



## Primary application



The 450RC24 is used in applications that require the bi-directional conversion of 75Ω coax to 120Ω 50-pin Telco lines. The high density Patton Balun rack is particularly useful in CO (Central Office) applications. Network & Data Com equipment manufacturers are selling equipment for use in the CO's with only 120Ω Telco interfaces. This creates a mismatch with coax legacy equipment in many CO's. The 450RC24 will allow the Network & Data Com companies equipment to deliver E1 signals from the 120Ω 50-pin Telco connectors to the 75Ω coax CO equipment.

In a typical Customer Premise application, a carrier will likely terminate the G.703 line at the CP on 120Ω twisted pair or a 50-pin Telco connector. If the CP's network equipment is 75Ω coax the 450RC24 would be installed to solve this mismatch.

## Ordering information

Model	Description
450RC24	High Density E1/G.703 Balun Rack; 24 Pairs of Female BNC Connector Type (75Ω), Two Female 50-pin Telco Connectors (120Ω).

Units are shipped complete with:

- 450RC24
- User manual
- 6" BNC Removal Tool

## Replacement parts

NONE

**Shipping/Export Information**

**ECCN export number:** 85175010 00

**Country of origin:** United States of America, NAFTA

**Total weight boxed:** 2.36kg (5.20lbs)

**Individual unit:** 2.02 kg. (4.46lbs)

**MTBF/Repair Information**

**MTBF:** 284,000.000 Hrs. Calculation based on MIL-HDBK-217F, Notice 2 - "Parts Count Reliability Prediction"

**Mean time to repair:** 7– 10 days

**Warranty:** 1-year parts and labor.

**Out of warranty repair rate:** \$350, flat rate – contact Tech Support for details.

**Physical Specifications**

**Dimensions:** 19" Wide X 3.5" Deep X 1.9" High (48.3 X 8.9 X 4.8 cm)

**Color:** Case: black. Front panel: black with white lettering. Rear panel: black with white silkscreen.

**Case material:** Cover: Aluminum

Base: Steel

**Electrical Characteristics**

**Results are tested at a frequency range of 1MHz to 3MHz**

**Insertion Loss:** Less than .3dB

**Cross Talk:** Between the adjacent TX and RX channels 54.4dB

**Return Loss:** Better than 31dB

**Environmental**

**Operating Temp:** 32 to 122°F (0 to 50°C)

**Storage Temp:** -40 to 185°F (-40 to +85°C)

**Relative Humidity:** 5 to 95% RH, non-condensing

**Altitude:** 0–15000 feet (3,048 meters)

**Ventilation requirements:** None. Units do not require cooling fans.

**Approvals**

Safety	Emissions	Telecommunications
CE Marked per EMC directive 89/336/EEC and low voltage directive 72/23/EEC. ESD EN61000-4-2	NONE REQUIRED EN55022 Class A	NONE REQUIRED Fully meets ITU-T (G.703) Standards

**Power Supplies**

**Units do not require power.**