

WEIGHT-SAVING, LOW-PROFILE ArmorLite™ ESD Grounding Straps



107-080 • Single and dual layer • configurable heavy-duty solder-free crimp lugs



LIGHTWEIGHT ARMORLITE™ MICROFILAMENT GROUND STRAPS, SOLDER-FREE CRIMP LUGS

How To Order				
Sample Part Number	107-080	S	12	A -6
Grounding Strap	-080 = ArmorLite ground strap with crimp lugs			
Layer Code	S = Single-layer braid D = Double-layer braid			
Width Code	See Table I			
Lug Hole Code	See Table II			
Length	Dimension (L) in one inch increment			



- For grounding airframe sections, dissipating static build-up in composite structures, and lightning strike energy
- 70+% weight savings over standard NiCu braid
- Approved for use by major airframe and equipment manufacturers

Table III: Lug Hole Size Codes

Lug 1 & 2 Hole Size Code	C Dia.	Stud Size (Ref.)
A	.120 / .128 (3.0 / 3.3)	#3, #4
B	.147 / .152 (3.7 / 3.9)	#5, #6
C	.172 / .180 (4.4 / 4.6)	#8
D	.199 / .204 (5.1 / 5.2)	#10
E	.257 / .266 (6.5 / 6.8)	#12, #14, 1/4
F	.323 / .328 (8.2 / 8.3)	5/16
G	.386 / .391 (9.8 / 9.9)	3/8

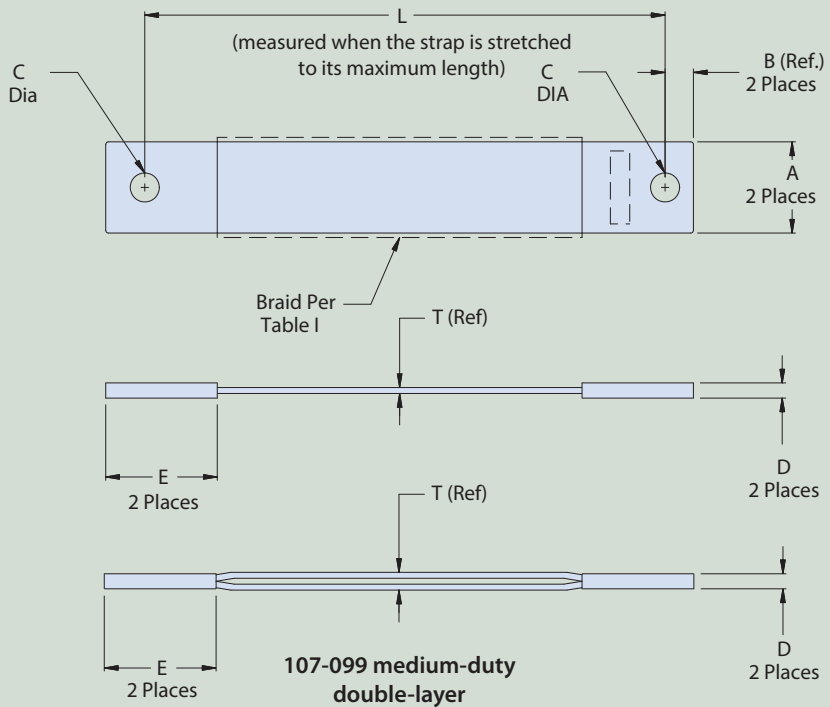


Table I: Mechanical/Electrical Parameters for ArmorLite Material

Width Code	A ± .03	B	D		E	T		Nom. Resistance mOhm/m* (AWG Equiv.)		Weight gr/m*		Inductance nH/m (Ref. Only)		Max. Recommended Lug Code
			single-layer braid	double-layer braid		single-layer braid	double-layer braid	single-layer braid	double-layer braid	single-layer braid	double-layer braid			
12	.24 (6.1)	.375 (9.5)	.056 (1.4)	.072 (1.8)	.75 (19.1)	.016 (.4)	.032 (.8)	48 (22)	24	9.0	18	1277	1260	B
20	.43 (10.9)	.375 (9.5)	.072 (1.8)	.086 (2.2)	.75 (19.1)	.016 (.4)	.032 (.8)	26 (19)	13	13.4	26.8	1170	1159	F
24	.52 (13.2)	.5 (12.7)	.072 (1.8)	.086 (2.2)	1.00 (25.4)	.016 (.4)	.032 (.8)	23 (18)	11.5	17.9	35.8	1116	1109	G
32	.76 (19.3)	.5 (12.7)	.102 (2.6)	.123 (3.1)	1.00 (25.4)	.021 (.5)	.042 (1.1)	13 (16)	6.5	35.8	71.6	1047	1040	G
40	.88 (22.4)	.5 (12.7)	.102 (2.6)	.123 (3.1)	1.00 (25.4)	.021 (.5)	.042 (1.1)	11 (15)	5.5	40.3	80.6	1034	1027	G
48	1.02 (25.9)	.5 (12.7)	.102 (2.6)	.123 (3.1)	1.00 (25.4)	.021 (.5)	.042 (1.1)	8 (14)	4	53.8	107.6	983	976	G
64	1.15 (29.2)	.5 (12.7)	.102 (2.6)	.123 (3.1)	1.00 (25.4)	.021 (.5)	.042 (1.1)	6 (12)	3	71.7	143.4	936	930	G

* Braid only, figures exclude termination lugs. ** Test current is defined as the current required to reach 200° C at ambient temperature

D

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