



ROUNDIT® EMI FMJ Full Metal Jacket

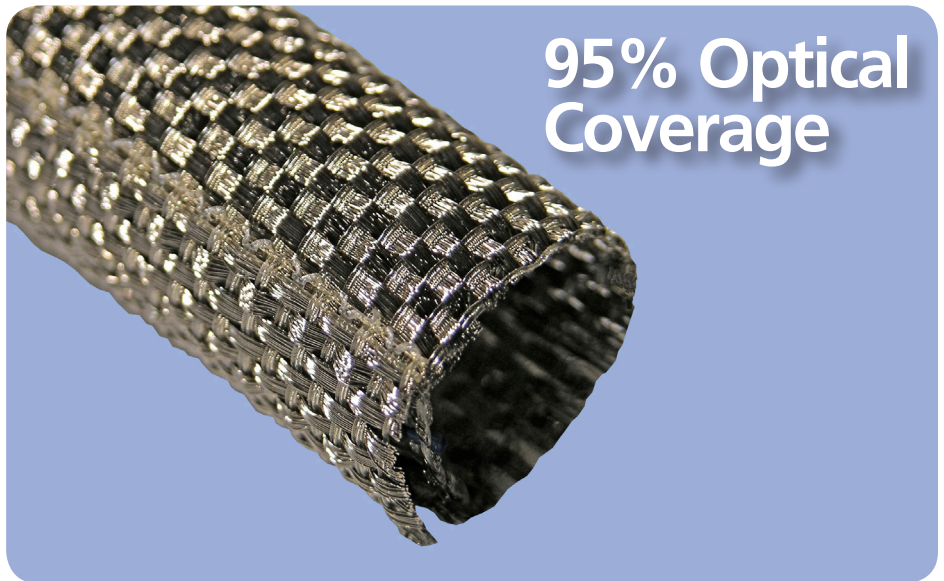
Product Highlights

- Operating temperature from -65°C to +200°C (-85°F to +392°F)
- High Performance EMI Shielding
 - Ro max = 5 mΩ
 - Lt = 0.6 nH/m
- FAR Part 25.853
- Halogen-free
- Self-wrapping design
- EN 45545-2
- Fast and easy installation
- Stable construction
- Ideal for reworking components without disconnecting them
- Blue tracer line indicating the maximum operating diameter
- Cu/Ni metal (ASTM B-355)



Our manufacturing sites are certified ISO 9001, ISO/TS 16949, or AS/EN 9100, and ISO 14001

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ROUNDIT® EMI FMJ (Full Metal Jacket) is a wrap-around sleeving designed for high performance EMI shielding of wire and cable bundles. ROUNDIT EMI FMJ is manufactured from PPS monofilaments and nickel plated copper.

The self-wrapping feature of ROUNDIT EMI FMJ allows for quick and easy installation and removal of the product for assembly and maintenance.

The design offers innovative solutions to the protection of breakout areas and also provides ease of removal when inspection or maintenance of cables is necessary.

The stable construction guarantees the same level of EMI shielding regardless of the diameter on which it is installed within the recommended application range.

As an additional benefit, ROUNDIT EMI FMJ enables users to stock a limited range of sizes to cover a wide range of cable and wire diameters.

Thanks to its unique geometry and metal insertion, ROUNDIT EMI FMJ is easy to clamp with existing solutions.

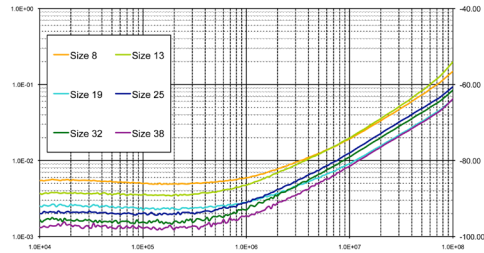
ROUNDIT EMI FMJ has many applications in the aeronautical, space and military industries.



As an added benefit, the patented ROUNDIT® Tool will help improve installation time and is designed to install ROUNDIT® products on cable and wire configurations.

BentleyHarris®
Protection Products

Performance Data – ROUNDIT® EMI FMJ

Property	Test Method	Result
PHYSICAL		
Operating temperature range	Thermal endurance & shocks	-65°C to +200°C (-85°F to +392°F)
Rapid change of temperature	EN 2591-305	Pass
Flammability/smoke density/toxicity	FAR Part 25 § 853 & ABD 031 NF16101-16102 EN 45545-2	Conforms I3 F0 R22 HL3 R23 HL3
MECHANICAL		
Dynamic cut-through	EN 6059 Part 405	Pass
Bending	EN 6059 Part 402	Pass
Hard Vacuum Total Mass Loss (TML) Collected Volatile Condensable Material (CVCM) Water Vapor Recovery (WVR)	ASTM E-595	Meets industry standards 0.03% 0.01% 0.02%
CHEMICAL		
Fluid Resistance Jet Fuel: JP4 (NATO F44) Hydraulic Fluid: Skydrol 500 B4 Mineral Oil: MIL-L-7870A Synthetic Oil: MIL-L-23699 Cleaning fluids: MIL-L87936 De-Icing Fluid: MIL-A-8243	EN 6059-303	Pass
Salt spray resistance	EN 2591-307 – 96 hours	Pass
Mould Growth	EN 6059 Part 306	Pass
EMI PERFORMANCE		
Resistance Measurement EN 3475-301 Ro max size 8 - 5.5 mΩ Ro max other sizes - 5 mΩ Transfer Impedance IEC 62153-4-3 Triaxial method on straight installation Lt = 0.6 nH		
Lightning	EN 2591-214 – Waveform 1 10KA	Pass

Product Specifications

Commercial Part Number	Recommended App. Range mm (in)		Typical Weight g/m (lbs/ft)	Maximum Weight g/m (lbs/ft)	Maximum Backshell Diameter mm (in)	Standard Packaging m (ft)	Packaging for Space Applications m (ft)
	Min Ø	Max Ø					
ROUNDIT EMI FMJ 8-8	5 (3/16")	8 (5/16")	40 (0.027)	41 (0.027)	10 (3/8")	250 (820')	100 (328')
ROUNDIT EMI FMJ 13-8	8 (5/16")	13 (1/2")	60 (0.040)	61 (0.041)	16 (5/8")	175 (574')	50 (164')
ROUNDIT EMI FMJ 19-8	13 (1/2")	19 (3/4")	85 (0.057)	87 (0.059)	23 (7/8")	125 (410')	25 (82')
ROUNDIT EMI FMJ 25-8	19 (3/4")	25 (1")	107 (0.072)	110 (0.074)	31 (1-1/4")	75 (246')	25 (82')
ROUNDIT EMI FMJ 32-8	25 (1")	32 (1-1/4")	144 (0.096)	147 (0.099)	40 (1-9/16")	50 (164')	25 (82')
ROUNDIT EMI FMJ 38-8	32 (1-1/4")	38 (1-1/2")	169 (0.113)	173 (0.116)	47 (1-27/32")	35 (115')	25 (82')
ROUNDIT EMI FMJ 5-8	1 (1/32")	5 (3/16")	30 (0.020)	31 (0.021)	6 (1/4")	250 (820')	100 (328')

Note: Size 5 is designed for cross-talk applications and complies with a maximum R0 at 8 mΩ and a Lt at 1.3 nH. This size is delivered with a white ivory line for maximum operating diameter identification. Lightning strike exposure upon request.

Part Numbering System

Example	Product Name	Size	Color	Quantity
	ROUNDIT EMI FMJ	8	8 (Light gray)	100 m



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