

SERIES 103

AmberStrand® Conductive Composite Braid

The Smart Way to Reduce Launch and Flight Weights in Aerospace Systems

For many applications, the cable shield is the most important element in controlling EMI. Unfortunately, metal shielding—especially when applied in multiple layers—can be extremely heavy. The opportunity to provide robust EMI shielding at a fraction of the weight is the principal advantage of composite thermoplastic EMI/RFI braid made from AmberStrand® material. Transfer impedance test reports demonstrate the effectiveness of the material compared to conventional metal solutions. So get smart! Reduce weight and save money with AmberStrand®



Glenair®

SERIES 103

**Reduce Weight! Save Money!
Replace Heavy Copper
Braid with AmberStrand®**

AmberStrand®

**Metal-Clad Lightweight
EMI/RFI Composite
Braided Shielding**

Electrically Conductive

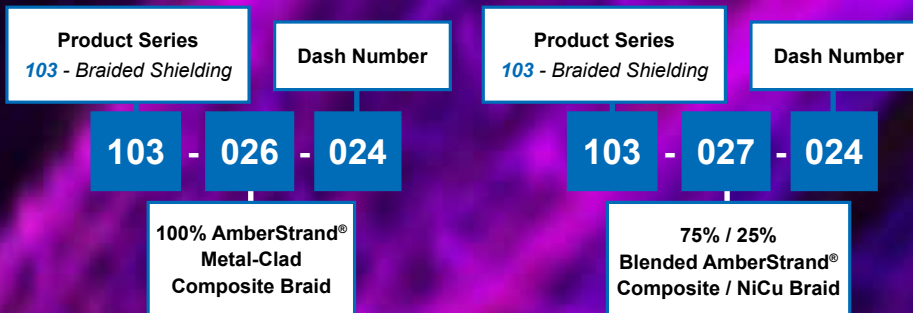
**Superior High Frequency Shielding
in High Temperature Applications**

**Comparable Shielding Performance
to 36 AWG Tubular Copper Braid**

Lightweight, Corrosion-Free

100% Metal Clad AmberStrand® Weight vs. Tin/Copper

| Size | Diameter | AmberStrand® Lbs. per cft | 36 AWG Cu Lbs. per cft | Lbs. Difference | % Lighter |
|------|----------|------------------------------|---------------------------|--------------------|--------------|
| 002 | .062 | .1322 | .40 | .2678 | 67.5% |
| 004 | .125 | .2205 | 1.03 | .8095 | 78/6% |
| 008 | .250 | .3968 | 3.45 | 3.053 | 88.5% |
| 012 | .375 | .5071 | 3.95 | 3.443 | 87.1% |
| 016 | .500 | .8175 | 4.77 | 3.954 | 82.9% |
| 020 | .625 | .9700 | 5.94 | 4.970 | 83.6 |
| 024 | .750 | 1.146 | 7.30 | 5.154 | 84.4% |
| 032 | 1.000 | 1.7637 | 7.50 | 5.736 | 76.4 |



Specify Length on Purchase Order. No Minimums!



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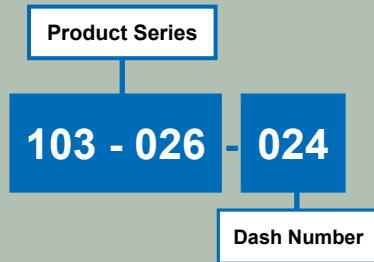
EMI/RFI Braid: How-To-Order

**103-026 and -027 AmberStrand® EMI/RFI
Microfilament Composite Braided Shielding
100% Composite and 75%/25% Blended Versions**

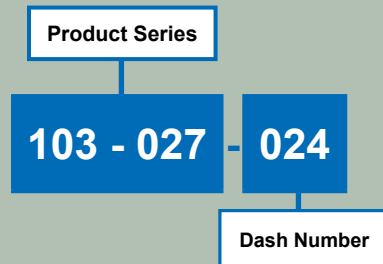
AmberStrand®



100% AmberStrand®



| 103-026 100% Composite AmberStrand® | | | |
|-------------------------------------|----------------|------------------------|----------------------------|
| Part No. | Inner Diameter | Ref. Wire Bundle Range | Approximate Grams Per Foot |
| 103-026-004 | .125 (3.2) | .093 (2.4) | 1.0 |
| | | .140 (3.5) | |
| 103-026-008 | .250 (6.4) | .125 (3.2) | 1.8 |
| | | .312 (7.9) | |
| 103-026-012 | .375 (9.5) | .325 (8.2) | 2.3 |
| | | .437 (11.1) | |
| 103-026-016 | .500 (12.7) | .375 (9.5) | 3.7 |
| | | .560 (14.2) | |
| 103-026-020 | .625 (15.9) | .375 (9.5) | 4.4 |
| | | .700 (17.8) | |
| 103-026-024 | .750 (19.1) | .500 (12.7) | 5.2 |
| | | .830 (21.1) | |
| 103-026-032 | 1.000 (25.4) | .780 (19.8) | 8.0 |
| | | 1.100 (27.94) | |
| 103-026-040 | 1.250 (31.8) | .938 (23.8) | 10.0 |
| | | 1.312 (33.3) | |
| 103-026-048 | 1.500 (38.1) | 1.187 (30.1) | 15.2 |
| | | 1.590 (40.37) | |
| 103-026-064 | 2.000 (50.8) | 1.312 (33.3) | 22.0 |
| | | 2.090 (53.08) | |



75%/25% AmberStrand®/
Nickel Copper

| 103-027 75%/25% Blended Composite AmberStrand®/Nickel Copper | | | |
|--|----------------|------------------------|----------------------------|
| Part No. | Inner Diameter | Ref. Wire Bundle Range | Approximate Grams Per Foot |
| 103-027-004 | .125 (3.2) | .093 (2.4) | 1.5 |
| | | .140 (3.5) | |
| 103-027-008 | .250 (6.4) | .125 (3.2) | 2.4 |
| | | .312 (7.9) | |
| 103-027-012 | .375 (9.5) | .250 (6.4) | 3.9 |
| | | .437 (11.1) | |
| 103-027-016 | .500 (12.7) | .375 (9.5) | 6.0 |
| | | .550 (13.9) | |
| 103-027-020 | .625 (15.9) | .375 (9.5) | 6.4 |
| | | .700 (17.8) | |
| 103-027-024 | .750 (19.1) | .500 (12.7) | 7.2 |
| | | .830 (21.1) | |
| 103-027-032 | 1.000 (25.4) | .780 (19.8) | 11.0 |
| | | 1.100 (27.94) | |
| 103-027-040 | 1.250 (31.8) | .938 (23.8) | 15.0 |
| | | 1.312 (33.3) | |
| 103-027-048 | 1.500 (38.1) | 1.187 (30.1) | 25.2 |
| | | 1.590 (40.37) | |
| 103-027-064 | 2.000 (50.8) | 1.312 (33.3) | 32.0 |
| | | 2.090 (53.08) | |

Specify length on purchase order. No minimums! Metric dimensions (mm) are in parentheses.