




LIGHTWEIGHT, FLEXIBLE
EMI/RFI tubular expandable braided
shielding for EMC applications
material selection guide



INDUSTRY STANDARD · METALLIC
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Principal Selection Criteria	ARMORLITE Weight Reduction with Optimized Strength and Temperature Tolerance			AmberStrand® Weight Reduction		General-Duty				High Temperature plus Corrosion Resistance
Braid Part Number and Material Construction	 103-051 Microfilament ArmorLite™ 100% SS Nickel Plated	 103-052 Microfilament ArmorLite™ 75% SS/25% NiCu	 103-071 Microfilament ArmorLite™ 50% SS/50% NiCu	 103-026 Microfilament AmberStrand® 100% Nickel Plated	 103-027 Microfilament AmberStrand® 75% / 25% NiCu	 100-001 Soft Drawn Tin Plated Copper	 100-002 Soft Drawn Silver Plated Copper	 100-003 Soft Drawn Nickel Plated Copper	 100-005 Soft Drawn Tin Plated Copper-Clad Steel	 100-004 Soft Drawn Stainless Steel
RoHS Materials										
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
Page Number	7	8	9	12	13	14	16	17	19	18

* Values are based on .500 Dia. Braid