

Standard-Density D-Sub Connectors With Machined Contacts

molex

Molex Standard-Density D-Sub Connectors with Precision-Machined Contacts deliver a high-current rating up to 7.5A per pin and offer configurations that fit common panel cutouts and footprints

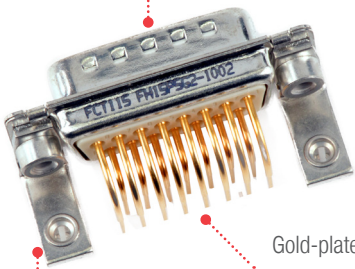


RoHS compliant by exemption Meets European Union regulations for banned materials hazardous to the environment

Features and Advantages

Many different combinations of materials and thicknesses of gold plating

Shell Options: Steel, brass and stainless steel



Gold-plated contacts

Snap-in board locks for easy and secure assembly prior to soldering



Machined contacts

Superior current-carrying capacity. Offers contact variety and plating options. High mating cycles and increased strength over stamped contacts

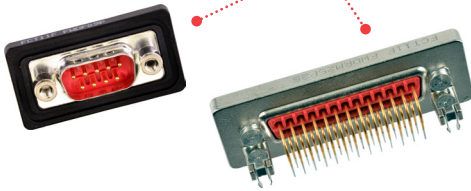
Dual-port

Many configurations available
Plug and Socket for top or bottom.
Various installation heights



Waterproof IP67 available

Zinc die-cast frames are watertight and rust resistant, providing mechanical strength, shielding



Silicone gasket

Front and rear panel mount available



Non-magnetic available

Non-ferrous materials.
No nickel underplating
permeability $\mu_r \leq 1.0025$. 100% tested for permeability



(product enlarged)

Applications

Commercial Aerospace

Aircraft cabins

Medical Equipment

MRI
Patient monitoring

Scientific

Test equipment
Measurement control devices

Defense

Security
Surveillance



MRI



Patient Monitoring



Scientific Test Equipment

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Specifications

REFERENCE INFORMATION

Packaging: Connectors- Carton
 Contacts- Bag
 Based On: IEC 60807-3 / DIN 41652
 MIL-DTL-24308
 Terminal Used: Crimp Only (Series 173113-0xxx)
 RoHS: Yes by exemption
 Halogen Free: No
 Glow Wire Compliant: No

ELECTRICAL

Test Voltage (max.): 1200V/1 minute
 Current (max.): 7.5A
 Contact Resistance:
 Straight contacts \leq 10 milliohms
 Right-angled contacts \leq 25 milliohms
 Right-angled contacts 50 way \leq 35 milliohms
 Dielectric Withstanding Voltage: 1000V DC
 Insulation Resistance: \geq 5000 Megohms

PHYSICAL

Insulator: Polyester, glass fiber filled,
 F series- White; FL series- Black
 Shell: Steel
 Shell Plating: Tin over nickel,
 pin connector shell with dimples
 Contact: Copper Alloy
 Operating Temperatures:
 Standard: -55°C (-67°F) to +130°C (266°F)

MECHANICAL

Mating Force per Signal Contact: \leq 3.4N
 Unmating Force per Signal Contact: \geq 0.2N
 Torque (max.): 40 Ncm

Ordering Information

Series No.	Engineering No.	Component	Orientation/Termination	No. of Contacts
1727040009	FL09P7-K120	Plug	Crimp	9
1727040001	FL15P7-K120	Plug	Crimp	15
1727040003	FL25P7-K120	Plug	Crimp	25
1727040005	FL37P7-K120	Plug	Crimp	37
1727040007	FL50P7-K120	Plug	Crimp	50
1727040010	FL09S7-K121	Socket	Crimp	9
1727040002	FL15S7-K121	Socket	Crimp	15
1727040004	FL25S7-K121	Socket	Crimp	25
1727040006	FL37S7-K121	Socket	Crimp	37
1727040008	FL50S7-K121	Socket	Crimp	50

Series No.	Engineering No.	Component	Plating
1731120200	FK20P-02V-5783	Pin	0.2 μ m Au (over Ni)
1731120201	FK20P-08V-5783	Pin	0.8 μ m Au (over Ni)
1731120202	FK20P-13V-5783	Pin	1.3 μ m Au (over Ni)
1731120214	FK20SL-02V-5783	Socket	0.2 μ m Au (over Ni)
1731120215	FK20SL-08V-5783	Socket	0.8 μ m Au (over Ni)
1731120216	FK20SL-13V-5783	Socket	1.3 μ m Au (over Ni)

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Series No.	Engineering No.	Component	Orientation/Termination	No. of Contacts
1731090075	F09P1G1-0982	Plug	Straight PCB	9
1731090141	F15P1G1-0982	Plug	Straight PCB	15
1731090076	F25P1G1-0982	Plug	Straight PCB	25
1731090142	F37P1G1-0982	Plug	Straight PCB	37
1731090077	F50P1G1-0982	Plug	Straight PCB	50
1731090074	F09S1G1-0982	Socket	Straight PCB	9
1731090078	F15S1G1-0982	Socket	Straight PCB	15
1731090143	F25S1G1-0982	Socket	Straight PCB	25
1731090144	F37S1G1-0982	Socket	Straight PCB	37
1731090145	F50S1G1-0982	Socket	Straight PCB	50
1727040075	F09P0G1	Plug	Solder Pot	9
1727040063	F15P0G1	Plug	Solder Pot	15
1727040067	F25P0G1	Plug	Solder Pot	25
1731090070	F37P0G1	Plug	Solder Pot	37
1731090072	F50P0G1	Plug	Solder Pot	50
1727040078	F09S0G1	Socket	Solder Pot	9
1731090069	F15S0G1	Socket	Solder Pot	15
1727040070	F25S0G1	Socket	Solder Pot	25
1731090071	F37S0G1	Socket	Solder Pot	37
1731090073	F50S0G1	Socket	Solder Pot	50
1731090166	F09P5G1-1002	Plug	Right Angle with Metal Bracket	9
1731090167	F15P5G1-1002	Plug	Right Angle with Metal Bracket	15
1731091068	F25P5G1-1002	Plug	Right Angle with Metal Bracket	25
1731090169	F37P5G1-1002	Plug	Right Angle with Metal Bracket	37
1731090170	F50P5G1-1982	Plug	Right Angle with Metal Bracket	50
1731090171	F09S5G1-1002	Socket	Right Angle with Metal Bracket	9
1731090172	F15S5G1-1002	Socket	Right Angle with Metal Bracket	15
1731090173	F25S5G1-1002	Socket	Right Angle with Metal Bracket	25
1731090174	F37S5G1-1002	Socket	Right Angle with Metal Bracket	37
1731090175	F50S5G1-1982	Socket	Right Angle with Metal Bracket	50

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