M300 Connectors Specifications

Materials

Housings: Glass Filled Thermoplastic UL94V-0

Female contacts: Beryllium Copper Contact Clip,

Brass Shell

Male contacts: Brass Contact finish Gold Male contacts: Brass

lackscrew hardware: Stainless Steel

: Mechanical

Durability: 1000 operations

Mating forces (per contact pair)

Insertion force: 9N max Withdrawal force: 1N min

Contact retention in housing

Cable contact: 15N min PC-Tail contact: 5N min

Signal crimp accommodation: 18 AWG to 22 AWG

BS 3G 210 Type A, MIL-16878E Type E

⇒ Electrical

Current

All contacts simultaneously

with 18 AWG wire:

All contacts simultaneously

with 22 AWG wire:

Working voltage (at sea level, 913/1050mb):

(at altitude 21,336m/

70,000ft, 44mb):

Voltage proof (at sea level, 913/1050mb):

(at altitude 21,336m/

70,000ft, 44mb):

Contact resistance:

10A max (30°C temp. rise)

5A max (30°C temp. rise)

600V min DC or AC peak

150V min DC or AC peak

1800V max DC or AC peak

450V max DC or AC peak

6mΩ max

Insulation resistance: 100M0 min at 100V DC

Environmental

Environmental Classification: 65/175/56 days at 90%RH

Operating temperature: -65°C to +175°C

Vibration sensitivity: 10Hz to 2000Hz, 1.52mm, 196.1m/s²

(20G), 12 hours

390m/s² (40G), 4000 bumps Bump severity:

Shock severity: 981m/s² (100G), 6ms

Acceleration severity: 490m/s² (50G)

