



BLN-3010, BLN-4010 BLN-5010, BLN-6010

G.703 TDC Balan

A balun is a type of electrical transformer that can convert electrical signals that are balanced to signals that are unbalanced and vice versa. They are also used to change impedance of twisted pair's 120 ohm to coaxial's 75 ohm. An E1 balun's function is generally to convert an E1 carrier signal from coaxial cable to UTP CAT-5 cable. The BLN4010 is miniature Balun designed for applications where space is restricted due to small dimensions or high densities. The fully shielded design is intended for panel mounting and IDC twisted pair termination is available in either standard BNC or 1.6/5.6 jack unbalanced connectors.

Features

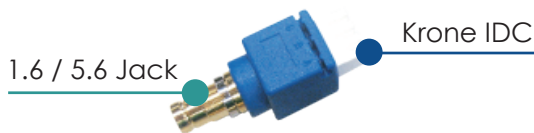
- Converts between 75 (coax)/120 (twisted pair) for E1 (2048 kbps)
- Works in either direction
- Body parts plated with minimum 5u Ni(Nickel)
- Contacts plated with minimum 1.25u Ni(Nickel) and 1.25uAu (Gold)
- Coax connectors with BeCu spring contacts and Teflon insulators
- Coaxial connector insertion cycle > 500
- IDC contacts Phosphor Bronze
- IDC connect/disconnect cycle > 20
- IDC to suit 24.26.28 AWG Copper wire
- Integrated cable anchor allows cable to be inserted after termination on IDC

Specifications

Data rate	2048Kbps
Unbalanced interface	75 ohm impedance, 1xBNC or 1x 1.6/5.6 Jack
Balanced interface	120 ohm impedance, IDC
Insertion loss	0.2dB (2Mbps)
Return loss	-29dB (2Mbps)

Dimensions	17 x 16 x 48 mm (D x W x H)
Weight	15g
Compliance	ITU G.703 standard pulse
Operating Temperature	0 ~ 75°C

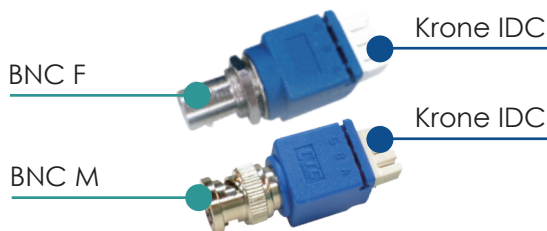
Application



BLN-3010 : 1.6 / 5.6 Jack to Krone IDC



BLN-5010 : BT43 to Krone IDC



BLN-4010F : BNC F to Krone IDC
BLN-4010M : BNC M to Krone IDC



BLN-6010 : SMZ to Krone IDC

Ordering Information

Model Name	Description
BLN-3010	75 ~ 120 ohm Balun, 1.6/5.6 Jack to Krone IDC IDC Pin Assignment PA(-), PB(+), PG(G)
BLN-4010F	75 ~ 120 ohm Balun, BNC/F to Krone IDC IDC Pin Assignment PA(-), PB(+), PG(G)
BLN-4010M	75 ~ 120 ohm Balun, BNC/M to Krone IDC IDC Pin Assignment PA(-), PB(+), PG(G)
BLN-5010	75 ~ 120 ohm Balun, BT43 to Krone IDC IDC Pin Assignment PA(-), PB(+), PG(G)
BLN-6010	75 ~ 120 ohm Balun, SMZ to Krone IDC IDC Pin Assignment PA(-), PB(+), PG(G)

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Example: BLN - 3010