

SERIES 107

A-A-59569 Ground and Bond Straps



107-102 Silver-Plated Copper Braid Configurable Crimp Lugs



HOW TO ORDER						
Sample Part Number	107-102	S	-RD	-2000	A	E -6
Product Series	Silver-plated copper ground strap					
Braid Layers	S = Single D = Double					
Lug Configuration	-SQ = Square Lugs -RD = Radiused Lugs -RA = Right-Angle Lugs -DRU = Double Right-Angle Lugs, Up-Up					
Size Code	See Size Code in Tables below					
Lug 1 Hole	A – M, See Table. If two different sized lug holes are required, specify smaller lug hole in this location.					
Lug 2 Hole	A – M, See Table					
Length	-X In inches					



GROUND STRAP FEATURES

- For EMI noise suppression, equipotential bonding, and fault grounding in spacecraft applications
- Soft-drawn silver-plated copper braid
- High-temperature tolerant to 200°C
- EMI frequency effective from 10KHz to 1 GHz
- 125 lbs. pull strength (.500 dia. braid)
- 48 hours salt spray corrosion resistant
- Lightweight, durable, configurable crimp lugs: square, radiused, straight, single- and double-right-angle versions
- Available black or clear sleeving over braid

MATERIAL/FINISH

- Braid - 36 AWG copper / silver plate IAW A-A-59569
- Lugs - copper / silver plate per ASTM B700
- Sleeving - per M23053 or equivalent

LUG HOLE SIZE CODES		
Hole Size Code	Ø C	Stud Size (Ref.)
X	.000	No Lug Hole
A	.114/.122 (2.90/3.10)	#4
B	.142/.152 (3.61/3.86)	#6
C	.168/.178 (4.27/4.52)	#8
D	.193/.203 (4.90/5.16)	#10
E	.260/.275 (6.60/6.99)	1/4
F	.323/.338 (8.20/8.59)	5/16
G	.385/.400 (9.78/10.16)	3/8
H	.448/.463 (11.38/11.76)	7/16
J	.510/.525 (12.95/13.34)	1/2
K	.573/.588 (14.55/14.94)	9/16
L	.651/.666 (16.54/16.92)	5/8
M	.770/.785 (19.56/19.94)	3/4

SINGLE-LAYER BRAID GROUND STRAP						
Size Code	CSA (KCMIL)	CSA (mm ²)	Ref. AWG Equivalent*	Current Rating (Amps)**	Nom. Resistance mOhm/m	Max. Lug Code
-125	3.0	1.5	16-15	35	7.90	B
-203	7.8	4.0	12-11	63	3.10	D
-250	9.6	4.9	11-10	72	2.65	E
-437	10.8	5.5	10	78	2.20	F
-500	13.2	6.7	9	88	2.00	G
-1000	19.2	9.7	8-7	111	1.45	J
-1500	23.4	11.9	7-6	126	1.30	L
-2000	28.8	14.6	6-5	143	1.05	M

DOUBLE-LAYER BRAID GROUND STRAP						
Size Code	CSA (KCMIL)	CSA (mm ²)	Ref. AWG Equivalent*	Current Rating (Amps)**	Nom. Resistance mOhm/m	Max. Lug Code
-125	6.0	3.0	13-12	54	3.95	B
-203	15.6	8.0	9-8	98	1.55	D
-250	19.2	9.8	8-7	111	1.35	E
-437	21.6	11.0	7	120	1.10	F
-500	26.4	13.4	6	136	1.00	G
-1000	38.4	19.4	5-4	171	0.75	J
-1500	46.8	23.8	4-3	193	0.65	L
-2000	57.6	29.2	3-2	220	0.55	M

NOTES

- * AWG Eqiv. based on total cross sectional area of braid conductors, not electrical performance.
- ** Current rating given for information only and is not a requirement. Values shown are for uninsulated wire in free air, based on ambient of 30°C and max temperature of 90°C. Values should be derated in insulated or if in close contact with other components.
- Lug hole sizes may differ from each other. Smaller lug hole diameter specified in "Lug 1" location in the part number. (Not applicable for RA right-angle lug configurations). Lug holes IAW AS7928
- Length tolerance: ± .250 inches (6.35 mm) up to 12 inches, or ± 2% for lengths > than 12".
- Consult Glenair for Ground Straps with larger cross-sectional area and braid gauge
- Ground Straps identified with Glenair name, P/N, and date code, space permitting

