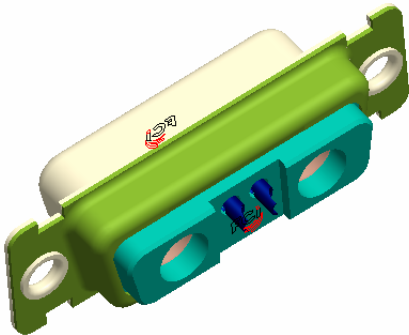
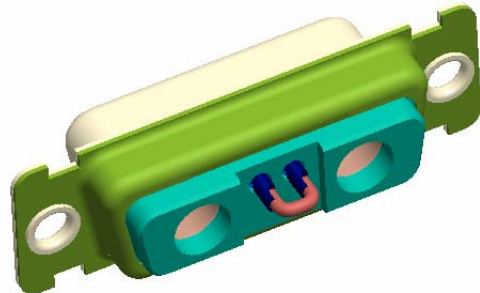


FCI CDC	Type PRODUCT SPECIFICATION	GS-12-407	
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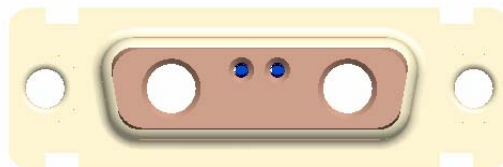
48V-FEMALE CABLE CONNECTOR



Without Jumper Option



With Shunt Option



Connector mating side view.

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1. Scope

This Product specification covers the requirements of a **Micro-TCA Telecom Customers & FCI D-SUB** requirements.

2. Applicable documents

Refer GS-12-406 (Product specification of PCB MALE CONNECTOR)

3. Product description

3.1 General

PRODUCT LEAD FREE IN ACCORDANCE TO RoHS 2002/EC/95

UL 94 V0 :E118235(R)

This connector is will be on cable side & connected to Male connector mounted on the PCB 48V/24A type.

The connector is with 2 solder Signal contacts & Power contacts will assembled by the customer with cable. Connector is also available with cost saving Jumper option for signal contacts.

3.2 Design and construction

The connector shall be of design, construction and physical dimensions as specified on the applicable product customer drawings :

Customer Drawings :

1) 48V CABLE CONNECTOR :- 10070165

ORDERING INFORMATION

10070 XXX XXX XX X LF

160-24V
165-48V

A-No accessory

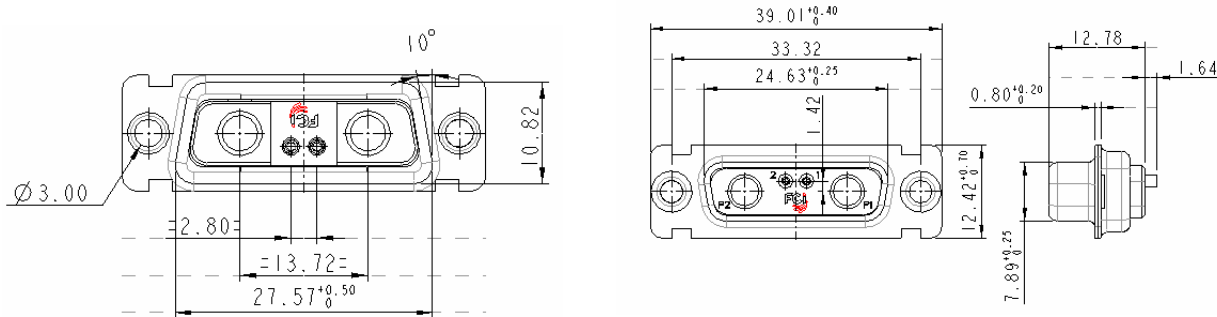
001-Without Jumper
002-With Jumper

19-Card Box Packing

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48V FEMALE CABLE CONNECTOR

General mating Dimensions



See Customer drawing for more details:-

3.3 Materials and plating

3.3.1 Housing dielectric material

Plastic raw material: PBT 33% GF, UL94 V-O rating
Black color

3.3.2 Terminal material

Signal Contacts :- **Brass**

3.3.3 Terminal Plating

Signal contact : Au

3.3.4 Shell material

Steel

3.3.5 Shell Plating

Nickel

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4. Characteristics & Test schedule

4.1 Characteristics

4.1.1 Environmental Characteristics

- Operating Temperature : 70°; + 30° temperature rise.
- Temperature Range : -50°C to 125 °C
- Self Existing capacity of plastics : UL V0
- Damp Heat Steady state : 21 days
- Salt Spray : 48 hours
- Resistance to atmospheric corrosion: Std Requirement for telecom

4.1.2 Electrical Characteristics

- Max. Current rating / contact (IEC 60512-5-2) : 0.375A (Signal contact)
- Creepage clearance (IEC-60 664-1) : Between all cts and shells 1.5 except between Signal cts: 0.4.
- Insulation voltage (IEC-60512-4-1) : 1000 Vrms
- Contact Resistance (IEC-60512-2-1) : ≤25 milli Ohms (Power)
- Insulation Resistance (IEC-60512-3-1) : 5000 MΩ initial / 500 MΩ after tests (under 1000 V)
- Hot swap : Yes , but with signal contacts monitoring (first break/last mate)
- Engagement under electrical load : 200 cycles -5V at 0.2A
- Connector Contact Touch Safe : The Electrical contacts on the connector shall be Touch safe
With the test finger specified in IEC60950-1

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4.1.3 Mechanical Characteristics

- Mechanical operation : 200 mating cycles (Speed -10mm/sec max.)
- Engaging & Separating forces : Maximum Engaging force -100N
: Maximum Separating force -65N
- Vibration : 10-500 Hz 50 m/s² 3 x8 x 3 axis 1 μs monitoring
- Shock : 300 m/s² 11 ms 1 μs monitoring
- Retention Force of connector : The retention mechanism of the Power Module Input Connector mating interface shall be withstand to 100 N at a 1-minute duration of straight cable pulling force without any permanent distortion or damage that would impair normal operation of the Connector.

4.2 Test Schedule

For Test schedule & specimen arrangements , refer GS-12-406 (Product specification of Micro TCA PCB Male power connector)

6. Packaging

Packing According to GS-14-1104 . The traceability of all parts must be guaranteed by date code on each product.

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7.Revision record

Rev.	Page	Description	ECN	YY/MM/DD
A	All	Released	I07-0006	2007/01/10

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