



COMPOSITE

PIGGYBACK BOOT CONNECTOR ADAPTERS

FOR FAST AND RELIABLE SHRINK BOOT APPLICATION



APRIL 2012

COMPOSITE

PIGGYBACK SHRINK BOOT CONNECTOR ADAPTERS

FAST, EASY-TO-PERFORM ASSEMBLY



The recovery of 3-to-1 and 4-to-1 ratio shrink boots for environmental sealing and strain relief on aircraft interconnect cabling is a critical final step in the cable harness assembly process. This time-consuming task relies on each individual technician to correctly position and shrink boots on each of the many connectors found on the aircraft. Glenair composite piggyback shrink boot connector adapters take all of the guesswork out of this time-consuming assembly task. Partially recovered boots, pre-attached to composite adapters, take less than half the time to shrink in place, and are exactly pre-positioned for optimal sealing and strain relief each and every time the task is completed.



Piggyback Shrink Boot Connector Adapters Table of Contents and Product Selection Guide



PIGGYBACK SHRINK BOOT SELECTION GUIDE

310-048

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Environmental Piggyback Boot Adapter

Pre-positioned and partially recovered shrink-boot/adapter unit is ready for fast and reliable final recovery of the boot. Provides durable environmental sealing and strain-relief to the cable-to-backshell junction. Adapter is lightweight composite thermoplastic.

317-102

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EMI/RFI Environmental Piggyback Boot Adapter with Drop-In Banding Porch

This Piggyback boot features a unique drop-in conductive banding porch. The pre-positioned and partially recovered shrink boot is ready for final recovery after the cable shield is band terminated to the drop-in accessory. Adapter is lightweight composite thermoplastic.

319-183

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EMI/RFI Environmental Piggyback Boot Adapter with Integrated Shield Sock

This integrated EMI/RFI shield sock, with its partially recovered shrink-boot and composite connector backshell delivers speed, convenience, and performance. Simply couple in place, terminate the supplied shield to the cable and complete the recovery of the boot.

443-033

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EMI/RFI Environmental Band-in-a-Can Piggyback Boot and Composite Backshell

This composite, two-piece band-in-a-can adapter comes equipped with a partially recovered shrink boot attached to the nut. After the cable shield is terminated to the band porch, simply screw the nut and boot into place and complete the boot recovery process.

635-005

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Environmental Piggyback Boot Cable Feed-Through

This composite feed-through is supplied with a pre-positined and partially recovered shrink-boot—ready for fast and reliable final recovery of the boot. Provides durable environmental sealing and strain-relief to the feed-through-to-box junction. Adapter is lightweight composite thermoplastic.



Composite Connector and Accessory Standard Materials and Finishes

The following standard materials are used for the majority of Glenair's composite products. However, components are not limited to those listed but are representative of the elements used in Glenair's composite products.

Component	Material	Specification
Bodies, clamps, Saddles, coupling nuts, protective covers, etc.	Composite	AIR 4567, AS85049 ASTM D 5205
Hardware: Such as screws, washers, rivets, wire rope, sash chain, band straps, etc.	Corrosion Resisting Steel	QQ-S-763 (300 Series)
Elastomeric seals: Such as o-rings, cable jacket seals, grommets, etc.	Silicone or Fluorosilicone	ZZ-R-765 or MIL-R-25988
Anti-friction and thrust washers	Teflon	TFE

Standard Finishes

TABLE II: Finish Details		
SYM	MATERIAL	FINISH
XB	Composite Thermoplastic	No Plating, Black
XZN		Conductive, Zinc Nickel, Black
XM		Conductive, Electroless Nickel
XMT		Conductive, Ni-PTFE 1000 Hour Grey™
XW		Conductive, Cadmium O.D. Over Electroless Nickel

Locking Compound

Glenair recommends
ND VIBRA-TITE® Formula 3
Thread Locking Compound
for customers who choose to lock or seal
fasteners used on composite products.

Available from ND Industries
(www.ndindustries.com), this product is
non-reactive to composite resins

FINISH CODE CROSS REFERENCE

Glenair Finish	MIL-DTL-38999	AS85049
XM	M	M
XW	J	J
XMT	T	X

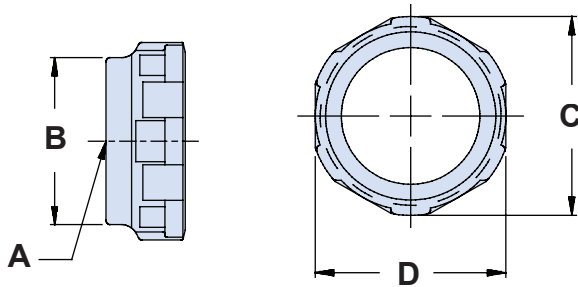
1000 Hour Grey™ Ni-PTFE Nickel Fluorocarbon Polymer



The MIL-DTL-38999 Rev L detail specification lists Nickel Fluorocarbon Polymer as a qualified Cadmium free plating alternative. This RoHS compliant plating formula is now available on composite interconnect products from Glenair and offers the following benefits in harsh-environment applications:

- 2000+ hour salt spray
- Cadmium free
- Outstanding mating lubricity
- Hexavalent Chromium free
- 500+ mating cycles
- Non-Magnetic

Table I
Front End Dimensional Details



Notes:

1. Connector shell size designations within are for reference only; do not use in part numbers.
2. Metric dimensions (mm) are in parentheses and are for reference only. (1 inch = 25.4 mm)
3. Consult factory for accessory interface data not listed.
4. Use Glenair 600-091 or 600-157 tool to tighten coupling nut. Rubber jaw pliers or strap wrench may damage the parts.

