565 (14.4)	09	
B	1.085 (27.6)	.450 (11.4)	.715 (18.2)	11	
C	1.235 (31.4)	.450 (11.4)	.865 (22.0)	11	
D	1.335 (33.9)	.450 (11.4)	.965 (24.5)	13	
E	1.485 (37.7)	.450 (11.4)	1.115 (28.3)	13	
F	1.635 (41.5)	.450 (11.4)	1.265 (32.1)	15	
G	1.585 (40.3)	.533 (13.5)	1.215 (30.9)	15	
H	2.320 (58.9)	.560 (14.2)	1.800 (45.7)	17	
J	1.990 (50.5)	.450 (11.4)	1.615 (41.0)	17	
K	2.385 (60.6)	.450 (11.4)	2.015 (51.2)	17	
L	2.556 (64.9)	.560 (14.2)	2.036 (51.7)	19	

Table IV: Entry Size				
Entry Size	Conduit Size (Ref)	ØD	E Thread ISO Metric	F Max
09	06, 09	.281 (7.14)	M12 X 1.0-6g	.97 (24.6)
11	10, 12	.397 (10.1)	M15 X 1.0-6g	1.09 (27.7)
13	14, 16	.511 (13.0)	M18 X 1.0-6g	1.21 (30.7)
15	20	.636 (16.2)	M22 X 1.0-6g	1.37 (34.8)
17	24	.761 (19.3)	M25 X 1.0-6g	1.49 (37.8)
19	28	.875 (22.2)	M28 X 1.0-6g	1.60 (40.6)

Series 28 HiPer-D connector adapter with MIL-DTL-38999 Series III (H code) accessory thread and interface teeth
How To Order

Material & Finish

- Adapter: See Table II
- Jackscrews, Retaining Clips: Cres/Passivate

Notes

- MIL-DTL-38999, Series III accessory interface (Glenair Code H).
- Entry Size corresponds to MIL-DTL-38999, Series III shell size.

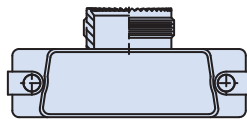
713-382
Series 28 HiPer-D Connector Adapter
 Top, Side or 45° Entry



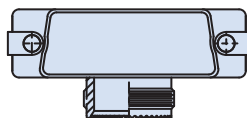
Table III														
Shell Size	Com'l Shell Size Ref	A Max		B Max		C Ref		D ± .005		E Max		F Max		Max Entry
1	E/09	1.393	(35.4)	.624	(15.8)	.312	(7.92)	.984	(25.0)	1.31	(33.3)	1.69	(42.9)	13
2	A/15	1.709	(43.4)	.624	(15.8)	.312	(7.92)	1.312	(33.3)	1.47	(37.3)	1.79	(45.5)	15
3	B/25	2.265	(57.5)	.624	(15.8)	.312	(7.92)	1.852	(47.0)	1.59	(40.4)	1.87	(47.5)	17
4	C/37	2.900	(74.0)	.624	(15.8)	.312	(7.92)	2.500	(63.5)	1.59	(40.4)	1.90	(48.3)	17
5	D/50	2.800	(71.1)	.750	(19.1)	.375	(9.53)	2.406	(61.1)	1.82	(46.2)	2.05	(52.1)	21
6	F/104	2.900	(74.0)	.844	(21.4)	.422	(10.7)	2.500	(63.5)	1.82	(46.2)	2.06	(42.3)	21

Table IV			
Entry Size	Conduit Size (Ref)	Ø J	K Thread Iso Metric
09	06, 09	.281 (7.14)	M12 X 1.0-6g
11	10, 12	.397 (10.1)	M15 X 1.0-6g
13	14, 16	.511 (13.0)	M18 X 1.0-6g
15	20	.636 (16.2)	M22 X 1.0-6g
17	24	.761 (19.3)	M25 X 1.0-6g
19	28	.875 (22.2)	M28 X 1.0-6g
21	32	1.000 (25.4)	M31 X 1.0-6g

Table II			
Sym	Material	Finish Description	
B	Aluminum	Cadmium Olive Drab	
C		Anodize, Black	
M		Electroless Nickel	
MT		Nickel - PTFE	
NF		Cadmium/Olive Drab over Electroless Nickel	
UCR		Zinc Cobalt/Black	
ZN		Zinc Nickel/Olive Drab over Electroless Nickel	
ZNU		Zinc Nickel/Black over Electroless Nickel	
Z1		Stainless Steel	Passivate
ZM			Electroless Nickel
ZMT	Nickel - PTFE		
ZW	Cadmium/Olive Drab over Electroless Nickel		



Style SB



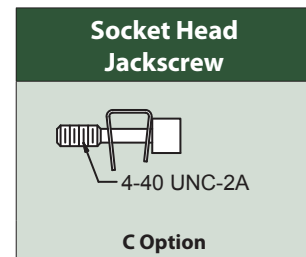
Style SF

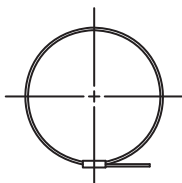
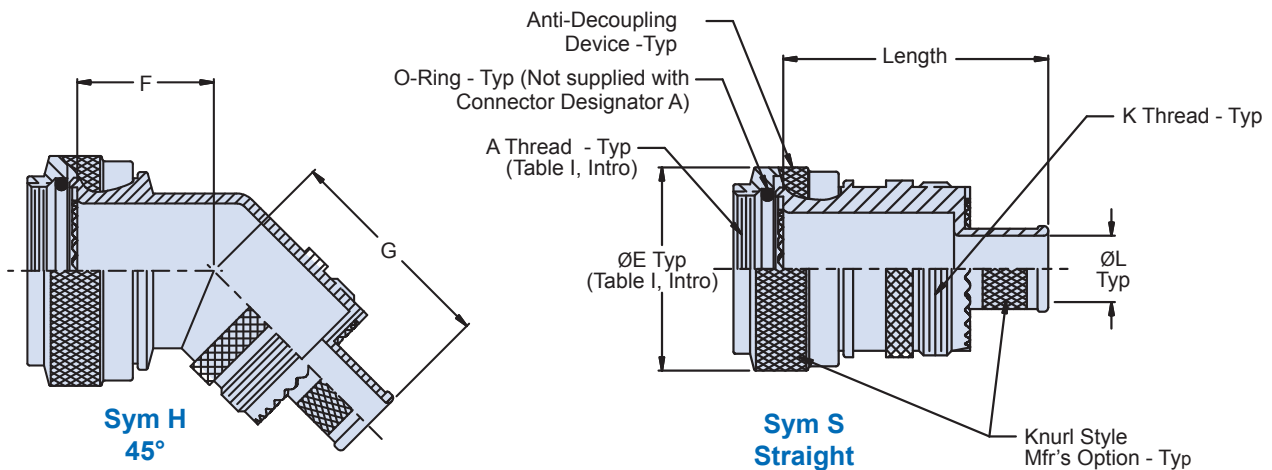
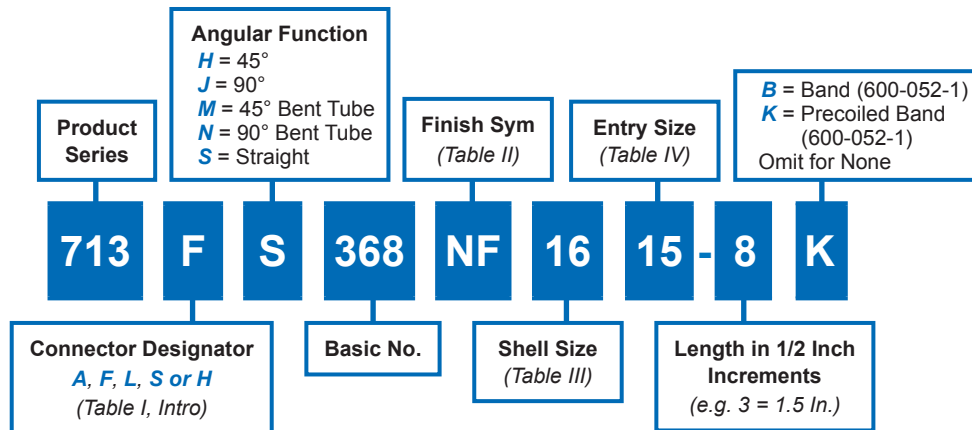


Style BR



Style BL



Metal Band-in-a-Can connector adapter with self-locking coupling nut and MIL-DTL-38999 Series III (H code) accessory thread and interface teeth
How To Order

**Sym K
Band**
Material and Finish

- Adapters, Elbows, Coupling Nuts: See Table II
- Band & Hardware: CRES/Passivate
- Anti-decoupling Device: Corrosion Resistant Material/N.A.
- O-Rings: Silicone/N.A.

Notes

- Standard minimum length is 1.5 inches, for shorter length, consult factory. Note: Length applies to SYM S, Straight only.
- MIL-DTL-38999, Series III accessory interface (Glenair Code H). Entry size corresponds to MIL-DTL-38999, Series III shell size.

713-368
Band-in-a-Can Connector Adapter
with Accessory Threads and Self-Locking Coupling Nut

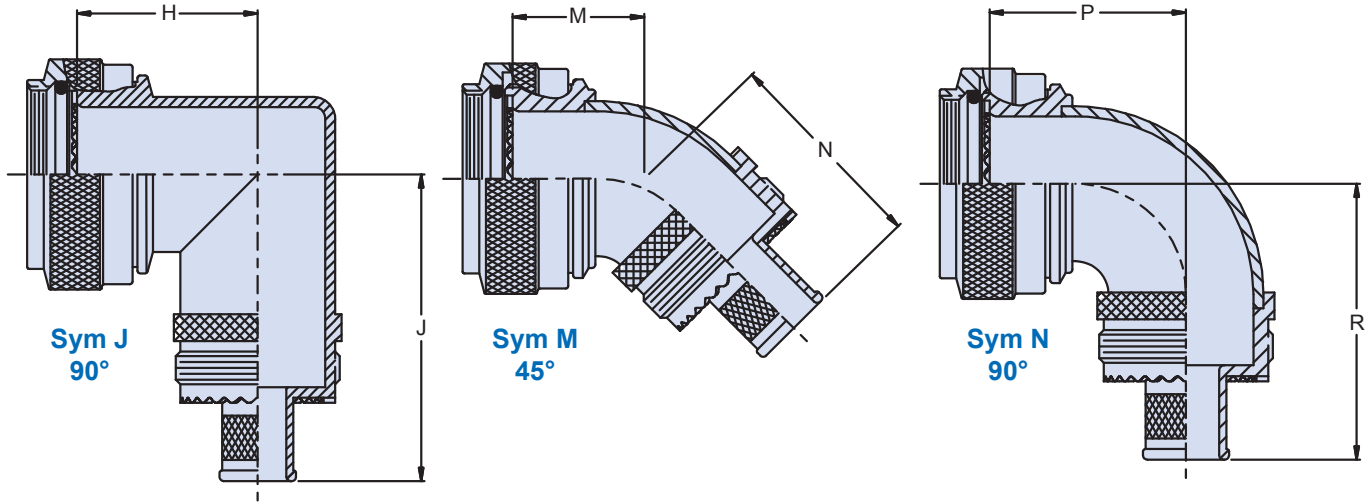


Table III: Shell Size/Dimensions

Shell Size Conn. Desig. A, F, L, S	H	F Max	G Max	H Max	J Max	M Max	N Max	P Max	R Max	Max Entry
08	09	.795 (20.2)	1.450 (36.8)	.906 (23.0)	1.570 (39.9)	.721 (18.3)	1.330 (33.8)	.878 (22.3)	1.490 (37.8)	17
10	11	.820 (21.0)	1.480 (37.6)	.966 (24.5)	1.620 (41.1)	.747 (19.0)	1.360 (34.5)	.940 (23.9)	1.550 (39.4)	19
12	13	.844 (21.4)	1.500 (38.1)	1.026 (26.1)	1.680 (42.7)	.747 (19.0)	1.380 (35.1)	.940 (23.9)	1.570 (39.9)	21
14	15	.861 (21.9)	1.530 (38.9)	1.076 (27.3)	1.750 (44.5)	.799 (20.3)	1.430 (36.3)	1.003 (25.5)	1.640 (41.7)	23
16	17	.888 (22.6)	1.550 (39.4)	1.136 (28.9)	1.810 (46.0)	.825 (21.0)	1.460 (37.1)	1.065 (27.1)	1.700 (43.2)	25
18	19	.904 (23.0)	1.560 (39.6)	1.176 (29.9)	1.830 (46.5)	.877 (22.3)	1.540 (39.1)	1.128 (28.7)	1.790 (45.5)	33
20	21	.929 (23.6)	1.580 (40.1)	1.236 (31.4)	1.890 (48.0)	.903 (22.9)	1.570 (39.9)	1.190 (30.2)	1.850 (47.0)	33
22	23	.956 (24.3)	1.620 (41.1)	1.296 (32.9)	1.970 (50.0)	.928 (23.6)	1.620 (41.1)	1.253 (31.8)	1.940 (49.3)	33
24	25	.979 (24.9)	1.650 (41.9)	1.356 (34.4)	2.040 (51.8)	.954 (24.2)	1.660 (42.2)	1.315 (33.4)	2.030 (51.6)	37

Table IV: Entry Size

Entry Size	K Thread ISO Metric	Ø L	
13	M18 X 1.0-6g	.125	(3.20)
15	M22 X 1.0-6g	.250	(6.40)
17	M25 X 1.0-6g	.375	(9.53)
19	M28 X 1.0-6g	.438	(11.1)
21	M31 X 1.0-6g	.563	(14.3)
23	M34 X 1.0-6g	.688	(17.5)
25	M37 X 1.0-6g	.812	(20.6)
33	M45 X 1.5-6g	1.125	(28.6)
37	M50 X 1.5-6g	1.313	(33.4)

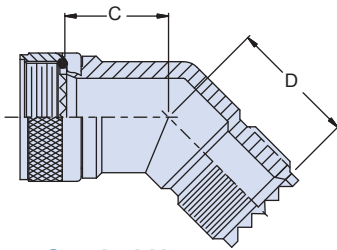
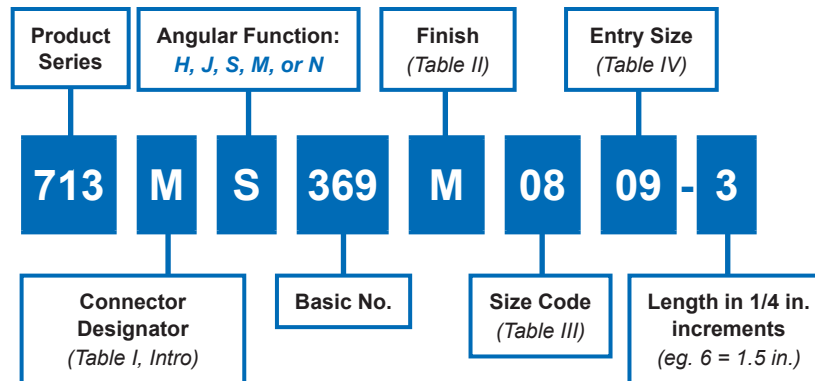
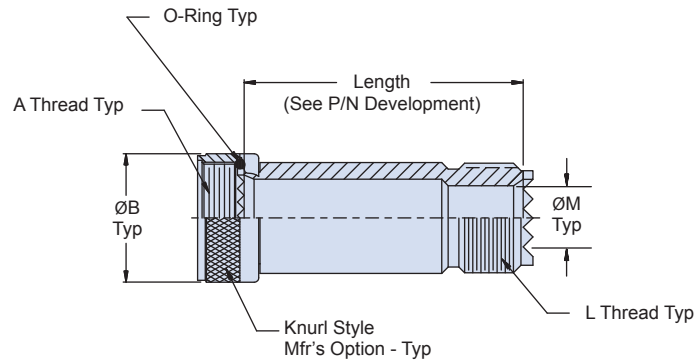
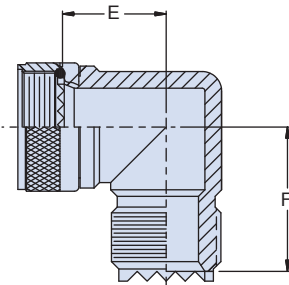
Table II: Material/Finish

Sym	Material	Finish Description	
B	Aluminum	Cadmium, Olive Drab	
C		Anodize, Black (Non-Conductive)	
M		Electroless Nickel	
MT		Nickel-PTFE	
NF		Cadmium/Olive Drab Over Electroless Nickel	
UCR		Zinc Cobalt/Black	
ZN		Zinc Nickel/Olive Drab Over Electroless Nickel	
ZNU		Zinc Nickel/Black Over Electroless Nickel	
Z1		300 Series SST	Passivate

Table II (continued)

Sym	Material	Finish Description	Component
ZM	300 Series SST	Electroless Nickel	Adapter, Elbow
		Passivate	Coupling Nut
ZMT	300 Series SST	Nickel - PTFE	Adapter, Elbow
		Passivate	Coupling Nut
ZW	300 Series SST	Cadmium O.D. Over Electroless Nickel	Adapter, Elbow
		Cadmium Olive Drab	Coupling Nut



Mighty Mouse adapter/extender with environmental O-Ring and Rear Mighty Mouse interface teeth and threads
How To Order

Symbol H
 45°

Symbol S
 Straight

Symbol J
 90°

Material and Finish

- Adapters, elbows, and coupling nuts: See Table II
- O-Rings: Silicone/NA

Notes

- Standard minimum length is 1.00 inches. For shorter length, consult factory. Note: Length applies to Symbol S, Straight only.
- Mighty Mouse accessory interface (Glenair code M) entry size corresponds to Mighty Mouse size code.

