

# LIGHTWEIGHT, FLEXIBLE ArmorLite™ Microfilament Braid



## 103-071 50% ArmorLite, 50% Nickel/Copper EMI/RFI microfilament stainless steel braided shielding

### 103-071 ARMORLITE™ LIGHTWEIGHT EMI/RFI MICROFILAMENT STAINLESS STEEL / NICKEL COPPER BRAIDED SHIELDING



| How To Order               |  |      |      |    |
|----------------------------|--|------|------|----|
| Sample Part Number         | 103  | -071 | -024 | -S |
| Product Code               | Lightweight Braid Series   |      |      |    |
| ArmorLite™                 | -071 = 50% ArmorLite™ / 50% Nickel-Copper                                      |      |      |    |
| Braid Diameter Dash Number | See Table  |      |      |    |
| Silver Clad Option         | -S = 50% ArmorLite / 50% silver-plated copper<br>Omit for standard nickel clad |      |      |    |



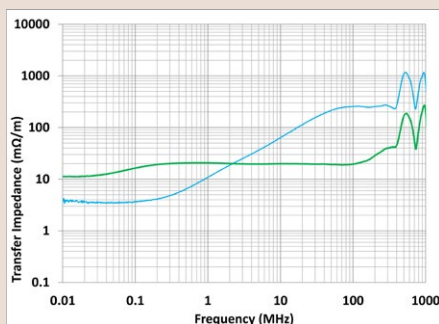
| ArmorLite™ -071<br>vs. nickel-plated copper braid |  |   |                              |
|---|--|---|------------------------------|
| Braid Dia.  | ArmorLite™<br>103-071<br>grams per<br>foot (approx.) | Nickel-Copper<br>100-003<br>grams per<br>foot (approx.) | % Weight<br>Savings/<br>Foot |
| .062  | 2.1  | 1.9   | 16%                          |
| .109  | 2.4  | 3.7   | 35%                          |
| .125  | 2.5  | 4.8   | 63%                          |
| .250  | 3.6  | 16.1  | 83%                          |
| .375  | 5.1  | 18.5  | 81%                          |
| .500  | 7.5  | 22.3  | 76%                          |
| .625  | 7.7  | 27.7  | 79%                          |
| .750  | 10.0   | 34.3  | 78%                          |
| 1.000   | 15.5   | 35.0  | 63%                          |
| 1.250   | 16.8   | 44.0  | 65%                          |
| 1.500   | 27.9   | 51.0  | 61%                          |
| 2.000   | 30.2   | 60.0  | 59%                          |

| Dash Number - Diameter, Wire Bundle and Weight |                     |                             |                    |
|--|---------------------|-----------------------------|--------------------|
| Dash No.                                       | Nominal I.D. (ref.) | Wire Bundle Range (ref.)    | Approx. Grams/Foot |
| -001   | .031 (0.8)          | .025 (0.6) – .062 (1.6)     | 1.8                |
| -002   | .062 (1.6)          | .040 (1.0) – .075 (1.9)     | 2.1                |
| -003   | .109 (2.8)          | .075 (1.9) – .125 (3.2)     | 2.4                |
| -004   | .125 (3.2)          | .093 (2.4) – .140 (3.5)     | 2.5                |
| -008   | .250 (6.4)          | .125 (3.2) – .312 (7.9)     | 3.6                |
| -012   | .375 (9.5)          | .250 (6.4) – .406 (10.3)    | 5.1                |
| -016   | .500 (12.7)         | .375 (9.5) – .560 (14.2)    | 7.5                |
| -020   | .625 (15.9)         | .375 (9.5) – .700 (17.8)    | 7.7                |
| -024   | .750 (19.1)         | .500 (12.7) – .800 (20.3)   | 10.0               |
| -032   | 1.000 (25.4)        | .780 (19.8) – 1.100 (27.9)  | 15.5               |
| -040   | 1.250 (31.8)        | .938 (23.8) – 1.312 (33.3)  | 16.8               |
| -048   | 1.500 (38.1)        | 1.187 (30.1) – 1.590 (40.4) | 27.9               |
| -064   | 2.000 (50.8)        | 1.312 (33.3) – 2.090 (53.1) | 30.2               |

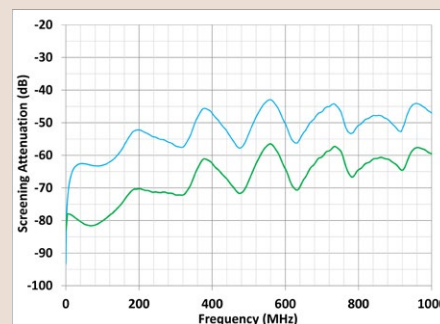


- 70+% weight savings over NiCu braid
- Outstanding EMI/RFI shielding and conductivity
- Broad temperature range: -80°C to +200°C
- Highly corrosion resistant
- Superior flexibility and “windowing” resistance

Transfer Impedance Comparison ( $Z_T$ ) Size 16



Screening Attenuation Comparison ( $A_S$ ) Size 16



— 103-071-016 50% ArmorLite / 50% NiCu — 100-003A500 NiCu Tested per IEC 62153-4-3Ed2

#### NOTES

1. Material - 50% ArmorLite™ nickel-clad 316L stainless steel / 50% nickel plated copper.  
S Option - 50% ArmorLite™ nickel-clad 316L stainless steel / 50% silver plated copper.  
ArmorLite™ is a trademark of Glenair, Inc.
2. Specify length on purchase order. No minimums!

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