

MIL-DTL-38999 Series I Type 870F002 Swing-Arm® saddle clamp, braid sock, composite



Self-Locking

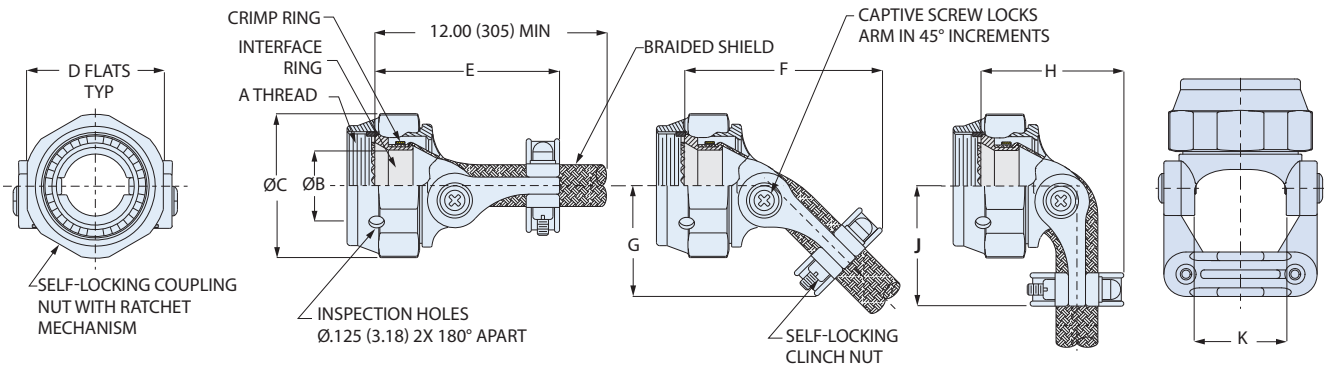
FEATURES

- Composite Swing-Arm saddle clamp with integrated shield sock for use with MIL-DTL-38999 Series I and II connectors.
- Supplied with 12 inches (305 mm) of shield braid attached to metal interface ring.
- Braid choices include 34 AWG nickel/copper, 34 AWG tin/copper, ultralightweight AmberStrand® or microfilament nickel/SST Armorlite®.
- Swing-Arm coupling nut has anti-decoupling mechanism with audible detented coupling
- Adjustable arms with captive screwlocks pivot to 0°, 45° or 90° positions.
- Full radius saddles have self-locking clinch nuts and are available in two clamp sizes: standard clamp fits most wire bundles, large clamp has increased clearance for oversize wire bundles.

HOW TO ORDER							
Sample Part Number	870F002	BM	22	A	N	J	14
Basic Part Number	870f002						
Interface Ring Material/Finish	See Table I						
Shell Size	09, 11, 13, 15, 17, 19, 21, 23, 25						
Clamp Size	See Clamp Dimensions on next page A = Standard Clamp B = Large Clamp						
Band Type	N = 34 AWG Nickel/Copper Braid T = 34 AWG Tin/Copper Braid A = AmberStrand® Nickel/Composite Braid L = Microfilament ArmorLite® Nickel/SST Braid						
Splice Ring and Band	Omit if not required K = Splice ring and standard band J = Splice ring and slim standard band						
Braid Length	Omit for standard 12 inch length 14 = Length in 1 inch increments, 6 inch min "14" = 14 inches.						

TABLE 1: INTERFACE RING MATERIAL / FINISH

Aluminum		Brass	
M	Electroless Nickel	BM	Electroless Nickel
NF	Olive Drab Cadmium and Electroless Nickel (Figure 1)	BN	Olive Drab Cadmium and Electroless Nickel (Figure 1)
MT	Nickel-PTFE	BMT	Nickel-PTFE
TZ	Tin-Zinc		
ZR	Black Zinc-Nickel		



Shell Size	A Thread UNEF-2B	ø B Min	ø C Max	D Flats	E Max	F Max	G Max	H Max	J Max	K Ref.
8/9	0.4375-28	.264 (6.71)	.812 (20.62)	.750 (19.05)	1.50 (38.10)	1.43 (36.32)	.76 (19.30)	.95 (24.13)	.84 (21.34)	.393 (9.98)
10/11	0.5625-24	.392 (9.96)	.938 (23.83)	.875 (22.23)	1.54 (39.12)	1.49 (37.85)	.82 (20.83)	.99 (25.15)	.90 (22.86)	.455 (11.56)
12/13	0.6875-24	.506 (12.85)	1.125 (28.58)	1.000 (25.40)	1.62 (41.15)	1.64 (41.66)	.92 (23.37)	1.14 (28.96)	1.00 (25.40)	.598 (15.19)
14/15	0.8125-20	.631 (16.03)	1.250 (31.75)	1.125 (28.58)	1.63 (41.40)	1.73 (43.94)	.98 (24.89)	1.24 (31.50)	1.07 (27.18)	.710 (18.03)
16/17	0.9375-20	.756 (19.20)	1.375 (34.92)	1.250 (31.75)	1.73 (43.94)	1.86 (47.24)	1.08 (27.43)	1.36 (34.54)	1.13 (28.70)	.839 (21.31)
18/19	1.0625-18	.844 (21.44)	1.500 (38.10)	1.375 (34.92)	1.73 (43.94)	1.93 (49.02)	1.12 (28.45)	1.46 (37.08)	1.20 (30.48)	.934 (23.72)
20/21	1.1875-18	.970 (24.64)	1.625 (41.28)	1.500 (38.10)	1.88 (47.75)	2.08 (52.83)	1.21 (30.73)	1.55 (39.37)	1.26 (32.00)	1.068 (27.13)
22/23	1.3125-18	1.094 (27.79)	1.750 (44.45)	1.625 (41.28)	1.91 (48.51)	2.15 (54.61)	1.27 (32.26)	1.63 (41.40)	1.33 (33.78)	1.197 (30.40)
24/25	1.4375-18	1.219 (30.96)	1.875 (47.63)	1.750 (44.45)	1.94 (49.28)	2.23 (56.64)	1.33 (33.78)	1.70 (43.18)	1.40 (35.56)	1.323 (33.60)