713M*369

Series 80 Mighty Mouse Connector Adapter/Extender
Environmental, Straight, 45°, 90°



Adapters and
Transitions

Table III: Size Code/Dimensions

Size Code	A Thread Class 2B	Shell Size Ref		Ø B Max	C Max	D Max	E Max	F Max
		800/801 803/804	805					
05	1/4-32 UNEF	5	N/A	.470 (11.9)	.530 (13.5)	.660(16.8)	.630 (16.0)	.780 (19.8)
06	5/16-32 UNEF	6	N/A	.530 (13.5)	.550 (14.0)	.670 (17.0)	.660(16.8)	.790 (20.1)
11	3/8-32 UNEF	N/A	8	.570 (14.5)	.560 (14.2)	.680 (17.3)	.680 (17.3)	.810 (20.6)
07	7/16-28 UNEF	7	9	.637 (16.2)	.570 (14.5)	.690 (17.5)	.700 (17.8)	.830 (21.1)
08	1/2-28 UNEF	8	10	.700 (17.8)	.580 (14.7)	.700 (17.8)	.740 (18.8)	.860 (21.8)
09	9/16-24 UNEF	9	11	.758 (19.3)	.590 (15.0)	.710 (18.0)	.770 (19.6)	.890(22.6)
10	5/8-24 UNEF	10	12	.819 (20.8)	.610 (15.5)	.730 (18.5)	.800(20.3)	.920(23.4)
12	11/16-24 UNEF	12/13	N/A	.896(22.8)	.640(16.3)	.750 (19.1)	.840 (21.3)	.970(24.6)
13	3/4-20 UNEF	N/A	15	.930(23.6)	.660(16.8)	.770 (19.6)	.880(22.4)	1.020(25.9)
14	15/16-20 UNEF	14/15/16/17	18/19	1.137 (28.9)	.690 (17.5)	.800(20.3)	.950 (24.1)	1.090 (27.7)
17	1 3/16-18 UNEF	21	23	1.387 (35.2)	.720 (18.3)	.830 (21.1)	1.010 (25.7)	1.160 (29.5)

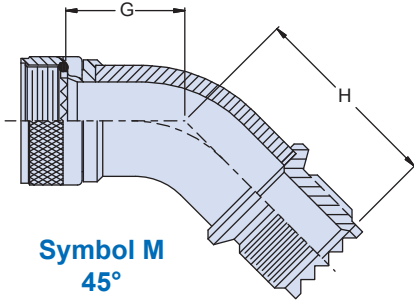


Table III (cont.)

Size Code	G Max	H Max	J Max	K Max
05	.650 (16.5)	.727 (18.5)	.842 (21.4)	.919 (23.3)
06	.650 (16.5)	.727 (18.5)	.842 (21.4)	.919 (23.3)
11	.700 (17.8)	.777 (19.7)	.905(23.0)	.982 (24.9)
07	.700 (17.8)	.777 (19.7)	.905(23.0)	.982 (24.9)
08	.730 (18.5)	.807(20.5)	.967(24.6)	1.044(26.5)
09	.730 (18.5)	.807(20.5)	.967(24.6)	1.044(26.5)
10	.780 (19.8)	.857 (21.8)	1.030(26.2)	1.107 (28.1)
12	.780 (19.8)	.857 (21.8)	1.030(26.2)	1.107 (28.1)
13	.780 (19.8)	.857 (21.8)	1.030(26.2)	1.107 (28.1)
14	.805(20.4)	.882(22.4)	1.092 (27.7)	1.169 (29.7)
17	.830 (21.1)	.907(23.0)	1.155 (29.3)	1.232 (31.3)

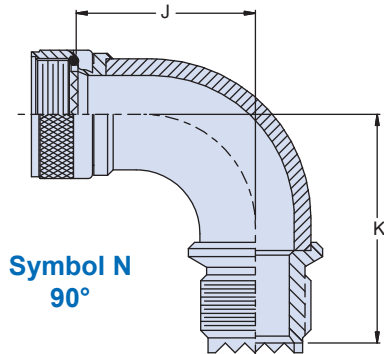


Table IV: Entry Size

Entry Size	L Thread Class 2A	ØM
05	1/4-32 UNEF	.166 (4.2)
06	5/16-32 UNEF	.228 (5.8)
11	3/8-32 UNEF	.266 (6.8)
07	7/16-28 UNEF	.328 (8.3)
08	1/2-28 UNEF	.388 (9.9)
09	9/16-24 UNEF	.445 (11.3)
10	5/8-24 UNEF	.508 (12.9)
12	11/16-24 UNEF	.578 (14.7)
13	3/4-20 UNEF	.625 (15.9)
14	15/16-20 UNEF	.812 (20.6)
17	1 3/16-18 UNEF	1.057(26.8)

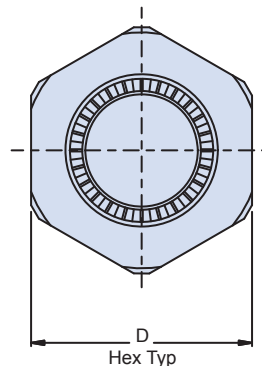
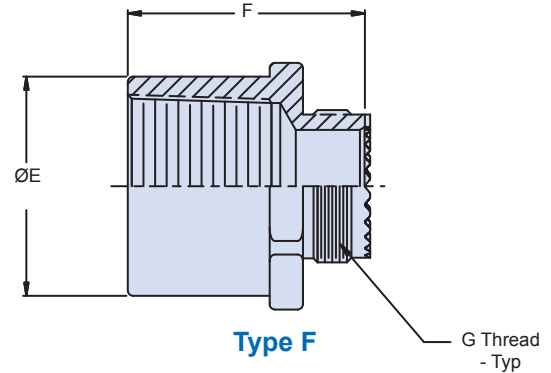
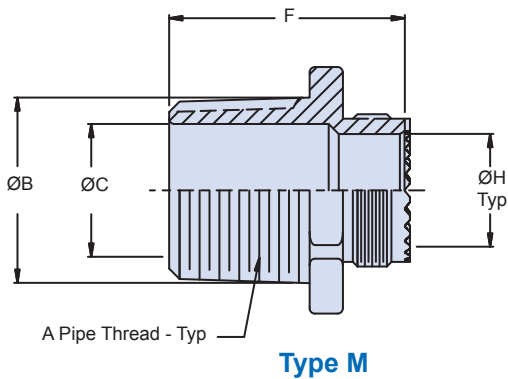
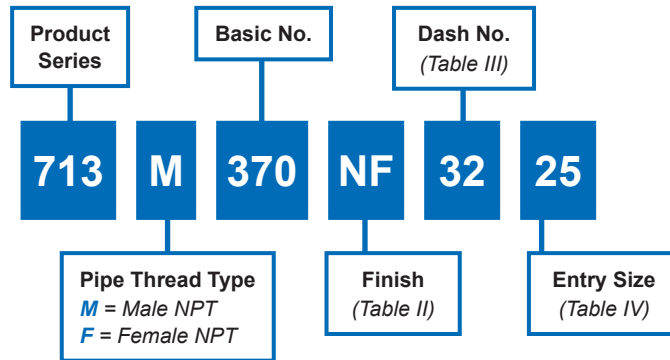
Table II: Material/Finish

Sym	Material	Finish Description	
B	Aluminum	Cadmium, Olive Drab	
C		Anodize, Black	
M		Electroless Nickel	
MT		Nickel-PTFE	
NF		Cad/Olive Drab over Electroless Nickel	
UCR		Zinc Cobalt/Black	
ZN		Zinc Nickel/Olive Drab over Electroless Nickel	
ZNU		Zinc Nickel/Black over Electroless Nickel	
Z1		Stainless Steel	Passivate
ZM			Electroless Nickel
ZMT	Nickel-PTFE		
ZW	Cadmium/Olive Drab over Electroless Nickel		

E

Pipe thread adapter with MIL-DTL-38999 Series III (H code) accessory thread and interface teeth

How To Order



Notes

- Entry size corresponds to MIL-DTL-38999 Series III shell size.

713-370 Pipe Thread Adapter



Table III: Dash No./Dimensions

Dash No	A Pipe Thread NPT	B Dia	C Dia	D Hex	E Dia Max	F Max	Max Entry Size
08	¼	0.540 (13.7)	0.250 (6.4)	0.625 (15.9)	0.625 (15.9)	1.31 (33.3)	11
12	⅜	0.675 (17.1)	0.375 (9.5)	0.875 (22.2)	0.875 (22.2)	1.31 (33.3)	15
16	½	0.840 (21.3)	0.500 (12.7)	1.000 (25.4)	1.000 (25.4)	1.52 (38.6)	17
24	¾	1.050 (26.7)	0.750 (19.1)	1.250 (31.8)	1.250 (31.8)	1.52 (38.6)	21
32	1	1.315 (33.4)	1.000 (25.4)	1.500 (38.1)	1.500 (38.1)	1.83 (46.5)	25
40	1 ¼	1.660 (42.2)	1.250 (31.8)	1.750 (44.5)	1.750 (44.5)	1.85 (47.0)	25
48	1 ½	1.900 (48.3)	1.500 (38.1)	2.250 (57.2)	2.125 (54.0)	1.85 (47.0)	37
64	2	2.375 (60.3)	2.000 (50.8)	2.500 (63.5)	2.500 (63.5)	1.85 (47.0)	37

Table IV: Entry Size

Entry Size	G Thread Iso Metric	H Dia
09	M12 X 1.0-6g	.281 (7.1)
11	M15 X 1.0-6g	.397 (1.1)
13	M18 X 1.0-6g	.511 (13.0)
15	M22 X 1.0-6g	.636 (16.2)
17	M25 X 1.0-6g	.761 (19.3)
19	M28 X 1.0-6g	.875 (22.2)
21	M31 X 1.0-6g	1.000 (25.4)
23	M34 X 1.0-6g	1.125 (28.6)
25	M37 X 1.0-6g	1.250 (31.8)
33	M45 X 1.5-6g	1.530 (38.9)
37	M50 X 1.5-6g	1.750 (44.5)

Table II: Finish

Sym	Material	Finish Description
B	Aluminum Alloy	Cadmium, Olive Drab
C		Anodize, Black
M		Electroless Nickel
MT		Nickel - PTFE
NF		Cadmium/Olive Drab over Electroless Nickel
UCR		Zinc Cobalt/Black
ZN		Zinc Nickel/Olive Drab over Electroless Nickel
ZNU		Zinc Nickel/Black over Electroless Nickel
Z1		Passivate
ZM		Stainless Steel
ZMT	Nickel - PTFE	
ZW	Cad/Olive Drab over Electroless Nickel	



Y transition with self-locking feature for ease of assembly and repair for multi-legged conduit assemblies. MIL-DTL-38999 Series III (H code) interface teeth.

How To Order

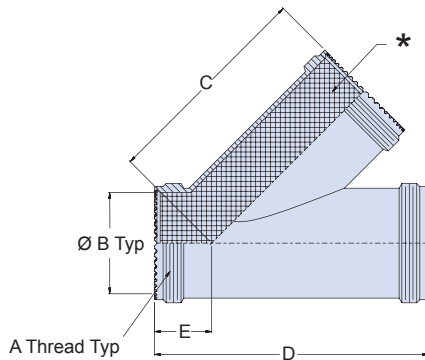
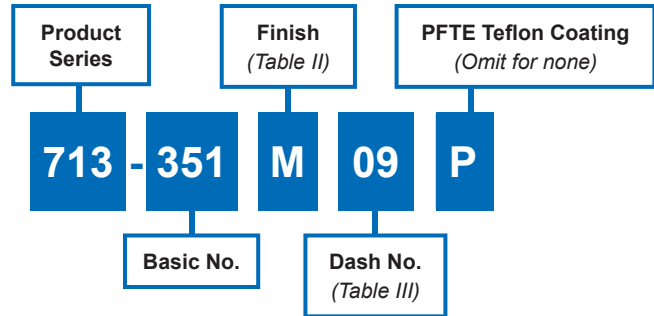


Table II: Material/Finish

Sym	Material	Finish Description
M	Aluminum	Electroless Nickel
MT		Nickel-PTFE
NF		Cad/Olive Drab over Electroless Nickel
ZN		Zinc Nickel/Olive Drab over Electroless Nickel
ZNU		Zinc Nickel/Black over Electroless Nickel
Z1	Stainless Steel	Passivate

Table III: Dash No./Dimensions

Dash No	Conduit Size (Ref)	A Thread Iso Metric	B Dia	C Max	D Max	E Max
09	06,09	M12 x 1.0-6g	.281 (7.1)	1.38 (35.1)	1.87 (47.5)	.52 (13.2)
11	10,12	M15 x 1.0-6g	.397 (10.1)	1.60 (40.6)	2.11 (53.6)	.54 (13.7)
13	14,16	M18 x 1.0-6g	.511 (13.0)	1.75 (44.5)	2.28 (57.9)	.57 (14.5)
15	20	M22 x 1.0-6g	.636 (16.2)	1.90 (48.3)	2.47 (62.7)	.60 (15.2)
17	24	M25 x 1.0-6g	.761 (19.3)	2.09 (53.1)	2.69 (68.3)	.63 (16.0)
19	28	M28 x 1.0-6g	.875 (22.2)	2.22 (56.4)	2.84 (72.1)	.65 (16.5)
21	32	M31 x 1.0-6g	1.000 (25.4)	2.36 (59.9)	3.00 (76.2)	.68 (17.3)
23	36	M34 x 1.0-6g	1.125 (28.6)	2.50 (63.5)	3.17 (80.5)	.70 (17.8)
25	40	M37 x 1.0-6g	1.250 (31.8)	2.66 (67.6)	3.35 (85.1)	.73 (18.5)
33	48	M45 x 1.5-6g	1.530 (38.9)	3.10 (78.7)	3.87 (98.3)	.80 (20.3)
37	56	M50 x 1.5-6g	1.750 (44.5)	3.39 (86.1)	4.21 (106.9)	.84 (21.3)

Material and Finish

See Table II.

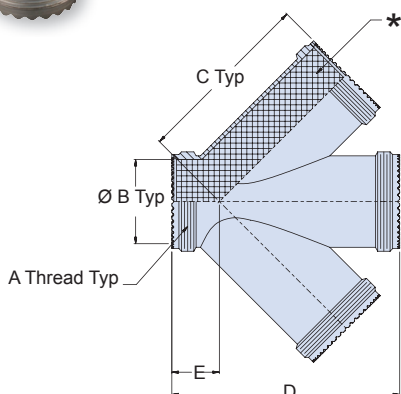
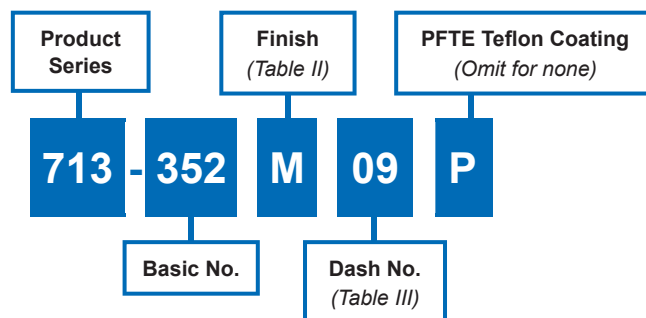
*Internal Surface coated with Teflon as shown, see P/N development.

713-352 Double-Y Transition



Double-Y transition with self-locking feature for ease of assembly and repair for multi-legged conduit assemblies. MIL-DTL-38999 Series III (H code) interface teeth.

How To Order



Sym	Material	Finish Description
M	Aluminum	Electroless Nickel
MT		Nickel-PTFE
NF		Cad/Olive Drab over Electroless Nickel
ZN		Zinc Nickel/Olive Drab over Electroless Nickel
ZNU		Zinc Nickel/Black over Electroless Nickel
Z1	Stainless Steel	Passivate

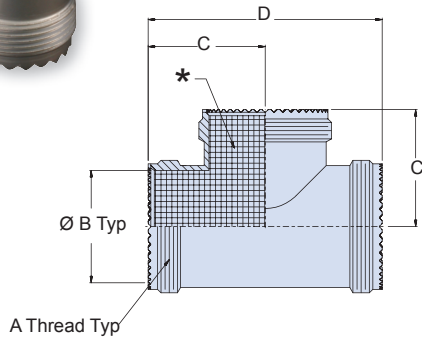
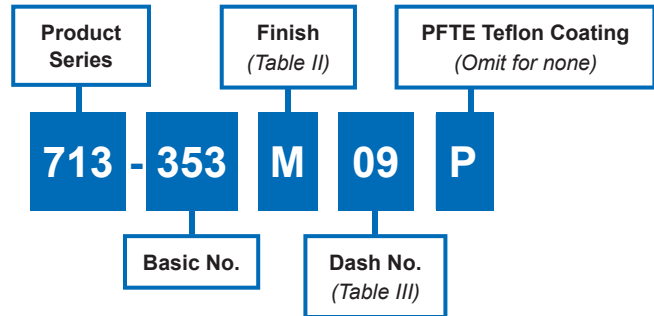
Dash No	Conduit Size (Ref)	A Thread Iso Metric	B Dia	C Max	D Max	E Max
09	06,09	M12 x 1.0-6g	.281 (7.1)	1.38 (35.1)	1.87 (47.5)	.52 (13.2)
11	10,12	M15 x 1.0-6g	.397 (10.1)	1.60 (40.6)	2.11 (53.6)	.54 (13.7)
13	14,16	M18 x 1.0-6g	.511 (13.0)	1.75 (44.5)	2.28 (57.9)	.57 (14.5)
15	20	M22 x 1.0-6g	.636 (16.2)	1.90 (48.3)	2.47 (62.7)	.60 (15.2)
17	24	M25 x 1.0-6g	.761 (19.3)	2.09 (53.1)	2.69 (68.3)	.63 (16.0)
19	28	M28 x 1.0-6g	.875 (22.2)	2.22 (56.4)	2.84 (72.1)	.65 (16.5)
21	32	M31 x 1.0-6g	1.000 (25.4)	2.36 (59.9)	3.00 (76.2)	.68 (17.3)
23	36	M34 x 1.0-6g	1.125 (28.6)	2.50 (63.5)	3.17 (80.5)	.70 (17.8)
25	40	M37 x 1.0-6g	1.250 (31.8)	2.66 (67.6)	3.35 (85.1)	.73 (18.5)
33	48	M45 x 1.5-6g	1.530 (38.9)	3.10 (78.7)	3.87 (98.3)	.80 (20.3)
37	56	M50 x 1.5-6g	1.750 (44.5)	3.39 (86.1)	4.21 (106.9)	.84 (21.3)

Material and Finish

See Table II.