TABLE I						
SHELL SIZE FOR CONNECTOR DESIGNATOR			A THREAD REF	B DIA MAX	C DIA MAX	D FLATS REF
A	F/L	H				
-	08 09	-	7/16-28 UNEF	.59 (15.0)		
08	-	09 A	M12 x 1 - 6H	.65 (16.5)	.86 (21.8)	.75 (19.1)
03	10 11	-	9/16-24 UNEF	.72 (18.3)	.98 (24.9)	.88 (22.2)
-	-	11 B	M15 x 1 - 6H	.77 (19.6)		
10	-	-	5/8-24 UNEF	.77 (19.6)		
-	-	-	11/16-24 UNEF	.84 (21.3)	1.16 (29.4)	1.00 (25.4)
-	12 13	13 C	M18 x 1 - 6H	.89 (22.6)		
12 7	-	-	3/4-20 UNEF	.91 (23.1)		
-	14 15	-	13/16-20 UNEF	.97 (24.6)		
-	-	15 D	M22 x 1 - 6H	1.03 (26.2)	1.28 (32.5)	1.13 (28.6)
14 12	-	-	7/8-20 UNEF	1.03 (26.2)		
-	16 17	-	15/16-20 UNEF	1.09 (27.7)	1.41 (35.7)	1.25 (31.8)
-	-	17 E	M25 x 1 - 6H	1.15 (29.2)		
16 19	-	-	1-20 UNEF	1.15 (29.2)		
18 27	18 19	-	1-1/16-18 UNEF	1.22 (31.0)	1.52 (38.5)	1.38 (35.1)
-	-	19 F	M28 x 1 - 6H	1.28 (32.5)		
-	-	-	1-1/8-18 UNEF	1.28 (32.5)		
20 37	20 21	-	1-3/16-18 UNEF	1.34 (34.0)	1.64 (41.7)	1.50 (38.1)
-	-	21 G	M31 x 1 - 6H	1.41 (35.8)		
-	-	-	1-1/4-18 UNEF	1.41 (35.8)		
22	22 23	-	1-5/16-18 UNEF	1.47 (37.3)	1.77 (44.9)	1.63 (41.3)
-	-	23 H	M34 x 1 - 6H	1.53 (38.9)		
24	24 25	-	1-7/16-18 UNEF	1.59 (40.4)	1.89 (48.0)	1.75 (44.5)
-	-	25 J	M37 x 1 - 6H	1.66 (42.2)		
61	-	-	1-1/2-18 UNEF	1.66 (42.2)		
28	-	-	1-3/4-18 UNS	1.97 (50.0)	2.16 (54.8)	2.00 (50.8)

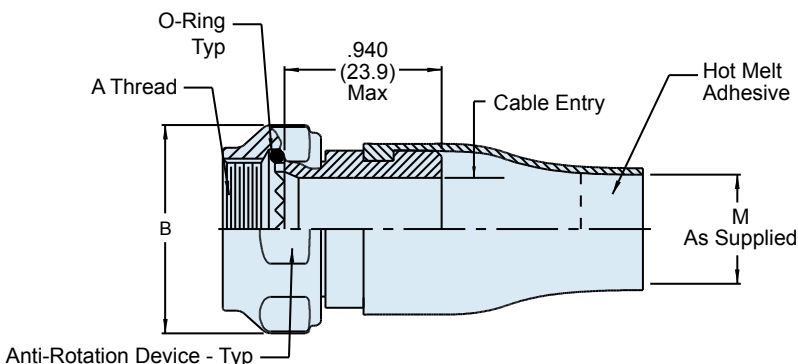
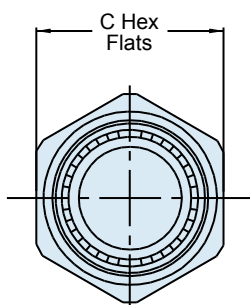
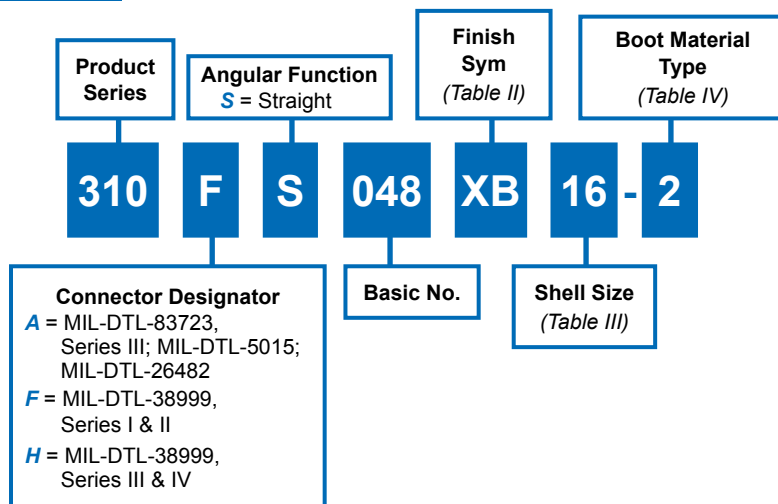


310-048 Environmental Piggyback Boot Adapter, Composite For MIL-DTL-38999 Series I, II, III, and IV and MIL-DTL-5015

Fast and Easy Installation of Environmental Shrink-Boots



How To Order



Material and Finish

Adapter: High Temperature Engineering Thermoplastic (natural)/Table II
Coupling Nut, Sleeve, Anti-Decoupling Device: High Temperature Engineering Thermoplastic (black)/N.A.
O-Ring: Silicone/N.A.
Shrink Boot: Elastomeric/N.A.

Notes

See Table I on page 3 for front-end dimensional details.
Assembly identified with manufacturer's name and part number, space permitting.
Glenair 600-091 or 600-157 Series Backshell Assembly Tools are recommended for assembly and installation.
O-Ring supplied with Connector Designator F & H only.
O-Ring not supplied with Connector Designator A.

Dimensions in Inches (millimeters) are subject to change without notice.

310-048

Environmental Piggyback Boot Adapter, Composite

For MIL-DTL-38999 Series I, II, III, and IV and MIL-DTL-5015



Table III: Key Dimensions

Connector Designator A			Connector Designator F			Connector Designator H			Ø B Ref.
Dash No.	Shell Size Ref.	A Thread Class 2B	Dash No.	Shell Size Ref.	A Thread Class 2B	Dash No.	Shell Size Ref.	A Thread ISO Metric	
08	08	1/2-20 UNF	08	08	7/16-28 UNEF	09	A	M12 X 1.0-6H	.812 (20.6)
10	10	5/8-24 UNEF	10	12	9/16-24 UNEF	11	B	M15 X 1.0-6H	.938 (23.8)
12	12	3/4-20 UNEF	12	12	11/16-24 UNEF	13	C	M18 X 1.0-6H	1.125 (28.6)
14	14	7/8-20 UNEF	14	14	13/16-20 UNEF	15	D	M22 X 1.0-6H	1.250 (31.8)
16	16	1-20 UNEF	16	16	15/16-20 UNEF	17	E	M25 X 1.0-6H	1.375 (34.9)
18	18	1 1/16-18 UNEF	18	18	1 1/16-18 UNEF	19	F	M28 X 1.0-6H	1.500 (38.1)
20	20	1 3/16-18 UNEF	20	20	1 3/16-18 UNEF	21	G	M31 X 1.0-6H	1.625 (41.3)
22	22	1 5/16-18 UNEF	22	22	1 5/16-18 UNEF	23	H	M34 X 1.0-6H	1.750 (44.5)
24	24	1 7/16-18 UNEF	24	24	1 7/16-18 UNEF	25	J	M37 X 1.0-6H	1.875 (47.6)

Table III: Key Dimensions (CON'T)

