

Teledyne Cable Solutions

Cables for Mining Operations

Teledyne Cable Solutions is a vertically-integrated engineering and manufacturing company specializing in ruggedized cable and cable assemblies.

Modern mining vehicles are equipped with a wide variety of sensors, cameras, proximity transducers, GPS antennas, and other devices. Teledyne Cable 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 Cable 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 a little as six months.

Teledyne Cable 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.



ADDITIONAL CAPABILITIES

CUSTOM CABLE

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

TERMINATION AND 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



Our business focus for mining operations includes:

- Vehicles
- Sensor
- Production control
- Heavy construction equipment

Certifications:

- IPC-A-620
- UL, CSA, ETL
- ISO 9001:2000



TELEDYNE CABLE SOLUTIONS
STORM CABLE • VARISYSTEMS

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