

Qwik-Ty® Strain Reliefs

for MIL-DTL-38999 Series I and II Connectors

450F*047 Qwik-Ty Strain Relief, Composite, with Braid Sock

Self-Locking



Shielded. Self-locking. Composite. Qwik-Ty® strain relief has brass EMI adapter attached to 12 inches (30 cm) of shielding braid. Fits MIL-DTL-38999 Series I and II connectors. Anti-decoupling mechanism in coupling nut provides audible detented coupling and prevents backoff under high vibration. Secure wire bundle with plastic strap or lacing tape (not included). Straight, 45° and 90° profiles. Coupling nut and body are glass fiber filled PEI, black color. Tin-plated copper alloy crimp ring.

Adapter Code F

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

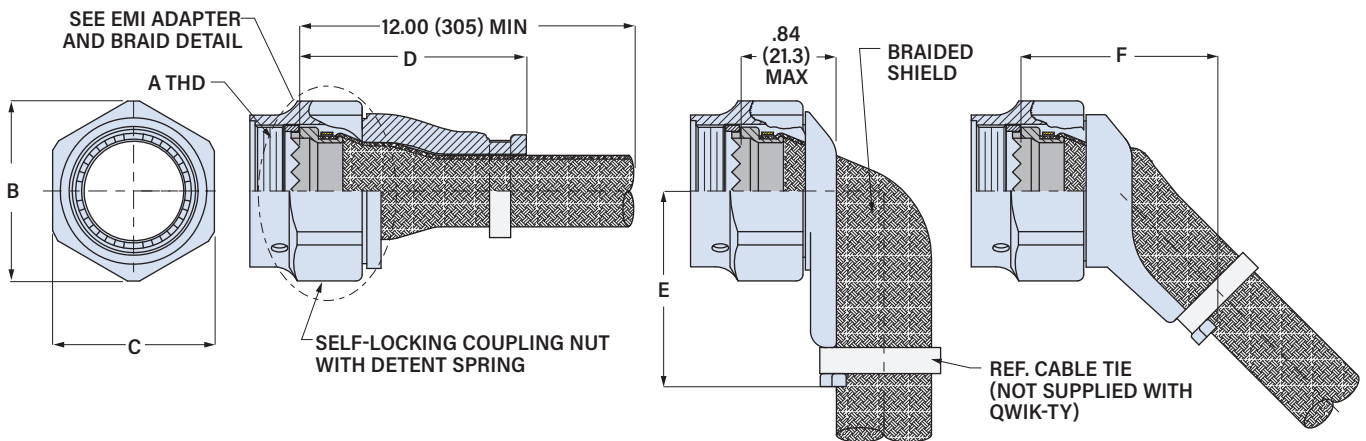
FIGURE 1: FINISH CODE XN

OLIVE DRAB CADMIUM PLATING

NICKEL PLATING IN BRAID TERMINATION AREA

INTERFACE RING

PART NUMBER		450FS047	XB	10	L	R	14			
Base P/N	450FS047	Straight								
	450FA047	90°								
	450FB047	45°								
EMI Adapter Finish	XB	Electroless Nickel								
	XMT	Nickel/PTFE								
	XN	Olive Drab Cadmium, selective (fig.1)								
Size Code	Shell Size									
	Series I	9	11	13	15	17	19	21	23	25
	Series II	8	10	12	14	16	18	20	22	24
	Size Code	08	10	12	14	16	18	20	22	24
Braid Type	Omit for standard 34 AWG nickel/copper braid									
	T	34 AWG Tin/Copper Braid								
	A	AmberStrand® Nickel/Composite Braid								
	L	Microfilament ArmorLite® Nickel/SST Braid								
Split Ring and Band	Omit if not required									
	R	Split ring and coiled band supplied with clamp								
Braid Length	Omit for standard 12 inch length									
	14	Length in 1 inch increments, 6 inch min. "14" = 14 inches.								



