

ROUNDIT® 2000NX 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
- Water repellent
- Salt Spray Resistant (500 hours)



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



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 a 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.



Performance Data – ROUNDIT[®] 2000NX EMI

Property	Test Method	Result		
PHYSICAL				
Operating temperature range	Thermal endurance & shocks	-60°C to +200°C (-76°F to +392°F)		
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 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	Transfer Impedence Measurement 1,66-00 1,06-01 1,06-02 1,06-02 1,06-02 1,06-04			
Size 11 Bo $- 3.45 \text{ mO/m}$				

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	Recommended Application Range mm (in)		Max Weight	Max Weight (with PTFE laver)	Standard Packaging m (ft)	Max Backshell
	Min Ø	Max Ø	g/m (lbs/ft)	g/m (lbs/ft)	Continuous Length	Diameter mm (in)
R2000 NX EMI V* 6-5	1 (1/32")	6 (1/4")	79 (0.053)	86 (0.058)	50 (164′)	10 (0.375)
R2000 NX EMI V* 11-5	6 (1/4")	11 (7/16")	92 (0.062)	102 (0.068)	50 (164')	14.8 (0.583)
R2000 NX EMI V* 14-5	11 (7/16")	14 (9/16")	116 (0.078)	132 (0.088)	25 (82')	20 (0.787)
R2000 NX EMI V* 17-5	14 (9/16")	17 (11/16")	149 (0.100)	165 (0.111)	25 (82')	23 (0.906)
R2000 NX EMI V* 23-5	17 (11/16")	23 (7/8″)	175 (0.117)	196 (0.132)	25 (82')	30.4 (1.197)
R2000 NX EMI V* 30-5	23 (7/8")	30 (1-3/16")	235 (0.157)	262 (0.176)	25 (82')	39.3 (1.547)
R2000 NX EMI V* 38-5	30 (1-3/16")	38 (1-1/2")	305 (0.204)	339 (0.228)	25 (82')	49 (1.929)

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

Part Numbering System

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



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