*Internal Surface coated with Teflon as shown, see P/N development.

T transition with self-locking feature for ease of assembly and repair for multi-legged conduit assemblies. MIL-DTL-38999 Series III (H code) interface teeth.


How To Order

Table II: Material/Finish

Sym	Material	Finish Description
M	Aluminum	Electroless Nickel
MT		Nickel-PTFE
NF		Cad/Olive Drab over Electroless Nickel
ZN		Zinc Nickel/Olive Drab over Electroless Nickel
ZNU		Zinc Nickel/Black over Electroless Nickel
Z1	Stainless Steel	Passivate

Table III: Dash No./Dimensions

Dash No	Conduit Size (Ref)	A Thread Iso Metric	B Dia	C Max	D Max
09	06,09	M12 X 1.0-6g	.281 (7.1)	.78 (19.8)	1.53 (38.9)
11	10,12	M15 X 1.0-6g	.397 (10.1)	.90 (22.9)	1.71 (43.4)
13	14,16	M18 X 1.0-6g	.511 (13.0)	.94 (23.9)	1.84 (46.7)
15	20	M22 X 1.0-6g	.636 (16.2)	1.00 (25.4)	1.96 (49.8)
17	24	M25 X 1.0-6g	.761 (19.3)	1.08 (27.4)	2.12 (53.8)
19	28	M28 X 1.0-6g	.875 (22.2)	1.13 (28.7)	2.23 (56.6)
21	32	M31 X 1.0-6g	1.000 (25.4)	1.19 (30.2)	2.34 (59.4)
23	36	M34 X 1.0-6g	1.125 (28.6)	1.25 (31.8)	2.46 (62.5)
25	40	M37 X 1.0-6g	1.250 (31.8)	1.31 (33.3)	2.59 (65.8)
33	48	M45 X 1.5-6g	1.530 (38.9)	1.49 (37.8)	2.95 (74.9)
37	56	M50 X 1.5-6g	1.750 (44.5)	1.62 (41.1)	3.21 (81.5)

Material and Finish

See Table II.

*Internal Surface coated with Teflon as shown, see P/N development.

713-354 Double-T Transition



Double-T transition with self-locking feature for ease of assembly and repair for multi-legged conduit assemblies. MIL-DTL-38999 Series III (H code) interface teeth.



How To Order

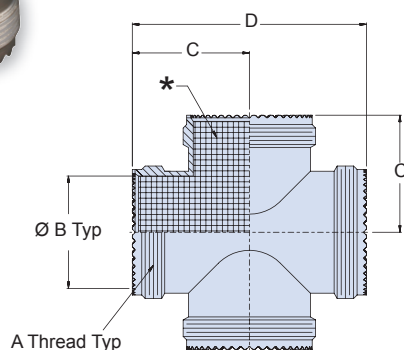
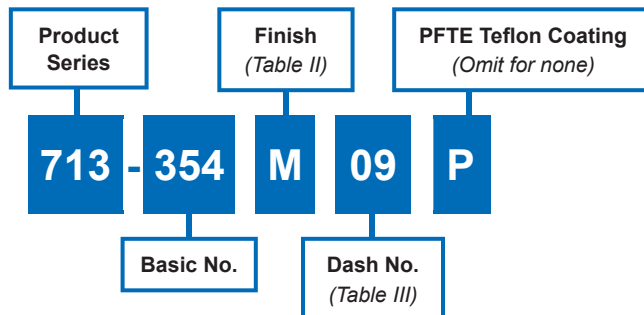


Table II: Material/Finish		
Sym	Material	Finish Description
M	Aluminum	Electroless Nickel
MT		Nickel-PTFE
NF		Cad/Olive Drab over Electroless Nickel
ZN		Zinc Nickel/Olive Drab over Electroless Nickel
ZNU		Zinc Nickel/Black over Electroless Nickel
Z1	Stainless Steel	Passivate

Table III: Dash No./Dimensions					
Dash No	Conduit Size (Ref)	A Thread Iso Metric	B Dia	C Max	D Max
09	06,09	M12 X 1.0-6g	.281 (7.1)	.78 (19.8)	1.53 (38.9)
11	10,12	M15 X 1.0-6g	.397 (10.1)	.90 (22.9)	1.71 (43.4)
13	14,16	M18 X 1.0-6g	.511 (13.0)	.94 (23.9)	1.84 (46.7)
15	20	M22 X 1.0-6g	.636 (16.2)	1.00 (25.4)	1.96 (49.8)
17	24	M25 X 1.0-6g	.761 (19.3)	1.08 (27.4)	2.12 (53.8)
19	28	M28 X 1.0-6g	.875 (22.2)	1.13 (28.7)	2.23 (56.6)
21	32	M31 X 1.0-6g	1.000 (25.4)	1.19 (30.2)	2.34 (59.4)
23	36	M34 X 1.0-6g	1.125 (28.6)	1.25 (31.8)	2.46 (62.5)
25	40	M37 X 1.0-6g	1.250 (31.8)	1.31 (33.3)	2.59 (65.8)
33	48	M45 X 1.5-6g	1.530 (38.9)	1.49 (37.8)	2.95 (74.9)
37	56	M50 X 1.5-6g	1.750 (44.5)	1.62 (41.1)	3.21 (81.5)

Material and Finish

See Table II.

*Internal Surface coated with Teflon as shown, see P/N development.

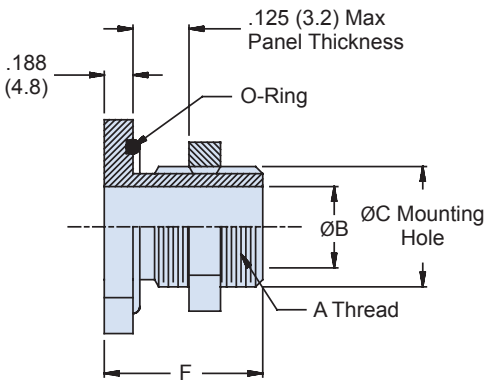
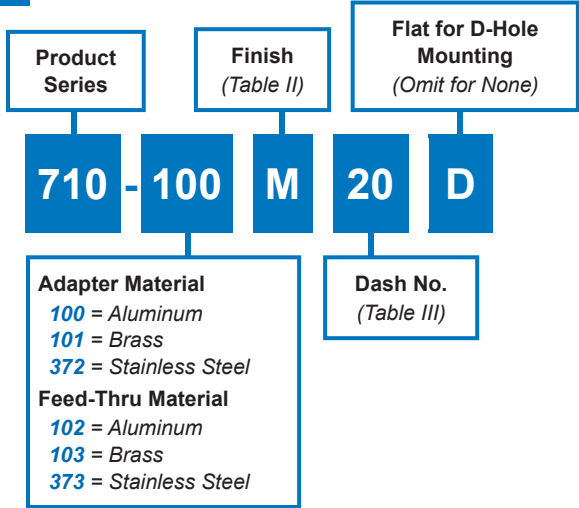


710-100 Metal Bulkhead Adapters & Feed-Throughs for Series 72 & 74 Tubing and Series 75 Conduit

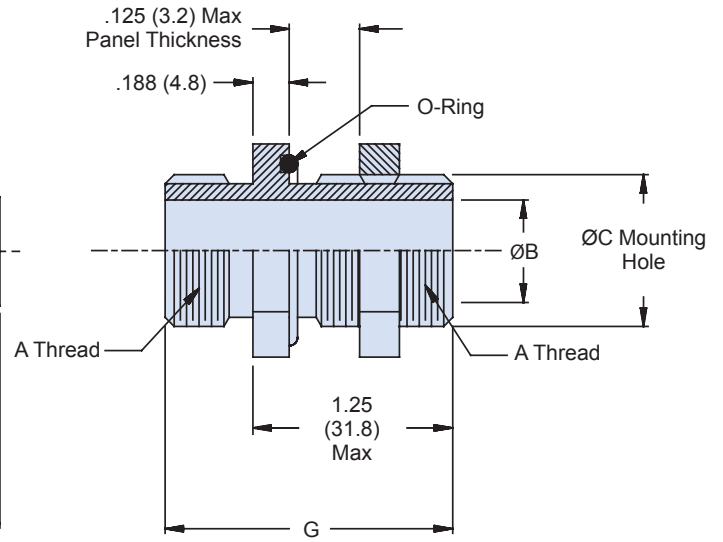
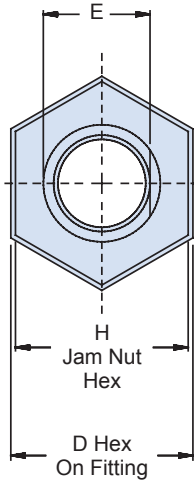
Metal bulkhead adapters & feed-throughs mate with transition fittings



How To Order



Bulkhead Adapters
710-100/101/372



Bulkhead Feed-Throughs
710-102/103/373

710-100

Metal Bulkhead Adapters & Feed-Throughs for Series 72 & 74 Tubing and Series 75 Conduit



Table III: Dash No./Dimensions

Dash No.	Conduit Size (Ref)			A Thread Class 2A	Ø B ± .015 (.4)	Ø C ± .030 (.8) - .000 (.0)	D Hex Fitting	E ± .000 (.0) - .015 (.4)	F Max	G Max	H Hex Jam Nut
	72	74	75								
06	06	06	-	7/16 - 28 UNEF	.193 (4.9)	.44 (11.2)	.69 (17.5)	.375 (9.5)	1.00 (25.4)	1.63 (41.4)	.63 (16.0)
08	-	-	08	1/2 - 20 UNF	.255 (6.5)	.50 (12.7)	.75 (19.1)	.438 (11.1)	1.00 (25.4)	1.63 (41.4)	.75 (19.1)
09	09	09	09	9/16 - 24 UNEF	.286 (7.3)	.56 (14.2)	.81 (20.6)	.500 (12.7)	1.00 (25.4)	1.63 (41.4)	.75 (19.1)
10	-	10	-	9/16 - 24 UNEF	.317 (8.1)	.56 (14.2)	.81 (20.6)	.500 (12.7)	1.00 (25.4)	1.63 (41.4)	.75 (19.1)
12	12	12	12	5/8 - 24 UNEF	.380 (9.7)	.63 (16.0)	.88 (22.4)	.563 (14.3)	1.00 (25.4)	1.63 (41.4)	.81 (20.6)
14	14	14	-	11/16 - 24 UNEF	.442 (11.2)	.69 (17.5)	.94 (23.9)	.625 (15.9)	1.00 (25.4)	1.63 (41.4)	.88 (22.4)
16	16	16	16	3/4 - 20 UNEF	.505 (12.8)	.75 (19.1)	1.00 (25.4)	.688 (17.5)	1.00 (25.4)	1.63 (41.4)	.94 (23.9)
20	20	20	20	7/8 - 20 UNEF	.630 (16.0)	.88 (22.4)	1.13 (28.7)	.812 (20.6)	1.00 (25.4)	1.63 (41.4)	1.06 (26.9)
24	24	24	24	1 - 20 UNEF	.755 (19.2)	1.00 (25.4)	1.25 (31.8)	.938 (23.8)	1.00 (25.4)	1.63 (41.4)	1.25 (31.8)
28	28	28	-	1 3/16 - 18 UNEF	.880 (22.4)	1.19 (30.2)	1.44 (36.6)	1.125 (28.6)	1.00 (25.4)	1.63 (41.4)	1.38 (35.1)
32	32	32	32	1 5/16 - 18 UNEF	1.005 (25.5)	1.31 (33.3)	1.56 (39.6)	1.250 (31.8)	1.00 (25.4)	1.63 (41.4)	1.62 (41.1)
40	40	40	40	1 1/2 - 18 UNEF	1.255 (31.9)	1.50 (38.1)	1.81 (46.0)	1.438 (36.5)	1.00 (25.4)	1.63 (41.4)	1.75 (44.5)
48	48	48	48	1 3/4 - 18 UNS	1.505 (38.2)	1.75 (44.5)	2.06 (52.3)	1.688 (42.9)	1.13 (28.7)	1.75 (44.5)	2.00 (50.8)
56	-	56	56	2 - 18 UNS	1.755 (44.6)	2.00 (50.8)	2.31 (58.7)	1.938 (49.2)	1.13 (28.7)	1.75 (44.5)	2.19 (55.6)
64	-	64	64	2 1/4 - 16 UN	2.005 (50.9)	2.25 (57.2)	2.56 (65.0)	2.188 (55.6)	1.13 (28.7)	1.75 (44.5)	2.44 (62.0)
80	-	-	80	2 3/4 - 16 UN	2.505 (63.6)	2.75 (69.9)	3.06 (77.7)	2.688 (68.3)	1.13 (28.7)	1.75 (44.5)	3.00 (76.2)
96	-	-	96	3 1/4 - 16 UN	3.005 (76.3)	3.25 (82.6)	3.56 (90.4)	3.188 (81.0)	1.13 (28.7)	1.75 (44.5)	3.50 (88.9)

Table II: Finish

Sym	Finish
B	Olive Drab over Cadmium Plate
J	Gold Iridite over Cadmium Plate over Nickel
M	Electroless Nickel
N	Olive Drab over Cadmium Plate over Nickel
NC	Zinc Cobalt, Olive Drab
NF	Olive Drab over Cadmium Plate over Electroless Nickel (1000 Hour salt Spray)
T	Bright Dip Cadmium over Nickel
Z1	Passivate

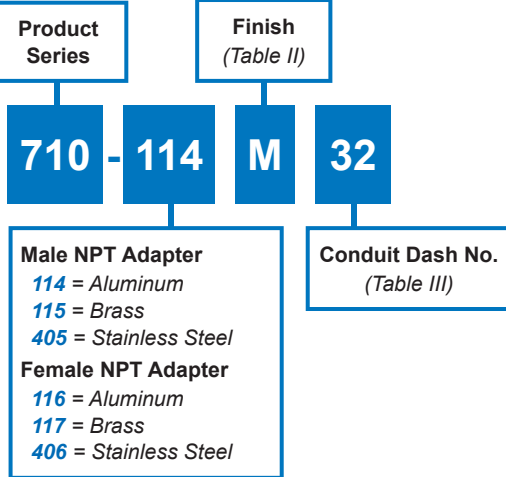


Male & Female Series Metal Straight Tapered Pipe Thread Adapters for Series 72 & 74 Tubing and Series 75 Conduit

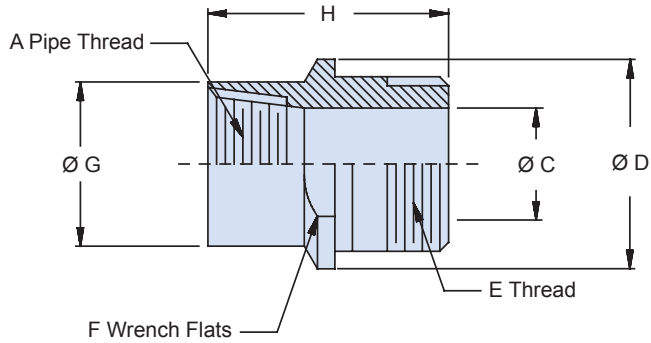
Metal straight tapered pipe thread adapters mate with transition fittings



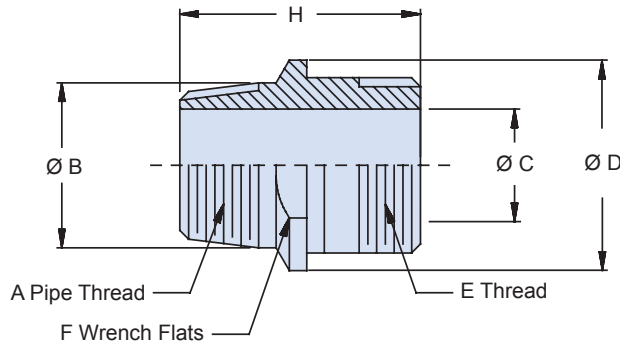
How To Order



710-116/117/406



710-114/115/405



**Male & Female Series
Metal Straight Tapered Pipe Thread Adapters
for Series 72 & 74 Tubing and Series 75 Conduit**



Table II: Finish	
Sym	Finish
B	Olive Drab over Cadmium Plate
J	Gold Iridite over Cadmium Plate over Nickel
M	Electroless Nickel
N	Olive Drab over Cadmium Plate over Nickel
NC	Zinc Cobalt, Olive Drab
NF	Olive Drab over Cadmium Plate over Electroless Nickel (1000 Hour salt Spray)
T	Bright Dip Cadmium over Nickel
Z1	Passivate

