

1U High, 96 Port (48 E1) Balun Panel



Description

Designed to meet or exceed CCITT G.703 Specifications for bi-directional signal conversion, at data rates from 2.048Mbps to 8.448Mbps. Provides 75 ohm (coax) to 120 ohm (twisted pair) impedance matching for up to 48 E1 Circuits. Coaxial connectors can be specified as 1.0/2.3 or HDC43 (BT), the twisted pair connectors are shielded RJ45 / RJ48C.



This high density Balun Panel only occupies 1 unit of rack space in a standard 19" rack, the most space efficient panel available. The front Tufnol Panel isolates the coaxial connectors, internal jumpers control the grounding options, unless otherwise specified units are supplied with Tx Ring grounded direct to the shield of the RJ45 connectors, Rx Ring is grounded to Pins 7 & 8 and the RJ45 shield via a 0.1uF capacitor. Please advise when ordering if you require a different grounding scheme.

Wiring Schematic

Features and Benefits

- Resolves the 75/120 ohm impedance mis-match between twisted pair equipment and coax cabling schemes.
- A cost effective, space efficient, robust, reliable and proven method of impedance matching 75 ohm coax to 120 ohm twisted pair.
- Industry standard HDC43 (BT), 1.6/5.6 and RJ45 / RJ48 Connectors allow convenient and flexible cabling.
- The high density design converts up to 48 x E1 Circuits in only one 19" Rack Unit (1.75" 44mm).
- Designed for E1/T1 applications
- CCITT G.703 Compliant
- No Power Required
- 5 Year Parts and Labour Warranty
- Complete with all necessary rack mount accessories

Specifications

75 ohm Connections	96 x 1.0/2.3 or HDC43 (BT)
120 ohm Connections	48 x Shielded RJ45 / RJ48C
Transmission Line	CCITT G.703 or G.704 (transparent)
Speed	2.048Mbit/s (E1) and 8.448Mbit/s (E2)
Cross Talk	Better than -50dB at 1 to 10Mhz
Insertion Loss	Less than 0.35dB
Return Loss	Better than 18dB
Dimensions	482 W x 70 D x 44 mm H (19" x 2.8" x 1.75")
Wiring Scheme	1 - Tx Tip, 2 - Tx Ring, 4 - Rx Tip, 5 - Rx Ring
Materials	Case - Zintec, Black Powder Coated
Weight	2.6Kg
Warranty	5 Years, Parts and Labour
MTBF	Estimated 30 Years
Operating Temperature	0° to 50° C
Power Requirements	None
Harmonisation Code	8544 - 42 - 10

Part Numbers	Description
TKPP.E48.01	48 x E1 HDC43 to RJ45 / RJ48C Balun Panel
TKPP.E48.04	48 x E1 1.0/2.3 to RJ45 / RJ48C Balun Panel
TKPPE48RJ.00	Un-Populated 48 Position Chassis
TKE2BA.01	Dual HDC43 to Shielded RJ45 / RJ48C Balun Insert
TKE2BA.04	Dual 1.0/2.3 to Shielded RJ45 / RJ48C Balun Insert