

Teledyne Interconnect Solutions

Cables for Mining Operations



Over 65 years of experience in engineering high-performance custom cables and connectors for demanding environments, be it land, water, air, or space; and where reliability, durability, and compliance are critical.

Modern mining vehicles are equipped with a wide variety of sensors, cameras, proximity transducers, GPS antennas, and other devices. Teledyne Interconnect Solutions manufactures ruggedized, application-specific cable assemblies and harnesses designed for reliable connectivity in the harsh environments found in today's mining operations.

A Case Study

In 2010, Teledyne Interconnect Solutions collaborated with a major Canadian mining operator to develop a cost-effective solution to an ongoing cabling issue on their vehicle sensor system. The system consisted of individual camera, power, and sensor cables pulled through a PVC conduit, which was continually damaged and suffered water ingress, rendering the electronic systems inoperable. The life expectancy on these installations was as little as six months.

Teledyne Interconnect Solutions proposed a solution including a composite cable, with all of the power, signal, and video circuits combined inside an extremely tough, polyurethane – jacketed cable, manufactured into an end-to-end harness with appropriate break-outs and connectorization.

The installation time for the harnesses was reduced from 4 hours to just 30 minutes, and after 18 months in service, not a single one of the initial 12 systems had failed. In recognition of the improved reliability and lower installation and maintenance costs, the client then converted the worldwide fleet of mining vehicles to the sealed polyurethane harness.

Our business focus for demanding equipment applications includes:

- Production control
- Heavy construction equipment
- Vehicles
- Sensor



Additional Capabilities

Custom Cable

Retractable cords, Hazardous Location cables (Class 1 Division 2), Coiled Cables, multi-conductor composites

Termination & Assembly

Round circular Mil (Stainless steel, anodized, brass, aluminum, or plastic), rectangular, D-Sub, Copper fiber, Electro-mechanical, Coaxial, RJ-45, Firewire, USB

Solid Molded Cables

Injection or pour molding to protect and strengthen the connector body and interface. Full library of mold tool designs available.



Certifications & Standards:



TELEDYNE

Interconnect Solutions
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