Table II: Conduit Dash No./Dimensions									
Conduit Dash No.	A Pipe Thread.	Ø B	Ø C	Ø D Max	E Thread Class 2A	F Dim	Ø G Max	H Max	
08	1/4	.540 (13.7)	.250 (6.4)	.72 (18.3)	1/2 - 20 UNF	.625 (15.9)	.625 (15.9)	1.31 (33.3)	
12	3/8	.675 (17.1)	.375 (9.5)	1.01 (25.7)	5/8 - 24 UNEF	.875 (22.2)	.875 (22.2)	1.31 (33.3)	
16	1/2	.840 (21.3)	.500 (12.7)	1.15 (29.2)	3/4 - 20 UNEF	1.000 (25.4)	1.000 (25.4)	1.38 (35.1)	
24	3/4	1.050 (26.7)	.750 (19.1)	1.44 (36.6)	1 - 20 UNEF	1.250 (31.8)	1.250 (31.8)	1.52 (38.6)	
32	1	1.315 (33.4)	1.000 (25.4)	1.73 (43.9)	1 5/16 - 18 UNEF	1.500 (38.1)	1.500 (38.1)	1.83 (46.5)	
40	1 1/4	1.660 (42.2)	1.250 (31.8)	2.02 (51.3)	1 1/2 - 18 UNEF	1.750 (44.5)	1.750 (44.5)	1.85 (47.0)	
48	1 1/2	1.900 (48.3)	1.500 (38.1)	2.60 (66.0)	1 3/4 - 18 UNS	2.250 (57.2)	2.125 (54.0)	1.85 (47.0)	
64	2	2.375 (60.3)	2.000 (50.8)	2.89 (73.4)	2 1/4 - 16 UN	2.500 (63.5)	2.500 (63.5)	1.85 (47.0)	

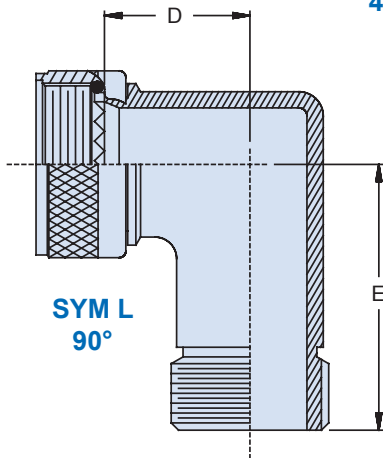
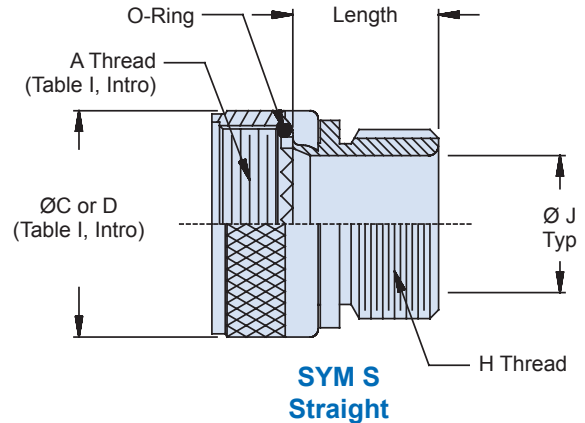
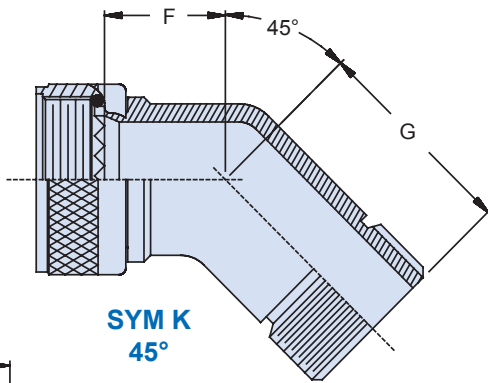
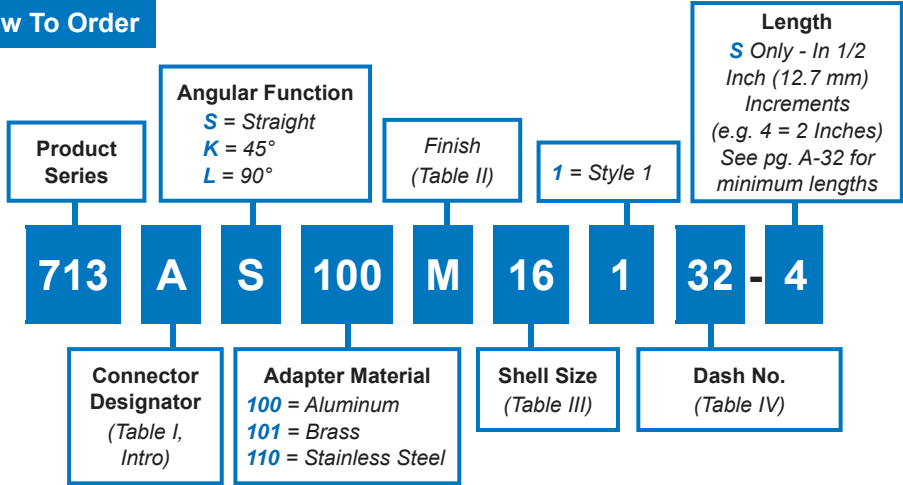


713-100 Metal Straight, 45°, and 90° Connector Adapters for use with Transition Fittings

Circular connector adapter, non-self-locking with environmental O-Ring for use with transition fittings



How To Order



Material and Finish

- Adapters, Coupling Nuts and Elbows - Table II (See P/N development)
- O-Ring - Silicone/N.A.

Notes

- Interface O-Ring not applicable to connector designator A.

E

713-100

Metal Straight, 45°, and 90° Connector Adapters for use with Transition Fittings



Shell Size		Max Dash No. Ref**	D Max	E Max	F Max	G Max
A, D, E, F, J, K, L, S	H					
08	09	08	.531 (13.5)	.781 (19.8)	.437 (11.1)	.625 (15.9)
10	11	12	.625 (15.9)	.906 (23.0)	.500 (12.7)	.656 (16.7)
12	13	16	.688 (17.5)	.906 (23.0)	.500 (12.7)	.719 (18.3)
14	15	20	.719 (18.3)	1.000 (25.4)	.562 (14.3)	.781 (19.8)
16	17	24	.906 (23.0)	1.062 (27.0)	.656 (16.7)	.844 (21.4)
18	19	24	.968 (24.6)	1.062 (27.0)	.656 (16.7)	.844 (21.4)
20	21	32	1.031 (26.2)	1.093 (27.8)	.719 (18.3)	.844 (21.4)
22	23	32	1.156 (29.4)	1.156 (29.4)	.812 (20.6)	.906 (23.0)
28	25	40	1.219 (31.0)	1.281 (32.5)	.812 (20.6)	.906 (23.0)
24	-	40	1.281 (32.5)	1.531 (38.9)	1.093 (27.8)	.906 (23.0)
32	-	48	1.593 (40.5)	1.719 (43.7)	1.093 (27.8)	1.219 (31.0)
36	-	64	1.718 (43.6)	1.906 (48.4)	1.156 (29.4)	1.281 (32.5)

** Dimensions D-E-F-G apply to connector Shell Size and Conduit Dash No. combinations listed.
When larger Conduit Dash Numbers are selected, consult factory for dimensions.

Dash No.	Conduit Size (Ref)			H Thread Class 2A	Ø J ± .015 (.4)
	72	74	75		
06	06	06	-	7/16 - 28 UNEF	.193 (4.9)
08	-	-	08	1/2 - 20 UNF	.255 (6.5)
09	09	09	09	9/16 - 24 UNEF	.286 (7.3)
10	-	10	-	9/16 - 24 UNEF	.317 (8.1)
12	12	12	12	5/8 - 24 UNEF	.380 (9.7)
14	14	14	-	11/16 - 24 UNEF	.442 (11.2)
16	16	16	16	3/4 - 20 UNEF	.505 (12.8)
20	20	20	20	7/8 - 20 UNEF	.630 (16.0)
24	24	24	24	1 - 20 UNEF	.755 (19.2)
28	28	28	-	1 3/16 - 18 UNEF	.880 (22.4)
32	32	32	32	1 5/16 - 18 UNEF	1.005 (25.5)
40	40	40	40	1 1/2 - 18 UNEF	1.255 (31.9)
48	48	48	48	1 3/4 - 18 UNS	1.505 (38.2)
56	-	56	56	2 - 18 UNS	1.755 (44.6)
64	-	64	64	2 1/4 - 16 UN	2.005 (50.9)
80	-	-	80	2 3/4 - 16 UN	2.505 (63.6)

*** Consult factory for adapters using 3.000 inch (76.2) conduit

Sym	Finish
B	Olive Drab over Cadmium Plate
J	Gold Iridite over Cadmium Plate over Nickel
M	Electroless Nickel
N	Olive Drab over Cadmium Plate over Nickel
NC	Zinc Cobalt, Olive Drab
NF	Olive Drab over Cadmium Plate over Electroless Nickel (1000 Hour salt Spray)
T	Bright Dip Cadmium over Nickel
Z1	Passivate





710-106/107/370 and 710-108/109/371 Metal "Y" and "T" Transitions for Series 72 & 74 Tubing and Series 75 Conduit

Metal "T" & "Y" Transitions for use with Transition Fittings



How To Order

Product Series

710

Finish
(Table II)

M

"B" End Dash No.

A24

B08

C16

Y Transition Material

106 = Aluminum
107 = Brass
370 = Stainless Steel

T Transition Material

108 = Aluminum
109 = Brass
371 = Stainless Steel

"A" End Dash No.

"C" End Dash No.

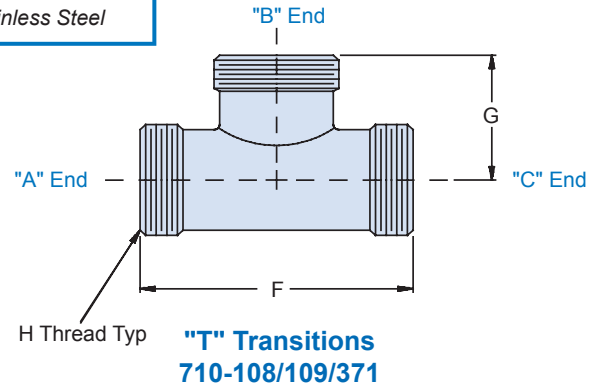
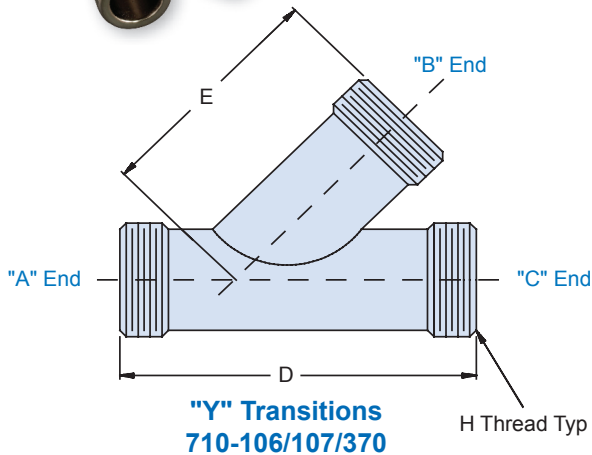


Table II: Finish

Sym	Finish
B	Olive Drab over Cadmium Plate
J	Gold Iridite over Cadmium Plate over Nickel
M	Electroless Nickel
N	Olive Drab over Cadmium Plate over Nickel
NC	Zinc Cobalt, Olive Drab
NF	Olive Drab over Cadmium Plate over Electroless Nickel (1000 Hour salt Spray)
T	Bright Dip Cadmium over Nickel
Z1	Passivate

Table III: Conduit Dash No./Dimensions

Dash No.	Conduit Size (Ref)			H Thread Class 2A	D Max	E Max	F Max	G Max
	72	74	75					
06	06	06	-	7/16 - 28 UNEF	1.97 (50.0)	1.20 (30.5)	1.33 (33.8)	.81 (20.6)
08	-	-	08	1/2 - 20 UNF	1.97 (50.0)	1.20 (30.5)	1.35 (34.3)	.84 (21.3)
09	09	09	09	9/16 - 24 UNEF	2.13 (54.1)	1.30 (33.0)	1.43 (36.3)	.88 (22.4)
10	-	10	-	9/16 - 24 UNEF	2.13 (54.1)	1.30 (33.0)	1.43 (36.3)	.88 (22.4)
12	12	12	12	5/8 - 24 UNEF	2.22 (56.4)	1.34 (34.0)	1.47 (37.3)	.91 (23.1)
14	14	14	-	11/16 - 24 UNEF	2.37 (60.2)	1.49 (37.8)	1.58 (40.1)	.94 (23.9)
16	16	16	16	3/4 - 20 UNEF	2.37 (60.2)	1.49 (37.8)	1.65 (41.9)	.94 (23.9)
20	20	20	20	7/8 - 20 UNEF	2.69 (68.3)	1.70 (43.2)	1.78 (45.2)	1.03 (26.2)
24	24	24	24	1 - 20 UNEF	2.75 (69.9)	1.84 (46.7)	1.85 (47.0)	1.13 (28.7)
28	28	28	-	1 3/16 - 18 UNEF	3.06 (77.7)	2.09 (53.1)	2.09 (53.1)	1.16 (29.5)
32	32	32	32	1 5/16 - 18 UNEF	3.28 (83.3)	2.23 (56.6)	2.43 (61.7)	1.16 (29.5)
40	40	40	40	1 1/2 - 18 UNEF	3.59 (91.2)	2.50 (63.5)	2.65 (67.3)	1.28 (32.5)
48	48	48	48	1 3/4 - 18 UNS	4.23 (107.4)	2.96 (75.2)	3.15 (80.0)	1.53 (38.9)
56	-	56	56	2 - 18 UNS	5.00 (127.0)	3.50 (88.9)	3.40 (86.4)	1.69 (42.9)
64	-	64	64	2 1/4 - 16 UN	5.00 (127.0)	3.50 (88.9)	3.75 (95.3)	1.87 (47.5)
80	-	-	80	2 3/4 - 16 UN	5.70 (144.8)	4.10 (104.1)	4.25 (108.0)	2.13 (54.1)

* Consult factory for adapters using 3.000 inch (76.2) conduit

710-077
Metal Multi-Branch Transitions
 for Series 72 & 74 Tubing and Series 75 Conduit



Metal Multi-Branch Transitions for use with Transition Fittings



How To Order

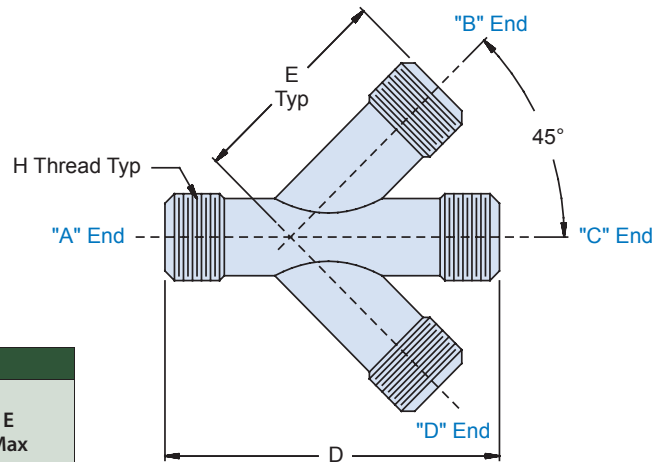
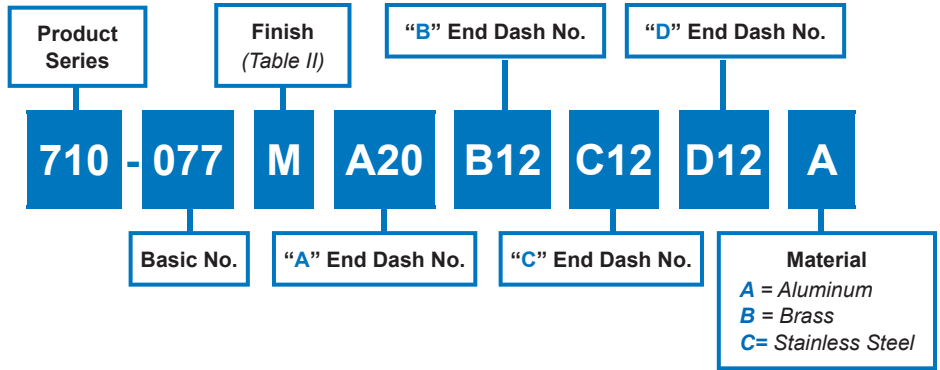


Table III: Conduit Dash No./Dimensions

Dash No.	Conduit Size (Ref)			H Thread Class 2A	D Max	E Max
	72	74	75			
06	06	06	-	7/16 - 28 UNEF	1.97 (50.0)	1.20 (30.5)
08	-	-	08	1/2 - 20 UNF	1.97 (50.0)	1.20 (30.5)
09	09	09	09	9/16 - 24 UNEF	2.13 (54.1)	1.30 (33.0)
10	-	10	-	9/16 - 24 UNEF	2.13 (54.1)	1.30 (33.0)
12	12	12	12	5/8 - 24 UNEF	2.22 (56.4)	1.34 (34.0)
14	14	14	-	11/16 - 24 UNEF	2.37 (60.2)	1.49 (37.8)
16	16	16	16	3/4 - 20 UNEF	2.37 (60.2)	1.49 (37.8)
20	20	20	20	7/8 - 20 UNEF	2.69 (68.3)	1.70 (43.2)
24	24	24	24	1 - 20 UNEF	2.75 (69.9)	1.84 (46.7)
28	28	28	-	1 3/16 - 18 UNEF	3.06 (77.7)	2.09 (53.1)
32	32	32	32	1 5/16 - 18 UNEF	3.28 (83.3)	2.23 (56.6)
40	40	40	40	1 1/2 - 18 UNEF	3.59 (91.2)	2.50 (63.5)
48	48	48	48	1 3/4 - 18 UNS	4.23 (107.4)	2.96 (75.2)
56	-	56	56	2 - 18 UNS	5.00 (127.0)	3.50 (88.9)
64	-	64	64	2 1/4 - 16 UN	5.00 (127.0)	3.50 (88.9)
80	-	-	80	2 3/4 - 16 UN	5.70 (144.8)	4.10 (104.1)

