

# Hazardous Location Interconnect Systems

Interconnect packages rated for hazardous environments without the need to install in conduit or hard wire through a cabinet

Hazardous location cables provide an alternative to installing wiring in conduit, saving time and material costs. Conduit systems, although effective at keeping vapors and liquids from migrating through the cable system, are often labor-intensive to install and maintain. TCS hazardous location cables offer the same amount of protection from the elements as conduit systems with a simpler, less expensive installation process. Teledyne Cable Solutions has developed a range of North American agency-approved, cost-effective, qualified interconnect products rated for Class I, Division II (C1D2) and Class II, Division II (C2D2), ATEX (Zone 2 and Zone 22), and IECEx hazardous locations. The turn-key assembly includes aluminum alloy connectors (receptacle and plug) with pressure molded resilient insert, hazardous location rated cable, a ruggedized locking mechanism, and a dust cap with lanyard.

A selection of product sizes from 16AWG and larger is available for C1D2 & C2D2 and 16AWG-20AWG for Atex/IECEx in a wide range of pin counts.

The Teledyne hazardous location cables are constructed with Telethane®, a proprietary insulating jacket material targeted for applications where heat and oil resistance exceeds traditionally processed thermoplastics. Rubber-like flexibility at temperatures down to -40°C and heat-stabilized, and can be rated at 1000 hours at 175°C, this material replaces traditional cross-linked rubber at a significantly lower cost.

Teledyne Cable Solutions is a vertically-integrated engineering and manufacturing company specializing in application-specific, ruggedized cables and assemblies. Our processes enable you to meet the goals of your project without minimums and long lead times.



## APPLICATIONS

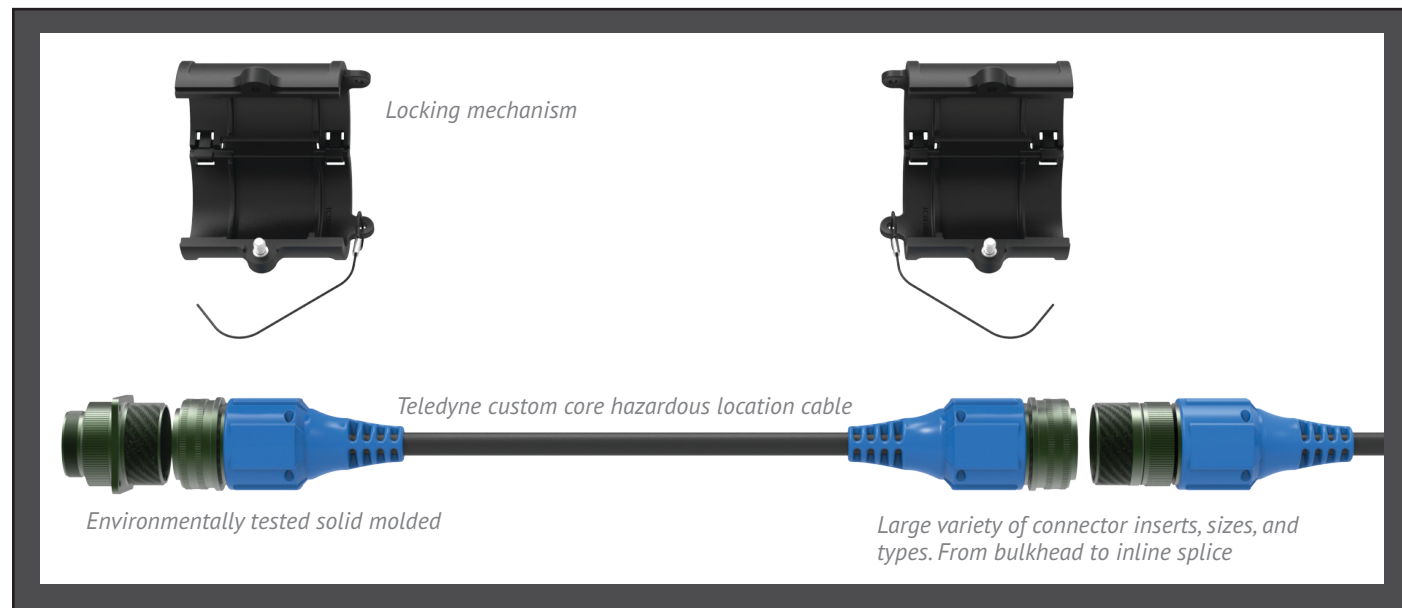
- Petroleum refineries
- Gasoline storage and dispensing areas
- Spray finishing areas
- Aircraft hangars and fuel servicing areas
- Utility gas plants
- Operations involving storage and handling of liquefied petroleum gas or natural gas
- Oil field tank farms



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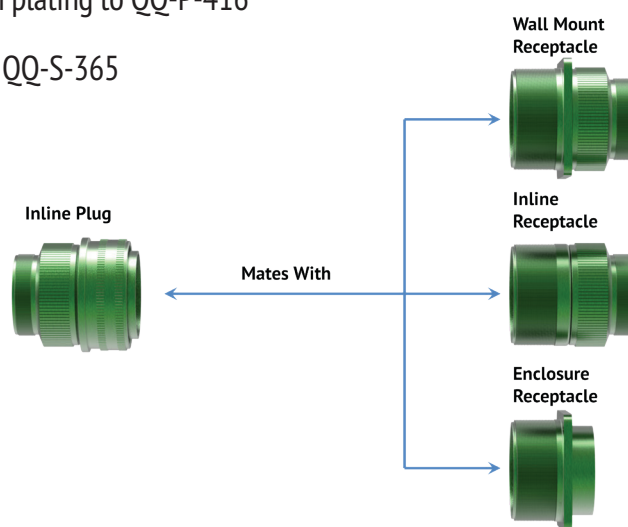
## MATERIALS AND FINISHES:

**Shell:** Aluminum alloy

**Plating:** Olive drab chromate coating over cadmium plating to QQ-P-416

**Contacts:** Brass or Copper alloy with silver plating to QQ-S-365

**Insulator:** Resilient Neoprene



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