Dash No.	C Flats		Ø G	M Min	N Max
	Max	Min			
08	.750 (19.1)	.736 (18.7)	.140 (3.60)	.250 (6.40)	.197 (5.00)
10	.875 (22.2)	.860 (21.8)	.270 (6.90)	.355 (9.00)	.197 (5.00)
12	1.000 (25.4)	.980 (24.9)	.390 (9.90)	.491 (12.5)	.236 (6.00)
14	1.125 (28.6)	1.100 (27.9)	.512 (13.0)	.565 (17.5)	.236 (6.00)
16	1.250 (31.8)	1.224 (31.1)	.637 (16.2)	.690 (19.5)	.276 (7.01)
18	1.375 (34.9)	1.348 (34.2)	.757 (19.2)	.769 (21.4)	.335 (8.51)
20	1.500 (38.1)	1.469 (37.3)	.881 (22.4)	.894 (22.7)	.394 (10.0)
22	1.625 (41.3)	1.581 (40.2)	1.006 (25.6)	1.019 (25.9)	.394 (10.0)
24	1.750 (44.5)	1.690 (42.9)	1.131 (28.7)	1.134 (28.8)	.591 (15.0)

Table II: Backshell Finish Options

Sym	Finish Description
XB	Black, Unplated

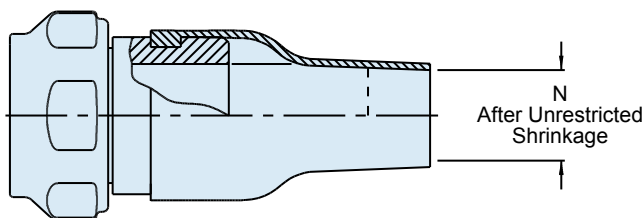


Table IV: Boot Material Selection Guide

Attribute	Type 1 High-Performance Semi-Rigid Elastomer	Type 2 Zero-Halogen Semi-Rigid Polyolefin	Type 3 General Purpose Flexible Polyolefin
Continuous Operating Temp.	-75° to +150° c	-30° to +135° c	-55° to +135° c
Resistance To Fuels, Oils	Excellent	Very Good	Good
Low Toxicity, Zero Halogen	No	Yes	No

Dimensions in Inches (millimeters) are subject to change without notice.

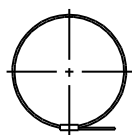
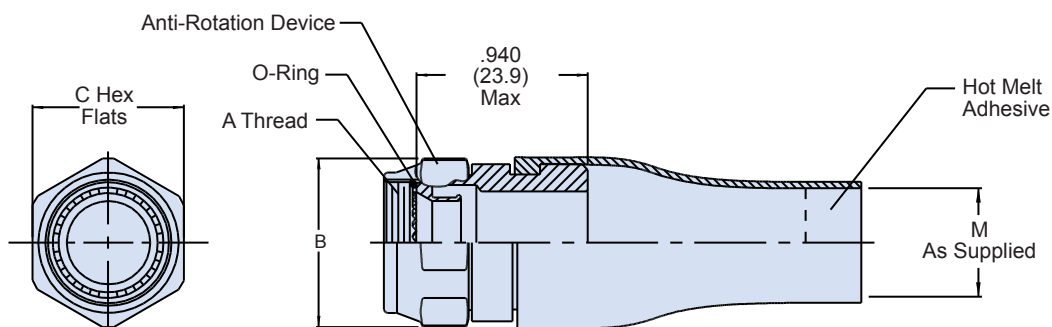
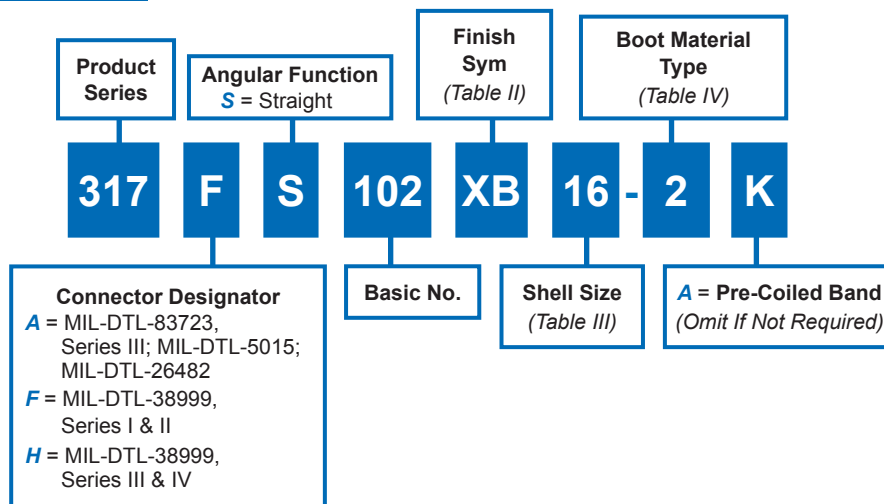


317-102 EMI/RFI Environmental Piggyback Boot Adapter, Composite with Drop-In Banding Porch

Fast and Easy Installation of Boots and EMI/RFI Shielding Bands



How To Order



PRE-COILED BAND
GLENAIR PART NO.
600-057-1

Material and Finish

Coupling Nut, Sleeve, Anti-Rotation Device: High Temp. Engineering Thermoplastic (black)/N.A.
Adapter: Table II
O-Ring: Silicone/N.A.
Shrink Boot: Elastomeric/N.A.
Band: SST/Passivated

Notes

See Table I on page 3 for front-end dimensional details.
Assembly identified with manufacturer's name and part number, space permitting.
Glenair 600-091 or 600-157 Series Backshell Assembly Tools are recommended for assembly and installation.
O-Ring supplied with Connector Designator F & H only.
O-Ring not supplied with Connector Designator A.

Dimensions in Inches (millimeters) are subject to change without notice.

317-102 EMI/RFI Environmental Piggyback Boot Adapter, Composite with Drop-In Banding Porch



Table III: Key Dimensions

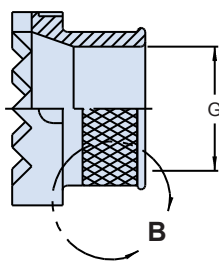
Connector Designator A			Connector Designator F			Connector Designator H			Ø B Ref.
Dash No.	Shell Size Ref.	A Thread Class 2B	Dash No.	Shell Size Ref.	A Thread Class 2B	Dash No.	Shell Size Ref.	A Thread ISO Metric	
08	08	1/2-20 UNF	08	08	7/16-28 UNEF	09	A	M12 X 1.0-6H	.812 (20.6)
10	10	5/8-24 UNEF	10	12	9/16-24 UNEF	11	B	M15 X 1.0-6H	.938 (23.8)
12	12	3/4-20 UNEF	12	12	11/16-24 UNEF	13	C	M18 X 1.0-6H	1.125 (28.6)
14	14	7/8-20 UNEF	14	14	13/16-20 UNEF	15	D	M22 X 1.0-6H	1.250 (31.8)
16	16	1-20 UNEF	16	16	15/16-20 UNEF	17	E	M25 X 1.0-6H	1.375 (34.9)
18	18	1 1/16-18 UNEF	18	18	1 1/16-18 UNEF	19	F	M28 X 1.0-6H	1.500 (38.1)
20	20	1 3/16-18 UNEF	20	20	1 3/16-18 UNEF	21	G	M31 X 1.0-6H	1.625 (41.3)
22	22	1 5/16-18 UNEF	22	22	1 5/16-18 UNEF	23	H	M34 X 1.0-6H	1.750 (44.5)
24	24	1 7/16-18 UNEF	24	24	1 7/16-18 UNEF	25	J	M37 X 1.0-6H	1.875 (47.6)