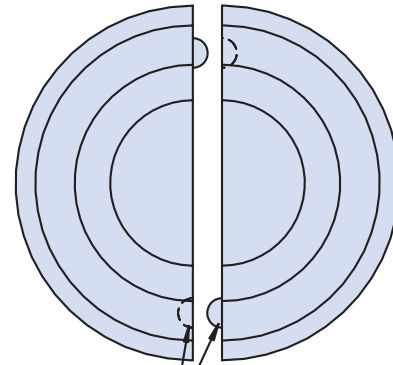
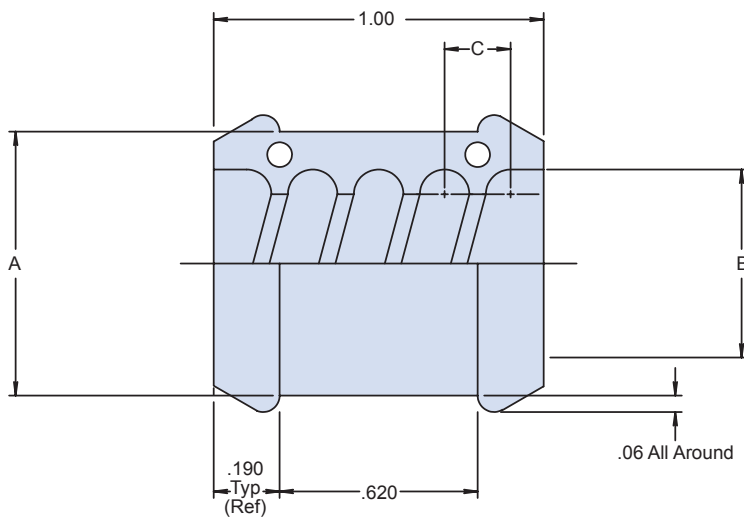
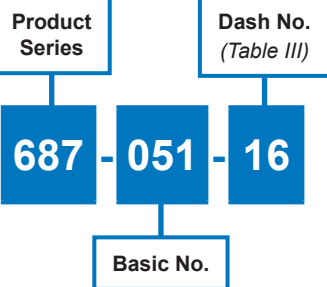
* Consult factory for adapters using 3.000 inch (76.2) conduit

Table II: Finish

Sym	Finish
B	Olive Drab over Cadmium Plate
J	Gold Iridite over Cadmium Plate over Nickel
M	Electroless Nickel
N	Olive Drab over Cadmium Plate over Nickel
NC	Zinc Cobalt, Olive Drab
NF	Olive Drab over Cadmium Plate over Electroless Nickel (1000 Hour salt Spray)
T	Bright Dip Cadmium over Nickel
Z1	Passivate



Split bushing for series 74 Helical Conduit

How To Order


Pin/Socket for Snap Assembly

Table III: Dimensions

Dash No.	A Ref	B Min	C Ref	Tube Size Ref
06	.450 (11.4)	.330 (8.42)	.100 (2.54)	3/16
09	.560 (14.2)	.439 (11.2)	.100 (2.54)	9/32
10	.580 (14.7)	.460 (11.7)	.100 (2.54)	5/16
12	.640 (16.3)	.517 (13.1)	.100 (2.54)	3/8
14	.700 (17.8)	.585 (14.9)	.100 (2.54)	7/16
16	.780 (19.8)	.660 (16.8)	.111 (2.82)	1/2
20	.900 (22.9)	.780 (19.8)	.111 (2.82)	5/8
24	1.06 (26.9)	.940 (23.9)	.125 (3.18)	3/4
28	1.20 (30.5)	1.085 (27.6)	.142 (3.61)	7/8
32	1.35 (34.3)	1.225 (31.1)	.142 (3.61)	1
40	1.73 (43.9)	1.640 (41.7)	.166 (4.22)	1 1/4

Material/Finish

Bushing: Kynar per ASTM-D-3222/N.A.

Notes

- Assembly to be tagged and bagged.
- Bushing designed to mate with MIL-T-81914/5-11** Tubing.
- Bushing may be suitable for use with other Slash Sheets at user's discretion.
- Not for use with PEEK convoluted tubing.

G70685
Split Bushing with Pin/Socket Snap Assembly
for Protection of Tie-Down Points for Series 72 Annular Conduit



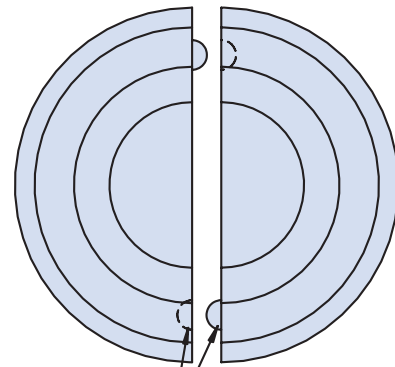
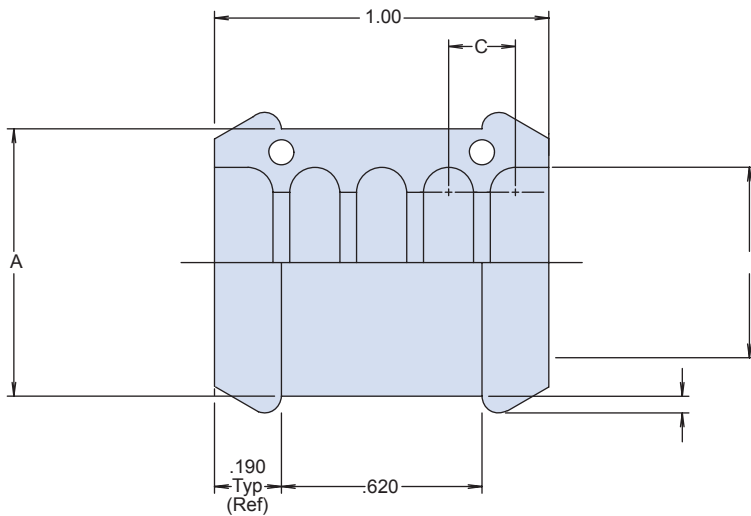
Split bushing for series 72 Annular Conduit

How To Order

Basic
No.

Dash No.
(Table III)

G70685 - 16



Pin/Socket for Snap Assembly

Table III: Dimensions

Dash No.	A Ref	B Min	C Ref
09	0.55 (14.0)	0.425 (10.8)	0.150 (3.8)
12	0.65 (16.5)	0.525 (13.3)	0.155 (3.9)
14	0.73 (18.5)	0.605 (15.4)	0.175 (4.4)
16	0.80 (20.3)	0.670 (17.0)	0.175 (4.4)
20	0.92 (23.4)	0.790 (20.1)	0.175 (4.4)
24	1.08 (27.4)	0.950 (24.1)	0.175 (4.4)
28	1.21 (30.7)	1.085 (27.6)	0.175 (4.4)
32	1.33 (33.8)	1.205 (30.6)	0.175 (4.4)
40	1.57 (39.9)	1.445 (36.7)	0.175 (4.4)
52	1.98 (50.3)	1.855 (47.1)	0.175 (4.4)

Material/Finish

Bushing: Kynar per ASTM-D-3222/N.A.

SERIES 72, 74 & 75

SPECIAL PURPOSE CONDUIT

MATERIALS, BACKSHELLS AND FITTINGS



Certain application environments, such as commercial aircraft, vehicles and transit systems require unique or special purpose materials to be used in all wire-protection interconnect systems. The use of low-smoke zero-halogen materials, for example, is a common requirement in transportation systems. This section of the Glenair high performance conduit catalog presents a selection of just some of the special purpose core materials and fitting designs available from Glenair. These products are generally not compatible or intermateable with the tubing and fittings found in the other sections of this book. However, if there is a particular functional design that is of interest, Glenair is certainly able to produce the part for use with our standard Series 74 and Series 75 materials. Please consult the factory for additional information.



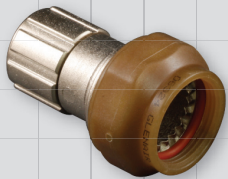
Special Purpose Backshells for Fiber Optics and Other Unique Applications

High Temperature Halogen-Free PEEK Polyetheretherketone is the only halogen free plastic tubing material supplied by Glenair. It is extremely light weight and crush resistant. The material is tough under an extreme range of conditions. PEEK far outperforms other plastics in its tolerance to high temperatures, and has a V-O flammability rating down to 0.057 inches without the use of additives. PEEK combines strength, toughness, chemical resistance, purity, wear resistance, and USP Class VI biocompatibility. The material maintains its properties under sustained pressure, elevated temperatures and most chemical environments. The mechanical and high temperature properties of this material make processing and manufacturing of PEEK tubing more costly than other polymers, but the weight savings, crush resistance, and zero halogen properties make it a worthwhile addition to many applications.

Fiber Optic Backshells The use of glass fiber media in interconnect systems calls for special purpose backshells and other accessories. Axial alignment of fiber media and termini, as well as the need to control micro bending in optical cabling has led to the development of a very specialized range of conduit-to-fiber optic-connector backshells, a small selection of which are presented in this chapter of the catalog.



Special Purpose PEEK Convoluted Tubing, pages F-4 – F-5



PEEK Convoluted Tubing Backshells for MIL-DTL-38999 Connectors, pages F-6 – F-9



MIL-PRF-28876 Fiber Optic Backshells, pages F-10 – F-13

Part No.	Description	Page No.
	Special Purpose Polymer and Metal-Core Material Types and Configurations	F-2 – F-3
PEEK Convoluted Tubing		
120-108	Standard Diameter PEEK Convoluted Tubing	F-4
120-132	Ultra Small Diameter PEEK Convoluted Tubing	F-5
Convoluted Tubing Backshells for Fiber Optic Applications		
712-416	PEEK Convoluted Tubing-to-Connector Backshell for Light Duty Applications	F-6
377-014	MIL-DTL-38999 Composite Fiber Optic Backshell with Grommet	F-8
MIL-PRF-28876 Fiber Optic Backshells		
189-014	Metal MIL-PRF-28876 Fiber Optic Backshell With Compression Nut, Straight	F-10
189-021	Metal MIL-PRF-28876 Fiber Optic Backshell With Compression Nut, 90° and 45°	F-12
Other Special Purpose Backshells and Systems		
189 M*052	Series 80 Mighty Mouse fiber optic backshell	F-14
	Series 72 Guardian System overview	F-16

Glenair produces the industry's broadest range of polymer-core tubing and flexible metal conduit and fittings. Here we present additional options not yet addressed in this catalog. Glenair's conduit engineers can design and create numerous conduit configurations to meet the toughest interconnect challenges.

SPECIAL PURPOSE

POLYMER AND METAL-CORE MATERIAL TYPES AND CONFIGURATIONS

Wire-reinforced convoluted polymer-core tubing



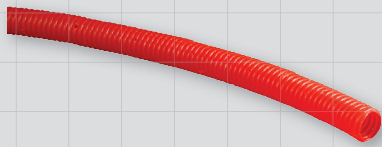
Reference Part No.

(Consult factory for additional materials and configurations)

127 - 009

Many customers prefer to use lightweight, flexible polymer-core tubing for their wire-routing application, but want to add crush strength similar to that found in metal-core conduit. Glenair has developed a unique configuration where helical polymer-core tubing is reinforced with a stainless steel wire, adding at least 200 lbs. crush strength while maintaining the lightweight, chemical-resistant and environmental protection properties of polymer core tubing. Wire-reinforced tubing can be braided for EMI/RFI shielding, and jacketed for environmental protection.

Convoluted polymer-core tubing with drain holes



Reference Part No.

(Consult factory for additional materials and configurations)

120 - 143

For aerospace applications where altitude changes can cause moisture condensation within conduit, Glenair produces convoluted polymer-core tubing with drain holes. All major aircraft OEM hole patterns are on file, contact the factory for details on specific configurations.

F

Slit polymer core tubing

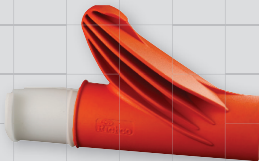


Reference Part No.

(Consult factory for additional materials and configurations)

120 - 144

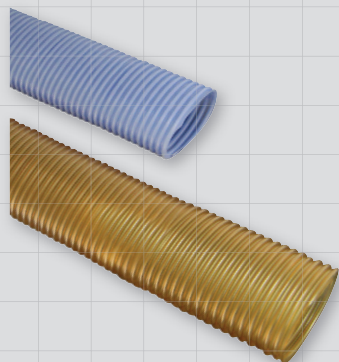
Any of Glenair's regular bulk helical or annular polymer-core tubings can be provided slit, for on-site installation or addition of wires in open wire loom applications. Use the Wire Loom Tool for easy wire insertion: simply gather the wires into the tool, insert into the slit conduit, and run the tool through the tubing.



Wire Loom Tool

Part Number	Max Bundle Dia.
600-180-08	3/8 in (8mm)
600-180-15	5/8 in (15mm)
600-180-20	3/4 in (20mm)
600-180-25	1 in (25 mm)
600-180-32	1 1/4 in (32mm)

Oval polymer core annular tubing



Reference Part No.
(Consult factory for additional materials and configurations)

120 - 140 - 40

For specialized wire routing applications, Glenair can fabricate annular tubing with an oval shaped profile. In-house manufacturing allows us to design and fabricate non-standard shapes.

"No-Hal" halogen free flexible helical PEEK tubing assembly

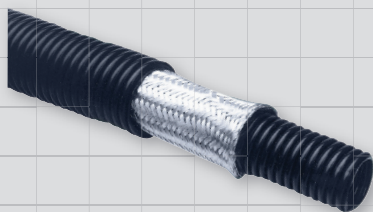


Reference Part No.
(Consult factory for additional materials and configurations)

127 - 130

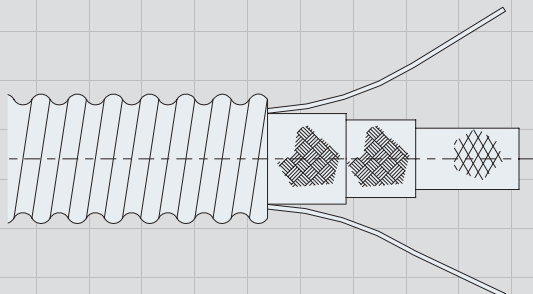
The Glenair "No Hal" tubing assembly is designed for applications where RoHS compliance or other environmental standards mandate a halogen-free configuration. Halogen-free PEEK tubing (with optional stainless steel wire reinforcement for crush strength) is combined with Glenair halogen-free Duralectric™ jacketing material. Add an optional braided shield for EMI/RFI protection.

Dual-core tubing



In applications where helical convoluted tubing needs to perform in harsh chemical environments, and weight savings is a concern, dual-core conduit is the answer. Glenair Series 74 polymer-core tubing materials are chemical- and UV resistant, and protecting the outside of tubing with a second layer of polymer tubing can save weight over standard jacketing. Consult the factory for polymer core and braided shield material options.

Polymer-core tubing with pre-installed lanyards or stress members



Glenair can supply lengths of polymer-core tubing with pre-installed mule tape lanyards to make on-site installation of wire bundles through tubing easier. Polymer tubing can also be supplied with stress members in Nomex, Kevlar, or CRES stainless steel to provide conduit with enhanced pull strength and stress resistance.



