Braided Wire Protection

EMI/RFI Shielding • Mechanical Wire Protection • Grounding
# Braid Selection Guide: Metallic

## Table of Principal Selection Criteria

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<tr>
<td>103-051 ArmorLite Microfilament 100% Nickel Plated</td>
<td>10 kHz to 1 GHz</td>
<td>260°</td>
<td>150 Lbs. minimum</td>
<td>500 Hours Salt Spray</td>
<td>Good</td>
<td>ASTM B580</td>
</tr>
<tr>
<td>103-052 ArmorLite Microfilament 75% 55/25% NiCu</td>
<td>10 kHz to 1 GHz</td>
<td>260°</td>
<td>175 Lbs. minimum</td>
<td>500 Hours Salt Spray</td>
<td>Good</td>
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<tr>
<td>103-071 ArmorLite Microfilament 50% 55/50% NiCu</td>
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<td>260°</td>
<td>175 Lbs. minimum</td>
<td>500 Hours Salt Spray</td>
<td>Good</td>
<td>ASTM B580/ ASTM B355</td>
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<td>103-026 AmberStrand Microfilament 100% Nickel Plated</td>
<td>10 kHz to 1 GHz</td>
<td>220°</td>
<td>150 Lbs. minimum</td>
<td>500 Hours Salt Spray</td>
<td>Good</td>
<td>ZYLON A5/ ASTM B355</td>
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<tr>
<td>103-027 AmberStrand Microfilament 75% 25% NiCu</td>
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<td>220°</td>
<td>125 Lbs.</td>
<td>500 Hours Salt Spray</td>
<td>Good</td>
<td>ZYLON A5</td>
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<tr>
<td>100-001 Soft Drawn Tin Plated Copper</td>
<td>10 kHz to 1 GHz</td>
<td>150°</td>
<td>125 Lbs.</td>
<td>48 Hours Salt Spray</td>
<td>Good</td>
<td>ASTM B33</td>
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<tr>
<td>100-002 Soft Drawn Silver Plated Copper</td>
<td>10 kHz to 1 GHz</td>
<td>200°</td>
<td>150 Lbs.</td>
<td>48 Hours Salt Spray</td>
<td>Fair</td>
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<tr>
<td>100-003 Soft Drawn Nickel Plated Copper</td>
<td>10 kHz to 1 GHz</td>
<td>200°</td>
<td>175 Lbs.</td>
<td>500 Hours Salt Spray</td>
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<td>ASTM B355</td>
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<tr>
<td>100-005 Soft Drawn Tin Plated Copper/Clad Steel</td>
<td>Good (H Field) Poor (E Field)</td>
<td>175°</td>
<td>225 Lbs.</td>
<td>96 Hours Salt Spray</td>
<td>Good</td>
<td>ASTM B520</td>
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<tr>
<td>100-004 Soft Drawn Stainless Steel</td>
<td>Good (H Field) Poor (E Field)</td>
<td>260°</td>
<td></td>
<td>1000 Hours Salt Spray</td>
<td>Very Good</td>
<td>QQ-W-423/ ASTM A580</td>
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</tbody>
</table>

* Values are based on 200°C max. 48 Hours

---

**General-Duty**

- 100-001: Soft Drawn Tin Plated Copper
- 100-002: Soft Drawn Silver Plated Copper
- 100-003: Soft Drawn Nickel Plated Copper
- 100-005: Soft Drawn Tin Plated Copper/Clad Steel
- 100-004: Soft Drawn Stainless Steel

**High Temperature plus Corrosion Resistance**

- 100-005: Soft Drawn Tin Plated Copper/Clad Steel
- 100-004: Soft Drawn Stainless Steel
Microfilament EMI/RFI Shielding

Average 70+% lighter than standard metal EMI/RFI braid

- Expandable, flexible, high-strength, lightweight, conductive, microfilament material
- Provides abrasion resistance and EMI shielding at a fraction of the weight of standard metallic braid
- Maintains metallic core conductivity in event of plating damage during assembly or maintenance
Performance advantages

