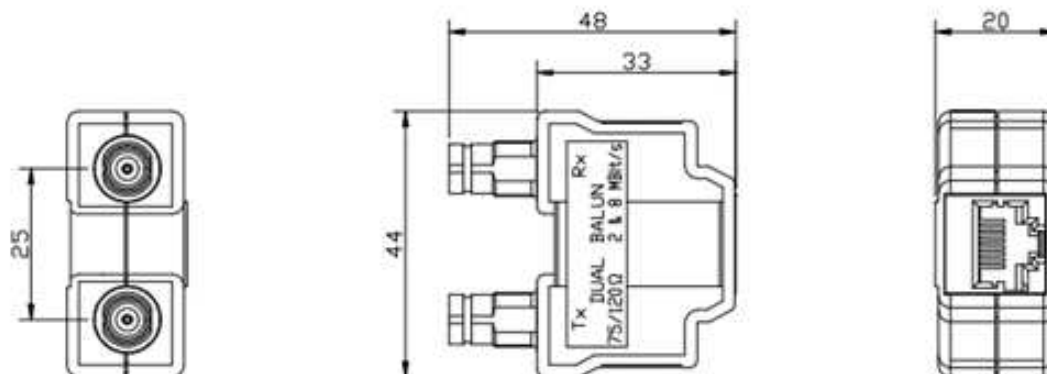


Dual Balun, 75/120Ω, 2-8Mbit/s, E1 & E2, Shielded 1.6/5.6 (f) to RJ45 (f)



PRODUCT DESCRIPTION

This Dual Balun converts a G.703 E1 or E2 Tx and Rx pair from unbalanced 75Ω coaxial to balanced 120Ω twisted pair transmissions. A bi-directional device requiring no external power, it allows the user to connect telecommunications equipment with mismatched interfaces or convert to twisted pair distribution wiring.

- coax to twisted pair conversion
- exceeds G.703 requirements
- > 33dB return loss 0.3 to 3MHz
- shielded construction
- 1.6/5.6(f) connector to IEC 169-13
- 75Ω to 120Ω impedances
- < 0.15dB E1 insertion loss
- > 1.25μm of gold plating on pin
- small size
- 2 and 8Mbit/s data rates
- > 70dB cross talk
- teflon coaxial insulators

OPERATING CONDITIONS

Matching Impedance:	75 ohm unbalanced coaxial to 120 ohm balanced twisted pair
Bit Rate:	2Mbit/s (E1) and 8Mbit/s (E2) per ITU-T G.703 Line Code
Signal Level:	2.37V nominal peak voltage at the coaxial end per G.703
Working Temperature:	-30°C to 75°C

ELECTRICAL SPECIFICATIONS

Insertion Loss:	< 0.15dB from 51kHz to 3.072MHz (2Mbit/s, E1) and < 0.20dB from 211kHz to 12.673MHz (8Mbit/s, E2) in both directions
Return Loss:	Exceeds G.703 requirements by > 13dB for 2Mbit/s and > 8dB for 8Mbit/s
Pulse Shape:	Exceeds G.703 requirements for 2Mbit/s and 8Mbit/s
Cross Talk:	> 70dB from 51kHz to 12.673MHz between channels
Isolation Voltage:	< 250V DC

MECHANICAL SPECIFICATIONS

Coaxial Connector:	1.6/5.6 female to IEC 169-13 Body: Brass, Plated Cu/Ni5/Au0.8 Pin: Beryllium Copper, Plated Cu/Ni5/Au1.25 Insulator: Teflon Mating Cycles: 500min
RJ45 Connector:	Contacts: Phosphor Bronze, Plated Ni/Au Moulding: PBT Glass Filled, Black Shield: Brass, Plated Sn
Mouldings:	ABS-PC, Black

ACCESSORIES

Mounting Frames:	For 19", 21" and 23" racks
Brackets:	For vertical and horizontal surface mounting