120-108
Standard Diameter
PEEK Helical Convoluted Tubing
for Fiber Optic applications

Standard diameter low-smoke, zero-halogen tubing with outstanding crush resistance

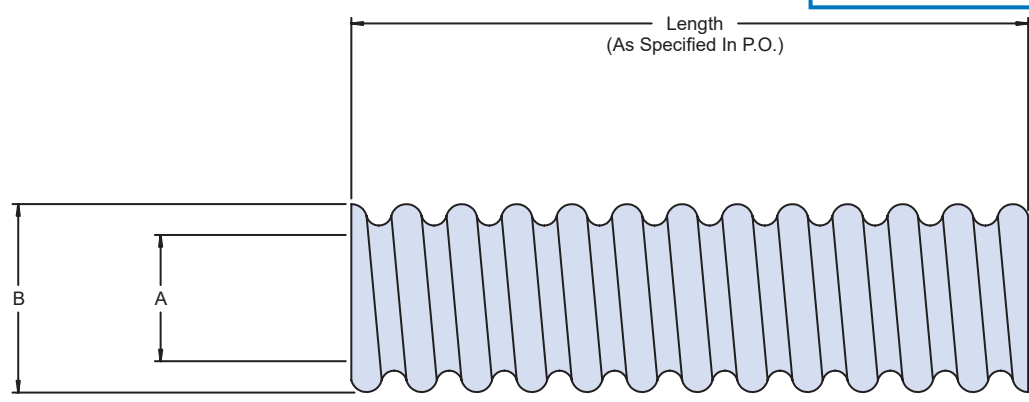
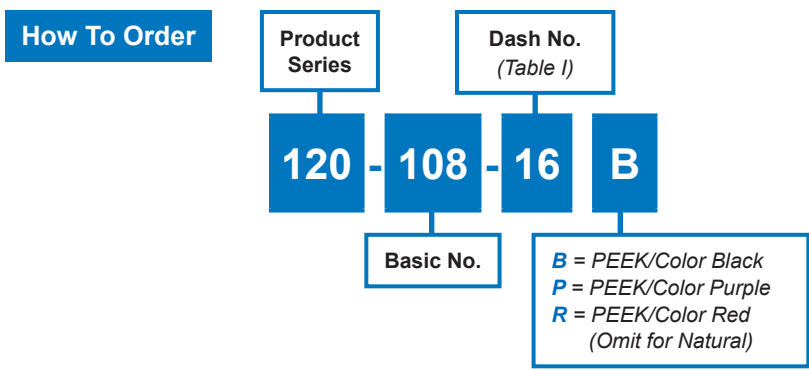


Table I

Tubing Size	Fractional Size Ref	A Inside Dia		B Dia Max
		Min	Nom	
06	3/16	.181 (4.6)	.187 (4.7)	.307 (7.8)
09	9/32	.273 (6.9)	.281 (7.1)	.405 (1.3)
10	5/16	.300 (7.6)	.312 (7.9)	.440 (11.2)
12	3/8	.364 (9.2)	.375 (9.5)	.500 (12.7)
16	1/2	.485 (12.3)	.500 (12.7)	.630 (16.0)
20	5/8	.608 (15.4)	.625 (15.9)	.750 (19.1)
24	3/4	.730 (18.5)	.750 (19.1)	.890 (22.6)
28	7/8	.855 (21.7)	.875 (22.2)	1.060 (26.9)
32	1	.980 (24.9)	1.000 (25.4)	1.195 (3.4)
40	1 1/4	1.220 (31.0)	1.250 (31.8)	1.500 (38.1)
48	1 1/2	1.480 (37.6)	1.500 (38.1)	1.780 (45.2)
56	1 3/4	1.735 (44.1)	1.750 (44.5)	2.020 (51.3)
64	2	1.980 (5.3)	2.000 (5.8)	2.280 (57.9)

Packaging / Notes

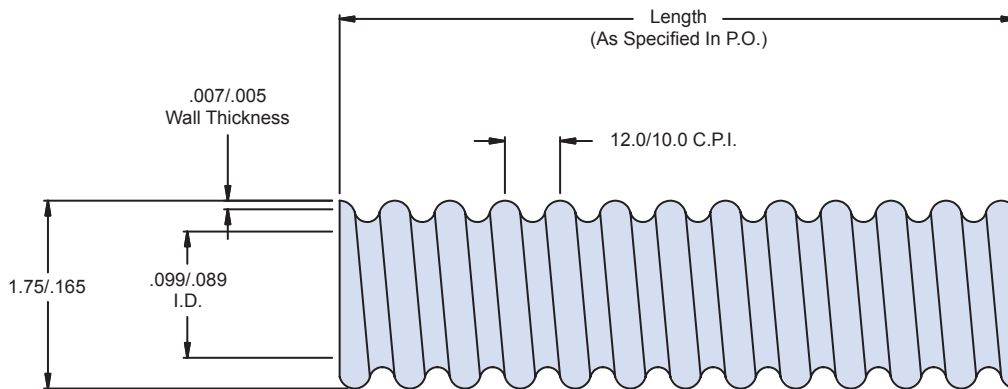
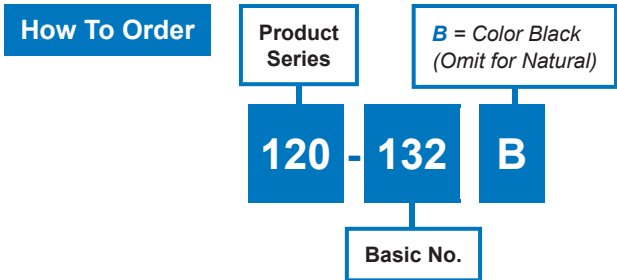
- Packages and Spools identified with manufacturer's name and P/N. Unless otherwise specified, Conduit will be shipped per standard package. Length to be as follows: 3/16 to 3/4 I.D.; 80 ft. min. 1 to 2 I.D.; 40 ft. min.

F

120-132
 Ultra Small Diameter
 PEEK Helical Convolute Tubing
 for Fiber Optic applications



Low-smoke, zero-halogen tubing with outstanding crush resistance and special purpose ultra small O.D. and I.D. for fiber optic applications



Packaging / Notes

- Packages and Spools identified with manufacturer's name and P/N.
- Unless otherwise specified, Conduit will be shipped per standard package. Minimum length supplied will be 10 feet (3 m), with a maximum length of four lengths per package.

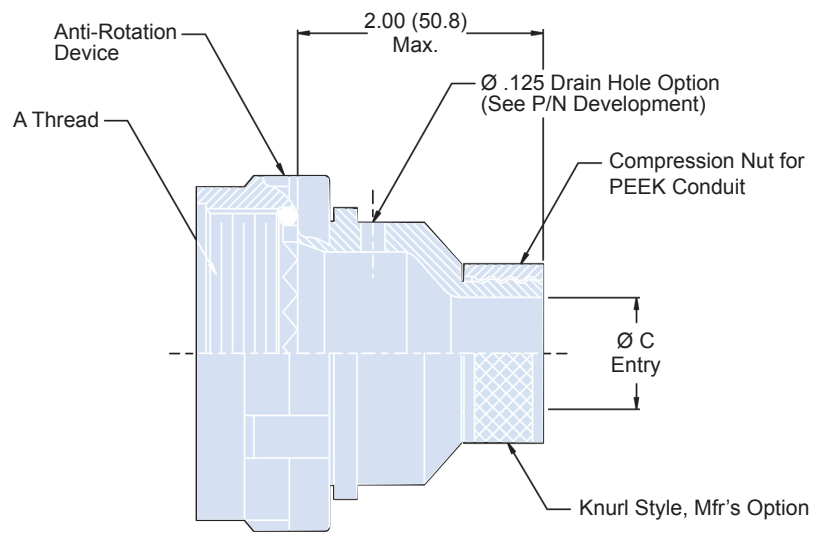
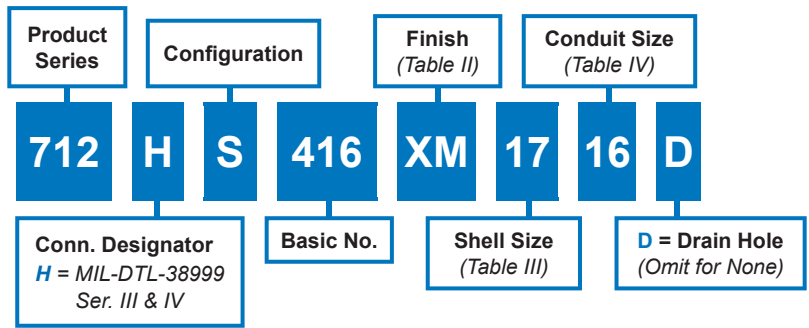


712-416
PEEK Convuluted Tubing-to-Connector Backshell
for MIL-DTL-38999 Series III & IV, Composite

Composite PEEK convuluted tubing-to-connector backshell with compression nut for easy termination of PEEK conduit. For MIL-DTL-38999 Series III & IV connectors only



How To Order



F

Material and Finish

- Adapter, Coupling and Compression Nut: High-Grade Engineering Thermoplastic
- O-Ring: Fluorosilicone
- Anti-Rotation Device: Corrosion Resistant Material
- Unless otherwise specified, the Backshell Body to be supplied finished per Table II - all other components to be supplied without plating.

712-416

PEEK Convuluted Tubing-to-Connector Backshell
for MIL-DTL-38999 Series III & IV, Composite



Special Applications

Table II: Finish

SYM	Finish Description
XM	Electroless Nickel
XW	Cadmium O.D. Over Electroless Nickel
XB	No Plating-Black
XO	No Plating-Natural

Table III: Shell Size

Shell Size	A Thread ISO Metric	Ø B Dim.
11	M15 x 1 - 6H	.98 (24.0)
13	M18 x 1 - 6H	1.16 (28.4)
15	M22 x 1 - 6H	1.28 (32.5)
17	M25 x 1 - 6H	1.41 (35.8)
19	M28 x 1 - 6H	1.52 (38.6)
21	M31 x 1 - 6H	1.64 (41.7)
23	M34 x 1 - 6H	1.77 (43.4)
25	M37 x 1 - 6H	1.89 (48.0)

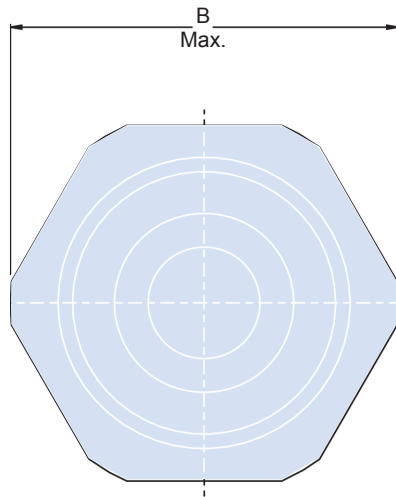


Table IV: PEEK Conduit Size

Dash No.	Fractional Size	Ø C Dim. Entry
06	3/16	.100 (2.5)
09	9/32	.171 (4.2)
10	5/16	.200 (5.8)
12	3/8	.265 (6.7)
16	1/2	.390 (9.6)
20	5/8	.515 (12.6)
24	3/4	.640 (15.7)
28	7/8	.765 (18.7)
32	1	.890 (21.8)

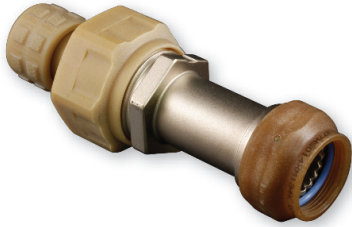
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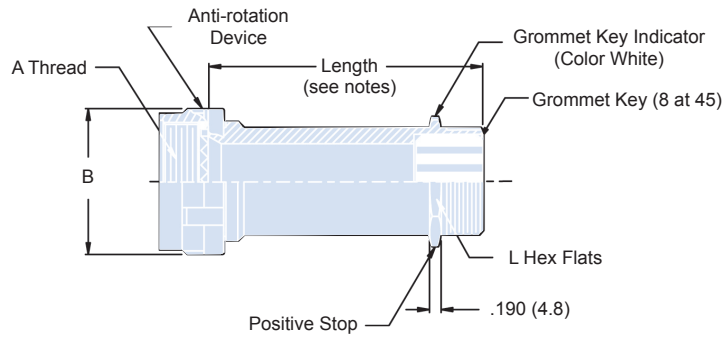
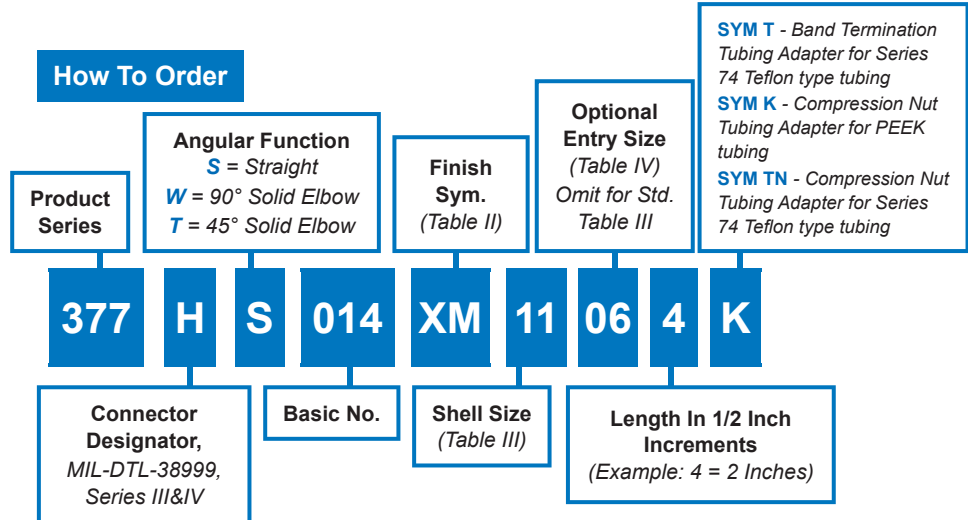
377-014

**Convuluted Tubing-to-Connector Backshell
for Fiber Optic MIL-DTL-38999 Series III & IV Connectors**

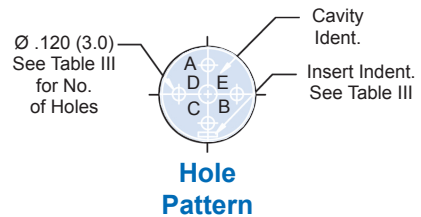
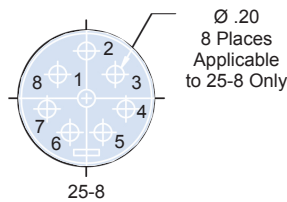
Convuluted tubing-to-connector backshell, fiber optic, composite with grommet



How To Order



Sym S - Straight



Material and Finish

- Adapters, Elbows, Coupling Nut, Nut: Hi-grade engineering thermoplastic/see table II
- Grommet, O-Ring: Fluorosilicone/N.A.
- Anti-Rotation Device: Corrosion resistant material/N.A.

Notes

- Standard minimum length: 1.5 inches, for shorter length consult factory.
- For Sealing Plugs, see Glenair drawing 687-142.

377-014

**Convolution Tubing-to-Connector Backshell
for Fiber Optic MIL-DTL-38999 Series III & IV Connectors**



Special Applications

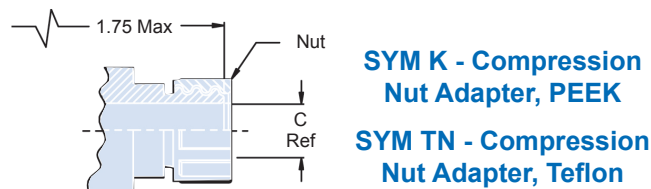
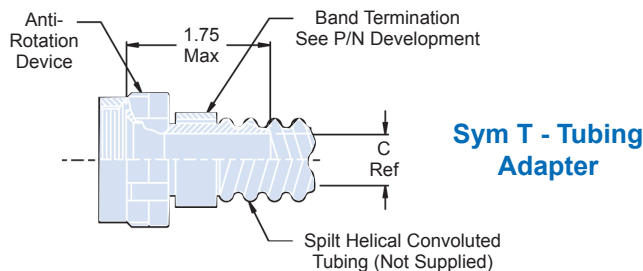
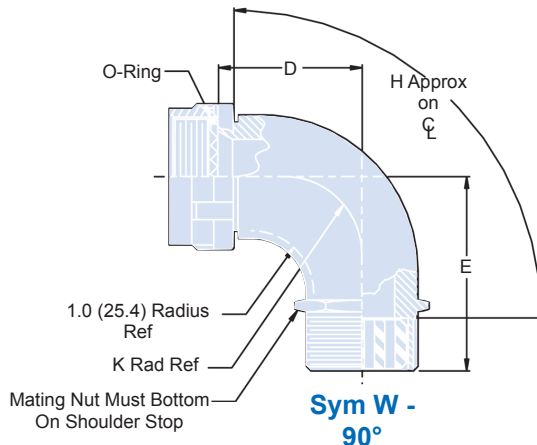
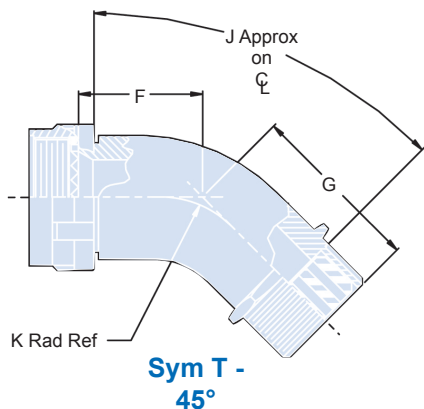


Table III: Shell Size

Shell Size	A Thread Iso Metric	B Max	Tubing Size	D Max	E Max	F Max	G Max	H Approx	J Radius	K Radius	L Flats	Insert Indent	Hole Count
11	M15 X 1 - 6H	1.00 (25.4)	3/8	1.78 (45.2)	1.93 (49.0)	1.33 (33.8)	1.56 (39.6)	2.23 (56.6)	2.09 (53.1)	1.20 (30.5)	.938 (23.8)	11-2	2
13	M18 X 1 - 6H	1.12 (28.4)	7/16	1.84 (46.7)	1.98 (50.3)	1.39 (35.3)	1.62 (41.1)	2.28 (57.9)	2.21 (56.1)	1.26 (32.0)	.938 (23.8)	13-4	4
15	M22 X 1 - 6H	1.25 (31.8)	1/2	1.90 (48.3)	2.08 (52.8)	1.45 (36.8)	1.68 (42.7)	2.45 (62.2)	2.33 (59.2)	1.32 (33.5)	.938 (23.8)	15-5	5
17	M25 X 1 - 6H	1.38 (35.1)	5/8	1.97 (50.0)	2.14 (54.4)	1.51 (38.4)	1.74 (44.2)	2.47 (62.7)	2.44 (62.0)	1.38 (35.1)	1.250 (31.8)	17-8	8
19	M28 X 1 - 6H	1.50 (38.1)	3/4	2.11 (53.6)	2.18 (55.4)	1.54 (39.1)	1.77 (45.0)	2.54 (64.5)	2.50 (63.5)	1.43 (36.3)	1.250 (31.8)	19-11	11
21	M31 X 1 - 6H	1.62 (41.0)	7/8	2.07 (52.6)	2.25 (57.2)	1.61 (40.9)	1.84 (46.7)	2.64 (67.1)	2.64 (67.1)	1.49 (37.8)	1.500 (38.1)	21-16	16
23	M34 X 1 - 6H	1.75 (44.5)	1	2.14 (54.4)	2.31 (58.7)	1.67 (42.4)	1.89 (48.0)	2.76 (70.1)	2.75 (69.9)	1.55 (39.4)	1.500 (38.1)	23-21	21
25	M37 X 1 - 6H	1.88 (47.8)	1	2.19 (55.6)	2.19 (55.6)	1.73 (43.9)	1.96 (49.8)	2.84 (72.1)	2.87 (72.9)	1.62 (41.1)	1.812 (46.0)	25-29	29
25-8	M37 X 1 - 6H	1.88 (47.8)	1 1/4	2.19 (55.6)	2.19 (55.6)	1.73 (43.9)	1.96 (49.8)	2.84 (72.1)	2.87 (72.9)	1.62 (41.1)	1.812 (46.0)	25-8	8
25-37	M37 X 1 - 6H	1.88 (47.8)	1 1/4	2.19 (55.6)	2.19 (55.6)	1.73 (43.9)	1.96 (49.8)	2.84 (72.1)	2.87 (72.9)	1.62 (41.1)	1.812 (46.0)	25-37	37