- Shields from 80dB to 40dB in 100Khz @ 1Ghz
- Excellent optical braid coverage – min. 85-90%
- Excellent tensile strength @ -80°C to +200°C
- High flexure strength / flexibility
- Available with nickel or silver plating
- Meets limits of 1.0% max outgas test IAW ASTM-595-90 and 0.10% max. CVCM
- Meets lightning strike ANSVEIA-364-75 specification at 3Kva, 6Kva & 10Kva thru 25Kva wave form 5B
- Excellent abrasion and FAR burn resistance
Composite EMI/RFI Braid

Nickel-plated microfilament composite shielding offers lightest weight solution to electromagnetic compatibility

- Electrically conductive plated composite
- Superior high-frequency shielding in high temperature applications
- Comparable shielding performance to 36 AWG plated tubular copper braid
- Lightweight, corrosion-free
- Weight savings up to 88% per foot compared to standard nickel-copper braid
Tin-Plated Copper EMI/RFI Braided Shielding

100-001: general duty “workhorse” wire protection

- Soft-drawn tin-plated copper braid
- EMI frequency effective from 10KHz to 1 GHz
- 150°C temperature tolerant
- 125 lbs. pull strength (.500 dia. braid)
- 48 hours salt spray corrosion resistant
- Good abrasion resistance
Silver/Copper EMI/RFI Braided Shielding

100-002: general duty with high temperature tolerance

- Soft-drawn silver-plated copper braid
- EMI frequency effective from 10KHz to 1 GHz
- 200°C temperature tolerant
- 125 lbs. pull strength (.500 dia. braid)
- Good corrosion resistance
Nickel/Copper EMI/RFI Braided Shielding

100-003: general duty, highly conductive, temperature tolerant

- Soft-drawn nickel-plated copper braid
- EMI frequency effective from 10KHz to 1 GHz
- 200°C temperature tolerant
- 125 lbs. pull strength (.500 dia. braid)
- 500 hours salt spray corrosion resistant
Stainless Steel EMI/RFI Braided Shielding

100-004: corrosion-resistant, high-temperature-tolerant alternative to plated copper braid

- Soft-drawn stainless steel braid
- Good H Field EMI frequency effectiveness
- 260°C temperature tolerant
- 225 lbs. pull strength (.500 dia. braid)
- 1000 hours salt spray corrosion resistant
- Abrasion resistant
Tin-Plated Copper-Clad Steel EMI/RFI Shielding

100-005: versatile general-duty braid

- Soft-drawn tin-plated copper-clad steel braid
- Good H Field EMI frequency effectiveness
- 175°C temperature tolerant
- 175 lbs. pull strength (.500 dia. braid)
- 96 hours salt spray corrosion resistant
- Good abrasion resistance
Braid Selection Guide: Non-Metallic

