



Waterproof Heat Shrink Connectors

Description

These connectors have a polyolefin heat shrink tubing cover with an inner adhesive sealant. When heat is applied and the tubing shrinks, the adhesive flows creating a moisture and corrosion proof connection. 3:1 dual wall tubing with adhesive lining provides a waterproof seal with durable abrasion resistance and unequaled strain relief.

Physical Part Detail

Barrel Type	Seamless, 8 AWG is Brazed
Insulation	Polyolefin Heat Shrink
Material	Electro-Tin Plated Copper
Termination Interface Style	Crimp or Compression
Operating Temp	-40°F to 230°F (-40°C to 110°C)
Shrink Temperature	212°F (100°C)

Heat Shrink Detail

PROPERTY (UNITS)	TEST METHOD	REQUIREMENT
Physical: Tensile strength (psi) Elongation (%) Secant modulus (psi) Heat shock (250°C, 4 hrs.) Heat resistance (175°C, 168 hrs.) Longitudinal change (%)	ASTM D 638 ASTM D 638 ASTM D 882 AMS-DTL-23053 ---- AMS-DTL-23053	1500 min. 200 min. 25,000 min. no cracking no cracking (when bent over 11 mm diameter mandrel) -15% max.
Electrical: Dielectric strength (volts/mil) Volume resistivity (ohm-cm)	ASTM D 876 ASTM D 876	500 min. 1.0 X 10 ¹³ min.
Chemical: Copper mirror corrosion (175°C, 16 hrs.) Water absorption (%) Fluid resistance (23°C, 24 hrs.) Tensile strength (psi) Elongation (%) Shrink temperature, nominal	AMS-DTL-23053 ASTM D 570 AMS-DTL-23053 AMS-DTL-23053 -----	no corrosion 0.5 max. 1500 min. 200 min. 130°C

Size

DX PART NUMBER	WIRE RANGE	CONNECTOR LENGTH	TOTAL LENGTH	MAX WIRE INSULATION
HSP-B2218Q/F	22-18	.629	1.45	.170
HSP-B1614Q/F	16-14	.629	1.45	.190
HSP-B1210Q/F	12-10	.817	1.64	.240
HSP-B8Q/F	8	.770	1.80	.310