



EMI

# ROUNDIT® 2000 NX EMI

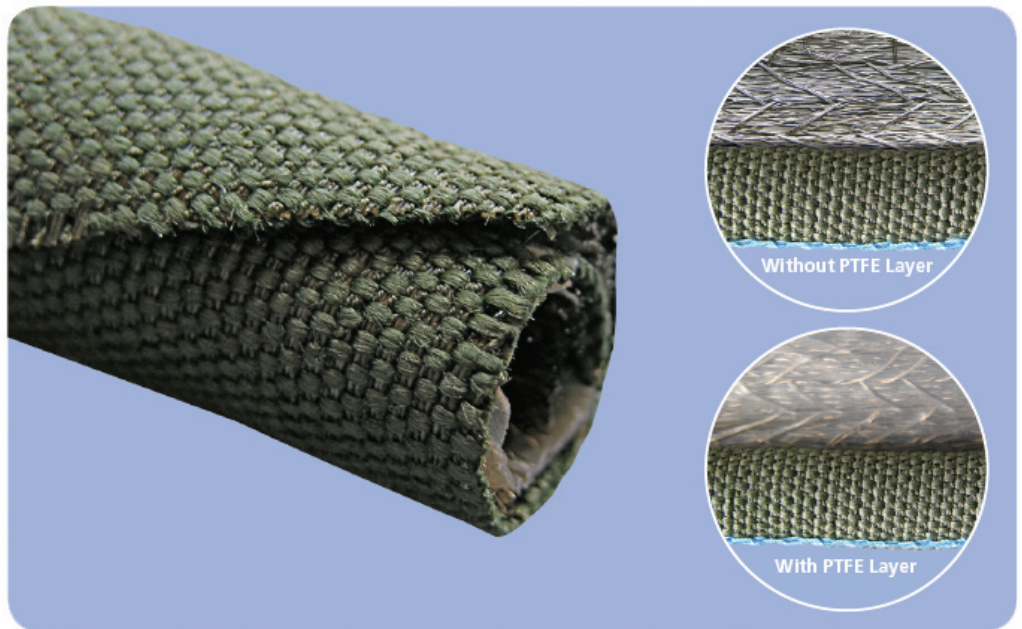
## Product Highlights

- 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

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**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

**A.E. Petsche Co.**

Corporate Headquarters: 2112 West Division, Arlington, TX 76012-3693  
817.461.9473 ph | 817.277.2887 fx | [www.aepetsche.com](http://www.aepetsche.com)

**FEDERAL MOGUL**  
Systems Protection

# Performance Data – ROUNDIT® 2000 NX EMI

Property	Test Method	Result
<b>PHYSICAL</b>		
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
<b>MECHANICAL</b>		
Abrasion resistance	EN 6059 Part 403	Pass
Dynamic cut-through	EN 6059 Part 405	Pass
<b>CHEMICAL</b>		
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
<b>EMI PERFORMANCE</b>		
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 style="text-align: center;"><b>Transfer Impedance Measurement</b></p> <p style="text-align: center;">Zt (ohms/m)</p> <p style="text-align: center;">Frequency (Hz)</p> <p style="text-align: right; font-size: small;">Shielding Effectiveness in dB/m. Scale According to IEC61196-1 (Z01 = Z02 = 50 ohms)</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

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