<table>
<thead>
<tr>
<th>Principal Selection Criteria</th>
<th>General Duty / Abrasion Resistance</th>
<th>Economy</th>
<th>Economy</th>
<th>Temperature Tolerance</th>
<th>Fire Resistance</th>
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<tr>
<td>Braid Part Number and Material Construction</td>
<td>102-060 Monofilament FRP</td>
<td>102-073 Yarn Dacron</td>
<td>102-072 Monofilament Nylon</td>
<td>102-051 Monofilament PEEK</td>
<td>102-046 thru-043 Yarn Nomex, Bonded</td>
</tr>
<tr>
<td></td>
<td>102-020 thru-023 Monofilament Halar</td>
<td>102-073 Yarn Dacron</td>
<td>102-072 Monofilament Nylon</td>
<td>102-051 Monofilament PEEK</td>
<td>102-046 thru-043 Yarn Nomex, Bonded</td>
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<td></td>
<td>102-080 Monofilament Ryton Type R-7</td>
<td>102-073 Yarn Dacron</td>
<td>102-072 Monofilament Nylon</td>
<td>102-051 Monofilament PEEK</td>
<td>102-046 thru-043 Yarn Nomex, Bonded</td>
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<tr>
<td>Halogen-Free</td>
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<td>NO</td>
<td>YES</td>
<td>YES</td>
<td>NO</td>
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<td>Temperature Range</td>
<td>-55°C to +200°C</td>
<td>-65°C to +150°C</td>
<td>-65°C to +180°C</td>
<td>-62°C to +150°C</td>
<td>-20°C to +170°C</td>
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<tr>
<td>Tensile Strength (PSI) Yield</td>
<td>14,000</td>
<td>160,000</td>
<td>12,400</td>
<td>780,000</td>
<td>50,000</td>
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<tr>
<td>Elongation Percentage</td>
<td>50%</td>
<td>12%</td>
<td>90%</td>
<td>38%</td>
<td>20%</td>
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<tr>
<td>Chemical Resistance</td>
<td>Excellent</td>
<td>Excellent</td>
<td>Excellent</td>
<td>Excellent</td>
<td>Good</td>
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<tr>
<td>Abrasion Resistance</td>
<td>Good</td>
<td>Excellent</td>
<td>Good</td>
<td>Excellent</td>
<td>Fair</td>
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<tr>
<td>Weight / Duty (specific gravity)</td>
<td>Heavy (2.17)</td>
<td>Medium (1.68)</td>
<td>Medium (1.58)</td>
<td>Light (1.25)</td>
<td>Medium (1.38)</td>
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<tr>
<td>Flammability</td>
<td>Very Low</td>
<td>Very Low</td>
<td>Will Not Melt</td>
<td>Very Low</td>
<td>Flammable</td>
</tr>
</tbody>
</table>

Values are based on industry standards.
Nomex: the Glenair Go-To Non-Metallic Braid

Excellent performance across all standards

- -55° to +200°C temperature range
- 90,000 PSI yield tensile strength
- 25% elongation
- Excellent chemical resistance
- Good abrasion resistance
- Will not melt
- Broad range of colors, lanyard/tracer versions available
- Available bonded, unbonded, and high-temp tolerant versions
PEEK Tubular Expandable Wire Protection Braid

102-051: high-temperature and crush resistance, flexible, and halogen-free

- Monofilament PEEK tubular braid
- -65° to +260°C temperature range
- 13,000 PSI yield tensile strength
- 38% elongation
- Excellent chemical resistance
- Excellent abrasion resistance
FEP Tubular Expandable Wire Protection Braid

102-060: high lubricity and abrasion resistance. Well-suited for military and commercial transport applications.

- Monofilament FEP tubular braid
- -55° to +200°C temperature range
- 3,300 PSI yield tensile strength
- 50% elongation
- Excellent chemical resistance
- Good abrasion resistance
- Very low flammability
Tubular Expandable Wire Protection Braid, Kevlar®

102-071: fire resistant, abrasion-resistant yarn construction—our strongest non-metallic braid

- Yarn, duPont™ Kevlar® tubular braid
- -73° to +160°C temperature range
- 400,000 PSI yield tensile strength
- 3.6% elongation
- Excellent chemical resistance
- Good abrasion resistance
- Fire-resistant, will not melt

DuPont™ and Kevlar® are trademarks or registered trademarks of E.I. duPont de Nemours and Company.
Nylon Tubular Expandable Wire Protection Braid

102-072: economical, general-duty “workhorse” wire protection

- Monofilament Nylon tubular braid
- -20° to +170°C temperature range
- 12,400 PSI yield tensile strength
- 90% elongation
- Excellent chemical resistance
- Excellent abrasion resistance
Black Dacron® Tubular Expandable Wire Protection

