

# LIGHTWEIGHT, FLEXIBLE ArmorLite™ Microfilament Braid

**BONDING +  
GROUNDING**  
FLEXIBLE BRAIDED STRAPS

## 103-051 100% ArmorLite EMI/RFI microfilament stainless steel braided shielding



**ARMORLITE™**

| ARMORLITE™ -051 VS.<br>NICKEL-PLATED COPPER BRAID |                                             |                                                |                        |
|---------------------------------------------------|---------------------------------------------|------------------------------------------------|------------------------|
| Braid Dia.                                        | ArmorLite™ 103-051 grams per foot (approx.) | Nickel-Copper 100-003 grams per foot (approx.) | % Weight Savings/ Foot |
| .031                                              | .5                                          | .9                                             | 44%                    |
| .062                                              | 1.2                                         | 1.9                                            | 37%                    |
| .125                                              | 1.6                                         | 4.8                                            | 67%                    |
| .250                                              | 2.3                                         | 16.1                                           | 86%                    |
| .375                                              | 3.0                                         | 18.5                                           | 84%                    |
| .500                                              | 4.6                                         | 22.3                                           | 79%                    |
| .625                                              | 5.0                                         | 27.7                                           | 82%                    |
| .750                                              | 6.0                                         | 34.3                                           | 83%                    |
| 1.000                                             | 11.9                                        | 35.0                                           | 66%                    |
| 1.250                                             | 14.5                                        | 44.0                                           | 67%                    |
| 1.500                                             | 17.9                                        | 51.0                                           | 65%                    |
| 2.000                                             | 23.6                                        | 60.0                                           | 61%                    |

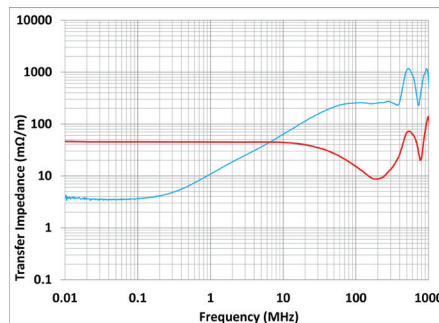
### TUBULAR BRAID FEATURES

- 70+% weight savings over NiCu braid
- Outstanding EMI/RFI shielding and conductivity
- Broader temperature range: -80°C to +260°C
- Highly corrosion resistant
- Superior flexibility and "windowing" resistance

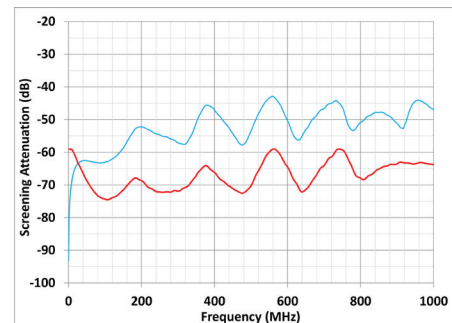
| HOW TO ORDER       |                                                   |      |      |    |
|--------------------|---------------------------------------------------|------|------|----|
| Sample Part Number | 103                                               | -051 | -024 | -S |
| Product Series     | Lightweight Braid Series                          |      |      |    |
| ArmorLite™         | -051 100% ArmorLite Nickel-Clad Stainless Steel   |      |      |    |
| Braid Diameter     | Specify dash number per table                     |      |      |    |
| Plating Option     | -S = Silver-clad    Omit for standard Nickel-clad |      |      |    |

| DASH NUMBER - DIAMETER, WIRE BUNDLE AND WEIGHT |                     |                              |                                |                                |                         |
|------------------------------------------------|---------------------|------------------------------|--------------------------------|--------------------------------|-------------------------|
| Dash No.                                       | Nominal I.D. (ref.) | Wire Bundle Range (ref.)     | Approx. Grams/Foot Nickel Clad | Approx. Grams/Foot Silver Clad | Approx. Milliohms/Meter |
| -001                                           | .031 (.8)           | .016 (.4)<br>.047 (1.2)      | .52                            | .53                            | 355                     |
| -002                                           | .062 (1.6)          | .040 (1.0)<br>.075 (1.9)     | 1.19                           | 1.23                           | 129                     |
| -004                                           | .125 (3.2)          | .093 (2.4)<br>.140 (3.5)     | 1.55                           | 1.60                           | 109                     |
| -008                                           | .250 (6.4)          | .125 (3.2)<br>.312 (7.9)     | 2.28                           | 2.35                           | 65                      |
| -012                                           | .375 (9.5)          | .250 (6.4)<br>.406 (10.3)    | 3.00                           | 3.10                           | 49                      |
| -016                                           | .500 (12.7)         | .375 (9.5)<br>.560 (14.2)    | 4.56                           | 4.70                           | 33                      |
| -020                                           | .625 (15.9)         | .375 (9.5)<br>.700 (17.8)    | 4.97                           | 5.13                           | 32                      |
| -024                                           | .750 (19.1)         | .500 (12.7)<br>.800 (20.3)   | 6.00                           | 6.19                           | 25                      |
| -032                                           | 1.000 (25.4)        | .780 (19.8)<br>1.100 (27.9)  | 11.9                           | 12.3                           | 13                      |
| -040                                           | 1.250 (31.8)        | .938 (23.8)<br>1.312 (33.3)  | 14.5                           | 15.0                           | 11.3                    |
| -048                                           | 1.500 (38.1)        | 1.187 (30.1)<br>1.590 (40.4) | 17.9                           | 18.5                           | 9                       |
| -064                                           | 2.000 (50.8)        | 1.312 (33.3)<br>2.090 (53.1) | 23.6                           | 24.4                           | 5                       |

Transfer Impedance Comparison ( $Z_T$ ) Size 16



Screening Attenuation Comparison ( $A_S$ ) Size 16



— 103-051-016 ArmorLite™ — 100-003A500 NiCu Tested per IEC 62153-4-3Ed2

### NOTES

1. Material - ArmorLite™ nickel-clad 316L stainless steel. ArmorLite™ is a trademark of Glenair, Inc.
2. Specify length on purchase order. No minimums!