

# Swing-Arm® Clamps

for MIL-DTL-38999 Series I and II Connectors

## 871F003 Swing-Arm Flex Clamp with Braid Sock, Aluminum

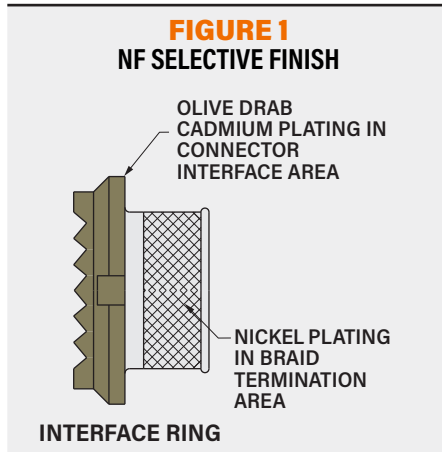
**Self-Locking**



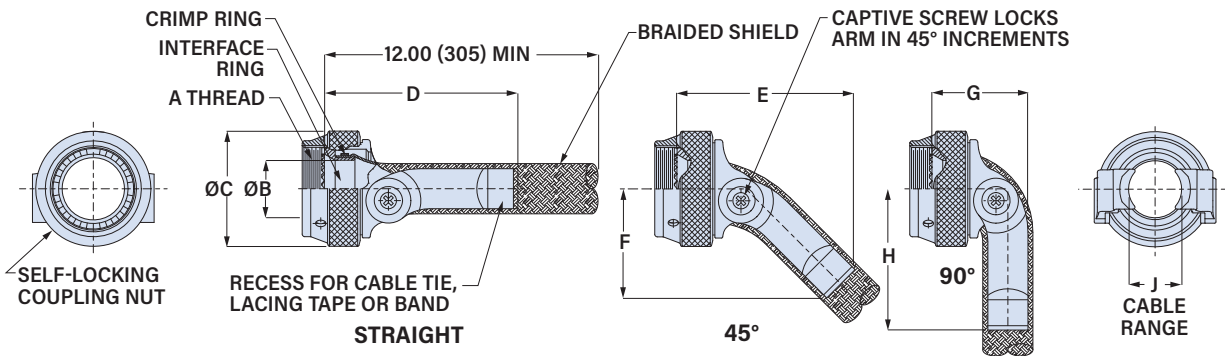
**Shielded. Lightweight. Self-locking. Adjustable arms.** 871F003 Swing-Arm Flex Clamp has aluminum coupling nut and body with thermoplastic flex arms. Fits MIL-DTL-38999 Series I and II connectors. Adjustable arms pivot to 0°, 45° or 90° positions. Supplied with 12 inches (305 mm) of shield braid attached to metal interface ring. Braid choices include 34 AWG nickel/copper, 34 AWG tin/copper, ultralightweight AmberStrand® or microfilament nickel/SST Armorlite®. Coupling nut has anti-decoupling mechanism for audible detented coupling and prevents backoff under high vibration.

**Adapter Code F**

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



<b>PART NUMBER</b>		871F003	M	22	N	J	14																														
<b>Base P/N</b>	871F003																																				
<b>Material/Finish</b>	<b>M</b> Electroless Nickel <b>NF</b> O. D. Cadmium, Selective (Figure 1) <b>MT</b> Nickel-PTFE <b>TZ</b> Tin-Zinc <b>ZR</b> Black Zinc-Nickel																																				
<b>Shell Size</b>	<table border="1"> <tr> <td>38999 Series I</td> <td>9</td> <td>11</td> <td>13</td> <td>15</td> <td>17</td> <td>19</td> <td>21</td> <td>23</td> <td>25</td> </tr> <tr> <td>38999 Series II</td> <td>8</td> <td>10</td> <td>12</td> <td>14</td> <td>16</td> <td>18</td> <td>20</td> <td>22</td> <td>24</td> </tr> <tr> <td>Size Code</td> <td>08</td> <td>10</td> <td>12</td> <td>14</td> <td>16</td> <td>18</td> <td>20</td> <td>22</td> <td>24</td> </tr> </table>	38999 Series I	9	11	13	15	17	19	21	23	25	38999 Series II	8	10	12	14	16	18	20	22	24	Size Code	08	10	12	14	16	18	20	22	24						
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<b>Braid Type</b>	<b>N</b> 34 AWG Nickel/Copper Braid <b>T</b> 34 AWG Tin/Copper Braid <b>A</b> AmberStrand® Nickel/Composite Braid <b>L</b> ArmorLite® Microfilament Nickel/SST Braid																																				
<b>Splice Ring and Band</b>	<i>Omit if not required</i> <b>K</b> Splice ring and standard band <b>J</b> Splice ring and slim standard band																																				
<b>Braid Length</b>	<i>Omit for standard 12 inch length</i> <b>14</b> Length in 1 inch increments, 6 inch min "14" = 14 inches.																																				



Shell Size	A Thread UNEF-2B	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		
8/9	0.4375-28	.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	.098	2.5
10/11	0.5625-24	.392	10.0	.938	23.8	1.77	45.0	1.54	39.1	.87	22.1	.83	21.1	1.12	28.4	.455	11.6	.121	3.1
12/13	0.6875-24	.506	12.9	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	.157	4.0
14/15	0.8125-20	.631	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	.210	5.3
16/17	0.9375-20	.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	.246	6.2
18/19	1.0625-18	.844	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	.277	7.0
20/21	1.1875-18	.970	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	.313	8.0
22/23	1.3125-18	1.094	27.8	1.750	44.5	2.72	69.1	2.51	63.8	1.64	41.7	1.33	33.8	2.13	54.1	1.197	30.4	.349	8.9
24/25	1.4375-18	1.219	31.0	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	.380	9.7

# Swing-Arm® Clamps

for MIL-DTL-38999 Series I and II Connectors

## 871F003 Swing-Arm Flex Clamp with Braid Sock, Aluminum

### 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

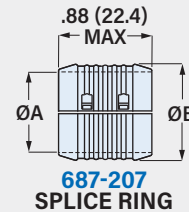


Banding Tool for Standard Band  
601-100



Banding Tool for Slim Standard Band  
601-109

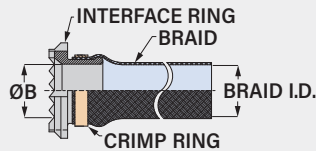
Shell Size	Splice Ring Part Number	øA		øB	
		±.03 (0.8) in	±.03 (0.8) mm	±.03 (0.8) in	±.03 (0.8) mm
08	687-207XB04	.25	6.4	.40	10.2
10	687-207XB06	.38	9.7	.53	13.5
12	687-207XB08	.50	12.7	.65	16.5
14	687-207XB10	.63	16.0	.78	19.8
16	687-207XB12	.75	19.1	.90	22.9
18	687-207XB14	.88	22.4	1.03	26.2
20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