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**BONDING +
GROUNDING**
FLEXIBLE BRAIDED STRAPS

107-102 Silver-Plated Copper Braid Square Lugs / Radiused Lugs

SQ - SQUARE LUG DIMENSIONS										
Size Code	A		B		DS (Single-Layer)		DD (Double-Layer)		E	
	In.	mm	In.	mm	In.	mm	In.	mm	In.	mm
125	.240	6.10	.120	3.05	.060	1.52	.075	1.91	.240	6.10
203	.330	8.38	.165	4.19	.070	1.78	.090	2.29	.330	8.38
250	.410	10.41	.205	5.21	.090	2.29	.120	3.05	.410	10.41
437	.530	13.46	.265	6.73	.085	2.16	.110	2.79	.530	13.46
500	.600	15.24	.300	7.62	.085	2.16	.110	2.79	.600	15.24
1000	.830	21.08	.415	10.54	.100	2.54	.130	3.30	.830	21.08
1500	1.000	25.40	.500	12.70	.100	2.54	.130	3.30	1.000	25.40
2000	1.180	29.97	.590	14.99	.100	2.54	.130	3.30	1.180	29.97

RD - RADIUSED LUG DIMENSIONS												
Size Code	A		B		DS (Single-Layer)		DD (Double-Layer)		E		R	
	In.	mm	In.	mm	In.	mm	In.	mm	In.	mm	In.	mm
125	.240	6.10	.120	3.05	.060	1.52	.075	1.91	.630	16.00	.120	3.05
203	.330	8.38	.165	4.19	.070	1.78	.090	2.29	.630	16.00	.165	4.19
250	.410	10.41	.205	5.21	.090	2.29	.120	3.05	.750	19.05	.205	5.21
437	.530	13.46	.265	6.73	.085	2.16	.110	2.79	.750	19.05	.265	6.73
500	.600	15.24	.300	7.62	.085	2.16	.110	2.79	.850	21.59	.300	7.62
1000	.830	21.08	.415	10.54	.100	2.54	.130	3.30	1.100	27.94	.415	10.54
1500	1.000	25.40	.500	12.70	.100	2.54	.130	3.30	1.250	31.75	.500	12.70
2000	1.180	29.97	.590	14.99	.100	2.54	.130	3.30	1.400	35.56	.590	14.99

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107-102 Silver-Plated Copper Braid Single / Double Right-Angle Lugs

RA - RIGHT-ANGLE LUG DIMENSIONS

DRU - DOUBLE RIGHT-ANGLE (UP-UP) LUGS DIMENSIONS																						
Size Code	A		DS		DD		F Ref.		GS Ref. (Single-Layer)		GD Ref. (Double-Layer)		HS Ref. (Single-Layer)		HD Ref. (Double-Layer)		J		K Ref.			
	In.	mm	In.	mm	In.	mm	In.	mm	In.	mm	In.	mm	In.	mm	In.	mm	In.	mm	In.	mm	In.	mm
125	.240	6.10	.060	1.52	.075	1.91	.375	9.53	.435	11.05	.450	11.43	.590	14.99	.580	14.73	.650	16.51	.500	12.70		
203	.330	8.38	.070	1.78	.090	2.29	.375	9.53	.445	11.30	.465	11.81	.630	16.00	.610	15.49	.700	17.78	.500	12.70		
250	.410	10.41	.090	2.29	.120	3.05	.375	9.53	.465	11.81	.495	12.57	.660	16.76	.630	16.00	.750	19.05	.500	12.70		
437	.530	13.46	.085	2.16	.110	2.79	.375	9.53	.460	11.68	.485	12.32	.820	20.83	.790	20.07	.900	22.86	.625	15.88		
500	.600	15.24	.085	2.16	.110	2.79	.375	9.53	.460	11.68	.485	12.32	.920	23.37	.890	22.61	1.000	25.40	.625	15.88		
1000	.830	21.08	.100	2.54	.130	3.30	.500	12.70	.600	15.24	.630	16.00	1.050	26.67	1.020	25.91	1.150	29.21	.750	19.05		
1500	1.000	25.40	.100	2.54	.130	3.30	.500	12.70	.600	15.24	.630	16.00	1.150	29.21	1.120	28.45	1.250	31.75	.750	19.05		
2000	1.180	29.97	.100	2.54	.130	3.30	.500	12.70	.600	15.24	.630	16.00	1.250	31.75	1.220	30.99	1.350	34.29	.750	19.05		