

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 B for radiated emissions

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: Brass. Finish Cu/Ni/Au
 Balun Body & Rear Tube: Brass Alloy AS 1567 Type 385. Finish Cu/Ni5b
 Grounding Rings: 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 43 Series: To BS 9210 F0022.

TWISTED PAIR CABLE DETAILS

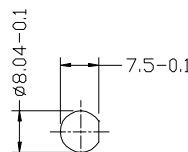
Part Number	Cable Wire Size	Cable Entry Diameter
B04 045 060 *	0.5mm (AWG 24) to 0.65mm (AWG 22) conductor diameter, STP or UTP Insulation diameter from 0.7mm to 1.5mm.	4.9mm Min. **
B04 045 065 *	0.25mm (AWG 30) to 0.4mm (AWG 26) conductor diameter, STP or UTP Insulation diameter from 0.7mm to 1.5mm	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.

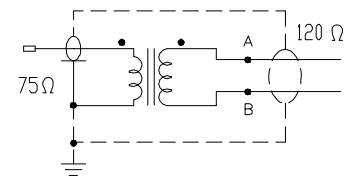
Mating Cycles: 20

ENVIRONMENTAL

Working Temperature: -10 °C to 75 °C



PANEL MOUNTING DIMENSIONS
 SCALE 1:1



SCHEMATIC DIAGRAM

TERMINATION

IDC Termination: Spanners 10mm A/F 2 off