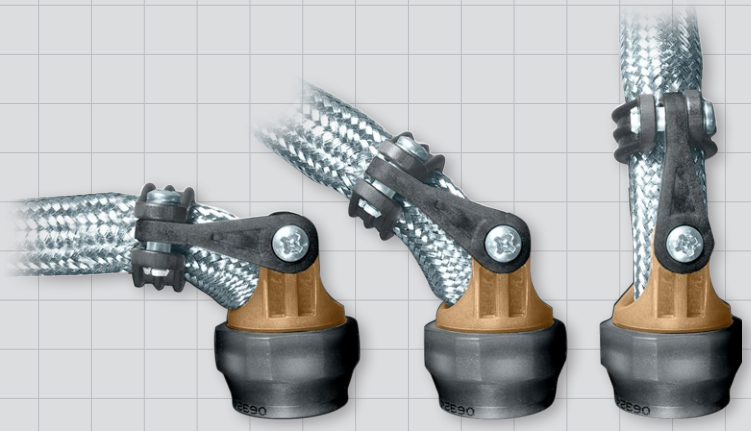
# ArmorLite™ Microfilament Nickel Clad Stainless Steel EMI/RFI Braided Shielding

Glenair®

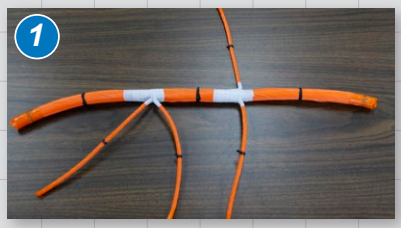


ARMORLITE™

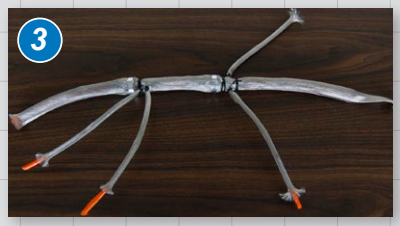


- Ultra-lightweight EMI/RFI braiding for high-temperature applications -80°C to +260°C
- Microfilament stainless steel: 70% lighter than NiCu A-A-59569
- Outstanding EMI/RFI shielding and conductivity
- Reduce shielding weight up to 70% and more
- Superior flexibility and "windowing" resistance:
  90 to 95% optical coverage
- 220,000 psi (min) tensile strength
- Best performing metallic braid during lightning tests (Run to ANSI/EIA-364-75-1997 Waveform 5B)

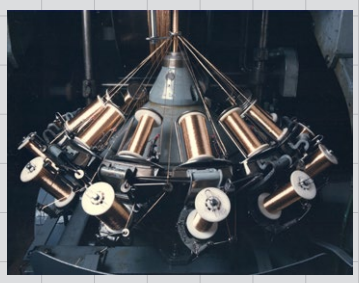
***Save weight and money every time you fly! Aircraft All-Up-Weight (AUW) has met its match: ArmorLite™ microfilament stainless steel braid saves pounds compared to standard QQ-B-575/A-A-59569 EMI/RFI shielding.***








Choose user-installable microfilament tubular braid in twelve standard diameters Assemble per standard multi-branch cable shielding processes, as above.



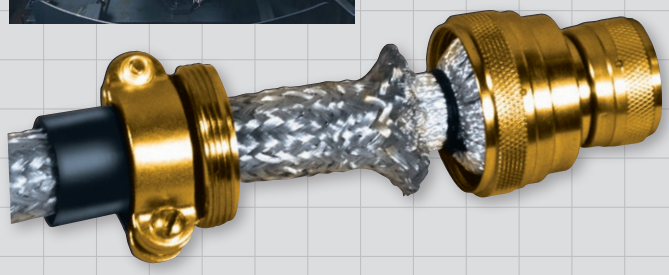
Glenair can also offer ArmorLite™ users direct factory overbraiding services for both point-to-point as well as multi-branch assemblies.

100% ArmorLite™

**103 - 051 - 024**

Diameter Dash Number

RoHS-Compliant Versions Available



***A single layer of ArmorLite™ Shields from 40dB to 80dB in Frequency Ranges from 30kHz to 2.5GHz***

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Dimensions in inches (millimeters) and are subject to change without notice.

