



Wire Harness Assemblies & Services

Precision Manufacturing Company Inc.

Offering the following wiring harness assembly processes:

- Integration of multiple wire and cable types
- Custom configuration
- Speedy installation time
- Application of multiple interconnects
- 100% fit, form, and function validation
- In-line wire and cable marking
- Harness subassembly prefabrication
- Ultrasonic welding for in-line wire splicing
- Wide range of component options
- Reverse engineering
- Unlimited combinations

ISO 9001-2015



TYPES OF CABLE INSULATION

As suggested by the name, cable insulation refers to the insulation used for cables. It is generally made from thermoplastics, thermosets, or paper-based materials.

▲ Thermoplastic Insulation Materials

01

Thermoplastics are polymer materials that soften when heated and harden when cooled. They can be repeatedly softened and hardened by heating and cooling them without affecting their performance. This quality enables components made from them to be recycled into new parts and products. Typical thermoplastics used for cable insulation include PE and PVC.

▲ Thermosetting Insulation Materials

02

Unlike thermoplastics, thermosets can only be molded or cast once. Once cured, the material has undergone a chemical change that prevents it from being reshaped. Typical thermoset materials used for cable insulation include EPDM and cross-linked PE.

▲ Paper-Based Insulation Materials

03

Paper-based insulation is the oldest form of cable insulation. The paper material is impregnated with a dielectric fluid and, typically, layered with a lead sheath to prevent moisture ingress. It is still utilized for high-voltage cables.



Wire Harness & Cable Assembly



Electro-Mechanical Assembly