102-073: Economical, general duty wire protection per MIL-C-572G

- Yarn Dacron® tubular braid
- -62° to +150°C temperature range
- 10,000 PSI yield tensile strength
- 12% elongation
- Good chemical resistance
- Good abrasion resistance
- Fire-resistant, will not melt
Halar® Tubular Expandable Wire Protection Braid

102-020, -021, -022, and -023: chemically resistant to corrosive liquids /organic solvents, self-extinguishing

- Monofilament Halar® tubular braid
- -65° to +150°C temperature range
- 7,000 PSI yield tensile strength
- 15% elongation
- Excellent chemical resistance
- Excellent abrasion resistance
- Very low flammability
Polyethylene Tubular Expandable Wire Protection Braid

102-001 and -002: general-duty wire protection for rail, marine, and vehicle applications

- Monofilament polyethylene tubular braid
- \(-55^\circ\) to \(+125^\circ\)C temperature range
- 50,000 PSI yield tensile strength
- 20% elongation
- Good chemical resistance
- Good abrasion resistance
Ryton Tubular Expandable Wire Protection Braid

102-080: general duty, chemical resistant, dimensionally stable

- Monofilament Ryton tubular braid
- -65° to +180°C temperature range
- 19,000 PSI yield tensile strength
- 40% elongation
- Excellent chemical resistance
- Excellent abrasion resistance
PTFE Glass Tubular Expandable Wire Protection Braid

100-022 high-temperature range tubular braid: ideally suited for cable protection adjacent high-heat engine applications

- Highly flexible PTFE-glass tubular braided sleeving with outstanding high and low-temperature resistance (-204°C to +482°C)
- Ideally suited for rugged wire harness protection in proximity to engines and galleys
- Highly resistant to contaminants and toxic chemicals per ASTM D-570
- Smooth surface resistant to snagging and breakage
MasterWrap™

Lightweight, side-entry cable wrap with ArmorLITE Technology

- Lightweight, side entry, conductive EMI/RFI cable wrap for use in harness applications—from long runs, to spot coverage and repairs
- The faster, easier-to-apply cable covering for EMI/RFI shielding and abrasion protection applications
MasterWrap™ ArmorLite
Technology Advantages

- **Saves weight:** 70% material weight reduction compared QQ-B-575 / A-A-59569 nickel copper
- **Simplifies Installation:** Replaces harder-to-install tubular EMI/RFI sleeving
- **Saves Time:** Fast and easy side-entry installation and removal
- **Improves EMI/RFI shielding:** Reduces windowing and coverage gaps
- **Improves Performance:** Delivers superior flexibility, durability and reparability
MasterWrap™ ArmorLite

Technical Overview

- Microfilament stainless steel core, conductive nickel plating
- Interwoven PEEK spring members
- Woven mesh with built-in twist action
MasterWrap™ EMI Performance

No compromise compared to tubular braided product
MasterWrap™ Performance Testing

MasterWrap™ Lightning Test
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<th>Test Purpose:</th>
<th>Test Method:</th>
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<td>X</td>
<td>Visual, Weight, Braid’s Geometry inspections</td>
<td>Product conformance inspection</td>
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<td>9.2</td>
<td>X</td>
<td>Thermal Shock</td>
<td>Temperature cycling test with high +215°C and low -75°C</td>
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<td>Operating Temperature</td>
<td>Continuous high +260°C low -65°C</td>
<td>Glenair Material Standards</td>
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<td>DC Resistance</td>
<td>DC linear resistance measurement</td>
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<td>9.7</td>
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<td>Surface Transfer Impedance</td>
<td>Transfer impedance measurement</td>
<td>IEC 62153-4-3</td>
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<td>Shielding Effectiveness</td>
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<td>Tensile Strength</td>
<td>Test to obtain the ultimate breaking load and behavior of the product under tensile strength</td>
<td>LTI Test Plan and Procedure: DO-160G - Wave Form 5B</td>
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<td>Test material overbraid sleeve behavior to lightning test</td>
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<td>Section No. (per Table 3)</td>
<td>QTP 405 Table 3</td>
<td>Qualification Requirement:</td>
<td>Test Purpose:</td>
<td>Test Method:</td>
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<td>Mass Loss and Collected Volatile Condensable Materials</td>
<td>Record mass loss and volatile condensable materials</td>
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<td>Flexure endurance</td>
<td>Test material overbraid sleeve resistance to the flexion motion</td>
<td>BA Flex test Procedure</td>
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<td>Salt Spray</td>
<td>Test the material overbraid sleeve resistance to corrosive environment</td>
<td>ASTM B117-09 Sodium Chloride. 500 Hrs</td>
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<td>10.2</td>
<td>X</td>
<td>Random Vibration</td>
<td>Test the material overbraid sleeve resistance to the vibration</td>
<td>EN 6059-406 Par 406</td>
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<td>Fluid Immersion</td>
<td>Test the material overbraid sleeve resistance to the fluids</td>
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### MasterWrap™ ArmorLite Dimensions/How to Order

