

CABLE ENTRY  $\phi$ 4.9 MIN.

**ELECTRICAL**

Matching Impedance: 75 ohm unbalanced coaxial to 120 ohm balanced twisted pair.  
 Bit Rates: 2Mbit/s and 8Mbit/s as ITU-T Recommendation G.703 Line Code.  
 Return Loss: 2Mbit/s exceeds G.703 requirements (>25dB @ 51 ~ 3072kHz)  
 8Mbit/s as per G.703 requirements.  
 Insertion Loss: <0.16dB for 2 Mbit/s service (51 ~ 3072kHz)  
 <0.3dB for 8Mbit/s service (211kHz ~ 12.672MHz)  
 Cross Talk: >80dB from 51kHz to 12.672MHz between 2 baluns mounted 20mm apart.  
 Pulse Shape: 2Mbit/s and 8Mbit/s as per G.703  
 Isolation Voltage: 250V DC for 1 minute between windings.  
 Signal Levels: 2.37V nominal peak voltage for 2Mbit/s and 8Mbit/s at the coaxial end as per G.703  
 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 -( $\phi$ 0.25~ $\phi$ 0.40 conductors)  
 Sn5/Au -( $\phi$ 0.50~ $\phi$ 0.65 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 046 060 *	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 046 065 *	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.

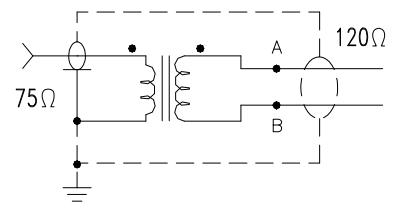
Mating Cycles: 20

**ENVIRONMENTAL**

Working Temperature: -30 °C to 75 °C

**TERMINATION**

IDC Termination: Spanners 10mm A/F 2 off



SCHEMATIC DIAGRAM