

Swing-Arm® Clamps

for MIL-DTL-38999 Series III and IV Connectors

871H003 Swing-Arm Flex Clamp with Braid Sock, Aluminum

Self-Locking



Shielded. Lightweight. Self-locking. Adjustable arms. 871H003 Swing-Arm Flex Clamp has aluminum coupling nut and body with thermoplastic flex arms. Fits MIL-DTL-38999 Series III and IV 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®. Coupling nut has anti-decoupling mechanism for audible detented coupling and prevents backoff under high vibration.

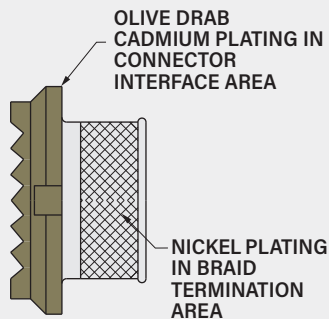
PART NUMBER

871H003 M 23 N J 14

Adapter Code H

This accessory fits these connectors:
MIL-DTL-38999 Series III and Series IV

FIGURE 1
NF SELECTIVE FINISH



INTERFACE RING

Base P/N 871H003

Material/Finish

- M** Electroless Nickel
- NF** O. D. Cadmium, Selective (Figure 1)
- MT** Nickel-PTFE
- TZ** Tin-Zinc
- ZR** Black Zinc-Nickel

Shell Size

Shell Size	9	11	13	15	17	19	21	23	25
Size Code	09	11	13	15	17	19	21	23	25

Braid Type

- N** 34 AWG Nickel/Copper Braid
- T** 34 AWG Tin/Copper Braid
- A** AmberStrand® Nickel/Composite Braid
- L** ArmorLite® Microfilament Nickel/SST Braid

Splice Ring and Band

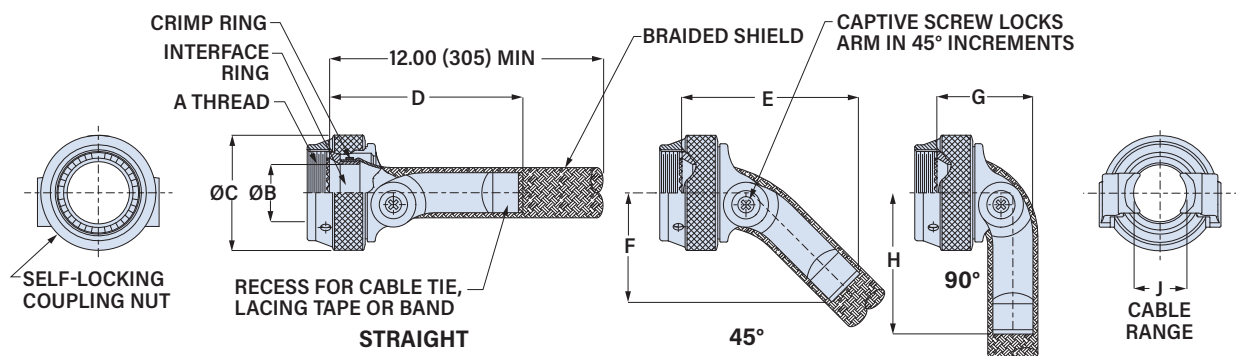
Omit if not required

- 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.



Shell Size	A Thread	Ø B Min		Ø C Max		D Max		E Max		F Max		G Max		H Max		J Ref.	
		in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	Max	Min
9 (A)	M12X1.0-6H	.264	6.7	.812	20.6	1.77	45.0	1.54	39.1	.84	21.3	.83	21.1	1.09	27.7	.393	10.0
11 (B)	M15X1.0-6H	.390	9.9	.938	23.8	1.77	45.0	1.54	39.1	.87	22.1	.83	21.1	1.12	28.4	.455	11.6
13 (C)	M18X1.0-6H	.504	12.8	1.125	28.6	2.05	52.1	1.85	47.0	1.07	27.2	1.01	25.7	1.41	35.8	.598	15.2
15 (D)	M22X1.0-6H	.630	16.0	1.250	31.8	2.05	52.1	1.85	47.0	1.13	28.7	1.01	25.7	1.47	37.3	.710	18.0
17 (E)	M25X1.0-6H	.756	19.2	1.375	34.9	2.26	57.4	2.10	53.3	1.26	32.0	1.17	29.7	1.65	41.9	.839	21.3
19 (F)	M28X1.0-6H	.843	21.4	1.500	38.1	2.26	57.4	2.10	53.3	1.32	33.5	1.17	29.7	1.71	43.4	.934	23.7
21 (G)	M31X1.0-6H	.969	24.6	1.625	41.3	2.72	69.1	2.51	63.8	1.60	40.6	1.33	33.8	2.09	53.1	1.068	27.1
23 (H)	M34X1.0-6H	1.091	27.7	1.750	44.5	2.72	69.1	2.51	63.8	1.64	41.7	1.33	33.8	2.13	54.1	1.097	30.4
25 (J)	M37X1.0-6H	1.217	30.9	1.875	47.6	2.93	74.4	2.73	69.3	1.81	46.0	1.42	36.1	2.38	60.5	1.323	33.6

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SPLICE RING AND BAND (K AND J OPTIONS)



Splice Ring



Pre-Coiled Band

Optional split 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	Precoiled Band Part Number	
	Standard	Slim Standard
All	601-041	601-573

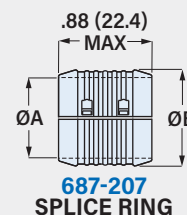


Banding Tool for Standard Band
601-100



Banding Tool for Slim Standard Band
601-109

Shell Size	Splice Ring Part Number	øA		øB	
		±.03 (0.8) in	mm	±.03 (0.8) in	mm
9 (A)	687-207XB04	.25	6.4	.40	10.2
11 (B)	687-207XB06	.38	9.7	.53	13.5
13 (C)	687-207XB08	.50	12.7	.65	16.5
15 (D)	687-207XB10	.63	16.0	.78	19.8
17 (E)	687-207XB12	.75	19.1	.90	22.9
19 (F)	687-207XB14	.88	22.4	1.03	26.2
21 (G)	687-207XB16	1.00	25.4	1.15	29.2
23 (H)	687-207XB18	1.13	28.7	1.28	32.5
25 (J)	687-207XB20	1.25	31.8	1.40	35.6



MATERIAL/FINISH

Coupling nut, body: aluminum

Flex arms: PEEK (PEI)/unplated, black

Screws, washers, inserts: stainless steel/passivated

Anti-decoupling spring: thermoplastic
interface ring: aluminum

Crimp ring: copper alloy/tin

Splice ring (optional): thermoplastic

Band (optional): stainless steel/passivated

Braid:

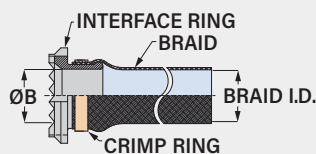
Code N: 34 AWG nickel-coated copper

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.	
	in	mm	in	mm
9 (A)	.264	6.7	.375	9.5
11 (B)	.390	9.9	.375	9.5
13 (C)	.504	12.8	.500	12.7
15 (D)	.630	16.0	.500	12.7
17 (E)	.756	19.2	.781	19.8
19 (F)	.843	21.4	.781	19.8
21 (G)	.969	24.6	1.000	25.4
23 (H)	1.091	27.7	1.000	25.4
25 (J)	1.217	30.9	1.250	31.8