Table III: Key Dimensions (CON"T)

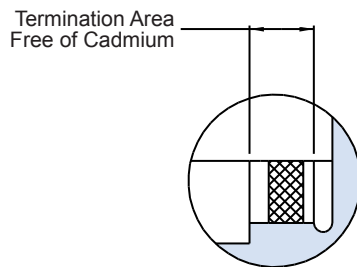
Dash No.	C Flats		Ø G	M Min	N Max
	Max	Min			
08	.750 (19.1)	.736 (18.7)	.140 (3.60)	.250 (6.40)	.197 (5.00)
10	.875 (22.2)	.860 (21.8)	.270 (6.90)	.355 (9.00)	.197 (5.00)
12	1.000 (25.4)	.980 (24.9)	.390 (9.90)	.491 (12.5)	.236 (6.00)
14	1.125 (28.6)	1.100 (27.9)	.512 (13.0)	.565 (17.5)	.236 (6.00)
16	1.250 (31.8)	1.224 (31.1)	.637 (16.2)	.690 (19.5)	.276 (7.01)
18	1.375 (34.9)	1.348 (34.2)	.757 (19.2)	.769 (21.4)	.335 (8.51)
20	1.500 (38.1)	1.469 (37.3)	.881 (22.4)	.894 (22.7)	.394 (10.0)
22	1.625 (41.3)	1.581 (40.2)	1.006 (25.6)	1.019 (25.9)	.394 (10.0)
24	1.750 (44.5)	1.690 (42.9)	1.131 (28.7)	1.134 (28.8)	.591 (15.0)

Table II: Backshell Finish Options

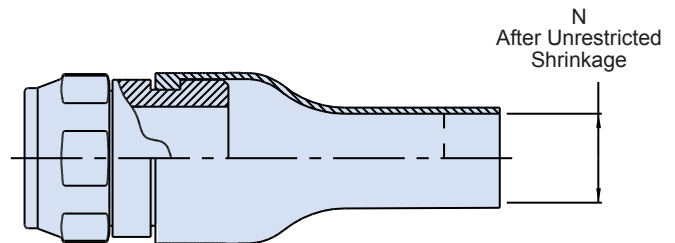
Sym	Finish Description
XB	Electroless Nickel
XMT	Ni-PTFE, Nickel-Fluorocarbon Polymer
XN	Selective Plating, Nickel and Cadmium Olive Drab (See Detail B)



DROP-IN BANDING ADAPTER



DETAIL B
FINISH XN



N
After Unrestricted
Shrinkage

Table IV: Boot Material Selection Guide

Attribute	Type 1 High-Performance Semi-Rigid Elastomer	Type 2 Zero-Halogen Semi-Rigid Polyolefin	Type 3 General Purpose Flexible Polyolefin
Continuous Operating Temp.	-75° to +150° c	-30° to +135° c	-55° to +135° c
Resistance To Fuels, Oils	Excellent	Very Good	Good
Low Toxicity, Zero Halogen	No	Yes	No

Dimensions in Inches (millimeters) are subject to change without notice.



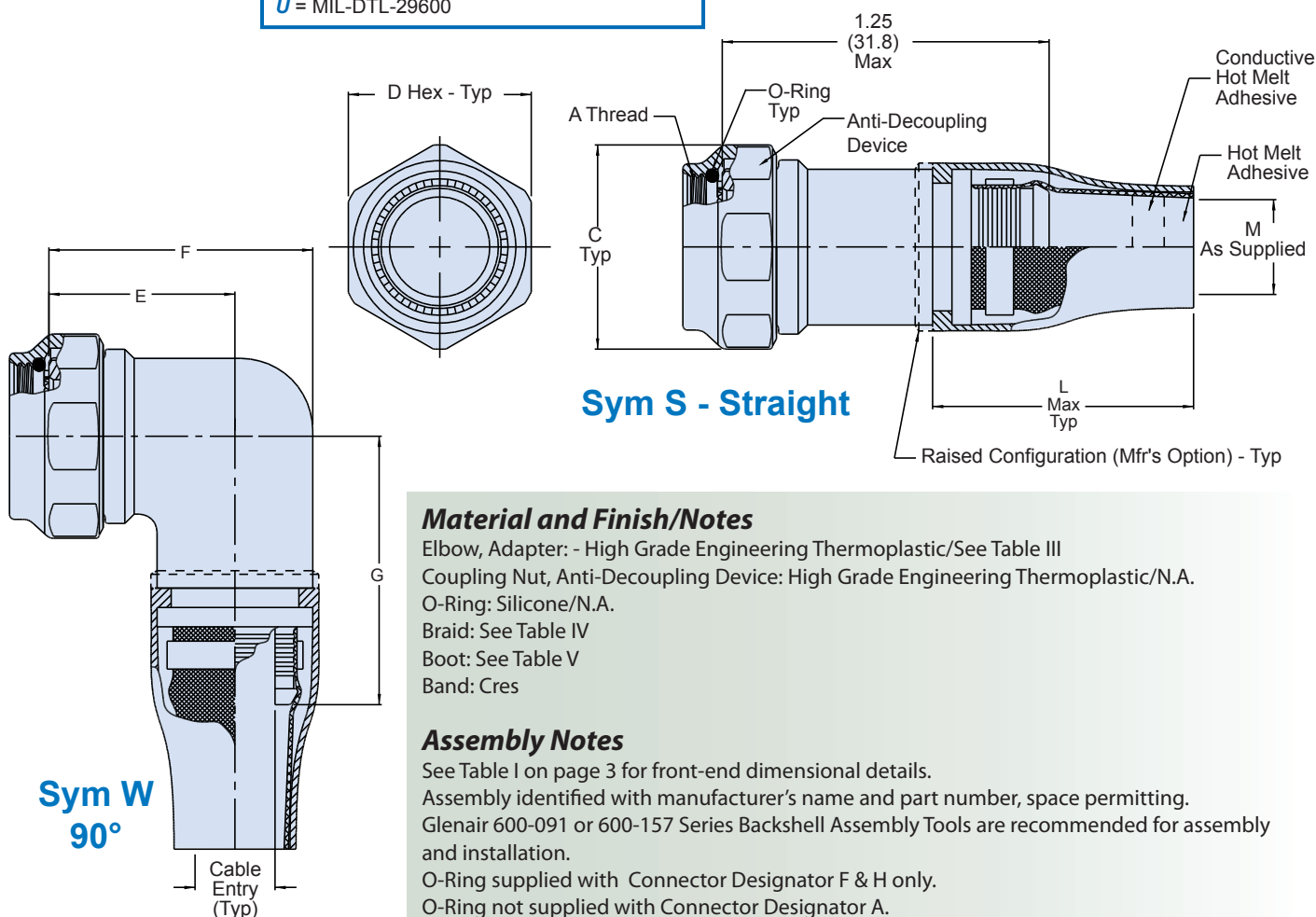
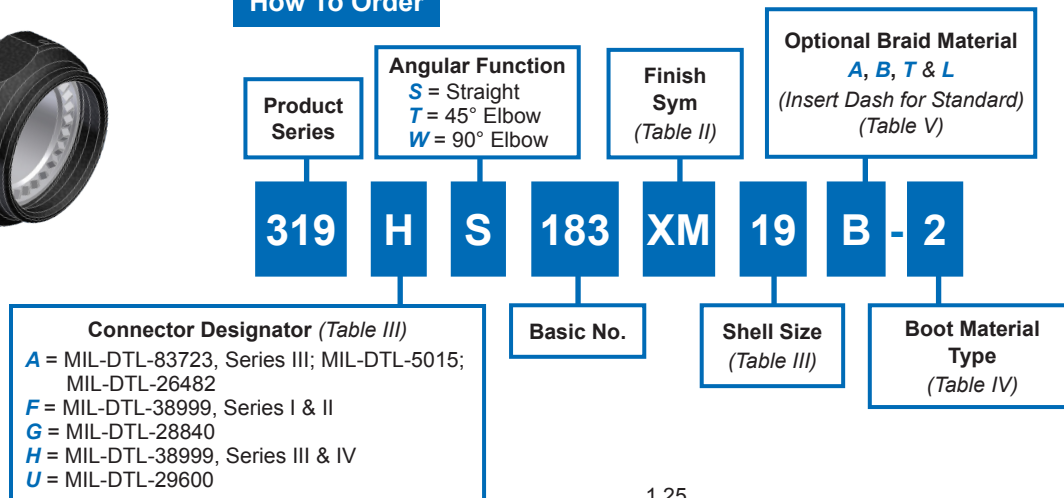
319-183 EMI/RFI Environmental Piggyback Boot Adapter, Composite with Integrated Shield Sock

