

**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  
 EMC: CISPR 22 Class A for radiated emissions  
 AS/NZS 3548 1995

**MATERIALS**

Coax Connector Outer Contact: CuBe 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 Ring: Brass Alloy AS 1567 Type 385. Finish Cu/Ni/Sn  
 IDC Contacts: CuSn6. Finish Sn5 -(Ø0.25~Ø0.40 conductors)  
 Sn5/Au -(Ø0.50~Ø0.65 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
B13 002 060	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.
B13 002 065	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.

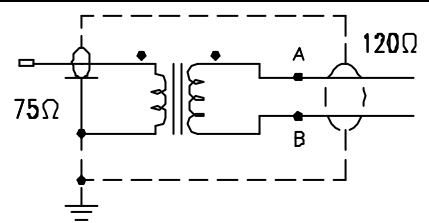
Mating Cycles: 20

**ENVIRONMENTAL**

Working Temperature: -30 °C to 75 °C

**TERMINATION**

IDC Termination: Spanners 10mm A/F 2 off



SCHEMATIC DIAGRAM