

## LIGHTWEIGHT, FLEXIBLE EMI/RFI tubular expandable braided shielding for EMC applications



material selection guide

Principal Selection Criteria	ARMORI IT	Weight Reduction and Temperature T	with Optimized olerance	<b>Amber</b> Strand® Weight Reduction			High Temperature plus Corrosion Resistance			
Braid Part	Seath Seath									
Number and Material	103-051	103-052	103-071	103-026	103-027	100-001	100-002	100-003	100-005	100-004
Construction	Microfilament ArmorLite™ 100% SS Nickel Plated	Microfilament ArmorLite™ 75% SS/25% NiCu	Microfilament ArmorLite™ 50% SS/50% NiCu	Microfilament AmberStrand® 100% Nickel Plated	Microfilament AmberStrand® 75% / 25% NiCu	Soft Drawn Tin Plated Copper	Soft Drawn Silver Plated Copper	Soft Drawn Nickel Plated Copper	Soft Drawn Tin Plated Copper-Clad Steel	Soft Drawn Stainless Steel
RoHS Materials	RoHS	RoHS	RoHS	RoHS	RoHS	RoHS	RoHS	RoHS	RoHS	RoHS
EMI Frequency Effectiveness Range	10 KHz to 1 GHz+	10 KHz to 1 GHz+	10 KHz to 1 GHz+	10 KHz to 1 GHz+	10 KHz to 1 GHz+	10 KHz to 1 GHz+	10 KHz to 1 GHz}+	10 KHz to 1 GHz+	Good (H Field) Poor (E Field)	Good (H Field) Poor (E Field)
Temperature Range	+260°C	+200°C	+200°C	+220°C	+200°C	+150°	+200°	+200°	+175°	+260°
Pull Strength*	150 Lbs. minimum	125 Lbs. minimum	125 Lbs. minimum	150 Lbs. minimum	125 Lbs. minimum	125 Lbs.	125 Lbs.	125 Lbs.	175 Lbs.	225 Lbs.
Corrosion Resistance Rating	500 Hours Salt Spray	500 Hours Salt Spray	500 Hours Salt Spray	500 Hours Salt Spray	500 Hours Salt Spray	48 Hours Salt Spray	48 Hours Salt Spray	500 Hours Salt Spray	96 Hours Salt Spray	1000 Hours Salt Spray
Abrasion Resistance	Good	Good	Good	Good	Good	Good	Fair	Good	Good	Very Good
Material Specification	ASTM A580	ASTM A580/ ASTM B355	ASTM A580/ ASTM B355	ZYLON AS	ZYLON AS ASTM B355	ASTM B33	ASTM B298	ASTM B355	ASTM B520	QQ-W-423/ ASTM A580

<sup>\*</sup> Values are based on .500 Dia. Braid



## INDUSTRY STANDARD - NON-METALLIC Bulk tubular expandable braid for wire harness protection

## Non-Metallic Shielding INDUSTRY-STANDARD · HIGH-TEMPERATURE

non-metallic braid selection guide

Principal Selection Criteria	General Duty / Abrasion Resistance					Economy		Temperature Tolerance		Fire Resistance	
Braid Part Number and Material	102-060	102-001 • 102-002	102-020 thru -023	103-013 • 103-080	102-080	102-073	102-072	102-051	102-040 thru -043, 103-062,103-106	100-022	102-071
Construction	Monofilament FEP	Monofilament PET Type FR	Monofilament Halar®	Yarn, Nomex®	Monofilament Ryton Type R-7	Yarn Dacron®	Yarn Nylon	Monofilament PEEK	Yarn Bonded and Unbonded, Nomex®	Yarn PTFE-Glass	Yarn, Kevlar®
Halogen-Free	NO	N. II.	NO				THE TOTAL PROPERTY OF THE PARTY	V.	N. III.	NO	
Temperature Range	-55°C to +200°C	-55°C to +125°C	-65°C to +150°C	-55°C to +200°C	-65°C to +180°C	-62°C to +125°C	-20° to +170°	-65°C to +260°C	-60°C to +240°C	-204°C to +482°C	-73°C to +160°C
Tensile Strength (PSI) Yield	3300	50,000	7000	90,000	19,000	10,000	12,400	13,000	90,000	450,000	400,000
Elongation Percentage	50%	20%	15%	25%	40%	12%	20%	38%	25%	5%	3.6%
Chemical Resistance	Excellent	Good	Excellent	Excellent	Excellent	Good	Excellent	Excellent	Excellent (Unbonded) Outstanding (Bonded)	Excellent	Excellent
Abrasion Resistance	Good	Good	Excellent	Good	Excellent	Fair	Excellent	Excellent	Good (Unbonded) Excellent (Bonded)	Excellent	Good
Weight / Duty (specific gravity)	Heavy (2.17)	Medium (1.38)	Medium (1.68)	Medium (1.58)	Light (1.25)	Medium (1.38)	Light (1.14)	Light (1.3)	Medium (1.58)	Heavy (2.5)	Medium (1.44)
Flammability	Very Low	Flammable Self-Extinguishing	Very Low	Will Not Melt	Very Low	Flammable	Flammable	Very Low	Will Not Melt , Self-Extinguishing	Will Not Burn	Will Not Melt

<sup>\*</sup> Values are based on .500 Dia. Braid. DuPont™ Nomex® and Kevlar® are trademarks or registered trademarks of E.I. duPont de Nemours and Company.

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