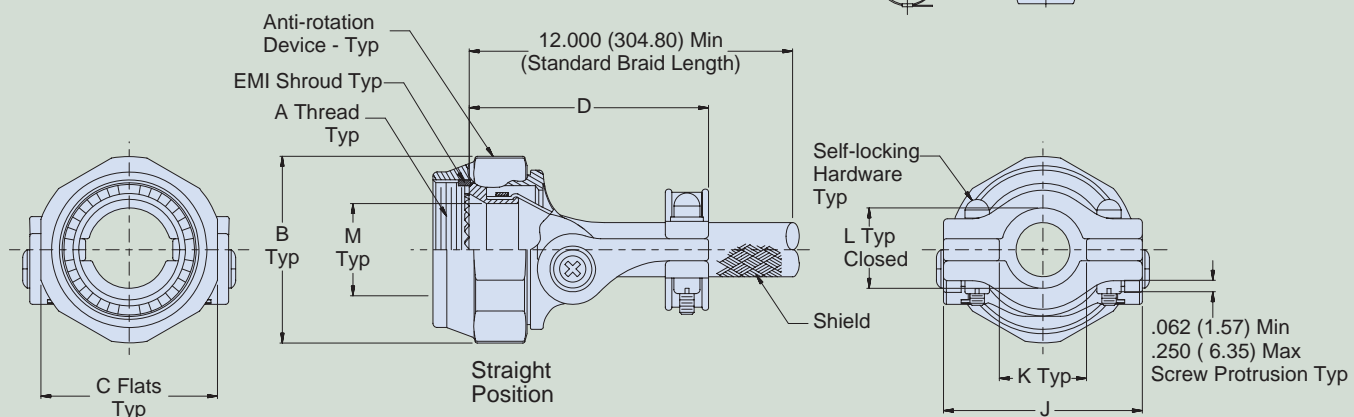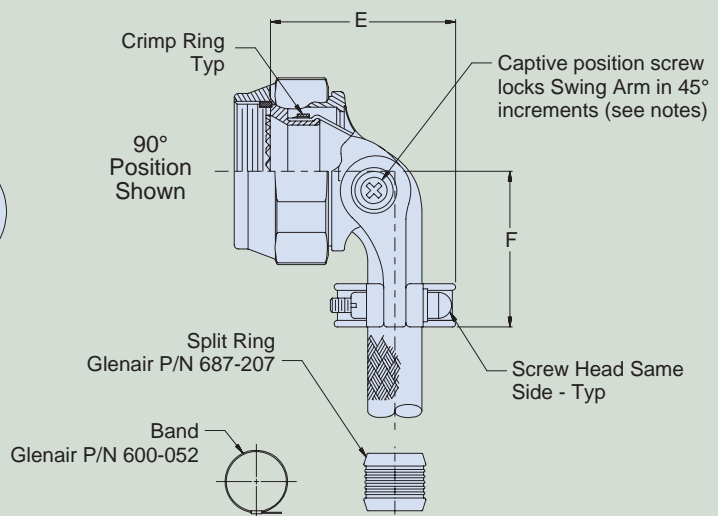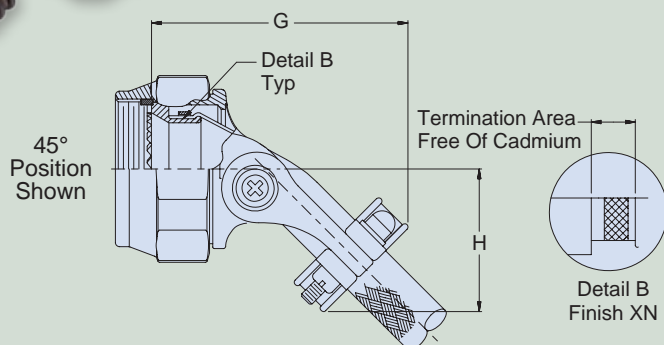# Swing-Arm 3-in-1 lightweight composite backshell with integrated EMI/RFI shield sock

319-180 standard entry

Glenair®

COMPOSITE BACKSHELL WITH SHIELD SOCK AND SELF-LOCKING ROTATABLE COUPLING NUT

How To Order								
Sample Part Number		**319**	**H**	**180**	**XB**	**15**	**B**	**R**	**14**

Basic Part Number	**319** - Swing-Arm backshell with shield sock
Connector Designator	**A** = MIL-DTL-83723 Series 3 **F** = MIL-DTL-38999 Series I and II* **H** = MIL-DTL-38999 Series III &IV
Basic Number	**180**
Finish Symbol	See Table II
Dash Number	See Dimensions Table I
Optional Braid Material	**See** Table III. **Omit** for standard Nickel/Copper 34AWG)
Split Ring Option	**R** = Supplied with Split Ring (687-207) and Band (600-052). **Omit** for none.
Custom Braid Length	Specify in Inches. **Omit** For Standard 12" Length

45° Position Shown

G

Detail B Typ

Termination Area Free Of Cadmium

H

Detail B Finish XN

Crimp Ring Typ

E

90° Position Shown

Captive position screw locks Swing Arm in 45° increments (see notes)

F

Split Ring Glenair P/N 687-207

Band Glenair P/N 600-052

Screw Head Same Side - Typ

Anti-rotation Device - Typ

EMI Shroud Typ

A Thread Typ

B Typ

M Typ

C Flats Typ

12.000 (304.80) Min (Standard Braid Length)

D

Straight Position

Shield

Self-locking Hardware Typ

L Typ Closed

K Typ

J

.062 (1.57) Min .250 (6.35) Max Screw Protrusion Typ

Swing-Arm 3-in-1 lightweight composite backshell with integrated EMI/RFI shield sock