#### How to Order

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<th>Reference Wire Bundle Range Nominal</th>
<th>Approximate Weight Grams/ Ft.</th>
<th>Approximate Milliohms per Meter</th>
<th>Min. Pull Strength (lbs)</th>
<th>Size Indicator color code</th>
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<td>004</td>
<td>.125 (3.2)</td>
<td>.093 (2.4) .170 (4.3)</td>
<td>2.1</td>
<td>99.8</td>
<td>39</td>
<td>BLACK</td>
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<tr>
<td>008</td>
<td>.250 (6.4)</td>
<td>.170 (4.3) .300 (7.6)</td>
<td>4.0</td>
<td>52.2</td>
<td>75</td>
<td>BROWN</td>
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<tr>
<td>012</td>
<td>.375 (9.5)</td>
<td>.300 (7.6) .406 (10.3)</td>
<td>5.0</td>
<td>41.8</td>
<td>94</td>
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<tr>
<td>016</td>
<td>.500 (12.7)</td>
<td>.406 (10.3) .520 (13.2)</td>
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<td>34.0</td>
<td>116</td>
<td>ORANGE</td>
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<tr>
<td>020</td>
<td>.625 (15.9)</td>
<td>.520 (13.2) .675 (17.2)</td>
<td>8.7</td>
<td>24.2</td>
<td>158</td>
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<tr>
<td>024</td>
<td>.750 (19.1)</td>
<td>.675 (17.2) .825 (21.0)</td>
<td>10.6</td>
<td>20.0</td>
<td>193</td>
<td>GREEN</td>
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<tr>
<td>032</td>
<td>1.000 (25.4)</td>
<td>.825 (21.0) 1.100 (27.9)</td>
<td>12.9</td>
<td>16.4</td>
<td>237</td>
<td>BLUE</td>
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<td>040</td>
<td>1.250 (31.8)</td>
<td>.938 (23.8) 1.312 (38.3)</td>
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<td>TBD</td>
<td>TBD</td>
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<td>1.187 (30.1) 1.590 (40.4)</td>
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<td>TBD</td>
<td>TBD</td>
<td>GRAY</td>
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<td>064</td>
<td>2.000 (50.8)</td>
<td>1.812 (33.0) 2.090 (53.1)</td>
<td>25.8</td>
<td>TBD</td>
<td>TBD</td>
<td>WHITE</td>
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#### Reference Wire Bundle Range Nominal

- **004**: .093 (2.4), .170 (4.3)
- **008**: .170 (4.3), .300 (7.6)
- **012**: .300 (7.6), .406 (10.3)
- **016**: .406 (10.3), .520 (13.2)
- **020**: .520 (13.2), .675 (17.2)
- **024**: .675 (17.2), .825 (21.0)
- **032**: .825 (21.0), 1.100 (27.9)
- **040**: 1.187 (30.1), 1.590 (40.4)
- **048**: 1.590 (40.4), 2.090 (53.1)
- **064**: 2.090 (53.1), 2.580 (65.5)

