

Deutsch Connectors

Technical Specifications

Deutsch Industrial takes great pride in designing and manufacturing superior environmentally sealed electrical connectors. Deutsch electrical connectors will stand up to the harsh environmental challenges that are common to industrial markets that require advanced performance. Deutsch can only warrant electrical performance when proper parts, procedures, and tooling are used.

Temperature

Operating at temperatures from -55°C to +125°C continuous at rated current.

Durability

No electrical or mechanical defects after 100 cycles of engagement and disengagement.

Vibration

No unlocking or unmating and exhibits no mechanical or physical damage after sinusoidal vibration levels of 20 G's at 10 to 2000 Hz in each of the three mutually perpendicular planes. No electrical discontinuities longer than 1 microsecond.

Physical Shock

No unlocking, unmating, or other unsatisfactory result during or after 50 G's in each of three mutually perpendicular planes. No electrical discontinuities longer than 1 microsecond. MIL-STD 202, Method 213, Condition "C".

Fluid Resistance

Connectors show no damage when exposed to most fluids used in industrial applications.

Insulation Resistance

1000 megohms minimum at 25°C.

Moisture Resistance

Properly wired and mated connections will withstand immersion under three feet of water without loss of electronic qualities or leakage.

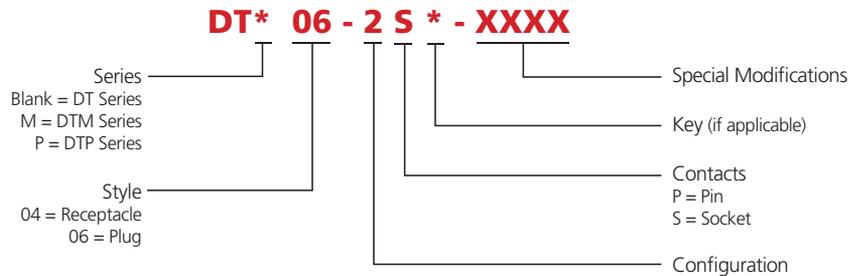
Dielectric Withstanding Voltage

Current leakage less than 2 milliamps at 1500 VAC.

Thermal Cycle

No cracking, chipping or leaking after 20 test cycles from -55°C to +125°C.

DT Family Product Code



Connector Overview

All Deutsch connectors are designed for harsh environments where dust, dirt, moisture, and vibration can damage electrical connections. Deutsch Industrial offers a comprehensive product line that features connector options to meet a myriad of design requirements. Cavity arrangements are available from 1 to 128 cavities, and wire gauges from 26 AWG up to 3/0 AWG. Deutsch connectors offer different shapes, latching mechanisms, mounting styles, and materials to meet diverse application requirements and all Deutsch product lines offer accessories to further expand the series flexibility.

DT Family Connector Configurations

