



Product Highlights

- Operating temperature
-50°C to +200°C
(-58°F to +392°F)
- Self-wrapping design
- EN45545-2
- Fast and easy installation for local EMI protection
- Stable construction
- Integrated drain wires for easy grounding without accessories
- Ideal for reworking components without disconnecting them
- Zero Halogen
- UL 94 V0 Raw material
- Cu/Ni Metal (ASTM B-355 nickel plated copper)
- Good level of EMI shielding
R0 max = 6 mΩ
and Lt = 1.2 nH/m

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

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

The textile pattern incorporates drain wires which once pulled out of the construction by a simple manual operation can be crimped to a nearby grounding point.

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 DW enables users to stock a limited range of sizes to cover a wide range of cable and wire diameters.

ROUNDIT EMI DW has many applications in the railway, marine and electronics industries.



Our manufacturing sites are certified ISO 9001, IATF 16949, or AS/EN 9100, ISO 14001 and ISO 45001 (Selected Sites)



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.

Performance Data – ROUNDIT® EMI DW

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 EN 45545-2	Raw material classified V0 R22: HL3 R23: HL3
Nickel plated copper	ASTM B-355	Nickel plated copper
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 PERFORMANCES	
<p>Resistance Measurement</p> <p>EN 3475-301 R0 max all sizes = 6 mΩ</p> <p>Transfer Impedance</p> <p>IEC 62153-4-3 Triaxial method on straight installation Lt = 1.2 nH</p>	<p style="text-align: center;">Transfer impedance measurements Roundit® EMI DW - Test configuration : Straight</p> <p>The graph plots Transfer Impedance (Zt) in ohms/m on the left y-axis (log scale from 1.0E-03 to 1.0E+01) and Shielding effectiveness in dB/m on the right y-axis (linear scale from -100 to -20) against Frequency in Hz on the x-axis (log scale from 1.0E+04 to 1.0E+08). A legend indicates: Max. tolerance (6 mOhm/m - 1.2 nH/m) in purple, Roundit® EMI DW size 13 in light blue, size 19 in yellow, size 25 in orange, size 32 in dark blue, and size 45 in green. All curves show an upward trend with frequency, with size 45 reaching the highest values at 1.0E+08 Hz.</p>

All numeric performance data shows average or typical values. Please consult your sales representative for product drawings, test reports and OEM approvals.

Product Specifications

Commercial Part Number	Nominal Size mm (in)	Recommended Application Range mm (in)		Sleeve Cross Section (mm ²)	Drain Wire Cross Section (mm ²)	Maximum Mass g/m (lbs/ft)	Standard Packaging m (ft)
		Min Ø	Max Ø				
ROUNDIT EMI DW 13-8	13 (1/2")	8 (1/8")	13 (1/2")	5.27	2 x 1.23	102 (0.0685)	100 (328')
ROUNDIT EMI DW 19-8	19 (3/4")	13 (1/2")	19 (3/4")	4.5	2 x 1.23	120 (0.0806)	50 (164')
ROUNDIT EMI DW 25-8	25 (1")	19 (3/4")	25 (1")	5.1	3 x 1.23	140 (0.0940)	35 (115')
ROUNDIT EMI DW 32-8	32 (1-1/4")	25 (1")	32 (1-1/4")	7.7	3 x 1.23	160 (0.1075)	35 (115')
ROUNDIT EMI DW 45-8	45 (1-3/4")	32 (1-1/4")	45 (1-3/4")	10.4	3 x 1.23	170 (0.1142)	35 (115')

Commercial Part Number

Example	Product Name	Size	Color	Quantity
	ROUNDIT EMI DW	45	8 (Light gray)	35 m



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