Composite Piggyback Boot Reference Guide
Material Selection and Finish

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

Connector Designator Reference		
Designator	**Specification**	**Series**
A	MIL-DTL-5015	MS3400
	MIL-DTL-26482	2
	AS81703	3
	MIL-DTL-83723	I & III
	40M39569	
	DEF 5326-3	
	EN 2997, 3646	
	ESC 10, 11	
	LN 29504	
	NFC93422	HE302
	PAN 6432-1, -2	
	PATT 602	
F	MIL-DTL-38999	I & II
	40M38277	
	PAN 6433-1	
	PATT 614	
	PATT 616	
	NFC93422	HE308, 9
G	MIL-DTL-28840	
H	MIL-DTL-38999	III & IV
	EN3645	
L	EN3372	
	JN 1003	
	LN 29729	
	NFC93422	HE306
	PAN 6433-2	
	PATT 615	
	VG 96912	
U	AS29600	

Composite Adpater Plating Codes	
Sym	Finish
XB	No Plating, Black
XZR	Conductive, Zinc Nickel, Black
XM	Conductive, Electroless Nickel
XMT	Conductive, Ni-PTFE *1000 Hour Grey™*
XW	Conductive, Cadmium O.D. Over Electroless Nickel

Composite Plating Code Cross-Reference		
Glenair Finish	**MIL-DTL-38999**	**AS85049**
XM	M	M
XW	J	J
XMT		XC

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

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**

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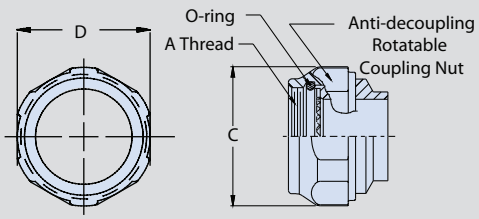
Table II - Connector Designator Interface Dimensions



ROTATABLE COUPLING

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 II: Connector Designator Interface Dimensions

SHELL SIZE FOR CONNECTOR DESIGNATOR					A THREAD REF	C MAX DIA	D FLATS REF
A	F/L	G	H	U			
-	08 [09]	-	-	-	7/16 - 28 UNEF	.86 (21.8)	0.75 (19.1)
-	-	-	09 [A]	-	M12 x 1 - 6H		
08	-	-	-	-	1/2 - 20 UNF		
-	-	-	-	08	1/2 - 28 UNEF	.98 (24.9)	0.88 (22.4)
03	10 [11]	-	-	-	9/16 - 24 UNEF		
-	-	-	11 [B]	-	M15 x 1 - 6H		
10	-	-	-	-	5/8 - 24 UNEF		
				10	5/8 - 24 UN	1.16 (29.5)	1.00 (25.4)
-	12 [13]	-	-	-	11/16 - 24 UNEF		
-	-	-	13 [C]	-	M18 x 1 - 6H		
12 [7]	-	11	-	-	3/4 - 20 UNEF		
				12	3/4 - 28 UNS	1.28 (32.50)	1.13 (28.7)
-	14 [15]	-	-	-	13/16 - 20 UNEF		
-	-	-	15 [D]	-	M22 x 1 - 6H		
14 [12]	-	13	-	-	7/8 - 20 UNEF		
-	16 [17]	-	-	-	15/16 - 20 UNEF	1.41 (35.8)	1.25 (31.8)
-	-	-	17 [E]	-	M25 x 1 - 6H		
16 [19]	-	15	-	-	1 - 20 UNEF		
-	-	-	-	16	1 - 28 UN	1.52 (38.6)	1.38 (35.1)
18 [27]	18 [19]	-	-	-	1 1/16 - 18 UNEF		
-	-	-	19 [F]	-	M28 x 1 - 6H		
-	-	17	-	-	1 1/8 - 18 UNEF		
-	-	-	-	18	1 1/8 - 28 UN	1.64 (41.70)	1.50 (38.1)
20 [37]	20 [21]	-	-	-	1 3/16 - 18 UNEF		
-	-	-	21 [G]	-	M31 x 1 - 6H		
-	-	19	-	-	1 1/4 - 18 UNEF		
-	-	-	-	20	1 1/4 - 28 UNEF	1.77 (45.0)	1.63 (41.4)
22	22 [23]	-	-	-	1 5/16 - 18 UNEF		
-	-	-	23 [H]	-	M34 x 1 - 6H		
-	-	-		22	1 3/8 - 28 UN	1.89 (48.0)	1.75 (44.5)
24	24 [25]	23	-	-	1 7/16 - 18 UNEF		
-	-	-	25 [J]	-	M37 x 1 - 6H		
61	-	-	-	-	1 1/2 - 18 UNEF		
-	-	-	-	24	1 1/2 - 28 UN	2.02 (51.3)	1.88 (47.8)
-	-	25	-	-	1 9/16 - 18 UNEF		
28	-	-	-	-	1 3/4 - 18 UNS	2.15 (54.6)	2.00 (50.8)