

# BE-1



## Coax to Twisted Pair Converter for E1



### FEATURES

- Conversion between coax interface and twisted pairs for E1 applications (2.048 Mbps)
- Enables standard ISDN primary rate installation over existing coax cables
- No AC or DC power required
- Insensitive to signal direction
- Immediate installation
- Miniature, lightweight Balun

### DESCRIPTION

- The BE-1 Balun (coax to twisted pair converter) enables any E1 equipment with coax interface to operate over two twisted pairs (4-wire interface), as shown in *Figure 1*.
- Two BE-1 units back-to-back allow 4-wire ISDN equipment to operate over existing coax cables (see *Figure 2*).
- BE-1 is insensitive to the direction of the signal, allowing transmit and receive lines to be reversed without affecting operation.
- BE-1 is a miniature, lightweight Balun. It operates without AC or DC power and provides up to 1000V isolation voltage for protection against AC and DC overvoltage on the line.

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### SPECIFICATIONS

- Standards**  
 Supports ITU G.703 pulse mask on unbalanced and balanced sides
- Data rate: 2.048 Mbps**
- Unbalanced Interface**  
 Line impedance: 75Ω, unbalanced  
 Connectors: 2 x BNC (female or male) (see *Ordering*)
- Balanced Interface**  
 Line impedance: 120Ω, balanced  
 Connector: RJ-45, 8-pin

### Pinout

RJ-45	BNC-1	GND	BNC-2
1			Shield
2			Core
3,6		GND	
4	Shield		
5	Core		
7,8	(Not connected)		

### Power

Operates without external power supply

### Physical

Length: 50mm/ 2.0 in  
 Width: 50mm/ 2.0 in  
 Height: 24mm/ 0.9 in  
 Weight: 50g / 1.8 oz

### Environment

Temperature: 0-50°C / 32-122°F  
 Humidity: up to 90%, non-condensing

### ORDERING

**BE-1/M** for BNC male connectors  
**BE-1/F** for BNC female connectors

### APPLICATION

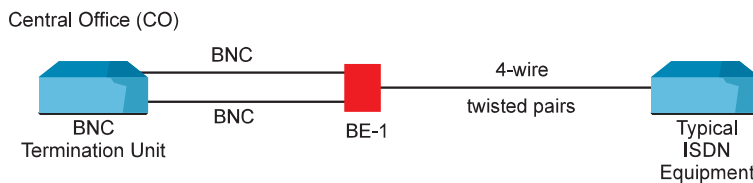


Figure 1. ISDN Primary Rate from Carrier

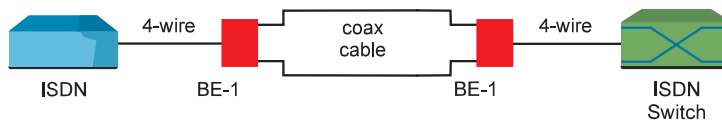


Figure 2. ISDN over Existing Coax Cables

**RAD**

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271-100-03/98