

Flexible EMI shielding tube

4800 - Technical datasheet

Flexible EMI shielding tube

Flexible EMI shielding tube is a ready-to-use Mu-copper wire or tinned Mu-copper wire braided tube through which a cable or bundle of cables can be pulled.

When the braided EMI/RFI shielding tube is compressed lengthwise, the diameter expands to simplify the assembly. Therefore a wide range of cable diameters can be shielded with a single flexible shielding tube.

Please note that the EMI/RFI shielding tube has to be expanded for larger diameters and that a larger nominal length will then be required (up to twice the length of the cable).

Typical EMI/RFI problem areas behind connectors and backshells can easily be shielded with the 4800 serie Flexible shielding tube (a.k.a. tubular braids). Multiple sizes are available to shield problem areas on the ends of cables / harnesses where additional EMI/RFI shielding is necessary to meet demanding specifications

Benefits of Flexible EMI shielding tube

- Highly flexible
- High EMI/RFI shielding performance
- Wide range of applications
- Easy to cut
- Useful in a broad range of temps. and environments

Technical specification

Melt point according ASTM D-2117	449°F (232°C)
Operating Temp	-60°C to 230C
Aromatic solvents	No effect
Aliphatic solvents	No effect
Color	Silver
Chlorinated solvents	No effect
Weak bases	No effect
Salts	No effect
Strong bases	Little effect
Salt water 0-S-1926	No effect
Hydraulic fluid MILH-5606	No effect
Lube Oil MIL-L-7808	No effect
De-Icing Fluid MIL-A-8243	No effect
Strong Acids	Severly affected
Strong Oxidants	Severly affected
Esters/Keytones	No effect
UV Light	Little effect
Petroleum	Little effect
Fungus ASTM G-21	Little effect
Halogen Free	Yes
RoHS	Yes

Physical properties

Monofilament diameter (ASTM D-204)	.005-.010
Flammability rating	Non flammable
Recommended Cutting	Shears
Wall thickness	.013-.025
Specific gravity ASTM D-792	NA
Moisture Absorption (% ASTM D-570)	NA

Shielding performance

Electronic field		
Frequency	Mode	Attenuation
1 MHz	E	121
10 MHz	E	110
100 MHz	E	103
400 MHz	E	98
1 GHz	E	93
10 GHz	E	90
Magnetic field		
10 KHz	H	10
100 KHz	H	14
1 MHz	H	21

These values are measured under laboratory conditions.
In your situation results may differ, please read our guarantee

Standard partnumbers

Diameter	Partnumber
3 - 6 mm	4806
5 - 15mm	4815
12 - 24mm	4824
20 - 36mm	4836

Standard roll lengths : 10, 25, 50 meter