



Swing-Arm® Clamps

for MIL-DTL-38999 Series I and II Connectors

870F003 Swing-Arm Saddle Clamp, Braid Sock, SST/Aluminum

Self-Locking



Adapter Code F

This accessory fits these connectors:
MIL-DTL-38999 Series I and Series II

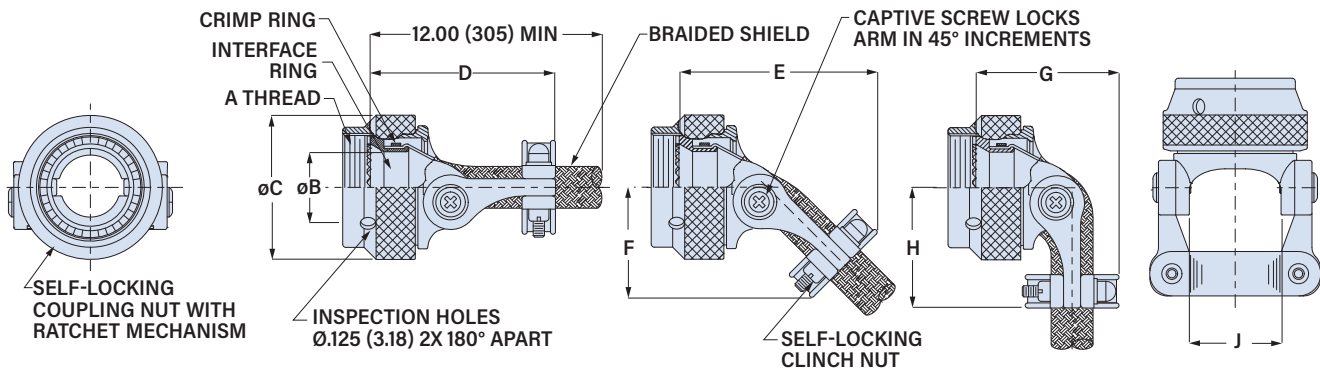
TABLE 1 MATERIAL / FINISH

Aluminum	
M	Electroless nickel
NF	Olive drab cadmium, selective (fig. 1)
MT	Nickel-PTFE
TZ	Tin-zinc
ZR	Black zinc-nickel
Stainless Steel, Passivated	
BM	Brass interface ring, nickel plated
BMT	Brass interface ring, nickel-PTFE plated
ZI	SST interface ring, passivated
ZM	SST interface ring, nickel plated

Shielded, self-locking, adjustable arms. 870F003 stainless steel or aluminum Swing-Arm saddle clamp fits MIL-DTL-38999 Series I and II connectors. Adjustable arms pivot to 0°, 45° or 90° positions. 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®. Full radius saddles have self-locking clinch nuts. Available in two clamp sizes: standard clamp fits most wire bundles, large clamp has increased clearance for oversize wire bundles. Coupling nut has anti-decoupling mechanism for audible detented coupling and prevents backoff under high vibration.

PART NUMBER

870F003	M	12	B	L	K	14				
Base P/N	870F003									
Material/Finish	See Table 1									
Shell Size	Shell Size									
	38999 Series I	9	11	13	15	17	19	21	23	25
Shell Size	38999 Series II	8	10	12	14	16	18	20	22	24
	Size Code	08	10	12	14	16	18	20	22	24
Clamp Size	See Clamp Dimensions on next page									
	A	Standard Clamp								
Braid Type	N	34 AWG Nickel/Copper Braid								
	T	34 AWG Tin/Copper Braid								
Splice Ring and Band	A	AmberStrand® Nickel/Composite Braid								
	L	Microfilament ArmorLite® Nickel/SST Braid								
Braid Length	Omit if not required. See "Splice Ring and Band" on next page.									
	K	Splice ring and standard band								
Clamp Size	J	Splice ring and slim standard band								
	Omit for standard 12 inch length									
Clamp Size	14	Length in 1 inch increments, 6 inch min "14" = 14 inches.								



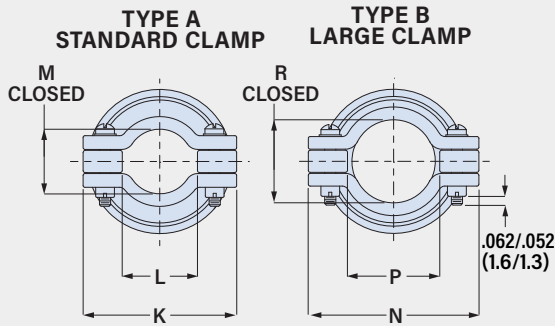
Shell Size	A Thread	ø B Min	ø C Max	D Max	E Max	F Max	G Max	H Max	J Ref.
	UNE-F-2B	in	mm	in	mm	in	mm	in	mm
8/9	0.4375-28	.264	6.7	.812	20.6	1.50	38.1	1.43	36.3
10/11	0.5625-24	.392	10.0	.938	23.8	1.54	39.1	1.49	37.8
12/13	0.6875-24	.506	12.9	1.125	28.6	1.62	41.1	1.64	41.7
14/15	0.8125-20	.631	16.0	1.250	31.8	1.63	41.4	1.73	43.9
16/17	0.9375-20	.756	19.2	1.375	34.9	1.73	43.9	1.86	47.2
18/19	1.0625-18	.844	21.4	1.500	38.1	1.73	43.9	1.93	49.0
20/21	1.1875-18	.970	24.6	1.625	41.3	1.88	47.8	2.08	52.8
22/23	1.3125-18	1.094	27.8	1.750	44.5	1.91	48.5	2.15	54.6
24/25	1.4375-18	1.219	31.0	1.875	47.6	1.94	49.3	2.23	56.6