#### Minimum Pull Strength (lbs)

- **004**: 39
- **008**: 75
- **012**: 94
- **016**: 116
- **020**: 158
- **024**: 193
- **032**: 237
- **040**: TBD
- **048**: TBD
- **064**: TBD
# MasterWrap™ ArmorLite Weight Savings

<table>
<thead>
<tr>
<th>EMI Braided Shielding Type</th>
<th>Weight g/ft</th>
<th>Weight g/m</th>
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<tbody>
<tr>
<td>Glenair nickel-clad copper braid</td>
<td>21.6</td>
<td>70.9</td>
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<tr>
<td>Raychem RAY-103-12.5 nickel-clad copper braid</td>
<td>21.9</td>
<td>72.0</td>
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## Weight of lightweight tubular (LWB) braided cable shielding

<table>
<thead>
<tr>
<th>Type</th>
<th>Weight g/ft</th>
<th>Weight g/m</th>
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<tbody>
<tr>
<td>AmberStrand® 100%</td>
<td>3.7</td>
<td>12.1</td>
</tr>
<tr>
<td>AmberStrand® 75% / 25%</td>
<td>4.9</td>
<td>16.1</td>
</tr>
<tr>
<td>ArmorLite™ 100%</td>
<td>4.4</td>
<td>14.4</td>
</tr>
<tr>
<td>ArmorLite™ 75% / 25%</td>
<td>5.4</td>
<td>17.7</td>
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<td>Raychem INSTALITE</td>
<td>13.4</td>
<td>44.0</td>
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## Weight of side-entry self-wrapping braided cable shielding

<table>
<thead>
<tr>
<th>Type</th>
<th>Weight g/ft</th>
<th>Weight g/m</th>
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<tbody>
<tr>
<td>MasterWrap™</td>
<td>6.2</td>
<td>20.3</td>
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<tr>
<td>Federal Mogul ROUNDIT® EMI FMJ</td>
<td>18.0</td>
<td>59</td>
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<tr>
<td>Federal Mogul ROUNDIT® EMI C27 XWS</td>
<td>23.5</td>
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# MasterWrap™ ArmorLite Shielding Performance

<table>
<thead>
<tr>
<th>FREQUENCY</th>
<th>NiCu</th>
<th>Armorlite™</th>
<th>Amberstrand®</th>
<th>MasterWrap™</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 KHz</td>
<td>5 mΩ/m</td>
<td>50 mΩ/m</td>
<td>60 mΩ/m</td>
<td>40 mΩ/m</td>
</tr>
<tr>
<td>100 KHz</td>
<td>5 mΩ/m</td>
<td>50 mΩ/m</td>
<td>60 mΩ/m</td>
<td>40 mΩ/m</td>
</tr>
<tr>
<td>1 MHz</td>
<td>12 mΩ/m</td>
<td>50 mΩ/m</td>
<td>60 mΩ/m</td>
<td>40 mΩ/m</td>
</tr>
<tr>
<td>10 MHz</td>
<td>80 mΩ/m</td>
<td>50 mΩ/m</td>
<td>80 mΩ/m</td>
<td>40 mΩ/m</td>
</tr>
<tr>
<td>100 MHz</td>
<td>130 mΩ/m</td>
<td>30 mΩ/m</td>
<td>110 mΩ/m</td>
<td>80 mΩ/m</td>
</tr>
</tbody>
</table>

**TRANSFER IMPEDANCE (Per IEC 62153-4)**
(Max values for 1/2 inch diameter shields)

<table>
<thead>
<tr>
<th>FREQUENCY</th>
<th>NiCu</th>
<th>Armorlite™</th>
<th>Amberstrand®</th>
<th>MasterWrap™</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 GHz</td>
<td>38 dB</td>
<td>55 dB</td>
<td>48 dB</td>
<td>40 dB</td>
</tr>
<tr>
<td>3 GHz</td>
<td>40 dB</td>
<td>60 dB</td>
<td>55 dB</td>
<td>35 dB</td>
</tr>
<tr>
<td>5 GHz</td>
<td>44 dB</td>
<td>60 dB</td>
<td>60 dB</td>
<td>45 dB</td>
</tr>
<tr>
<td>8 GHz</td>
<td>40 dB</td>
<td>50 dB</td>
<td>60 dB</td>
<td>40 dB</td>
</tr>
</tbody>
</table>