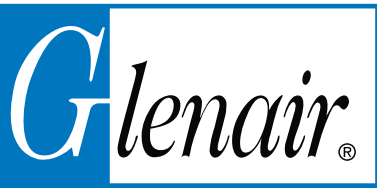
Table IV: Entry Size

Entry Size	C Ref Sym T & TN	C Ref Sym K	Optional Conduit Size Ref.
03	.219 (5.6)	.188 (4.8)	9/32
04	.236 (6.0)	-	5/32
05	.250 (6.4)	.265 (6.7)	3/8
06	.338 (8.6)	.330 (8.4)	7/16
07	.398 (10.0)	.390 (9.9)	1/2
08	.523 (13.2)	.515 (13.1)	5/8
10	.648 (16.4)	.640 (16.3)	3/4
11	.648 (16.4)	.640 (16.3)	3/4
13	.778 (19.6)	.765 (19.4)	7/8
15	.875 (22.7)	.890 (22.6)	1
17	1.078 (28.0)	1.125 (28.6)	1 1/4

Table II: Finish Description

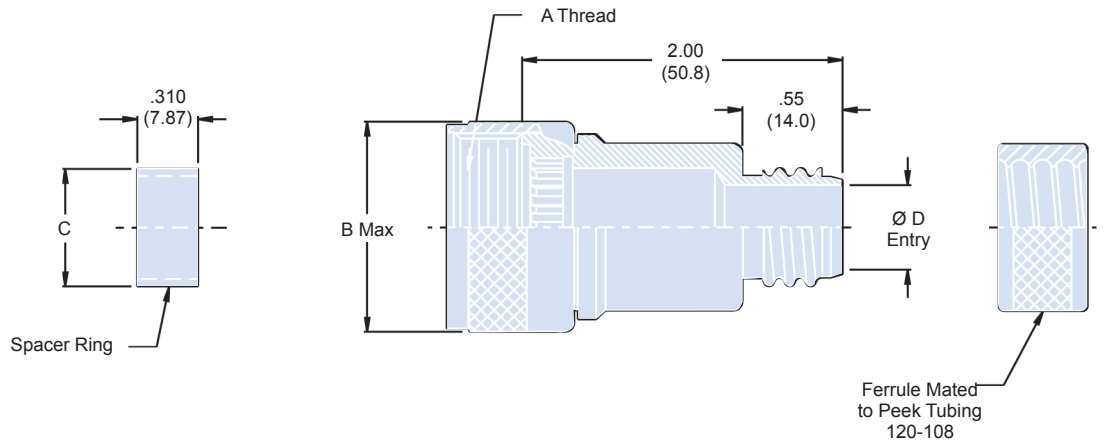
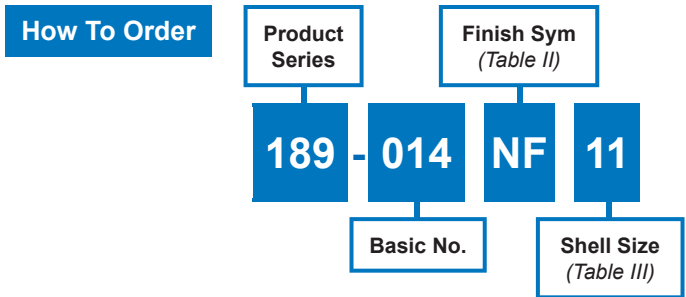
Sym	Finish Description
-	Dash (-) For No Plating
XB	No Plating - Black Color
XM	Electroless Nickel Backshell No Plating Supplied On Coupling Nut Or Rear Entry Components - Amber Color
XW	Cadmium Olive Drab Over Electroless Nickel Backshell - No Plating Supplied on Coupling Nut or Rear Entry Components - Amber Color
XMT	Copper Flash - GPS52-XMT (JCP-3)

F



189-014
Straight Backshell for PEEK Convulated Tubing
 to be used with MIL-PRF-28876 Fiber Optic Connectors

MIL-PRF-28876 fiber optic backshell, straight, with compression nut for easy termination of PEEK convoluted tubing



F

Material/Finish

- Adapter, Coupling Nut, Ferrule and Spacer Ring: See Table II

Notes

- Spacer Ring is packaged loose and must be installed with Connector at time of assembly to retain Terminus Insert.
- For 45° or 90° Backshell option, see Glenair drawing 189-021

189-014

**Straight Backshell for PEEK Convuluted Tubing
to be used with MIL-PRF-28876 Fiber Optic Connectors**



Special
Applications

Table III: Shell Size/Dimensions/Conduit Size

Shell Size	Designator (Ref)	A Thread Class 2B	Ø B Max	Ø C Max	Ø D Entry	PEEK Conduit Size	
						Frac. Size	Dash No.
11	A	3/4-20 UNEF	.960 (24.4)	.410 (10.4)	.390 (9.91)	1/2	16
13	B	7/8-20 UNEF	1.085 (27.6)	.532 (13.5)	.390 (9.91)	1/2	16
15	C	1-20 UNEF	1.255 (31.9)	.710 (18.0)	.390 (9.91)	1/2	16
23	F	1 7/16-18 UNEF	1.695 (43.1)	1.116 (28.3)	.890 (22.6)	1	32

Table II: Material/Finish

Class	Shell Material	Finish Description
B	AL Alloy	Cadmium Plate/Olive Drab
J		Gold Iridite over Cadmium Plate over Nickel
M		Electroless Nickel
N		Cadmium Plate/Olive Drab over Nickel
NF		Cadmium/Olive Drab over Electroless Nickel (1000 Hours Salt Spray)
T		Cadmium Plate/Bright Dip over Nickel
ZL	CRES (SS)	Nickel Plate (Stainless Steel)

F

MIL-PRF-28876 fiber optic backshell, 90° and 45°, with compression nut for easy termination of PEEK convolute tubing

How To Order

Product Series

189

Basic No.

M

021

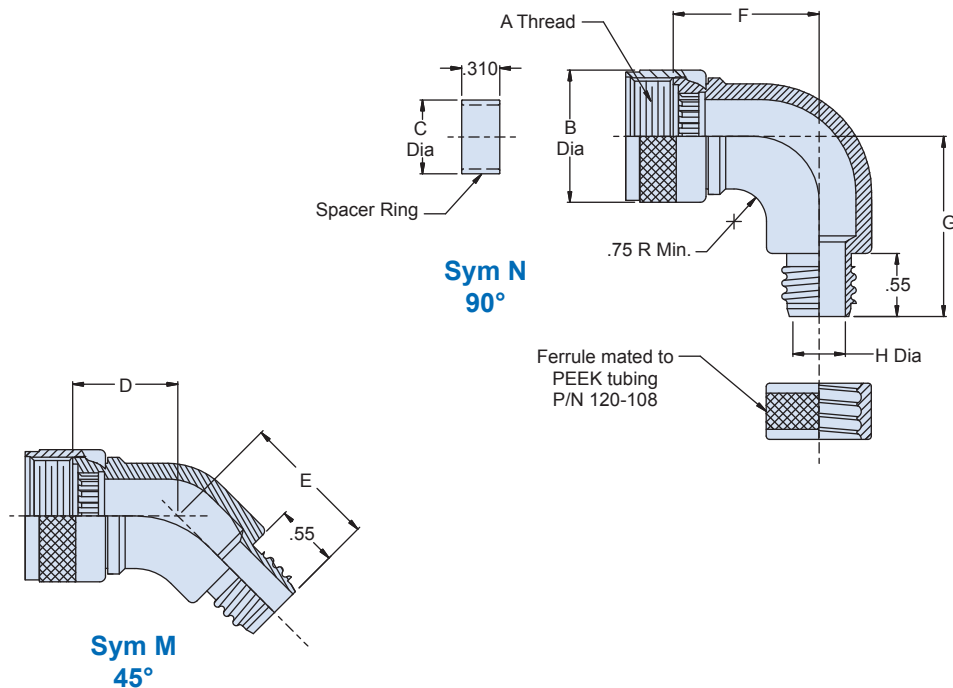
Finish Sym
(Table II)

NF

11

Angular Function
N or M

Shell Size
(Table III)



Material/Finish

- Adapter, Coupling Nut, and Ferrule: See Table II
- Spacer Ring: Al Alloy/Gold Iridite

Notes

- Spacer Ring is packaged loose and must be installed with Connector at time of assembly to retain Terminus Insert.
- For Straight Backshell option, see Glenair drawing 189-014

189-021

90° and 45° Backshell for PEEK Convolute Tubing
to be used with MIL-PRF-28876 Fiber Optic Connectors



Special Applications

Table III: Shell Size/Dimensions/Conduit Size

Shell Size	Designator (Ref)	A Thread Class 2B	Ø B Max	Ø C Max	D Max	E Max	F Max	G Max	H Max	PEEK Conduit Size	
										Frac. Size	Dash No.
11	A	3/4-20 UNEF	.960 (24.4)	.410 (10.4)	0.900 (22.9)	0.950 (24.1)	1.985 (50.4)	2.035 (51.7)	.390 (9.91)	1/2	16
13	B	7/8-20 UNEF	1.085 (27.6)	.532 (13.5)	0.960 (24.4)	1.010 (25.7)	2.110 (53.6)	2.160 (54.9)	.390 (9.91)	1/2	16
15	C	1-20 UNEF	1.255 (31.9)	.710 (18.0)	1.020 (25.9)	1.070 (27.2)	2.115 (53.7)	2.165 (55.0)	.390 (9.91)	1/2	16
23	F	17/16-18 UNEF	1.695 (43.1)	1.116 (28.3)	1.270 (32.3)	1.320 (33.5)	2.485 (63.1)	2.535 (64.4)	.890 (22.6)	1	32

Table II: Material/Finish

Class	Shell Material	Finish Description
B	AL Alloy	Cadmium Plate/Olive Drab
J		Gold Iridite over Cadmium Plate over Nickel
M		Electroless Nickel
N		Cadmium Plate/Olive Drab over Nickel
NF		Cadmium/Olive Drab over Electroless Nickel (1000 Hours Salt Spray)
T		Cadmium Plate/Bright Dip over Nickel

F

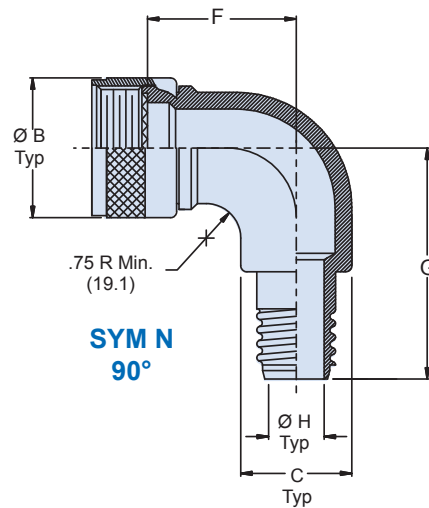
189 M* 052
Convolute Tubing Backshell
 for Series 80 Mighty Mouse Fiber Optic Connectors



Table III: Shell Size							
Shell Size	A Thread Class 2B	Ø B Max	C	D Max	E Max	F Max	G Max
12	.6875-24 UNEF-2A	.910 (23.1)	.620 (15.7)	.910 (23.1)	1.250 (31.8)	1.985 (50.4)	2.395 (60.8)
14	.9375-20 UNEF-2A	1.250 (31.8)	.875 (22.2)	1.020 (25.9)	1.370 (34.8)	2.115 (53.7)	2.465 (62.6)
15	.9375-20 UNEF-2A	1.250 (31.8)	.875 (22.2)	1.020 (25.9)	1.370 (34.8)	2.115 (53.7)	2.465 (62.6)

Table II: Finish	
SYM	Finish
B	Cadmium Plate/Olive Drab
J	Gold Iridite over Cadmium Plate over Nickel
M	Electroless Nickel
N	Cadmium Plate/Olive Drab over Nickel
NF	Cadmium/Olive Drab over Electroless Nickel (1000 Hours Salt Spray)
T	Cadmium Plate/Bright Dip over Nickel

Table IV: PEEK Conduit Size		
Frac. Size	Dash No.	Ø H Max
3/8	12	.320 (8.1)
1/2	16	.425 (10.8)
5/8	20	.550 (14.0)
3/4	24	.680 (17.3)

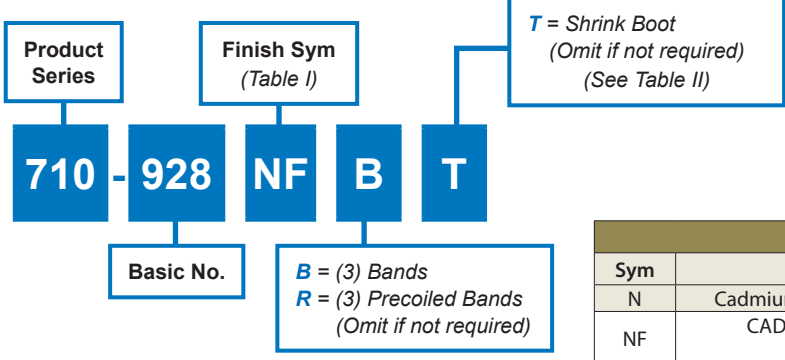




710-928 Guardian Transition Aluminum Transition for Annular Convuluted Tubing

Guardian Transition for Glenair Annular Convuluted Tubing

How To Order

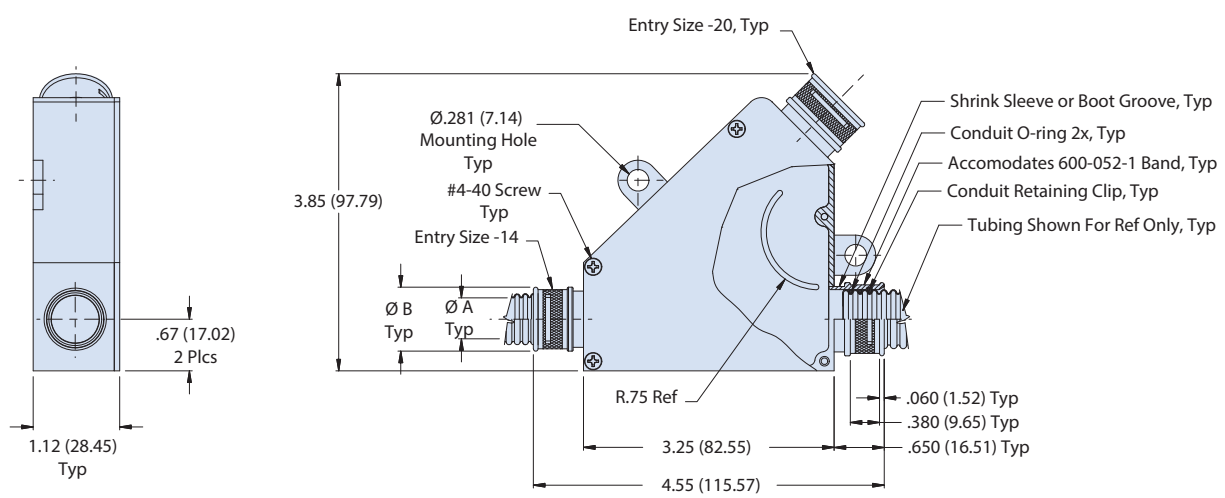
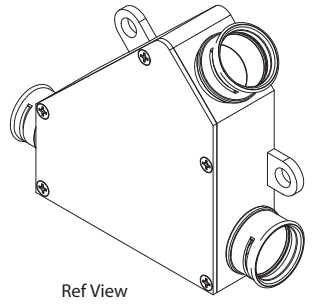
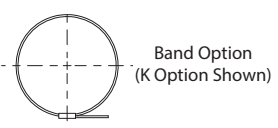


Sym	Finish Description
N	Cadmium Plate/Olive Drab Over Nickel
NF	CAD/O.D. over Electroless Nickel (1000 hr salt spray)
M	Electroless Nickel

Entry Size	A Dia		B Dia. Max	Shrink Boot Reference
	Min	Max		
-14	.40 (10.16)	.44 (11.18)	.81 (20.57)	770-001S104
-20	.57 (14.48)	.62 (15.75)	.98 (24.89)	770-001S105

Notes

- Glenair 600 series backshell assembly tools recommended
- Conduit retaining clip and conduit O-rings to be supplied un-assembled
- Glenair assembly procedure AP74-010 is recommended for adapter to conduit termination
- Material/Finish:
 - Transition: Aluminum alloy/See Table I
 - Retaining clip: high grade engineering thermoplastic/n.a.
 - O-ring: silicone/N.A.
 - Hardware: Cres/passivated



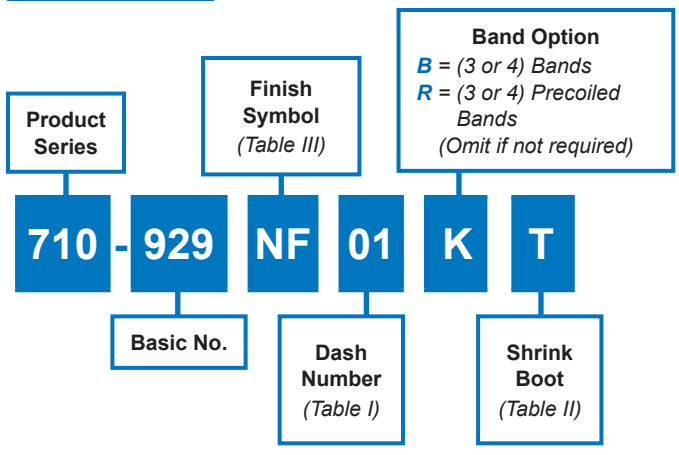
F

710-929 Guardian Transition, Split Body Aluminum Transition for Annular Convolute Tubing