319-180 standard entry

SWING ARM®
COMPOSITE THREE-IN-ONE BACKSHELL

Table I

Connector Designator A			Connector Designator F			Connector Designator H			B Max Dia		C Flats			
											Max		Min	
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	In.	mm	In.	mm	In.	mm
08	08	1/2-20 UNF	08	08	7/16-28 UNEF	09	A	M12 x 1.0-6h	.812	20.6	.750	19.1	.736	18.7
10	10	5/8-24 UNEF	10	10	9/16-24 UNEF	11	B	M15 x 1.0-6H	.938	23.8	.875	22.2	.860	21.8
12	12	3/4-20 UNEF	12	12	11/16-24 UNEF	13	C	M18 x 1.0-6H	1.125	28.6	1.000	25.4	.980	24.9
14	14	7/8-20 UNEF	14	14	13/16-20 UNEF	15	D	M22 x 1.0-6H	1.250	31.8	1.125	28.6	1.100	27.9
16	16	1-20 UNEF	16	16	15/16-20 UNEF	17	E	M25 x 1.0-6H	1.375	34.9	1.250	31.8	1.224	31.1
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	1.375	34.9	1.348	34.2
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	1.500	38.1	1.469	37.3
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	1.625	41.3	1.581	40.2
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	1.750	44.5	1.690	42.9

Table I (continued)

Shell Size A,F	Shell Size H	D Max		E Max		F Max		G Max		H Max		J Max		K Min		L Max		M Diameter A Code Min		M Diameter F Code Min		M Diameter H Code Min	
		In.	mm	In.	mm	In.	mm	In.	mm	In.	mm	In.	mm	In.	mm	In.	mm	In.	mm	In.	mm	In.	mm
08	09	1.50	38.1	.95	24.1	.84	21.3	1.43	36.3	.76	19.3	.98	24.9	.22	5.6	.265	6.7	.264	6.7	.264	6.7	.264	6.7
10	11	1.54	39.1	.99	25.1	.90	22.9	1.49	37.8	.82	20.8	1.05	26.7	.27	6.9	.310	7.9	.365	9.3	.392	10.0	.390	9.9
12	13	1.62	41.1	1.14	29.0	1.00	25.4	1.64	41.7	.92	23.4	1.2	30.5	.35	8.9	.390	9.9	.498	12.6	.506	12.9	.504	12.8
14	15	1.63	41.4	1.24	31.5	1.07	27.2	1.73	43.9	.98	24.9	1.3	33.0	.47	11.9	.506	12.9	.575	14.6	.631	16.0	.630	16.0
16	17	1.73	43.9	1.36	34.5	1.13	28.7	1.86	47.2	1.08	27.4	1.44	36.6	.55	14.0	.591	15.0	.700	17.8	.756	19.2	.756	19.2
18	19	1.88	47.8	1.46	37.1	1.20	30.5	1.93	49.0	1.12	28.4	1.56	39.6	.62	15.7	.661	16.8	.779	19.8	.844	21.4	.843	21.4
20	21	1.88	47.8	1.55	39.4	1.26	32.0	2.08	52.8	1.21	30.7	1.69	42.9	.70	17.8	.744	18.9	.904	23.0	.970	24.6	.969	24.6
22	23	1.91	48.5	1.63	41.4	1.33	33.8	2.15	54.6	1.27	32.3	1.77	45.0	.78	19.8	.826	21.0	1.029	26.1	1.094	27.8	1.091	27.7
24	25	1.94	49.3	1.70	43.2	1.40	35.6	2.23	56.6	1.33	33.8	1.89	48.0	.85	21.6	.896	22.8	1.144	29.1	1.219	31.0	1.217	30.9

Table II - Finish

Sym	Finish Description
XB	No Plating, Black
XM	Electroless Nickel
XMT	Ni-PTFE, Nickel-Fluorocarbon Polymer
XN	Selective Plating, Nickel & CAD O.D., See Detail B

Table III - Braid Material

Sym	Braid
A	100% AmberStrand®
B	75%/25% AmberStrand® Blend
(omit)	Standard Nickel/Copper 34 AWG
L	ArmorLite™
M	75%/25% ArmorLite™ Blend
T	Tin/Copper 34 AWG
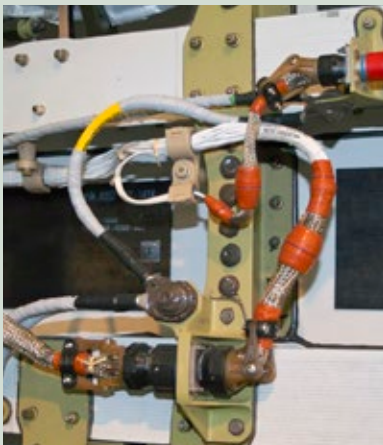
NOTES

- Glenair Series 600 Assembly Tools are recommended for assembly and installation.
- Swing arm locks in 45° increments, shell size 09 through 25. Additional positioning increments are manufacturer's option.
- Screw is captive to the arm when disengaged. When tightened, the screw will not protrude into the inside surfaces.
- *Add Mod Code **-475** to end of part number for use with Series II connector. Backshell to be supplied less shroud.
- Metric dimensions (mm) indicated in parentheses.

MATERIAL/FINISH:

Clamp body, coupling nut, saddles - High grade thermoplastic/See Table III.
Clamp hardware - CRES/Passivate
Crimp ring - Copper/Tin plated.

D

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Glenair](#):
  319H180XB11TR 319H180XB25TR 319H180XB17TR 319H180XB23TR 319H180XB21TR 319H180XB09TR 319H180XB15TR 319H180XB13TR 319H180XB19TR