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CLAMP DIMENSIONS



Standard Clamp						Large Clamp							
Shell Size	K Max	L Min	M Ref.			Shell Size	N Max	P Min	R Ref.				
	in	mm	in	mm	in	mm	in	mm	in	mm	in		
08	.98	24.9	.22	5.6	.265	6.7	08	.98	24.9	.33	8.4	.356	9.0
10	1.05	26.7	.27	6.9	.310	7.9	10	1.20	30.5	.45	11.4	.422	10.7
12	1.20	30.5	.35	8.9	.422	10.7	12	1.45	36.8	.62	15.7	.637	16.2
14	1.30	33.0	.47	11.9	.538	13.7	14	1.54	39.1	.68	17.3	.707	18.0
16	1.44	36.6	.55	14.0	.590	15.0	16	1.60	40.6	.80	20.3	.759	19.3
18	1.56	39.6	.62	15.7	.660	16.8	18	1.73	43.9	.90	22.9	.841	21.4
20	1.69	42.9	.70	17.8	.744	18.9	20	1.95	49.5	1.05	26.7	.996	25.3
22	1.77	45.0	.78	19.8	.826	21.0	22	2.08	52.8	1.18	30.0	1.060	26.9
24	1.89	48.0	.85	21.6	.896	22.8	24	2.32	58.9	1.30	33.0	1.124	28.5

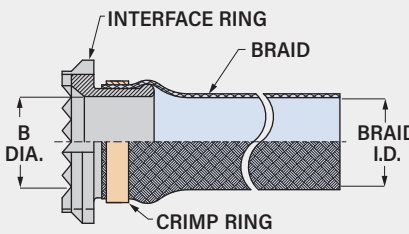
MATERIAL/FINISH

Aluminum (Codes M, MT, NF, TZ, ZR)
Coupling nut, body, arms, saddles, interface ring: aluminum
Crimp Ring: copper alloy/ tin plated
Screws, washers, inserts: stainless steel/ passivated
Anti-decoupling spring: thermoplastic
Clinch nuts: Codes M, MT, TZ and ZR: stainless steel, silver plated. Code NF: stainless steel/ olive drab cadmium

Stainless Steel (Codes BM, BMT, Z1, ZM)
Coupling nut, body, arms, saddles, anti-decoupling springs, screws, washers, inserts: stainless steel, passivated
Crimp Ring: copper alloy/ tin plated
Clinch nuts: stainless steel, silver plated
interface ring: brass (codes BM, BMT) or stainless steel (Z1, ZM)

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



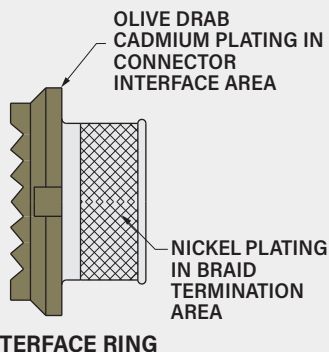
Shell Size	ø B Min	Braid I.D.		
	in	mm	in	mm
08	.264	6.7	.375	9.5
10	.392	10.0	.375	9.5
12	.506	12.9	.500	12.7
14	.631	16.0	.500	12.7
16	.756	19.2	.781	19.8
18	.844	21.4	.781	19.8
20	.970	24.6	1.000	25.4
22	1.094	27.8	1.000	25.4
24	1.219	31.0	1.250	31.8

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

Optional splice ring provides a reliable, low resistance method of splicing Swing-Arm braid sock 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.



FIGURE 1
NF SELECTIVE FINISH



Shell Size	Band Part Number		Split Ring Part Number	øA		øB	
	Standard	Slim Standard		± .03 (0.8)	± .03 (0.8)	in	mm
08	601-006	601-571	687-207XB04	.25	6.4	.40	10.2
10	601-006	601-571	687-207XB06	.38	9.7	.53	13.5
12	601-006	601-571	687-207XB08	.50	12.7	.65	16.5
14	601-006	601-571	687-207XB10	.63	16.0	.78	19.8
16	601-006	601-571	687-207XB12	.75	19.1	.90	22.9
18	601-041	601-572	687-207XB14	.88	22.4	1.03	26.2
20	601-041	601-573	687-207XB16	1.00	25.4	1.15	29.2
22	601-041	601-573	687-207XB18	1.13	28.7	1.28	32.5
24	601-041	601-573	687-207XB20	1.25	31.8	1.40	35.6