

**PRODUCT DESCRIPTION**

This rack mounting Balun Panel converts 24 G.703 E1 or E2 transmissions from unbalanced 75Ω coaxial to balanced 120Ω twisted pair. A bi-directional device requiring no external power, it connects telecommunications equipment with mismatched interfaces or facilitates the conversion from coaxial to twisted pair distribution wiring. In addition this product offers the following features:-

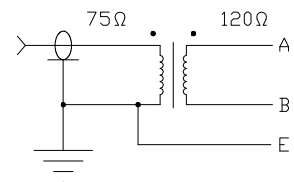
- coax to twisted pair conversion
- exceeds G.703 requirements
- >33dB return loss 0.3 to 3MHz
- shielded construction
- Krone style IDC
- BNC(f) connector to IEC 169-8
- 75Ω to 120Ω impedances
- <0.16dB E1 insertion loss
- gold plated pin
- long life & high reliability
- 2 and 8Mbit/s data rates
- RoHS compliant
- >80dB cross talk
- teflon coaxial insulators
- uses AC&E B13019010 balun

**OPERATING CONDITIONS**

Matching Impedance: 75ohm unbalanced coaxial to 120ohm 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: <0.16dB from 51kHz to 3.072MHz (E1) and <0.3dB from 211kHz to 12.672MHz (E2) in both directions  
 Return Loss: 2Mbit/s exceeds G.703 requirements (>25dB from 51kHz to 3.072MHz) 8Mbit/s as per G.703 requirements  
 Pulse Shape: Exceeds G.703 requirements for 2Mbit/s and 8Mbit/s  
 Cross Talk: >80dB from 51kHz to 12.672MHz  
 Isolation Voltage: Coax to Twisted Pair >250V DC



**MECHANICAL SPECIFICATIONS**

Coaxial Connector: BNC female to IEC 169-8  
 Body: Brass, Plated Nickel  
 Pin: Phosphor Bronze, Plated Gold  
 Insulator: Teflon  
 Mating Cycles: 500min  
 IDC Connector: Wire: Conductor Ø0.4 to 0.65mm, Insulation Ø0.7 to 1.4mm  
 Contacts: Tin Plated  
 Moulding: Thermoplastic White  
 Mating Cycles: 50min  
 Mouldings: Noryl Black  
 Panel: Steel, Zinc Sealed and Powder Coated Black

**TERMINATION**

IDC: Krone Connection Tool 6089 2 003-00 or 6417 1 810-02