

LIGHTWEIGHT, FLEXIBLE



# AmberStrand® Composite Braid

## 103-027 75% AmberStrand / 25% Nickel/Copper EMI/RFI microfilament composite braided shielding

### 103-027 AMBERSTRAND® 75%/25% BLENDED

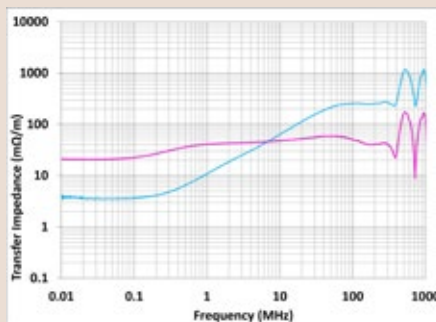


- Electrically conductive
- Superior high-frequency shielding in high temperature applications
- Comparable shielding performance to 36 AWG tubular copper braid
- Lightweight, corrosion-free
- Weight savings up to 85% / foot compared to standard nickel-copper braid

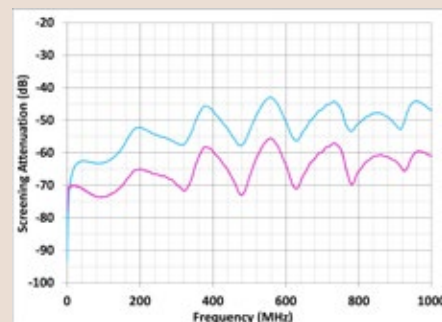
How To Order				
Sample Part Number	103	-027	-008	S
Basic No.	Braided shielding			
AmberStrand®	-027 = 75% AmberStrand / 25% NiCu Blend			
Braid Diameter No.	See Table I			
Silver Clad Option	S = silver clad Omit for none			

AmberStrand 75% / NiCu 25% 103-027 - Diameter, Wire Bundle and Weight							
Dash No.	Nominal I.D. (ref.)	Wire Bundle Range (ref.)	Grams per Foot (approx.)	Dash No.	Nominal I.D. (ref.)	Wire Bundle Range (ref.)	Grams per Foot (approx.)
-001	.031 (.8)	.016 (.4) .047 (1.2)	0.6	-020	.625 (15.9)	.375 (9.5) .700 (17.8)	6.4
-002	.062 (1.6)	.040 (1.0) .075 (1.9)	0.9	-024	.750 (19.1)	.500 (12.7) .830 (21.1)	7.2
-004	.125 (3.2)	.093 (2.4) .140 (3.5)	1.5	-032	1.000 (25.4)	.780 (19.8) 1.100 (27.94)	11.0
-008	.250 (6.4)	.125 (3.2) .312 (7.9)	2.4	-040	1.250 (31.8)	.938 (23.8) 1.312 (33.3)	15.0
-012	.375 (9.5)	.250 (8.2) .437 (11.1)	3.9	-048	1.500 (38.1)	1.187 (30.1) 1.590 (40.37)	25.2
-016	.500 (12.7)	.375 (9.5) .550 (14.0)	6.0	-064	2.000 (50.8)	1.312 (33.3) 2.090 (53.08)	32.0

Transfer Impedance Comparison ( $Z_T$ ) Size 16



Screening Attenuation Comparison ( $A_s$ ) Size 16



— 103-027-016 75% AmberStrand/25% NiCu — 100-003A500 NiCu Tested per IEC 62153-4-3

AmberStrand® 75% vs. nickel-coated copper			
Braid Dia.	AmberStrand® 75/25% NiCu 103-027	Nickel-Copper 100-003	% Weight Savings/ Foot
.062	.9	1.9	52%
.125	1.5	4.8	68%
.250	2.4	16.1	85%
.375	3.9	18.5	79%
.500	5.4	22.3	76%
.625	6.4	27.7	77%
.750	7.2	34.3	79%
1.000	11.0	35.0	69%



75% / 25% blended AmberStrand® is ideally suited for weight reduction applications that require additional braid strength and durability

### NOTES

Material: Nickel- or silver-clad AmberStrand®, amber color, nickel plated copper wire/ASTM B355 CL 7 OFHC, 36 AWG

AmberStrand® is a registered trademark of Syscom Advanced Materials, Inc.