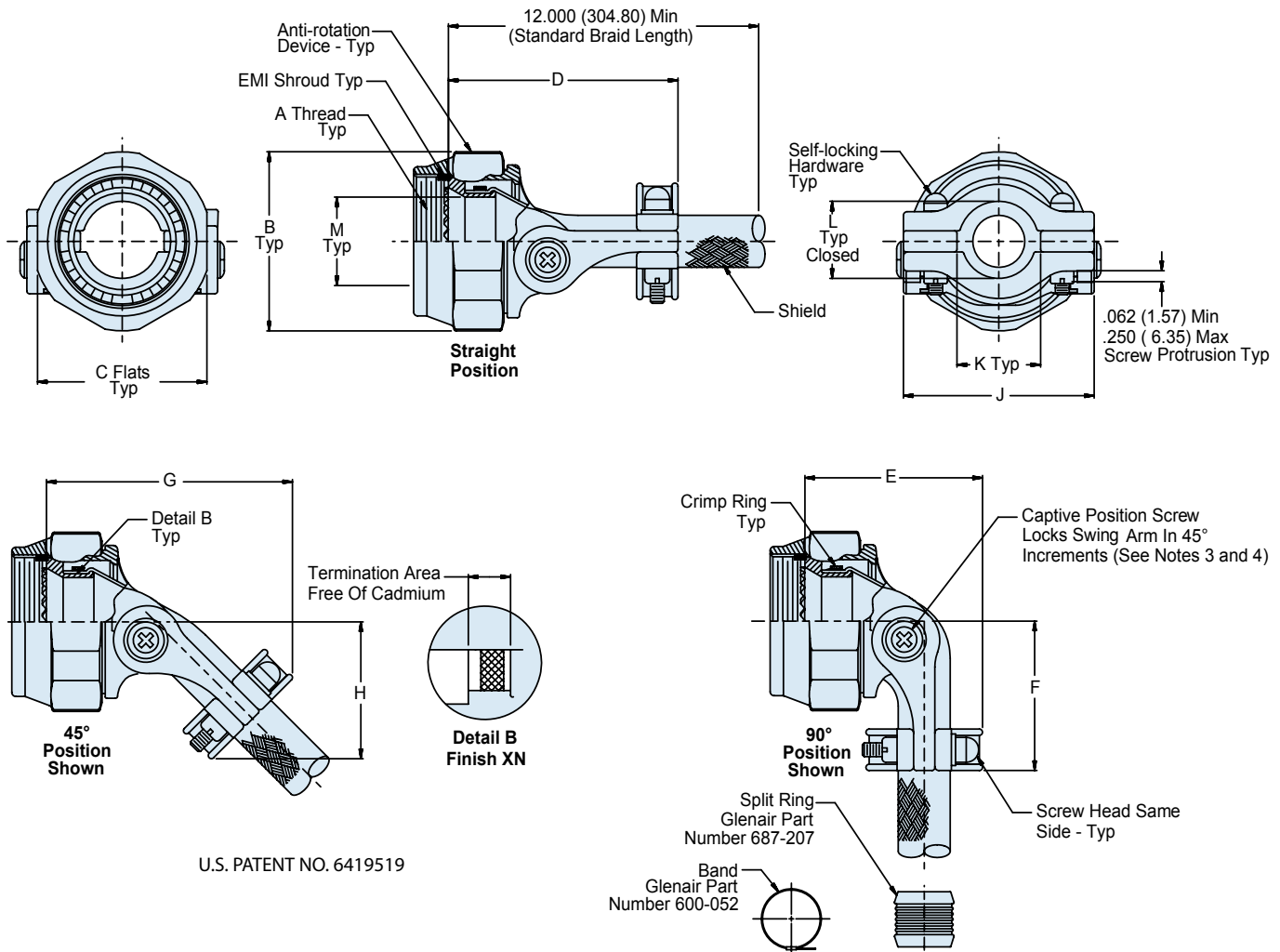
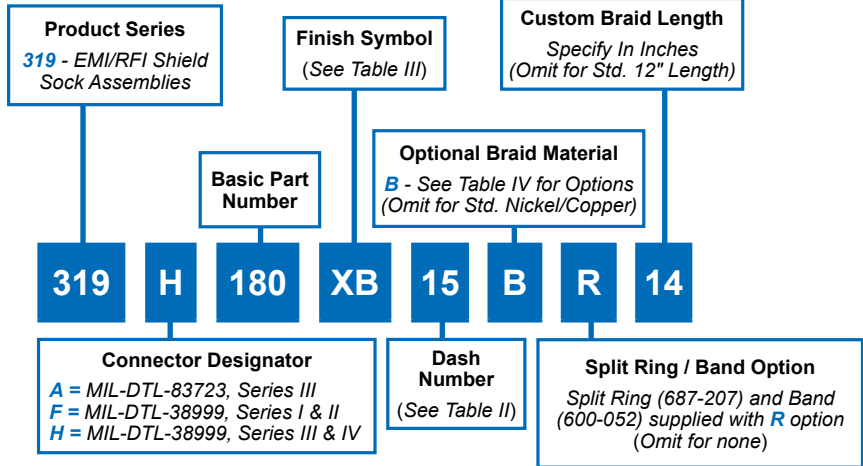


# 319-180 Composite Swing-Arm Strain Relief with Shield Sock and Self-Locking Rotatable Coupling

A

CONNECTOR DESIGNATOR:	
<b>A</b>	MIL-DTL-83723, Series III
<b>F</b>	MIL-DTL-38999 Series I, II
<b>H</b>	MIL-DTL-38999 Series III and IV
<b>SELF-LOCKING</b>	
<b>ROTATABLE COUPLING</b>	



