






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



Principal Selection Criteria	ARMORLITE Weight Reduction with Optimized Strength and Temperature Tolerance			AmberStrand® Weight Reduction	
Braid Part Number and Material Construction	 <b>103-051</b> Microfilament ArmorLite™ 100% SS Nickel Plated	 <b>103-052</b> Microfilament ArmorLite™ 75% SS/25% NiCu	 <b>103-071</b> Microfilament ArmorLite™ 50% SS/50% NiCu	 <b>103-026</b> Microfilament AmberStrand® 100% Nickel Plated	 <b>103-027</b> Microfilament AmberStrand® 75% / 25% NiCu
RoHS-Compliance					
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+
Temperature Range	+260°C	+200°C	+200°C	+220°C	+200°C
Pull Strength*	150 Lbs. minimum	125 Lbs. minimum	125 Lbs. minimum	150 Lbs. minimum	125 Lbs. minimum
Corrosion Resistance Rating	500 Hours Salt Spray	500 Hours Salt Spray	500 Hours Salt Spray	500 Hours Salt Spray	500 Hours Salt Spray
Abrasion Resistance	Good	Good	Good	Good	Good
Material Specification	ASTM A580	ASTM A580/ ASTM B355	ASTM A580/ ASTM B355	ZYLON AS	ZYLON AS ASTM B355
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\* Values are based on .500 Dia. Braid

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General-Duty				High Temperature plus Corrosion Resistance
				
<b>100-001</b>	<b>100-002</b>	<b>100-003</b>	<b>100-005</b>	<b>100-004</b>
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
				
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)
+150°	+200°	+200°	+175°	+260°
125 Lbs.	125 Lbs.	125 Lbs.	175 Lbs.	225 Lbs.
48 Hours Salt Spray	48 Hours Salt Spray	500 Hours Salt Spray	96 Hours Salt Spray	1000 Hours Salt Spray
Good	Fair	Good	Good	Very Good
ASTM B33	ASTM B298	ASTM B355	ASTM B520	QQ-W-423/ ASTM A580
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