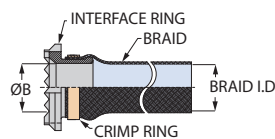
MIL-DTL-38999 Series I Type
870F002 Swing-Arm® saddle clamp, braid sock, composite

		CLAMP DIMENSIONS							
		Standard Clamp				Large Clamp			
		Shell Size	L Max	M Min	N Ref.	Shell Size	P Max	R Min	S Ref.
TYPE A STANDARD CLAMP	CLOSED	08	.98 (24.89)	.22 (5.59)	.265 (6.73)	08	.98 (24.89)	.33 (8.38)	.356 (9.04)
		10	1.05 (26.67)	.27 (6.86)	.310 (7.87)	10	1.20 (30.48)	.45 (11.43)	.422 (10.72)
TYPE B LARGE CLAMP	CLOSED	12	1.20 (30.48)	.35 (8.89)	.422 (10.72)	12	1.45 (36.83)	.62 (15.75)	.637 (16.18)
		14	1.30 (33.02)	.47 (11.94)	.538 (13.67)	14	1.54 (39.12)	.68 (17.27)	.707 (17.96)
		16	1.44 (36.58)	.55 (13.97)	.590 (14.99)	16	1.60 (40.64)	.80 (20.32)	.759 (19.28)
		18	1.56 (39.62)	.62 (15.75)	.660 (16.76)	18	1.73 (43.94)	.90 (22.86)	.841 (21.36)
		20	1.69 (42.93)	.70 (17.78)	.744 (18.90)	20	1.95 (49.53)	1.05 (26.67)	.996 (25.30)
		22	1.77 (44.96)	.78 (19.81)	.826 (20.98)	22	2.08 (52.83)	1.18 (29.97)	1.060 (26.92)
		24	1.89 (48.01)	.85 (21.59)	.896 (22.76)	24	2.32 (58.93)	1.30 (33.02)	1.124 (28.55)

MATERIAL/FINISH

Coupling nut, body, arms, saddles: polyetherimide (PEI)/unplated
Screws, washers, inserts: stainless steel/passivated
Anti-decoupling spring: thermoplastic
Interface Ring: brass or aluminum
Crimp ring: copper alloy/tin
Splice ring (optional): thermoplastic
Clinch Nuts: stainless steel/silver
Band (optional): stainless steel/passivated
Braid:
Code N: 34 AWG nickel-coated copper
Code T: 34 AWG tin-coated copper,
Code A: AmberStrand® ultralightweight nickel-coated polymer
Code L: ArmorLite® lightweight microfilament nickel-coated 316L stainless steel

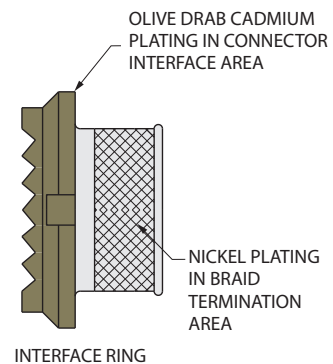
INTERFACE RING AND BRAID



Shell Size	ø B Min	Braid I.D.
08	.264 (6.71)	.375 (9.52)
10	.392 (9.96)	.375 (9.52)
12	.506 (12.85)	.500 (12.70)
14	.631 (16.03)	.500 (12.70)
16	.756 (19.20)	.781 (19.84)
18	.844 (21.44)	.781 (19.84)
20	.970 (24.64)	1.000 (25.40)
22	1.094 (27.79)	1.000 (25.40)
24	1.219 (30.96)	1.250 (31.75)

FIGURE 1

NF and BN selective finish



SPLICE RING AND PRE-COILED BAND (K AND J OPTIONS)



Splice Ring

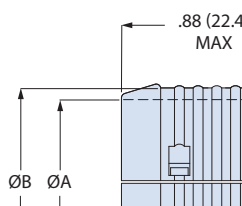


Band

Optional splice ring provides a reliable, low resistance method of splicing Swing-Arm braid to wire bundle braid. Snap splice ring over wire bundle, then overlap braid sock, pigtails and cable braid. install band around splice ring and braid using Band-Master ATS banding tool.

Slim Standard Band is 50% lighter weight than standard band with no reduction in strength.

Shell Size	Band Part Number		Splice Ring Part Number	øA ± .03 (0.8)	øB ± .03 (0.8)
	Standard	Slim Standard			
08	601-006	601-571	687-207XB04	.25 (6.35)	.40 (10.16)
10	601-006	601-571	687-207XB06	.38 (9.65)	.53 (13.46)
12	601-006	601-571	687-207XB08	.50 (12.70)	.65 (16.51)
14	601-006	601-571	687-207XB10	.63 (16.00)	.78 (19.81)
16	601-006	601-571	687-207XB12	.75 (19.05)	.90 (22.86)
18	601-041	601-571	687-207XB14	.88 (22.35)	1.03 (26.16)
20	601-041	601-573	687-207XB16	1.00 (25.40)	1.15 (29.21)
22	601-041	601-573	687-207XB18	1.13 (28.70)	1.28 (32.51)
24	601-041	601-573	687-207XB20	1.25 (31.75)	1.40 (35.56)



Banding Tool for Standard Band
601-100



Banding Tool for Slim Standard Band
601-109