Fast and Easy Final Installation of Environmental Boots to Shield Sock Assemblies



Cutaway View

How To Order



Material and Finish/Notes

Elbow, Adapter: - High Grade Engineering Thermoplastic/See Table III
Coupling Nut, Anti-Decoupling Device: High Grade Engineering Thermoplastic/N.A.
O-Ring: Silicone/N.A.
Braid: See Table IV
Boot: See Table V
Band: Cres

Assembly Notes

See Table I on page 3 for front-end dimensional details.
Assembly identified with manufacturer's name and part number, space permitting.
Glenair 600-091 or 600-157 Series Backshell Assembly Tools are recommended for assembly and installation.
O-Ring supplied with Connector Designator F & H only.
O-Ring not supplied with Connector Designator A.

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EMI/RFI Environmental Piggyback Boot Adapter, Composite

with Integrated Shield Sock



Table III: Shell Size

Shell Size					A	Ø C	D	E	F	G	H	J	Cable	L	M	N
A	F/L	G	H	U	Thread	Max	Flats	.060 (1.5)	.090 (2.3)	.090 (2.3)	.060 (1.5)	.090 (2.3)	Entry ±.03 (0.8)	Max	Min	Max
-	08	-	-	-	7/16-28 UNEF											
-	-	-	-	-	M12 X 1-6H	.860 (21.8)	.750 (19.1)	.690 (17.5)	.880 (22.4)	1.19 (30.2)	.720 (18.3)	1.00 (25.4)	.250 (6.40)	2.36 (59.9)	0.26 (6.60)	.138 (3.51)
08	-	-	-	09	1/2-20 UNEF											
-	-	-	-	-	1/2-28 UNEF											
03	10	-	-	-	9/16-24 UNEF	.980 (24.9)	.880 (22.4)	.750 (19.1)	1.00 (25.4)	1.25 (31.8)	.750 (19.1)	1.06 (26.9)	.380 (9.70)	2.36 (59.9)	0.38 (9.70)	.197 (5.00)
-	-	-	-	-	M15 X 1-6H											
10	-	-	-	-	5/8-24 UNEF											
-	-	-	-	-	5/8-28 UN											
-	12	-	-	-	11/16-24 UNEF	1.16 (29.5)	1.00 (25.4)	.810 (20.6)	1.13 (28.7)	1.31 (33.3)	.750 (19.1)	1.13 (28.7)	.500 (12.7)	2.83 (71.9)	0.51 (13.0)	.197 (5.00)
-	-	-	-	-	M18 X 1-6H											
12	-	11	-	-	3/4-20 UNEF											
-	-	-	-	-	3/4-28 UNS											
-	14	-	-	-	13/16-20 UNEF	1.28 (32.5)	1.13 (28.7)	.880 (22.4)	1.31 (33.3)	1.38 (35.1)	.760 (19.3)	1.16 (29.5)	.630 (16.0)	2.83 (71.9)	0.63 (16.0)	.236 (5.60)
-	-	-	-	-	M22 X 1-6H											
14	-	13	-	-	7/8-20 UNEF											
-	-	-	-	-	7/8-28 UNEF											
-	16	-	-	-	15/16-20 UNEF	1.41 (35.8)	1.25 (31.8)	.940 (23.9)	1.38 (35.1)	1.44 (36.6)	.780 (19.8)	1.18 (30.0)	.750 (19.1)	3.74 (95.0)	0.76 (19.3)	.236 (5.60)
-	-	-	-	-	M25 X 1-6H											
16	-	15	-	-	1-20 UNEF											
-	-	-	-	-	1-28 UN											
18	18	-	-	-	1 1/16-18 UNEF	1.52 (38.6)	1.38 (35.1)	.970 (24.6)	1.44 (36.6)	1.47 (37.3)	.790 (20.1)	1.19 (30.2)	.810 (20.6)	3.74 (95.0)	0.82 (20.8)	.276 (7.01)
-	-	-	-	-	M28 X 1-6H											
-	-	17	-	-	1 1/8-18 UNEF											
-	-	-	-	-	1 1/8-28 UNEF											
20	20	-	-	-	1 3/16-18 UNEF	1.64 (41.7)	1.50 (38.1)	1.06 (26.9)	1.63 (41.4)	1.56 (39.6)	.820 (20.8)	1.22 (31.0)	.940 (23.9)	3.74 (95.0)	0.94 (23.9)	.335 (8.51)
-	-	-	-	-	M31 X 1-6H											
-	-	19	-	-	1 1/4-18 UNEF											
-	-	-	-	-	1 1/4-28 UNEF											
22	22	-	-	-	1 5/16-18 UNEF	1.77 (45.0)	1.63 (41.4)	1.13 (28.7)	1.75 (44.5)	1.63 (41.4)	.860 (21.8)	1.26 (32.0)	1.06 (26.9)	4.92 (125)	1.07 (27.2)	.394 (10.0)
-	-	-	-	-	M34 X 1-6H											
-	-	23	-	-	1 3/8-28 UN											
24	24	23	-	-	1 7/16-18 UNEF	1.89 (48.0)	1.75 (44.5)	1.19 (30.2)	1.88 (47.8)	1.69 (42.9)	.890 (22.6)	1.29 (32.8)	1.19 (30.2)	4.92 (125)	1.19 (30.2)	.394 (10.0)
-	-	-	-	-	M37 X 1-6H											
61	-	-	-	-	1 1/2-18 UNEF											
-	-	-	-	-	1 1/2-28 UN	2.02 (51.3)	1.88 (47.8)									
-	-	25	-	-	1 9/16-18 UNEF			1.34 (34.0)	2.13 (54.1)	1.78 (45.2)	.920 (23.4)	1.32 (33.5)	1.38 (35.1)	4.92 (125)	1.38 (35.1)	.591 (15.0)
28	-	-	-	-	1/34-18 UNS	2.15 (54.6)	2.00 (50.8)									

