

Protective Sleeving

ROUNDIT® 2000NX EMI Cu/Ni

Polyphenylene Sulfide and NOMEX®

Self-wrapping electromagnetic shielding

Electromagnetic Shielding and Screening

Roundit® 2000NX EMI Cu/Ni is a self-wrapping sleeve designed for mechanical protection and EMI shielding of wire and cable bundles. The outer layer, which supplies the abrasion resistance, is manufactured from PPS monofilaments and Nomex® with an oil and water repellent treatment. The inner layer is composed of nickel-plated copper (Cu/Ni), which provides the EMI insulation. The outer layer construction with a 100% covering ratio provides excellent cut-through and abrasion resistance.

Roundit 2000 NX EMI is also available with an internal layer of PTFE tape; allowing wire harnesses to be protected from the internal metal layer. The self-wrapping feature allows for quick and easy installation and removal of the product for assembly and maintenance.

Roundit 2000 NX EMI has many applications in the aerospace and defence industries from aircraft seating looms to RN Vessels

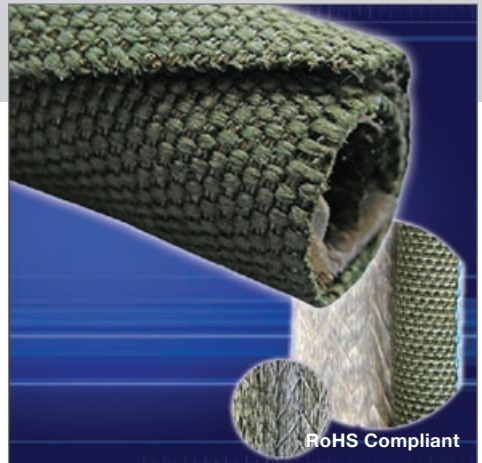
* Nomex is a registered trademark of E.I. DuPont de Nemours.

Features & Benefits

- High performance EMI shielding
- Halogen free
- Oil and water repellent
- Salt spray resistant (500 hours)

Operating Temperature

- From -60°C to +200°C



Specifications & Approvals

- ASD EN 6049-008

Notes

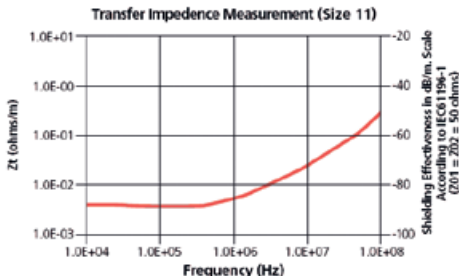
Nominal size is determined by wrapping product around a mandrel of a given size to obtain 90° of overlap (average value).

For further information on this or other products in our range, or for assistance with your specific requirements, please contact us.

All numeric data shows average or typical values.

Application Tool

A professional aluminium assembly tool 'ROUNDIT-TOOL' is available for sizes 5, 8, 13 and 19mm, see table. Please note that a basic red plastic tool used for demonstration is also available free of charge on request.



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Self-wrapping electromagnetic shielding

Properties	Test	Results
Rapid change of temperature	EN2591-305	Pass
Fire / Smoke / Toxicity	ABD 013 & FAR 25 § 853	Pass
Water repellency	EN 6059 Part 305	Pass
Abrasion resistance	EN 6059 Part 403	Pass
Dynamic cut-through	EN 6059 Part 405	Pass
Chemical		
Fluid resistance <ul style="list-style-type: none"> • Jet fuel: JP4 (Otan F44) • Hydraulic fluid: Skydrol 500 B4 • Mineral oil: MIL-L-7870A • Synthetic oil: MIL-L-23699 • Cleaning fluids: MIL-L-87936 • De-icing fluid: MIL-A-8243 	EN 6059-303	Good resistance
Salt spray resistance	EN 2591-307 for 500 hours ASTM B355	Pass Class 27 Nickel plated copper
Mould growth	EN 6059 Part 306	Pass
EMI Performances		
Transfer Impedance	IEC 60512-23-3 Triaxial method	Size 11: Ro = 3.45 mΩ/m

Inside Diameter		Max Weight	Pack Size	Part Number
Nominal (mm)	Max (mm)	Nom g/m	Spools	
6	10.0	83	50m	ROUNDIT-2000-NX-EMI-*-6mm-Green
11	14.8	131	50m	ROUNDIT-2000-NX-EMI-*-11mm-Green
17	23.0	192	25m	ROUNDIT-2000-NX-EMI-*-17mm-Green
23	30.4	247	25m	ROUNDIT-2000-NX-EMI-*-23mm-Green
30	39.3	322	25m	ROUNDIT-2000-NX-EMI-*-30mm-Green
38	49.0	409	25m	ROUNDIT-2000-NX-EMI-*-38mm-Green

When * = **A** the sleeving comes without internal PTFE layerWhen * = **B** the sleeving comes with internal PTFE layer**Part Number Example; ROUNDIT-2000-NX-EMI-B-17mm-Green**

17mm nominal inside Ø, supplied in 25m spools as standard.

Ordering Information

Standard Colour: Green (Olive Green)

Standard packaging: Spools only, for MOQ please contact us

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