

## PRODUCT DESCRIPTION

This rack mounting Balun Panel converts 20 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:-

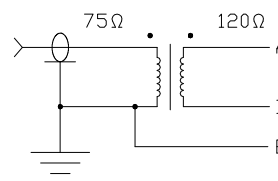
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|-----------------------------------|---------------------------------|-----------------------------|
| • coax to twisted pair conversion | • BNC(f) connector to IEC 169-8 | • 2 and 8Mbit/s data rates  |
| • exceeds G.703 requirements      | • 75Ω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