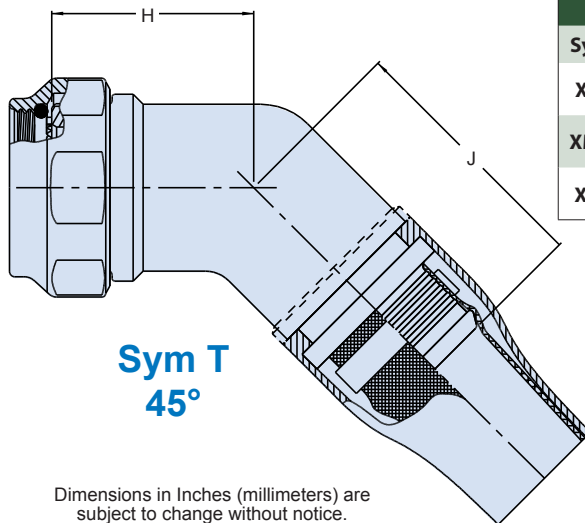


Table II: Backshell Finish Options

Sym	Finish Description
XM	2000 Hour Corrosion Resistant Electroless Nickel
XMT	2000 Hour Corrosion Resistant NI-PTFE, Nickel-Fluorocarbon Polymer
XW	2000 Hour Corrosion Resistant Cadmium Olive Drab Over Electroless Nickel

Table V: Braided Shielding Options

Symbol	Braid Type
A	100% AmberStrand®
B	75%/25% AmberStrand® Blend
-	Nickel/Copper 34 AWG
T	Tin/Copper 34 AWG
L	Armorlite™

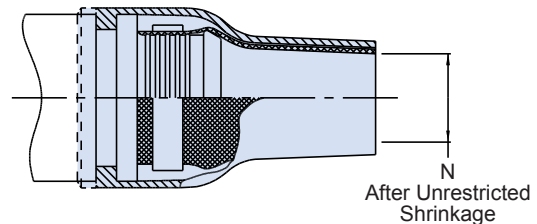


Table IV: Boot Material Selection Guide

Attribute	Type 1 High-Performance Semi-Rigid Elastomer	Type 2 Zero-Halogen Semi-Rigid Polyolefin	Type 3 General Purpose Flexible Polyolefin
Continuous Operating Temp.	-75° To +150° c-	30° To +135° c-	55° To 135° c
Resistance To Fuels, Oils	Excellent	Very Good	Good
Low Toxicity, Zero Halogen	No	Yes	No



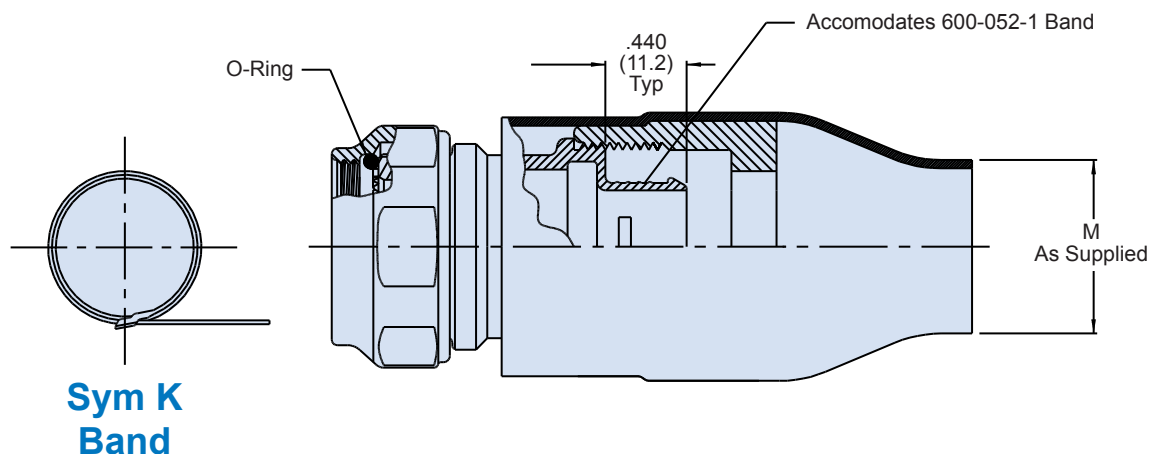
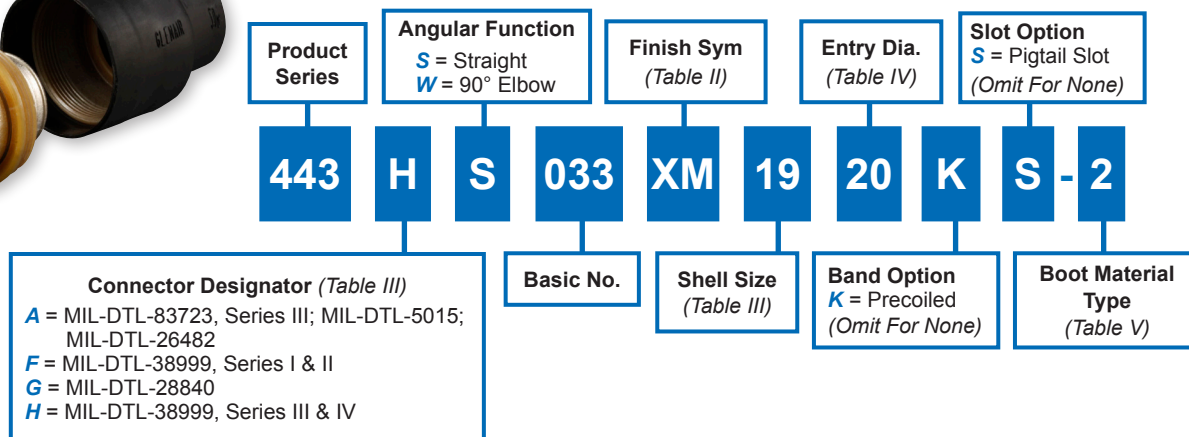
443-033