U.S. PATENT NO. 6419519

# 319-180

## Composite Swing-Arm Strain Relief with Shield Sock and Self-Locking Rotatable Coupling



**TABLE II: SHELL SIZE (Continued Below)**

Connector Designator A			Connector Designator F*			Connector Designator H			B Max Dia	C Flats		D Max	E Max	F Max
Dash No.	Shell Size Ref	A Thread Class 2 B	Dash No.	Shell Size Ref	A Thread Class 2 B	Dash No.	Shell Size Ref	A Thread ISO Metric		Max	Min			
08	08	1/2-20 UNF	08	08	7/16-28 UNF	09	A	M12 X 1.0-6H	.812 (20.62)	.750 (19.05)	.736 (18.69)	1.500 (38.10)	.950 (24.13)	.840 (21.34)
10	10	5/8-24 UNEF	10	10	9/16-24 UNEF	11	B	M15 X 1.0-6H	.938 (23.83)	.875 (22.23)	.860 (21.84)	1.540 (39.12)	.990 (25.15)	.900 (22.86)
12	12	3/4-20 UNEF	12	12	11/16-24 UNEF	13	C	M18 X 1.0-6H	1.125 (28.58)	1.000 (25.40)	.980 (24.89)	1.620 (41.15)	1.140 (28.96)	1.000 (25.40)
14	14	7/8-20 UNEF	14	14	13/16-20 UNEF	15	D	M22 X 1.0-6H	1.250 (31.75)	1.125 (28.58)	1.100 (27.94)	1.630 (41.40)	1.240 (31.50)	1.070 (27.18)
16	16	1-20 UNEF	16	16	15/16-20 UNEF	17	E	M25 X 1.0-6H	1.375 (34.93)	1.250 (31.75)	1.224 (31.09)	1.730 (43.94)	1.360 (34.54)	1.130 (28.70)
18	18	1 1/16-18 UNEF	18	18	1 1/16-18 UNEF	19	F	M28 X 1.0-6H	1.500 (38.10)	1.375 (34.93)	1.348 (34.24)	1.730 (43.94)	1.460 (37.08)	1.200 (30.48)
20	20	1 3/16-18 UNEF	20	20	1 3/16-18 UNEF	21	G	M31 X 1.0-6H	1.625 (41.28)	1.500 (38.10)	1.469 (37.31)	1.880 (47.75)	1.550 (39.37)	1.260 (32.00)
22	22	1 5/16-18 UNEF	22	22	1 5/16-18 UNEF	23	H	M34 X 1.0-6H	1.750 (44.45)	1.625 (41.28)	1.581 (40.16)	1.910 (48.51)	1.630 (41.40)	1.330 (33.78)
24	24	1 7/16-18 UNEF	24	24	1 7/16-18 UNEF	25	J	M37 X 1.0-6H	1.875 (47.63)	1.750 (44.45)	1.690 (42.93)	1.940 (49.28)	1.700 (43.18)	1.400 (35.56)

\* See Note 6

**TABLE II: SHELL SIZE (Continued from Above)**

G Max	H Max	J Max	K Min	L Max	M Min
1.430 (36.32)	.760 (19.30)	.980 (24.89)	.220 (5.59)	.265 (6.73)	.264 (6.71)
1.490 (37.85)	.820 (20.83)	1.050 (26.67)	.270 (6.86)	.310 (7.87)	.390 (9.91)
1.640 (41.66)	.920 (23.37)	1.200 (30.48)	.350 (8.89)	.390 (9.91)	.504 (12.80)
1.730 (43.94)	.980 (24.89)	1.300 (33.02)	.470 (11.94)	.506 (12.85)	.630 (16.00)
1.860 (47.24)	1.080 (27.43)	1.440 (36.58)	.550 (13.97)	.591 (15.01)	.756 (19.20)
1.930 (49.02)	1.120 (28.45)	1.560 (39.62)	.620 (15.75)	.661 (16.79)	.843 (21.41)
2.080 (52.93)	1.210 (30.73)	1.690 (42.93)	.700 (17.78)	.744 (18.90)	.969 (24.61)
2.150 (54.61)	1.270 (32.26)	1.770 (44.96)	.780 (19.81)	.826 (20.98)	1.091 (27.71)
2.230 (56.64)	1.330 (33.78)	1.890 (48.01)	.850 (21.59)	.896 (22.76)	1.217 (30.91)

**TABLE III: FINISH**

Symbol	Finish
<b>XB</b>	Composite Material—No Plating, Color Black, Brass Interface Shroud and Adapter—Nickel Plated
<b>XMT</b>	2000 Hour Corrosion Resistant Ni-PTFE, Nickel-Fluorocarbon Polymer. <i>1000 Hour Grey™</i>
<b>XN</b>	Composite Material—No Plating, Color Black and Brown, Brass Interface Shroud and Adapter—Selectively Cadmium Plated (See Detail B)

**TABLE IV: BRAID TYPE**

Symbol	Braid Type
A	100% AmberStrand®
B	75%/25% AmberStrand® Blend
L	100% ArmorLite™
Standard	Nickel/Copper 34awg
T	Tin/Copper 34awg

**NOTES**

- See Table I in Intro for front-end dimensional details.
- 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.
- Material/Finish:  
Clamp body, coupling nut, saddles - High grade thermoplastic/See Table III.  
Clamp hardware - CRES/Passivate  
Shield - See Table IV.  
Interface ring and shroud - Table III.  
Crimp ring - Copper/Tin plated.
- 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.