



**GENERAL RELIANCE
CORPORATION**

POLYURETHANE CABLE ASSEMBLIES

General Reliance specializes in the manufacture of custom molded & overmolded Polyurethane (PU) Cable Assemblies engineered to your highest standards. Our products are regularly engineered to withstand severe environmental conditions including extreme heat and cold, salt spray, water immersion, chemical and abrasion resistance, and electromagnetic and radio frequency interface. Our cables provide proven performance in the field and have been tested to excel in your harsh environments. Wherever possible our product is tested by utilizing ATP equipment.

Polyurethane (PU) cable assemblies are chosen where good resistance to weathering, aging and ozone is required. Polyurethane is also excellent for abrasion as the material has a high tensile strength. The main drawbacks of this material is its water/steam sensitivity and poor compression set properties at high temperatures. The material is also flammable. Combined with our expertise in molded cable assembly, choosing General Reliance as your vendor is the smart choice.

Common Mil-Spec Connectors Terminated

MIL-DTL-38999 Series I,II,III, IV	MIL-DTL-83723
MS 27468 MS 27469 MS 27470 MS 27473	
MS 27484 MS 27499 MS 27508 MS 27667	

Advantages of General Reliance's Unique Molded Construction Processes

- Water proof construction greatly improves moisture and corrosion resistance in the field.
- Superior strain relief provides excellent mechanical protection in harsh environments.
- Improved electrical insulation increases system reliability.
- Flex induced stress on connector contacts is eliminated.
- Molding and curing process prevents wire insulation cold flow that mechanical clamps induce in service over time.
- Molding process allows the cable configuration to enter the connector from any angle.

Why Choose General Reliance?

- Proprietary production processes yield more accurate and consistent results
- Ability to terminate any connector type available to your tightest specifications
- High volume manufacturing or low volume specialty production capabilities
- Custom cable designs available with in-house planetary cable layout, helical and contra-helical capability
- Design verification and qualification testing with quick-turnaround development
- Experience solving your field application problems



Advanced Quality

- ISO 9001:2008 and AS9100C:2009 certified production processes
- Certified to the requirements of Mil-I-45208A, MIL-Q-9858
- In-house temperature cycling and vibration testing
- High pressure testing in water, salt water and silicone oil
- All cable assemblies are subject to 100% inspections for electrical (continuity, resistance), mechanical, and visual quality.
- First Article testing to AS9102
- Full Production Documentation