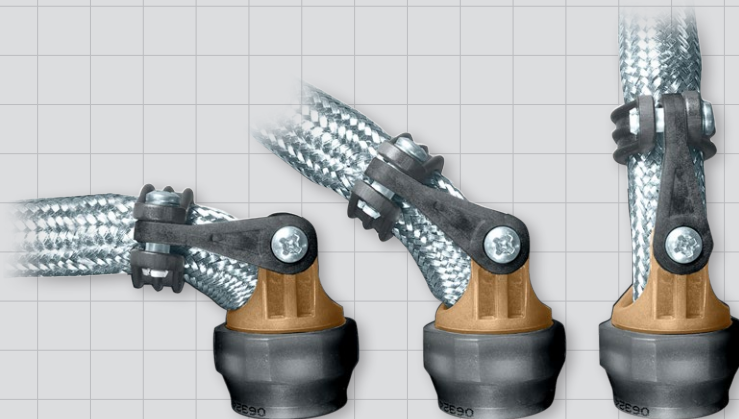


# ArmorLite™ Microfilament Nickel Clad Stainless Steel EMI/RFI Braided Shielding



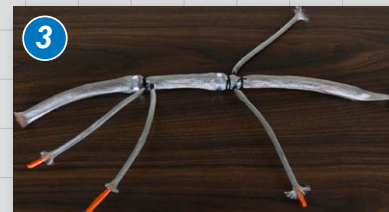
Supplemental  
Product Information

## 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



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

D



# 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?

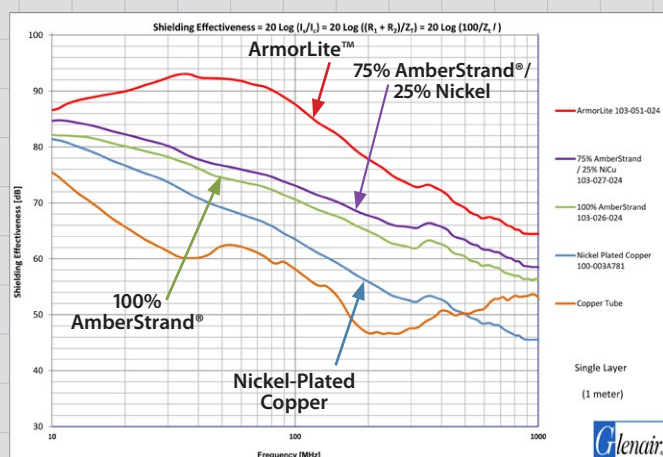
| Diameter (in) | Weight (Lb/ft) | Length (in)         | Weight (Lb)      |
|---------------|----------------|---------------------|------------------|
| 0 - 0.25      | 0.02           | 12564.8             | 21.08            |
| 0.25 - 0.5    | 0.05           | 5259.3              | 21.17            |
| 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             |
|               |                | <b>Total weight</b> | <b>73.30 Lbs</b> |

### 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             |
|               |                | <b>Total weight</b> | <b>15.794 Lbs</b> |

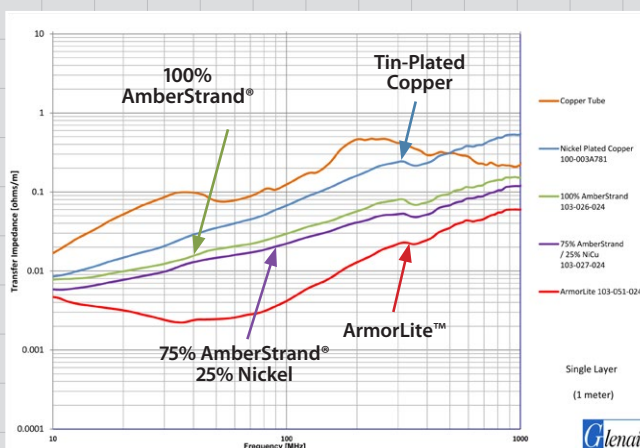
## Shielding Effectiveness

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



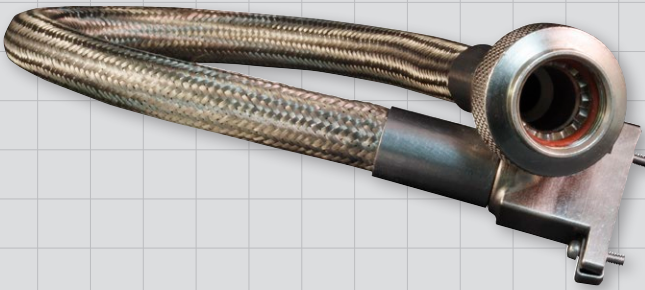
# ArmorLite™ Microfilament Nickel Clad Stainless Steel EMI/RFI Braided Shielding



Supplemental  
Product Information



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



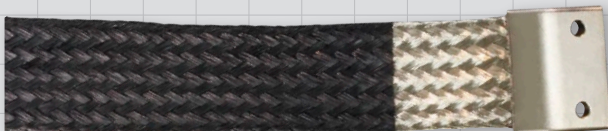
Product Series

**103 - 051 - 024**

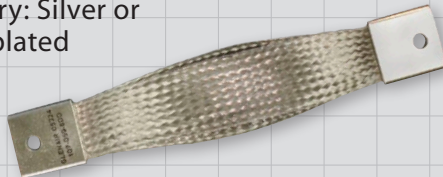
**Dash No.**  
(Table I)

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

Glenair 107 series ground straps with ArmorLite.



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



## 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).

Table I

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

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

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**D**

## Данный компонент на территории Российской Федерации

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Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

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Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

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