

SFMS

SENSORS AND FLUID MANAGEMENT SYSTEMS

AMETEK®

ENGINE COMPONENTS & ACCESSORIES

Electric Harness Assemblies

Overview

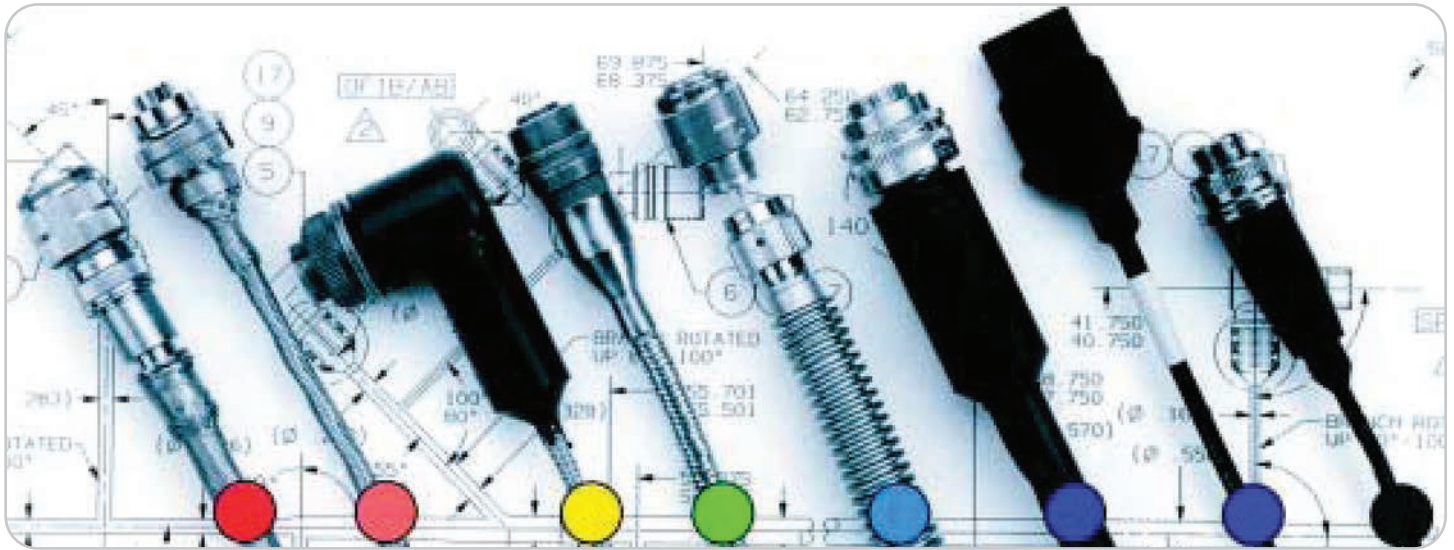
AMETEK Aerospace has manufactured electrical harness assemblies since the 1940's. Our assemblies can be found in submarines, aircraft, and space applications. We have the experience and capability to produce electrical harness assemblies for virtually any application, whether it is a missile ignition assembly, aircraft actuator assembly or simply a generic electrical harness for a land-based power generation gas turbine. Continuous improvement in technology enables us to improve the durability of our electrical harness assemblies in high performance applications in extreme environments. Highlights of our electrical harness assemblies are listed as the following.









Features

- *Superior Reliability*
- *Proven Construction for Continuous Operation*
 - Flexible...up to 900°F
 - Waterproof and Flexible - up to 500°F
- *Special Applications*
 - Thermocouple Harnesses
 - Low Triboelectric for Accelerometers
 - High Voltage Ignition Cables
 - Power Cables
 - Engine Control Cables
- *Any Type of Braiding Material (most common)*
 - Teflon
 - Nomex
 - Fiberglass
 - Stainless Steel
 - Nickel Plated Copper
 - Inconel
- *Excellent Shielding*
 - Low Noise
 - Abrasion Resistant
 - Above 90% Optical Braid Coverage
 - Above 100% with a Double Braid



Electric Harness Assemblies



PRODUCT	DESIGN	FEATURES	
 Soldered Shield Termination	<ul style="list-style-type: none"> - Braided Shield - Cylindrical Backshell - Epoxy Potting - Solder Braid-to-Backshell 	<ul style="list-style-type: none"> - EMI Protection - 360° Shield Protection - Moisture Resistance 	
 Ringed Shield Termination	<ul style="list-style-type: none"> - Braided Shield - Cylindrical Backshell - Epoxy Potting - Electrical Bonding Resistance <2 milliohms - Minimum Size and Weight 	<ul style="list-style-type: none"> - EMI Protection - 360° Shield Protection - Moisture Resistance 	
 Molded Elastomer Protection	<ul style="list-style-type: none"> - Braided Shield - Cylindrical Backshell - Electrical Bonding Resistance <2 milliohms - Elastomer Overmold 	<ul style="list-style-type: none"> - EMI Protection - 360° Shield Protection - Waterproof - Impact Resistance 	<ul style="list-style-type: none"> - Strain Relief - Identification Option - Color Option
 Metal Shell Protection	<ul style="list-style-type: none"> - Braided or Armor Shield - Metal Exterior Backshell - Epoxy Potting - Metal Cone Shield-to-Backshell 	<ul style="list-style-type: none"> - EMI Protection - 360° Shield Protection - Moisture Resistance 	<ul style="list-style-type: none"> - Impact Resistance - Strain Relief - Compact
 Repairable	<ul style="list-style-type: none"> - Braided Shield - Compressible Backwell 	<ul style="list-style-type: none"> - EMI Protection - 360° Shield Protection - Moisture Resistance - Simplified Repair, No Special Tooling 	
 NBC Materials - Molded	<ul style="list-style-type: none"> - Braided Shield - Cylindrical Backshell - Elastomer Coating - Elastomer Overmolding - Electrical Bonding Resistance <2 milliohms 	<ul style="list-style-type: none"> - EMI Protection - 360° Shield Termination - Strain Relief 	<ul style="list-style-type: none"> - NBC Compatible - Identification Option - Color - Black
 Polyurethane - Molded	<ul style="list-style-type: none"> - MIL-M-24041C - Braided Shield - Electrical Bonding Resistance <2 milliohms 	<ul style="list-style-type: none"> - EMI Protection - 360° Shield Termination - Moisture Resistance 	<ul style="list-style-type: none"> - Abrasion Resistance - Ozone Resistance - Identification Option
 Low Smoke Compounds, Molded	<ul style="list-style-type: none"> - MIL-C-24643 - Braided Shield - Cylindrical Backshell - Epoxy Potting - Electrical Bonding Resistance <2 milliohms - Transfer Molded 	<ul style="list-style-type: none"> - Zero Halogen - Compatible with Navy Low Smoke Cables - Identification Option 	<ul style="list-style-type: none"> - EMI Protection - 360° Shield Termination - Moisture Resistance



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