**SHIELDING ATTENUATION (Per IEC 62153-4)**
(Min values for 1/2 inch diameter shields)

<table>
<thead>
<tr>
<th>WEIGHT</th>
<th>154 g/m</th>
<th>14.4 g/m</th>
<th>12.1 g/m</th>
<th>20.3 g/m</th>
</tr>
</thead>
</table>
MasterWrap™ EWIS Wire Protection

Applications for MasterWrap™ lightweight side-entry cable wrap

- Wiring Installation
- Rework/Repair
- System Upgrades
- Test and Development
- Enhanced Shielding
New MasterWrap™ (Nomex®)

For spot mechanical coverage and repair of wire harnesses

- Abrasion protection
- Thermal protection
- Easy installation
- Color options for identification and labeling

DuPont™ and Nomex® are trademarks or registered trademarks of E.I. duPont de Nemours and Company.
MasterWrap Installation Tooling

AVAILABLE WIRE LOOM TOOL FOR EASY ASSEMBLY

Select size based on max bundle diameter

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Max Bundle Dia.</th>
</tr>
</thead>
<tbody>
<tr>
<td>600-180-08</td>
<td>3/8 in (8mm)</td>
</tr>
<tr>
<td>600-180-15</td>
<td>5/8 in (15mm)</td>
</tr>
<tr>
<td>600-180-20</td>
<td>3/4 in (20mm)</td>
</tr>
<tr>
<td>600-180-25</td>
<td>1 in (25 mm)</td>
</tr>
<tr>
<td>600-180-32</td>
<td>1 1/4 in (32mm)</td>
</tr>
</tbody>
</table>

Easy to use: simply gather wire bundle into the tool...

...Insert tool and wires into MasterWrap and run through
New ArmorLite and Nomex® Mesh Tape

Spot EMI and mechanical protection

DuPont™ and Nomex® are trademarks or registered trademarks of E.I. duPont de Nemours and Company.
Grounding and Bonding Straps

There are many reasons for grounding/bonding straps:

- Lightning strike
- Current return
- Grounding
- Power dissipation
- EMI shielding
- Abrasion resistance
- Dynamic loads, both mechanical and electrical
Lightweight, Low-Profile Ground Straps

- Lighter in weight: 67%+
- Low resistance: 6 mOhms (1.3 width )
- High flexibility: 250K
- Lightning strike: To 100kA
- Materials: 100% Stainless Steel, Blended Copper and Stainless Steel
- Broad operating temp: up to 260° C
- Good corrosion performance: 500 hr. salt spray
MS24749B Type IV Ground Straps

Lugs:
- Materials: 316 L Stainless
- Plating: N/A
- Holes: Multiple sizes

Braid:
- Materials: 50% Stainless Steel, 50% Nickel 200
- Plating: N/A
- Width: 1 inch per spec
- Length: Any
- Braid Qty: Single
Shield Termination Backshell Technology

SwingArm: Light Weight - Corrosion Free - Three-in-One

- Straight, 45° and 90°
- Integrated EMI/RFI shield sock
- Self-locking coupling nut
- Optional composite braid (319-065)
- Electroless nickel shield termination and interface
- No-braid version (627-122)
Heat Shrink Termination (HST) Sleeves with Tin-Copper, Nickel-Copper, AmberStrand, or ArmorLite braid

AS83519/2 TYPE · 077-030

Glenair
Braided Wire Protection

EMI/RFI Shielding • Mechanical Wire Protection • Grounding