Band-in-a-Can Piggyback Boot Adapter, Composite With Shrink Boot Nut & Self-Locking Rotatable Coupling

Our Easiest to Use and Most Versatile Individual and Overall Shield Termination and Pre-Terminated Shrink Boot Adapter



How To Order



Notes

See Table I on page 3 for front-end dimensional details.
 Ref Glenair standard STD-001 (common accessory interface data).
 Coupling Nut supplied unplated.
 O-Ring not supplied with Connector Designator A
 Consult factory for additional sizes available.
 Entry diameter equals max wire bundle diameter.
 One Band supplied with each assembly. To order separately, see 600-052-1.
 Use Glenair 600-050 hand or 600-051 pneumatic banding tools.
 Glenair 600-091 or 600-157 Series Backshell Assembly Tools are recommended for assembly and installation.

443-033

Band-in-a-Can Piggyback Boot Adapter, Composite With Shrink Boot Nut & Self-Locking Rotatable Coupling



Piggyback
Shrink Boot
Connector Adapters

Table III: Shell Size

Shell Size					E	F	G	Max Entry Dash No.
A	F/L	G	H	U	.060 (1.5)	.090 (2.3)	.090 (2.3)	
08	08	-	09	-	.690 (17.5)	.880 (22.4)	1.19 (30.2)	10
10	10	-	11	08	.750 (19.1)	1.00 (25.4)	1.25 (31.8)	12
12	12	11	13	10	.810 (20.6)	1.13 (28.7)	1.31 (33.3)	14
14	14	13	15	12	.880 (22.4)	1.31 (33.3)	1.38 (35.1)	16
16	16	15	17	14	.940 (23.9)	1.38 (35.1)	1.44 (36.6)	20
18	18	17	19	16	.970 (24.6)	1.44 (36.6)	1.47 (37.3)	20
20	20	19	21	18	1.06 (26.9)	1.63 (41.4)	1.56 (39.6)	22
22	22	-	23	20	1.13 (28.7)	1.75 (44.5)	1.63 (41.4)	24
24	24	23	25	22	1.19 (30.2)	1.88 (47.8)	1.69 (42.9)	32
28	-	25	-	24	1.34 (34.0)	2.13 (54.1)	1.78 (45.2)	32

Table IV: Cable Entry

Entry Code	H ± .06 (1.5)	Ø Entry ± .03 (0.8)	M Min	N Max
10	.940 (23.9)	.220 (5.6)	.330 (8.40)	.236 (6.00)
12	1.17 (29.7)	.280 (7.1)	.430 (11.0)	.236 (6.00)
14	1.28 (32.5)	.340 (8.6)	.510 (13.0)	.276 (7.00)
16	1.41 (35.8)	.460 (11.7)	.670 (17.0)	.276 (7.00)
18	1.50 (38.1)	.550 (14.0)	.750 (19.0)	.276 (7.00)
20	1.56 (39.6)	.620 (15.7)	.820 (20.8)	.335 (8.50)
22	1.69 (42.9)	.700 (17.8)	.960 (24.4)	.335 (8.50)
24	1.81 (46.0)	.780 (19.8)	1.05 (26.7)	.335 (8.50)
28	1.91 (48.5)	.850 (21.6)	1.18 (30.0)	.335 (8.50)
32	2.02 (51.3)	.950 (24.1)	1.31 (33.3)	.394 (10.0)

Table II: Backshell Finish Options

Sym	Finish Description
XM	2000 Hour Corrosion Resistant Electroless Nickel
XMT	2000 Hour Corrosion Resistant NI-PTFE, Nickel-Fluorocarbon Polymer. 1000 Hour Grey
XW	2000 Hour Corrosion Resistant Cadmium Olive Drab Over Electroless Nickel

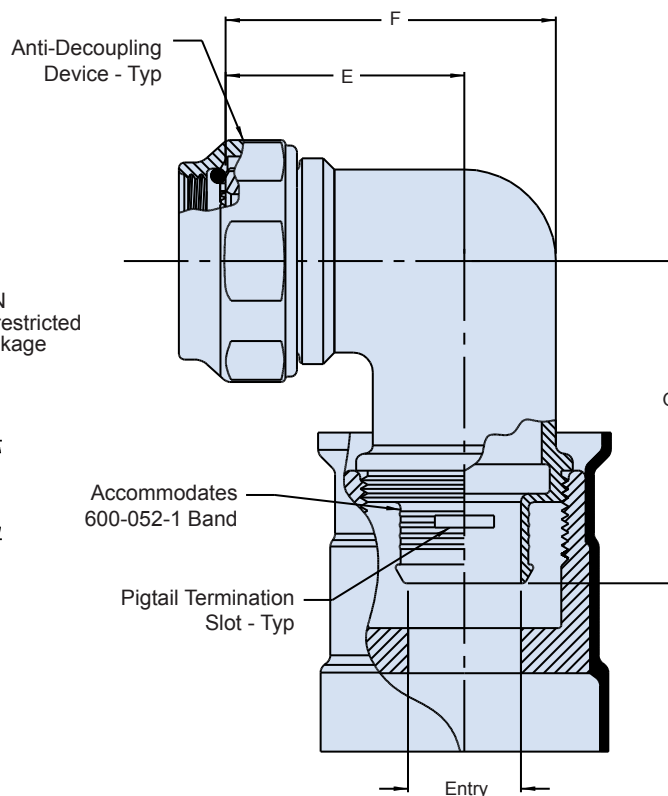
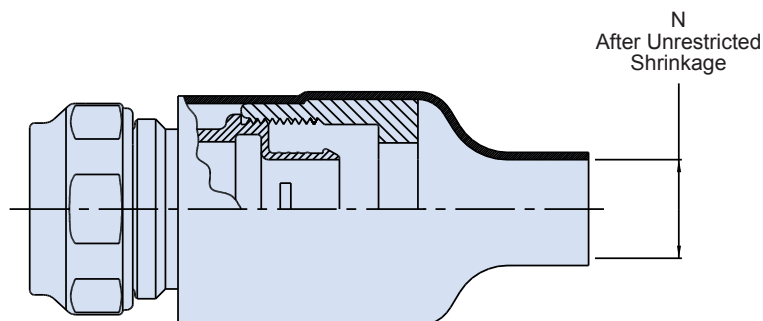