# ArmorLite™ Microfilament Nickel Clad Stainless Steel EMI/RFI Braided Shielding

## Aircraft Utilization Analysis

Comparison of ArmorLite™ nickel clad stainless steel braid to A-A-59569 Ni/Cu braid

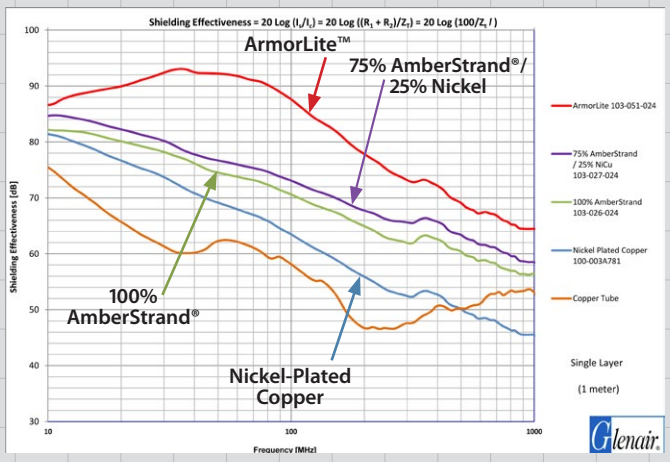
| Where is all the EMI/RFI braid deployed in a typical commercial aircraft? | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Diameter (in) | L Wing | R Wing | Fwd Belly | Aft Belly | HYD Bay | Aft Barrel | Tail | V/H Stab | Totals (in) |
| 0 - 0.25 | 1852.2 | 1852.2 | 0 | 2811.4 | 168.2 | 2015.2 | 2480.6 | 1385 | 12564.8 |
| 0.25 - 0.5 | 434.8 | 434.8 | 511.6 | 1034.6 | 257.4 | 506.2 | 958.2 | 1121.7 | 5259.3 |
| 0.5 - 0.75 | 0 | 0 | 260.9 | 223 | 0 | 184.2 | 392.4 | 152.1 | 1212.6 |
| 0.75 - 1.0 | 0 | 0 | 77.2 | 0 | 0 | 1198 | 162.2 | 0 | 1437.4 |
| 1.0 - 1.5 | 0 | 0 | 0 | 0 | 0 | 446 | 21 | 0 | 467 |

| How much would all this braid weigh if it was made of 36 AWG A-A-59569 NiCu? | | | |
|---|---|---|---|
| Diameter (in) | Weight (Lb/ft) | Length (in) | Weight (Lb) |
| 0 - 0.25 | 0.02 | 12564.8 | 21.08 |
| 0.25 - 0.5 | 0.05 | 5259.3 | 21.17 |
| 0.5 - 0.75 | 0.07 | 1212.6 | 7.12 |
| 0.75 - 1.0 | 0.14 | 1437.4 | 16.88 |
| 1.0 - 1.5 | 0.18 | 467 | 7.05 |
| | | Total weight | 73.30 Lbs |

| How much would all this braid weigh if it was made of ArmorLite™ Micro Stainless Steel Braided Shielding? | | | |
|---|---|---|---|
| Diameter (in) | Weight (Lb/ft) | Length (in) | Weight (Lb) |
| 0 - 0.25 | .00507 | 12564.8 | 5.309 |
| 0.25 - 0.5 | .0097 | 5259.3 | 4.251 |
| 0.5 - 0.75 | .0178 | 1212.6 | 1.737 |
| 0.75 - 1.0 | .0256 | 1437.4 | 3.063 |
| 1.0 - 1.5 | .0368 | 467 | 1.434 |
| | | Total weight | 15.794 Lbs |