Guardian Transition for Glenair Annular Convolute Tubing

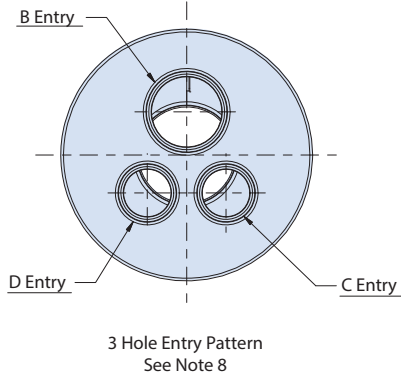
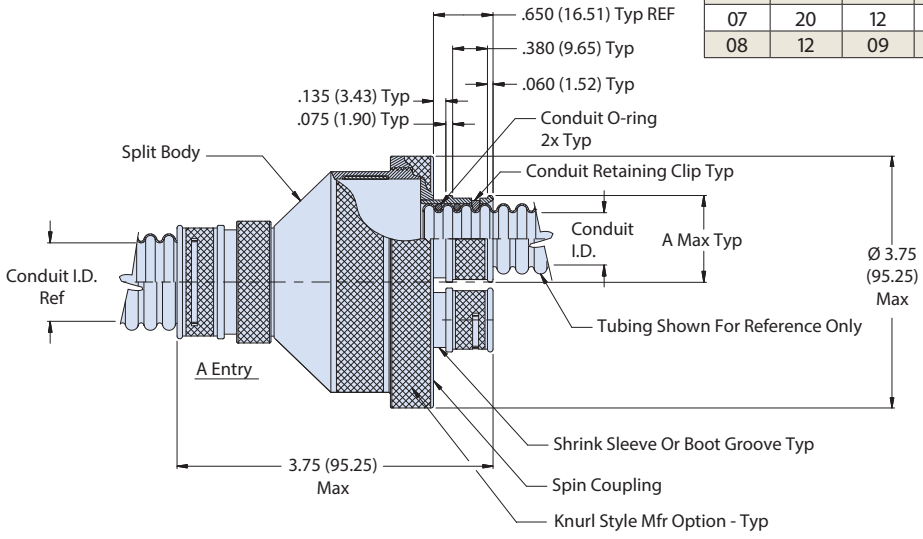
How To Order



Entry Size	Conduit I.D.		A Dia Max	Shrink Boot Ref
	Min	Max		
-09	.24 (6.10)	.28 (7.11)	.63 (16.00)	770-001S103
-12	.33 (8.38)	.37 (9.40)	.73 (18.54)	770-001S104
-14	.40 (10.16)	.44 (11.18)	.79 (20.07)	770-001S104
-20	.57 (14.48)	.62 (15.75)	.98 (24.89)	770-001S105
-24	.69 (17.53)	.75 (19.05)	1.15 (29.21)	770-001S106
-28	.81 (20.57)	.87 (22.10)	1.27 (32.26)	770-001S107

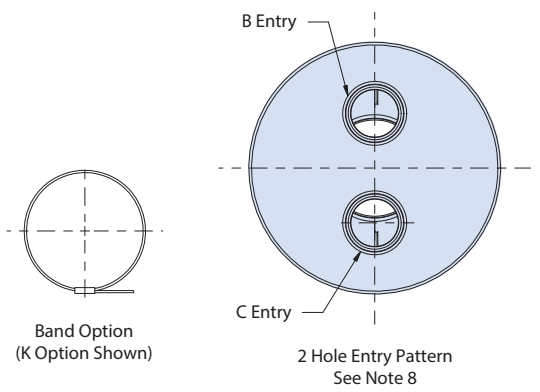
Dash No	Entry A	Entry B	Entry C	Entry D
01	09	09	09	N/A
03	14	12	12	N/A
04	28	24	14	N/A
05	28	24	24	N/A
06	24	20	12	12
07	20	12	12	12
08	12	09	09	09

Sym	Finish Description
N	Cadmium Plate/ Olive Drab Over Nickel Plate
NF	CAD/O.D. over Electoless Nickel (1000 hr salt spray)



Notes

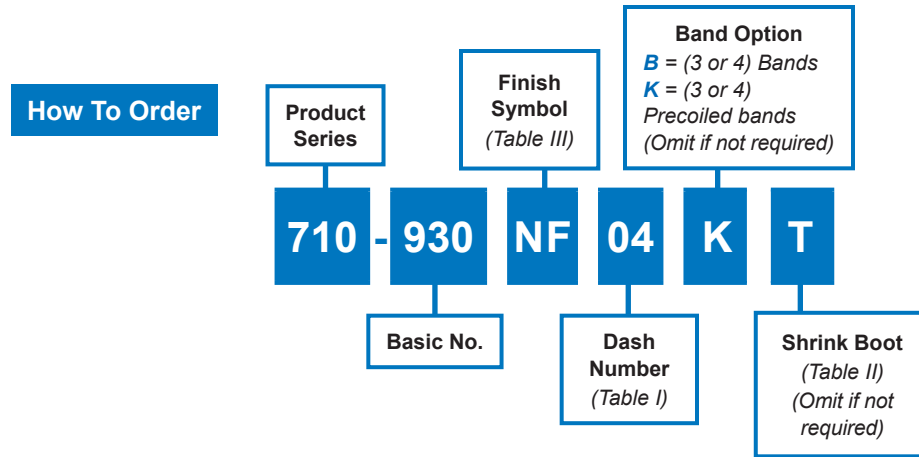
- Glenair 600 series backshell assembly tools recommended
- Conduit retaining clip and conduit O-rings to be supplied un-assembled
- For effective grounding, connector with conductive finish should be used
- Glenair assembly procedure AP74-010 is recommended for adapter to conduit termination
- Material/Finish:
 - Adapter, fittings, plate, nut: Aluminum alloy/see table III
 - O-rings: silicone/N.A.
 - Retaining clip: high grade engineering thermoplastic/N.A.





710-930 Guardian Transition Aluminum Transition for Annular Convulved Tubing

Guardian Transition for Glenair Annular Convulved Tubing



Notes

- Annular convulved tubing shown for reference only. Tubing to be ordered sparately. see Glenair drawings 120-001, 120-125 and 120-137.
- Glenair Assembly procedure AP74-010 is recommended for adapter to conduit termination.
- Conduit Retaining clip and conduit O-rings to be supplied un-assembled.
- Glenair 600 series backshell assembly tools are recommended for assembly and installation.
- Material/Finish:
 - Transition - aluminum alloy/see table III
 - Hardware - cress/passivate
 - retaining clip - high grade engineering thermoplastic/N.A.

Dash No	Entry A	Entry B	Entry C	Entry D
01	09	09	09	N/A
03	14	12	12	N/A
04	28	24	14	N/A
05	28	24	24	N/A
06	24	12	12	20
07	20	12	12	12
08	12	09	09	09
09	28	14	24	N/A
10	24	20	12	12

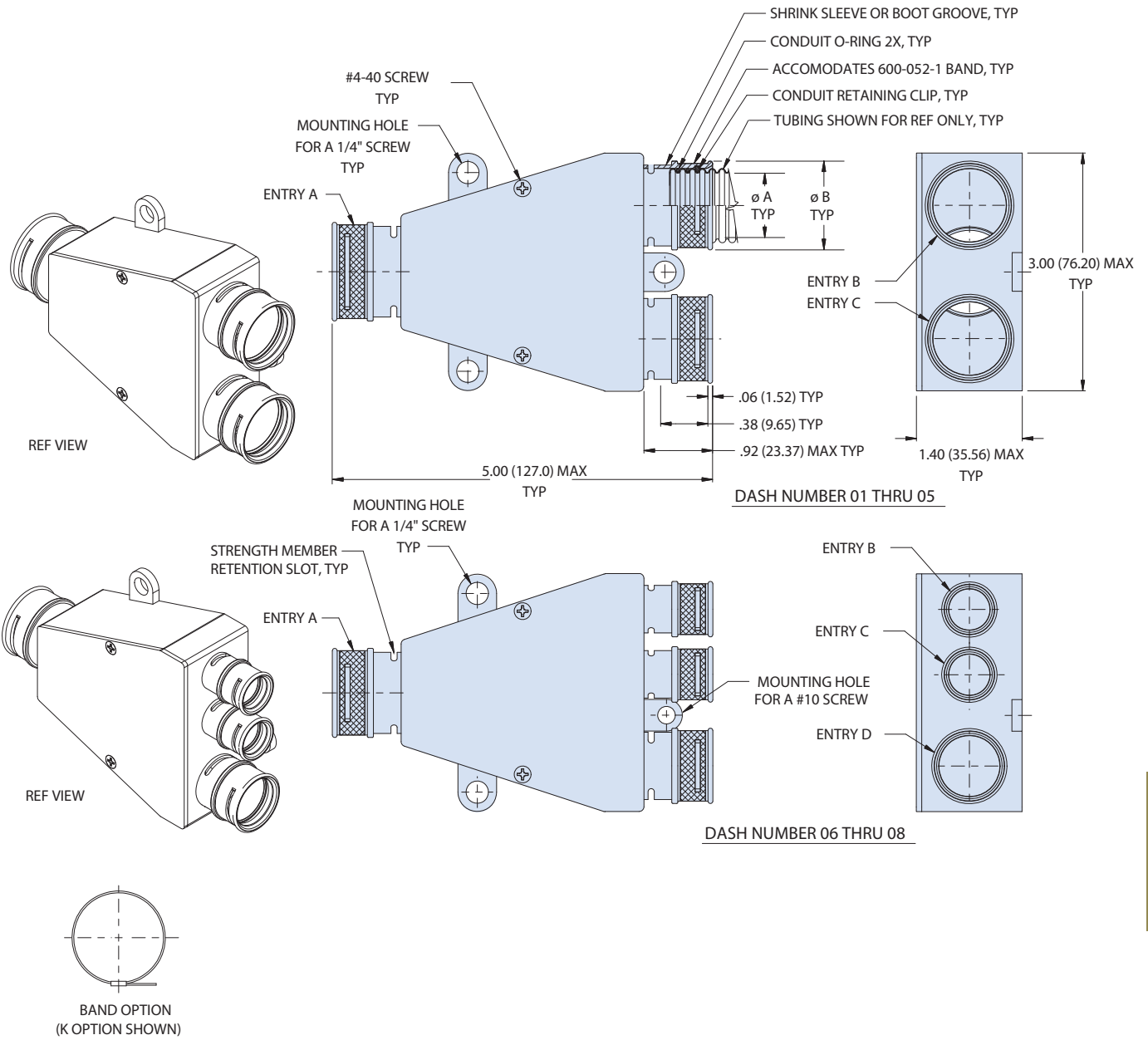
Entry Size	A Dia.		B Dia Max	Shrink Boot Ref
	Min	Max		
-09	.24	.28	.63	770-001S103
-12	.33	.37	.73	770-001S104
-14	.40	.44	.79	770-001S104
-20	.57	.62	.98	770-001S105
-24	.69	.75	1.15	770-001S106
-28	.81	.87	1.27	770-001S107

Sym	Finish Description
N	Cadmium plate/olive drab over nickel
NF	CAD/ O.D. over electroless nickel (1000 hour salt spray)
M	Electroless nickel

710-930 Guardian Transition Aluminum Transition for Annular Convolute Tubing



Special Applications



The Guardian System is an annular polymer-core tubing system designed for high-performance wire protection applications where economy and ease of installation are primary concerns. Especially suited to transport, rail, hybrid car, and industrial/agricultural machinery applications, Guardian provides easy-to-install and economical wire protection. Turn to Section B of this catalog for the full range of annular polymer-core tubing and do-it-yourself Guardian System fittings.

SERIES 72 ANNULAR POLYMER CORE

GUARDIAN SYSTEM

ECONOMICAL, HIGH-PERFORMANCE WIRE PROTECTION

The Guardian Series of Do-It-Yourself Fittings

- Economical and easy to install. *It's a snap!*
- General duty, all-purpose wire protection
- O-ring equipped environmental sealing (splash-proof)
- Self-locking coupling nuts
- Band and shrink-boot ready
- Metal and composite thermoplastic materials



Available with your choice of Economical Annular Convuluted Tubing

- Kynar® - Thermally stabilized, chemical and radiation resistant.
- PVDF - Chemical and radiation resistant, available in 5 colors plus black and natural.
- G-FLEX Siltem - Halogen free, low toxicity, low smoke, 175° temperature rating.

SELECTION GUIDE

1: Select the *Kynar*®, *PVDF*, or *Siltem* annular convuluted tubing core

2: Select from our menu of jacketing and braiding options

3: Select appropriate Guardian adapters, fittings, and transitions

Easy-To-Install and Economical Wire Protection



"Y" and "T" transitions in composite thermoplastic and plated metal materials for easy routing of multi-branch wire assemblies

Convolute tubing options in the Guardian system include Kynar®, PVDF, and Siltem

Available jacketing materials include EPDM, Hypalon®, Neoprene, and Viton as well as Duraelectric™ in Black, Gray, and Desert Tan

EMI/RFI shielding options include standard tin/copper braid as well as ArmorLite™ Microfilament metal-clad ultra lightweight braid

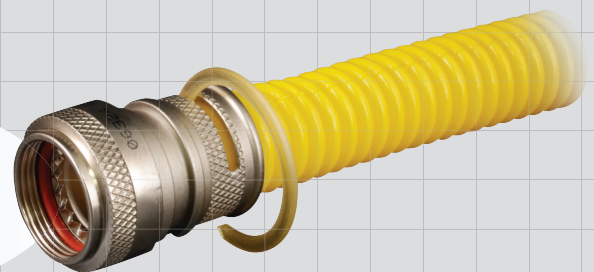
A selection of high performance, high temperature plastic convolute tubing is available in a broad range of materials and colors

The Guardian system also includes bulkhead feed-thru adapters for easy routing of wires through non-connectorized bulkheads and boxes

All Guardian system conduit to connector adapters are Banding Platform equipped and optimized for easy EMI shield termination with BAND-IT® banding

All Guardian system adapters are equipped with shrink boot grooves for easy environmental sealing and strain relief

The heart of the Guardian system is its unique retaining clip assembly system, offering high speed assembly without the need for special tools. Environmental O-rings provide splash-proof level environmental sealing.



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Convolved Tubing and Conduit System Selection Application Checklist

Originator Contact Information

Name and Title _____
 Company Name/Division _____
 Street Address _____
 City and State/Province _____
 Country and Postal Code/Zip _____
 Telephone _____ Fax _____ Email _____

Fitting Type

- Factory Installed
 User Installed

Working Environment

- Shipboard
 Aircraft
 Secure Communications
 Ground Support
 Rail/Mass Transit
 Space
 Missile Defense
 Telecommunications
 Armored Vehicle
 Other

Assembly Length Requirements

- Less than 10 Meters
 10 to 150 Meters
 More than 150 Meters

Special Considerations

- Weight Reduction Required
 Low Smoke/Zero Halogen Rq'd.
 UL94-V0 Flammability Required
 NBC Resistance Required
 Field Repairability Required
 Size or Shape Restraints as Specified: _____

Level of Electromagnetic Protection

- Not Applicable
 _____ db from _____ MHz/GHz
 to _____ Mhz/GHz
 EMP
 TEMPEST
 Other; Required attenuation
 and frequency band:

Level of Environmental Protection

- Not Applicable
 Moisture Resistance
 Full Water Immersion
 Chemical/Caustic Fluid Resistance
 Extreme Corrosion Resistance
 Intense Atomic Radiation

Mechanical Requirements

- Abrasion Resistance
 Crush Resistance
 Approx Strength: _____ psi
 Flexibility
 Approx no. of cycles: _____
 Tensile Strength
 Max. lbs. of pull: _____

Temperature Tolerance:

Operating: - ____ °C to + ____ °C
 Storage: - ____ °C to + ____ °C

Mechanical Durability

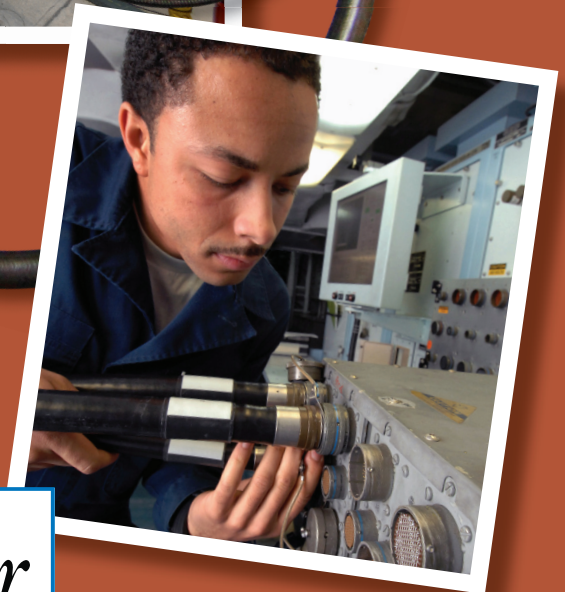
- Not Applicable
 Light Duty
 Medium Duty
 Heavy Duty
 Gorilla Proof

List the connectors used in this project, including connector interface designators, if known:

List preferred jacketing, protective overbraiding or fabric sheathing materials such as neoprene, Amber-Strand®, ArmorLite™ Dacron, etc.

Labelling & Marking Requirements:

Turnkey
**FACTORY TERMINATED
CONDUIT ASSEMBLIES**
FOR MISSION-CRITICAL APPLICATIONS





A World of Interconnect Solutions

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