Table V: Boot Material Selection Guide

Attribute	Type 1 High-Performance Semi-Rigid Elastomer	Type 2 Zero-Halogen Semi-Rigid Polyolefin	Type 3 General Purpose Flexible Polyolefin
Continuous Operating Temp.	-75° To +150° c-	30° To +135° c-	55° To 135° c
Resistance To Fuels, Oils	Excellent	Very Good	Good
Low Toxicity, Zero Halogen	No	Yes	No

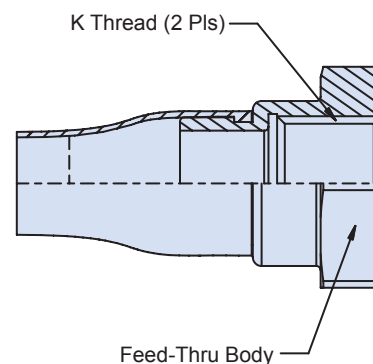
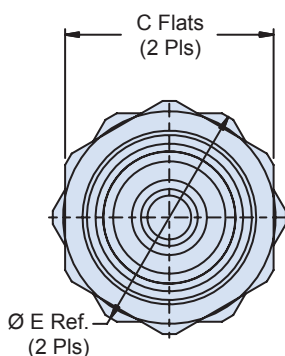
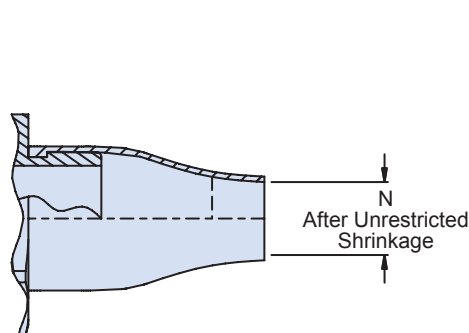
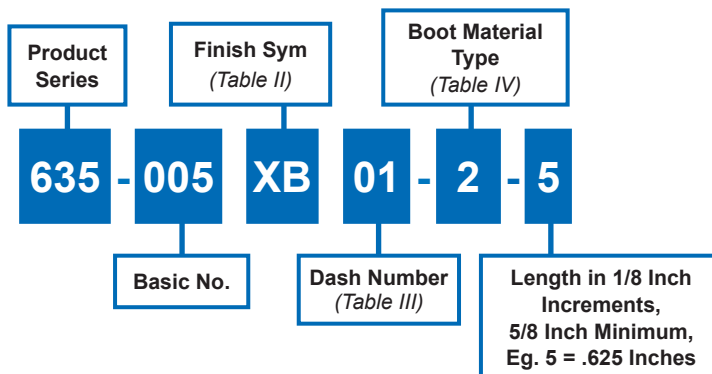
Dimensions in Inches (millimeters) are subject to change without notice.



635-005 Environmental Piggyback Boot Cable Feed-Through Composite

For Easy and Reliable Environmental Sealing of Feed-Through Fittings

How To Order



Material and Finish

Feed-thru Body, Washer, Jam Nut: High temperature engineering thermoplastic (black)/ see Table II

O-ring: Silicone/N.A.

Shrink Boot: Elastomeric/N.A.

Notes

Assembly identified with Glenair's name and part number, space permitting.
Glenair 600 series backshell assembly tools are recommended for assembly and installation.

Dimensions in Inches (millimeters) are subject to change without notice.

635-005 Environmental Piggyback Boot Cable Feed-Through Composite



Table III: Key Dimensions

Dash No.	Ø A		B		C		D		Ø E		F		K Thread	M Min		N Max	
01	.300	(7.62)	.670	(17.0)	.950	(24.1)	1.50	(38.1)	1.05	(26.7)	1.18	(30.0)	M12 X 1.5	.300	(7.62)	.138	(3.51)
02	.400	(10.2)	.870	(22.1)	1.14	(29.0)	2.16	(54.9)	1.33	(33.8)	1.18	(30.0)	M16 X 1.5	.400	(10.2)	.138	(3.51)
03	.550	(14.0)	1.06	(26.9)	1.34	(34.0)	2.64	(67.1)	1.54	(39.1)	1.50	(38.1)	M20 X 1.5	.550	(14.0)	.197	(5.00)
04	.760	(19.3)	1.18	(30.0)	1.50	(38.1)	3.15	(80.0)	1.68	(42.7)	2.17	(55.1)	M24 X 1.5	.760	(19.3)	.236	(6.00)
05	.950	(24.1)	1.48	(37.6)	1.89	(48.0)	3.90	(99.1)	2.15	(54.6)	3.15	(80.0)	M30 X 1.5	.950	(24.1)	.335	(8.51)
06	1.49	(37.8)	1.61	(40.9)	2.05	(52.1)	5.12	(130)	2.33	(59.2)	3.90	(99.1)	M36 X 1.5	1.49	(37.8)	.394	(10.0)
07	1.58	(40.1)	2.17	(55.1)	2.64	(67.1)	5.12	(130)	2.68	(68.1)	3.90	(99.1)	M48 X 1.5	1.58	(40.1)	.394	(10.0)

Table II: Finish

Sym	Finish Description
XB	No Plating, Color Black

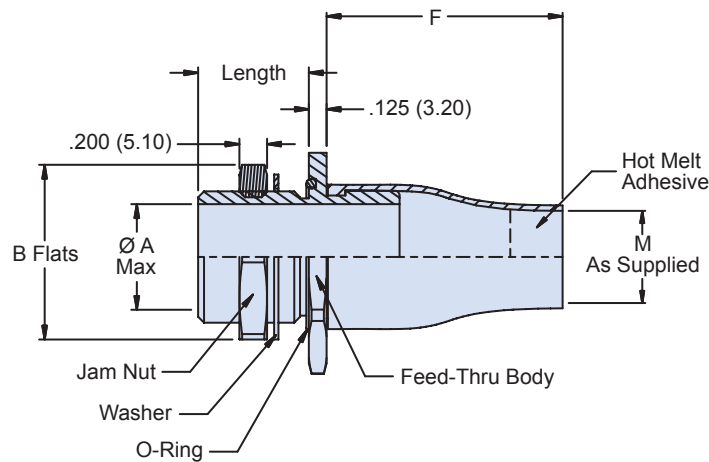


Table IV: Boot Material Selection Guide

Attribute	Type 1 High-Performance Semi-Rigid Elastomer	Type 2 Zero-Halogen Semi-Rigid Polyolefin	Type 3 General Purpose Flexible Polyolefin
Continuous Operating Temp.	-75° to +150° c	-30° to +135° c	-55° to +135° c
Resistance To Fuels, Oils	Excellent	Very Good	Good
Low Toxicity, Zero Halogen	No	Yes	No

Dimensions in Inches (millimeters) are subject to change without notice.



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