



EMI

ROUNDIT® 2000 NX EMI

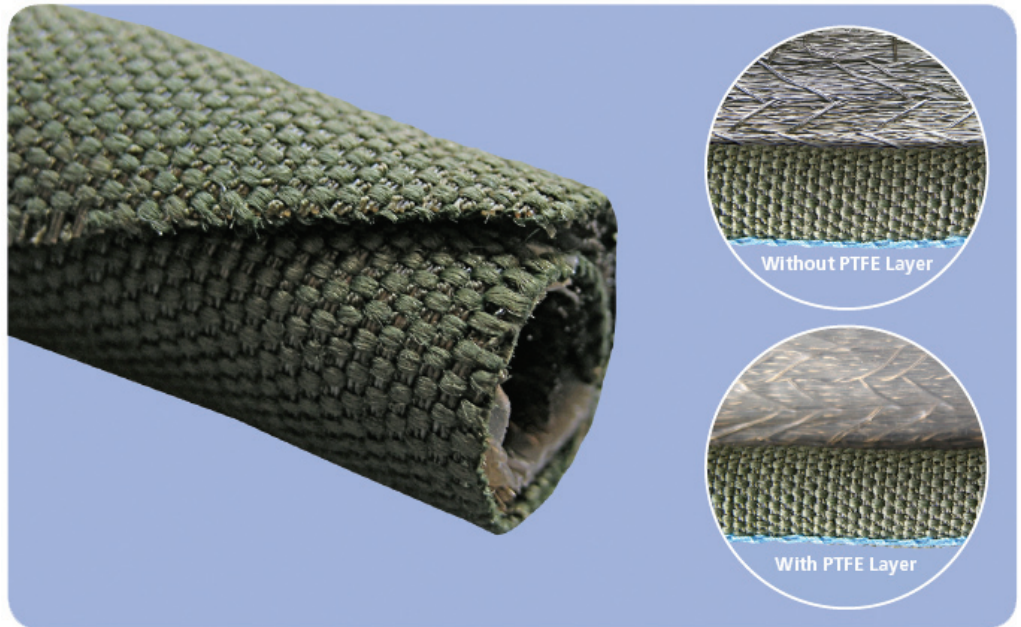
Product Highlights

- Operating temperature from -60°C to 200°C (-76°F to 392°F)
- High performance EMI shielding
- ASD EN 6049-008
- Excellent cut-through and abrasion resistance
- Halogen-free
- Self-wrapping design
- Ideal for reworking components without disconnecting them
- Tracer indicating the maximum operating diameter
- Oil and water repellent
- Salt Spray Resistant (500 hours)



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

RI2000NXEMI_30042008



ROUNDIT® 2000 NX EMI 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 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 inner 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 aeronautical and military industries.

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



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® 2000 NX EMI

Property	Test Method	Result
PHYSICAL		
Operating temperature range	Thermal endurance & shocks	-60°C to 200°C
Rapid change of temperature	EN2591-305	Pass
Flammability/smoke density/toxicity	ABD 031 & FAR 25 § 853	Conforms
Water repellent	EN 6059 Part 305	Pass
MECHANICAL		
Abrasion resistance	EN 6059 Part 403	Pass
Dynamic cut-through	EN 6059 Part 405	Pass
CHEMICAL		
Fluid Resistance Jet Fuel JP-4 (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 Good resistance Good resistance Good resistance Good resistance Good resistance
Salt spray resistance	EN 2591-307 — 500 hours ASTM B355	Pass Class 27 nickel plated copper
Mould Growth	prEN 6059 Part 306	Pass
EMI PERFORMANCE		
Transfer impedance EC 60512-23-3 (triaxial method)		
Tests made by the Labinal Laboratory in France. Report N° D10-04-061 made on 5/27/2004		
Size 11 Ro = 3.45 mΩ/m		
	<p>Transfer Impedance Measurement</p> <p>Legend: Size 6 (red), Size 11 (magenta), Size 17 (blue), Size 23 (green), Size 30 (cyan), Size 38 (dark blue)</p> <p>Y-axis: Zt (ohms/m) from 1.0E-03 to 1.0E+00 X-axis: Frequency (Hz) from 1.0E+04 to 1.0E+08</p> <p>Right Y-axis: Shielding Effectiveness in dB/m. Scale According to IEC61196-1 (Z01 = Z02 = 50 ohms) from -40 to -100</p>	

Product Specifications

Commercial Part Number	Recommended Application Range mm (in)		Max Weight g/m (lbs/ft)	Max Weight (with PTFE layer) g/m (lbs/ft)	Standard Packaging m (ft)
	Min Ø	Max Ø			
R2000 NX EMI V* 6-5	1 (1/32")	6 (1/4")	79 (0.174)	86 (0.058)	50 (164')
R2000 NX EMI V* 11-5	6 (1/4")	11 (7/16")	92 (0.203)	102 (0.068)	50 (164')
R2000 NX EMI V* 14-5	11 (7/16")	14 (9/16")	116 (0.256)	132 (0.088)	25 (82')
R2000 NX EMI V* 17-5	14 (9/16")	17 (11/16")	149 (0.328)	165 (0.111)	25 (82')
R2000 NX EMI V* 23-5	17 (11/16")	23 (7/8")	175 (0.386)	196 (0.132)	25 (82')
R2000 NX EMI V* 30-5	23 (7/8")	30 (1-3/16")	235 (0.518)	262 (0.176)	25 (82')
R2000 NX EMI V* 38-5	30 (1-3/16")	38 (1-1/2")	305 (0.672)	339 (0.228)	25 (82')

V* = A : Without internal PTFE layer; V* = B : With internal PTFE layer.

Part Numbering System

Example	Product Name	Size	Color	Quantity
	ROUNDIT 2000 NX EMI	6	5 (green)	50 m / 164 ft



USA: (1) 800 926 2472
 Europe: (33) 3 44 39 06 06
 Japan: (81) 45 938 8711
 China: (86) 21 5588 0898

The information and illustrations given herein are believed to be reliable. Federal-Mogul makes no warranties as to their accuracy or completeness and disclaims any liability in connection with their use. Federal-Mogul's only obligations are those in the standard term of sale for this product and Federal-Mogul will not be liable for any consequential or other damages arising out of the use or misuse of this product. Users should make their own evaluations to determine the suitability of the product for specific applications.