

ELECTRICAL

Matching Impedance: 75 ohm unbalanced coaxial to 120 ohm balanced twisted pair
 Bit Rates: 2Mbit/s, 8Mbit/s and 34Mbit/s as ITU-T Recommendation G.703 Line Code
 Return Loss: 2Mbit/s, 8Mbit/s and 34Mbit/s as per G.703 requirements
 Insertion Loss: <0.9dB from 51kHz to 51.55MHz
 Cross Talk: >60dB from 51kHz to 51.55MHz between 2 baluns mounted 15mm apart
 Pulse Shape: 2Mbit/s, 8Mbit/s and 34Mbit/s as per G.703
 Signal Levels: 2.37V nominal peak voltage for 2Mbit/s and 8Mbit/s at the coaxial end
 1V nominal peak voltage for 34Mbit/s at the coaxial end as per G.703
 Isolation Voltage: 250VDC for 1 minute between windings
 Pulse Test: 3kV as per ITU-T, K.17
 EMC: CISPR 22 Class A for radiated emissions
 AS/NZS 3548 1995

MATERIALS

Coax Connector Outer Contact: Brass. Finish Cu/Ni/Au
 Coax Connector Body: Brass. Finish Cu/Ni
 Coax Connector Insulator: PTFE
 Coax Connector Inner Contact: CuBe. Finish Cu/Ni/Au
 Balun Body & Rear Tube: Brass Alloy AS 1567 Type 385. Finish Cu/Ni5b
 Grounding Ring: Brass Alloy AS 1567 Type 385. Finish Cu/Ni/Sn
 IDC Contacts: CuSn6. Finish Sn5 -(φ0.25~φ0.40 conductors)
 Sn5/Au -(φ0.50~φ0.65 conductors)
 IDC Moulding & Stuffer Cap: Liquid Crystal Polymer

COAXIAL CONNECTOR (75 ohm)

Type 1.6/5.6 Series: IEC 169-13

TWISTED PAIR CABLE DETAILS

| Part Number | Cable Wire Size | Cable Entry Diameter |
|---------------|---|----------------------|
| B04 003 060 * | 0.5mm (AWG 24) to 0.65mm (AWG 22) conductor diameter, STP or UTP Insulation diameter from 0.7mm to 1.5mm. | 4.9mm Min. ** |
| B04 003 065 * | 0.25mm (AWG 30) to 0.4mm (AWG 26) conductor diameter, STP or UTP Insulation diameter from 0.7mm to 1.5mm | 2.6mm Min. ** |

* The correct selection of the balun to match the cable conductor size is imperative to the reliability of the product.

** Custom cable size available upon request.

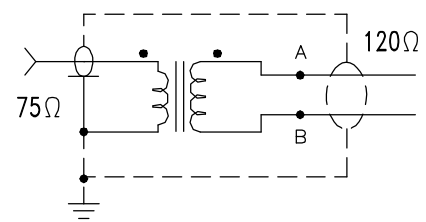
Mating Cycles: 20

ENVIRONMENTAL

Working Temperature: -10 °C to 75 °C

TERMINATION

IDC Termination: Spanners 10mm A/F 2 off



SCHMATIC DIAGRAM