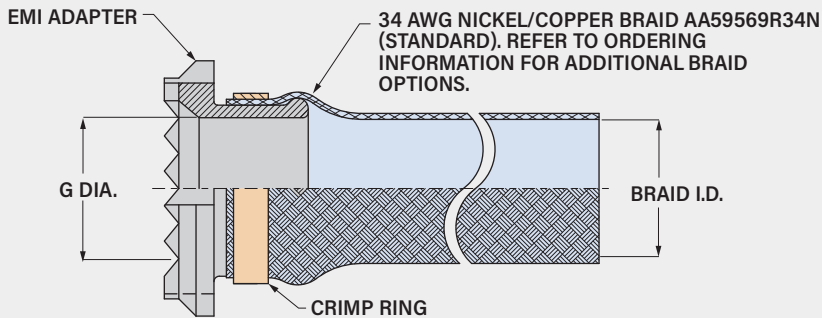
Shell Size	A Thread UNEF-2B	øB Max In.	mm.	C Flats In.	mm.	D Max In.	mm.	E Max In.	mm.	F Max In.	mm.
8, 9	0.4375-28	.86	21.8	.75	19.1	1.55	39.4	1.47	37.3	1.39	35.3
10, 11	0.5625-24	.98	24.9	.88	22.4	1.55	39.4	1.54	39.1	1.39	35.3
12, 13	0.6875-24	1.16	29.5	1.00	25.4	1.79	45.5	1.87	47.5	1.39	35.3
14, 15	0.8125-20	1.28	32.5	1.13	28.7	1.79	45.5	1.91	48.5	1.89	48.0
16, 17	0.9375-20	1.41	35.8	1.25	31.8	1.94	49.3	1.97	50.0	1.89	48.0
18, 19	1.0625-18	1.52	38.6	1.38	35.1	1.98	50.3	1.97	50.0	1.99	50.5
20, 21	1.1875-18	1.64	41.7	1.50	38.1	2.16	54.9	2.04	51.8	1.99	50.5
22, 23	1.3125-18	1.77	45.0	1.63	41.4	2.24	56.9	2.10	53.3	1.99	50.5
24, 25	1.4375-18	1.89	48.0	1.75	44.5	2.40	61.0	2.16	54.9	2.20	55.9

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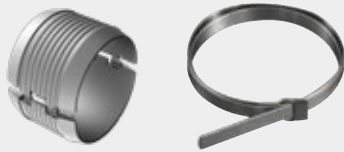
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EMI ADAPTER AND BRAID DETAIL

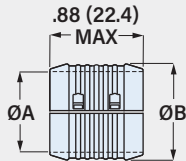


Shell Size	ø G Min.		Braid I.D.	
	In.	mm.	In.	mm.
8/9	.265	6.73	.375	9.53
10/11	.370	9.40	.375	9.53
12/13	.506	12.85	.500	12.70
14/15	.580	14.73	.500	12.70
16/17	.705	17.91	.781	19.84
18/19	.784	19.91	.781	19.84
20/21	.909	23.09	1.000	25.40
22/23	1.034	26.26	1.000	25.40
24/25	1.149	29.18	1.250	31.75

SUPPORT RING AND PRE-COILED BAND (R OPTION)



Optional split support ring provides a reliable, low resistance method of splicing braid sock to wire bundle braid. Snap split ring over wire bundle and cable braid. Then overlap braid sock and cable braid. Install band around split ring and braid using **Band-Master ATS®** standard banding tool.



687-749 Split Ring



Banding Tool

Shell Size	Support Ring Part Number	øA		øB	
		± .030 (0.8) In.	± .030 (0.8) mm.	± .030 (0.8) In.	± .030 (0.8) mm.
8/9	687-749XB04	.25	6.4	.40	10.2
10/11	687-749XB06	.38	9.7	.53	13.5
12/13	687-749XB08	.50	12.7	.65	16.5
14/15	687-749XB10	.63	16.0	.78	19.8
16/17	687-749XB12	.75	19.1	.90	22.9
18/19	687-749XB14	.88	22.4	1.03	26.2
20/21	687-749XB16	1.00	25.4	1.15	29.2
22/23	687-749XB18	1.13	28.7	1.28	32.5
24/25	687-749XB20	1.25	31.8	1.40	35.6

Shell Size	Band Part Number	Tool Part Number
All	601-041	601-100

MATERIAL/FINISH

- Body, coupling nut: polyetherimide (PEI)/no finish (black color)
- EMI adapter: brass, plated per finish code. For finish code XN, selectively plated as shown in fig. 1.
- Crimp ring: copper/tin
- Anti-decoupling spring: high grade engineering thermoplastic
- Split ring: polyetherimide, black color
- Band strap: stainless steel
- Braid: (standard) 34 AWG nickel-coated copper, type AA59569R34N
 - Code T: 34 AWG tin-coated copper, type AA59569R34T
 - Code A: **AmberStrand®** ultralightweight nickel-coated polymer
 - Code L: **ArmorLite®** microfilament nickel-coated 316L stainless steel