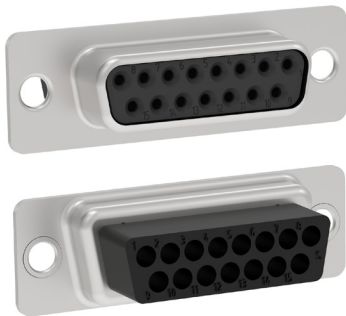


FCT Standard D-Sub Connectors >

FCT Standard D-Sub Connectors provide a durable and reliable connectivity solution suited to a broad range of signal and power applications across various industries. Waterproof, filtered and nonmagnetic versions enable use with imaging systems, test equipment and high-performance systems subject to harsh conditions.



ADVANTAGES AND FEATURES



Number of Circuits	9, 15, 25, 37 or 50 poles
Available Features	Waterproof (IP67), filtered, nonmagnetic
Current	Up to 7.5A
Contact Designs	Crimp, straight or right-angle PCB; solder pot, wire wrap or insulation displacement contacts
Mating Cycles	Up to 500 (G1) or 200 (G2) cycles
Operating Temperatures	-55 to +130°C

Minimizes design constraints

Machined contacts provide superior current-carrying capacity up to 7.5A, with various contact types and plating options available to meet application-specific requirements.

Avoids interference with imaging and test equipment

Nonmagnetic versions are 100% tested for relative permeability of 1.0025 and designed for use with medical-imaging devices, testing/validation equipment and high-performance systems.

Reduces field failures and the total cost of ownership

The robust construction offers high mating-cycle counts and increased strength compared with stamped-contact alternatives, minimizing rework and extending the product life cycle.

Accelerates time to market

Flexible off-the-shelf and custom designs with robust machined contacts enable shorter development cycles and help reduce costs.

Simplifies system design

Designers can meet diverse needs via a single connector system with a variety of available mounting options such as snap-in, panel-mount, float-mount and blind-mate versions along with matching hardware.

FCT Standard D-Sub Connectors >

MARKETS AND APPLICATIONS

Aerospace and Defense

Ground vehicles
In-flight entertainment systems

Industrial Automation

Industrial automation equipment
Renewable energy systems
Test and measurement equipment

Medical

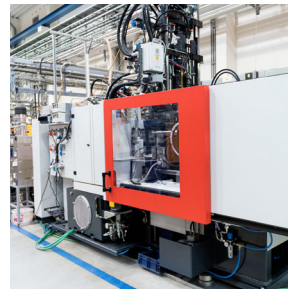
Medical equipment
Patient-monitoring devices

Transportation

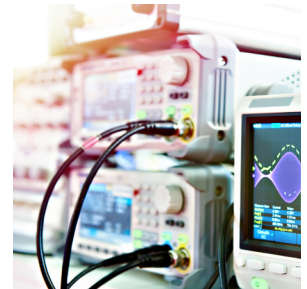
Rail transportation equipment



Rail Transportation Equipment



Industrial Automation Equipment



Test and Measurement Equipment

SPECIFICATIONS

Reference Information

Packaging: Box
Designed in: Millimeters
RoHS: Yes, per European directive
Sealing: IP67 available

Electrical

Test Voltage (max.): 1,200V @ 1 minute
Current (max.): 7.5A
Contact Resistance (max.):
Straight contacts—10 milliohms
Right-angle contacts—25 milliohms
Right-angle contacts (50 circuits)—35 milliohms
Insulation Resistance Between Contacts (min.):
5,000 Megohms
Relative Permeability (Nonmagnetic Versions):
 $\mu_r \leq 1.0025$

Mechanical

Number of Circuits: 9, 15, 25, 37 or 50 poles
Contact Design: Crimp, straight or right-angle PCB,
solder pot, wire wrap
Mating Force per Signal Contact (max.): 3.4N
Unmating Force per Signal Contact (min.): 0.2N
Torque (max.): 40Ncm (not for locking screws)
Durability (max.): 500 (G1) or 200 (G2) mating cycles

Physical

Contact: Copper alloy
Contact Plating: Gold over nickel
Insulation:
White—polyester, glass fiber filled (high
temperature resistance on request)
Natural—polyester, heat resistant, glass filled
Green—polyester, glass fiber filled
Waterproofing Element: Silicone
Operating Temperatures: -55 to +130°C