



EMI

# ROUNDIT<sup>®</sup> EMI C27 XWS

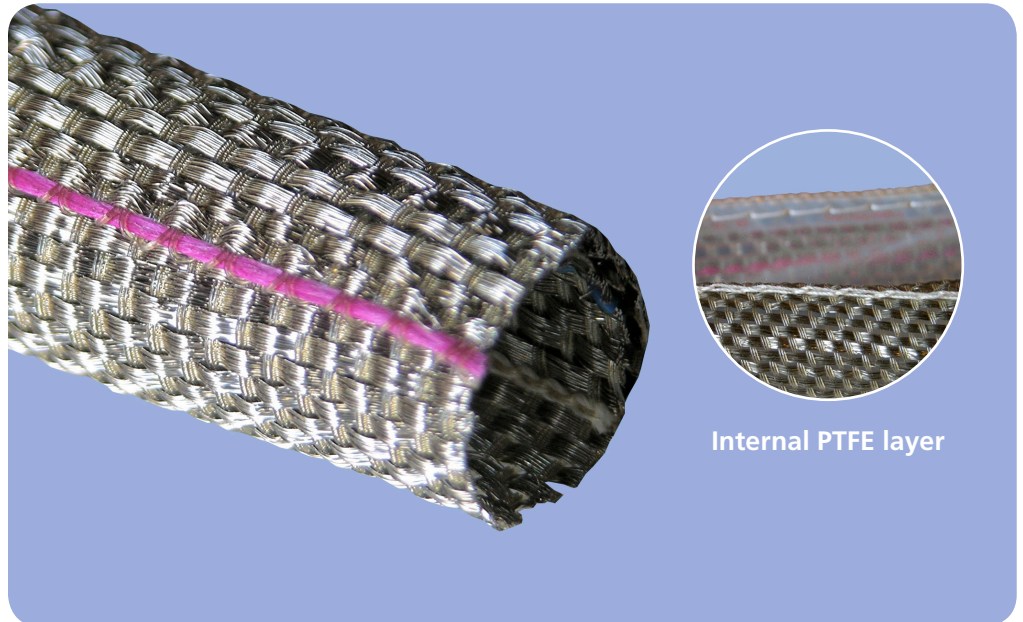
## Product Highlights

- High Performance EMI Shielding  
Ro max = 5 mΩ  
Lt = 2 nH
- Operating Temperature  
-65°C to +200°C  
(-85°F to +392°F)
- ASD EN 4674-004
- Halogen-free
- Self-wrapping design
- Fast and easy installation
- Stable construction
- Ideal for reworking components without disconnecting them
- Tracer indicating the maximum operating diameter



Our manufacturing sites are certified ISO 9001, ISO/TS 16949, or AS/EN 9100, and ISO 14001

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Internal PTFE layer

**ROUNDIT<sup>®</sup> EMI C27 XWS** is a wrap-around sleeving designed for EMI shielding of wire and cable bundles. ROUNDIT EMI C27 XWS is manufactured from PPS monofilaments and nickel plated copper C27 supplied with an internal layer of PTFE tape thus allowing wire harnesses to be protected from the metal.

The self-wrapping feature of ROUNDIT EMI C27 XWS allows for quick and easy installation and removal of the product for assembly and maintenance.

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.

As an additional benefit, ROUNDIT EMI C27 XWS enables users to stock a limited range of sizes to cover a wide range of cable and wire diameters.

Thanks to its unique geometry and metal insertion, ROUNDIT EMI C27 XWS is easy to clamp with existing solutions.

ROUNDIT EMI C27 XWS has many applications in the aeronautical and defense industries.



As an added benefit, the patented ROUNDIT<sup>®</sup> Tool will help improve installation time and is designed to install ROUNDIT<sup>®</sup> products on cable and wire configurations.

**BentleyHarris<sup>®</sup>**  
Protection Products

# Performance Data – ROUNDIT® EMI C27 XWS

Property	Test Method	Result
<b>PHYSICAL</b>		
Operating temperature range	Thermal endurance and shocks	-65°C to +200°C (-85°F to +392°F)
Rapid change in temperature	EN6059-308	Pass
Flammability/smoke density/toxicity	ABD 031 & FAR Part 25 § 853	Conforms
<b>MECHANICAL</b>		
Dynamic cut-through	EN 6059 Part 405	Pass
Bending	EN 6059 Part 402	Pass
Vibrations	EN 6059 Part 406	Pass
<b>CHEMICAL</b>		
Fluid Resistance - Jet Fuel: JP4 (NATO F44) - Hydraulic Fluid: Skydrol 500 B4 - Mineral Oil: MIL-L-7870A - Synthetic Oil: MIL-L-23699 - Cleaning fluids: MIL-L87936 - De-Icing Fluid: MIL-A-8243	EN 6059-303	Good resistance Good resistance Good resistance Good resistance Good resistance Good resistance
Salt spray resistance	EN2591-307 - 500 hours	Pass
Mold Growth	EN 6059 Part 306	Pass
<b>EMI PERFORMANCE</b>		
Resistance Measurement	EN 3475-301 R0 max = 5 mΩ for all sizes except size 5 = 6mΩ	Pass
Transfer Impedance	IEC 62153-4-3 Triaxial method Lt = 2 nH	Pass
Lightning	EN2591-214 Waveform 1 10KA	Pass

## Product Specifications

Commercial Part Number	Max. Wire Harness Size mm (in)	Recommended Application Range mm		Max Backshell Diameter mm	Standard Packaging m	Max. Spec. Weight (w/o PTFE layer) g/m	Max. Spec. Weight (w/ PTFE layer) g/m	Maximum Typical Weight g/m
		Min Ø	Max Ø					
ROUNDIT EMI C27 XWS B 5-8	5 (3/16")	1	5	8	200		59	50
ROUNDIT EMI C27 XWS B 8-8	8 (5/16")	5	8	11	150		66	64
ROUNDIT EMI C27 XWS B 13-8	13 (1/2")	8	13	16	125		77	67
ROUNDIT EMI C27 XWS B 16-8	16 (5/8")	13	16	19	75		82	81
ROUNDIT EMI C27 XWS B 19-8	19 (3/4")	16	19	23	75		96	95
ROUNDIT EMI C27 XWS B 25-8	25 (1")	19	25	32	75		122	104
ROUNDIT EMI C27 XWS B 32-8	32 (1 1/4")	25	32	42	50		160	144
ROUNDIT EMI C27 XWS B 38-8	38 (1 1/2")	32	38	51	35		187	148
ROUNDIT EMI C27 XWS B 45-8	45 (1 3/4")	38	45	60	35		205	186
ROUNDIT EMI C27 XWS A** 63-8	63 (2 1/2")	45	63		25	310		310
ROUNDIT EMI C27 XWS A** 88-8	89 (3 1/2")	63	89		25	400		400
ROUNDIT EMI C27 XWS A** 114-8	114 (4 1/2")	89	114		25	549		549
ROUNDIT EMI C27 XWS A** 165-8	165 (6 1/2")	114	165		25	766		766

A = Without internal PTFE layer B = With internal PTFE layer

\*\* Size obtained by assembling 2 strips of product or more.

## Commercial Part Number

Example:	Product Name	Size	Color	Quantity
	ROUNDIT EMI C27 XWS B	8	8 (light gray)	150 m

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