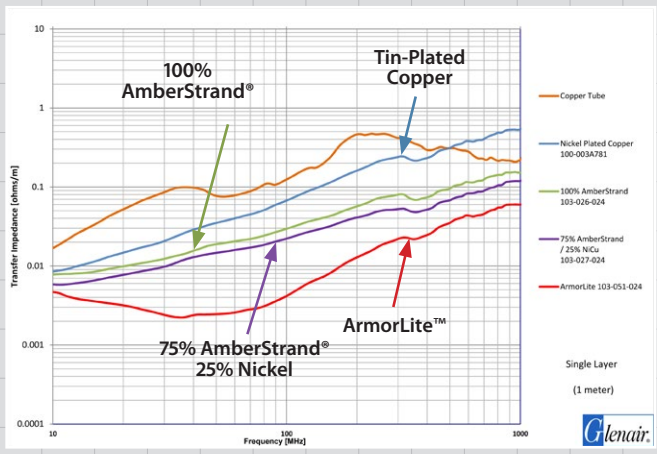
## Shielding Effectiveness

**For EMI/RFI Braiding Solutions - 0 MHz to 2500 MHz Range**




## Surface Transfer Impedance

**For EMI/RFI Braiding Solutions - 0 MHz to 2500 MHz Range**

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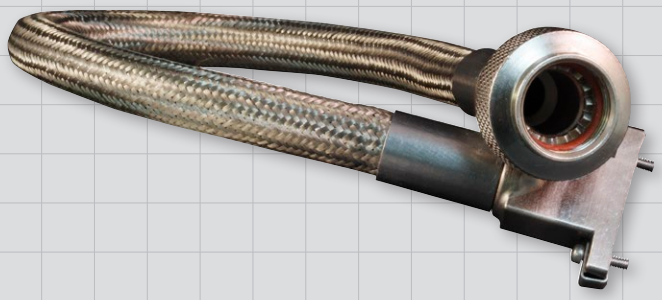
Dimensions in inches (millimeters) and are subject to change without notice. Rev 05.22.15

# ARMORLITE™

## EMI/RFI Braid: How-To-Order



## *103-051 ArmorLite™ Lightweight EMI/RFI Microfilament Stainless Steel Braided Shielding*

- **Thermal Cycling: No Adverse Effects**
- **Flame: Self Extinguishing**
- **Flex Test: 50,000 Cycles**
- **Salt Spray: 500 Hours**
- **70+% Lighter than NiCu QQ-B-575/A-A-59569**
- **Enhanced EMI/RFI Electrical Performance (DC resistance 1 Ohm/ft).**

**Product Series**

**103 - 051 - 024**

**Dash No.** (Table I)

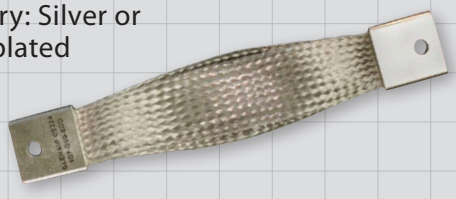
*Specify length on purchase order. No minimums!*
Additional sizes and configurations- consult factory

**Table I**

| Part Number | Inner Diameter | Ref. Wire Bundle Range | Approximate Grams Per Foot |
|---|---|---|---|
| 103-051-001 | .031 (0.8) | .016 (0.4)<br>.047 (1.2) | .53 |
| 103-051-002 | .062 (1.6) | .040 (1.0)<br>.075 (1.9) | 1.23 |
| 103-051-004 | .125 (3.2) | .093 (2.4)<br>.140 (3.5) | 1.60 |
| 103-051-008 | .250 (6.4) | .125 (3.2)<br>.312 (7.9) | 2.35 |
| 103-051-012 | .375 (9.5) | .250 (6.4)<br>.406 (10.3) | 3.10 |
| 103-051-016 | .500 (12.7) | .375 (9.5)<br>.560 (14.2) | 4.70 |
| 103-051-020 | .625 (15.9) | .375 (9.5)<br>.700 (17.8) | 5.13 |
| 103-051-024 | .750 (19.1) | .500 (12.7)<br>.800 (20.3) | 6.19 |
| 103-051-032 | 1.000 (25.4) | .780 (19.8)<br>1.100 (27.9) | 12.3 |
| 103-051-040 | 1.250 (31.8) | .938 (23.8)<br>1.312 (33.3) | 15.0 |
| 103-051-048 | 1.500 (38.1) | 1.187 (30.1)<br>1.590 (40.4) | 18.5 |
| 103-051-064 | 2.000 (50.8) | 1.312 (33.3)<br>2.090 (53.1) | 24.4 |

Glenair 107 series ground straps with ArmorLite.

The lightest ground straps in the industry: Silver or nickel plated



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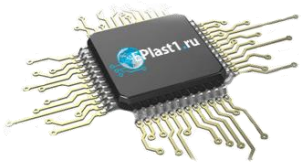
Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits,General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.




**Как с нами связаться**

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