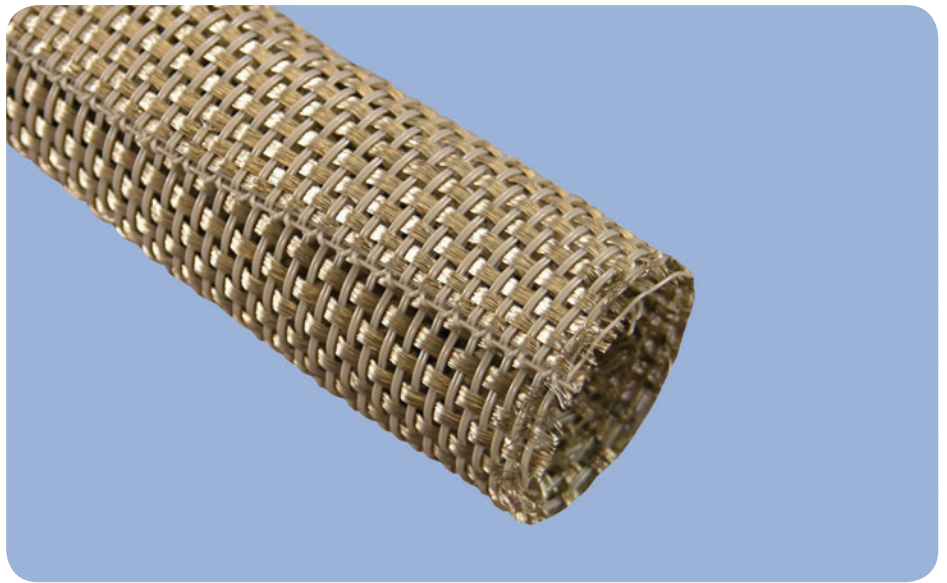EMI

ROUNDIT® V0 EMI

Product Highlights

- Operating temperature -50°C to +200°C (-58°F to +392°F)

- Self-wrapping design

- Fast and easy installation for local EMI protection

- Stable construction

- Ideal for reworking components without disconnecting them

- Zero Halogen

- UL 94 V0 Raw material

- Cu/Ni metal (ASTM B-355)

- Good level of EMI shielding R0 max = 6 mΩ and Lt = 1.2 nH

RoHS COMPLIANT

Our manufacturing sites are certified ISO 9000, QS 9000 or ISO/TS 16949 and ISO 14001

ROUNDIT® V0 EMI is a wrap-around sleeving designed for high performance EMI shielding of wire and cable bundles. ROUNDIT V0 EMI is manufactured from UL 94 V0 rated PPS monofilaments and nickel plated copper wires class 4 according to ASTM B-355.

The self-wrapping feature of ROUNDIT V0 EMI 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 V0 EMI enables users to stock a limited range of sizes to cover a wide range of cable and wire diameters.

ROUNDIT V0 EMI has many applications in the railway, marine and electronics 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

FEDERAL MOGUL
Systems Protection

Performance Data – ROUNDIT® V0 EMI

Property	Test Method	Result
PHYSICAL		
Operating temperature range		-50°C (-58°F) to +200°C (392°F)
Heat Aging	EN6059-302 (168 hours)	+200°C (392°F)
Fire / Smoke / Toxicity	UL 94 BS6853 DIN 5510 §2 & 54837	Raw material classified V0 Zero halogen Toxicity R< 1.0 S4, SR2, ST2
Nickel plated copper	ASTM B-355	Nickel plated copper Class 4
CHEMICAL		
Fluid resistance - Hydraulic fluids: NATO.0.156	EN 6059-303 Immersion for 24hrs at +70°C D47 1924	No visible degradation after being exposed
Salt spray resistance	EN2591-307- 96 hours	Pass
EMI PERFORMANCE		
Resistance Measurement EN 3475-301 R0 max all sizes = 6 mΩ Transfer Impedance IEC 60096-1 Triaxial method on straight installation Lt = 1.2 nH		

Transfer impedance measurements
ROUNDIT V0 EMI size 08, 13, 19, 25, 32, 38 & 45 - Straight
(Nickel Plated Copper)

Product Specifications

Commercial Part Number	Nominal Size* (mm)	Recommended Application Range mm (in)		Cross Section (mm²)	Maximum Mass g/m	Standard Packaging m (ft)
		Min Ø	Max Ø			
ROUNDIT V0 EMI 8	8	5 (3/16")	8 (5/16")	3.5	40	250 (820')
ROUNDIT V0 EMI 13	13	8 (5/16")	13 (1/2")	4.8	55	175 (574')
ROUNDIT V0 EMI 19	19	13 (1/2")	19 (3/4")	5.9	66	125 (410')
ROUNDIT V0 EMI 25	25	19 (3/4")	25 (1")	6.9	80	75 (246')
ROUNDIT V0 EMI 32	32	25 (1")	32 (1-1/4")	8.9	105	50 (164')
ROUNDIT V0 EMI 38	38	32 (1-1/4")	38 (1-1/2")	10.6	120	35 (114')
ROUNDIT V0 EMI 45**	45	38 (1-1/2")	45 (1-3/4")	11.9	140	35 (114')

*Nominal size is determined by wrapping the product around a mandrel of a given size to obtain 90 degrees of overlap (average value).
** Size 45 has 80 degrees of overlap (average value).

Commercial Part Number

Example:	Product Name	Size	Color	Quantity
	ROUNDIT V0 EMI	13	8 (light gray)	250 m

FEDERAL MOGUL
Systems Protection

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