Single Port E1/E2 Toolless IDC Baluns

Model 430 Series G.703/G.704 Baluns

The Patton® Model 430 Series Single-Port E1/E2 Balun Series provides 75/120-Ohm conversion in an ultra-miniature enclosure

Convert 75 Ohm Coax to 120 Ohm Twisted Pair
Resolves impedance mis-match between twisted pair equipment and coax cabling.

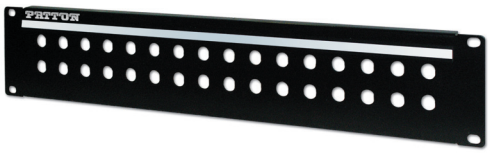
Ultra-miniature size
Provides maximum density when installed into a 19-inch (48.3cm) panel

Industry Standard Coax Connectors
A host of coax connectors including BNC, 1.6/5.6, 1.0/2.3 and Type 43 are available

Low Insertion Loss
Fully meets ITU-T (CTR-12) G.703 standards

No Power Required
Operation is transparent to data, no AC/DC power is required

Management & Provisioning
Web-based management, SNMP, command line interface. Automated provisioning for easy large-scale deployments.



The Patton Model 430R houses up to 32 individual toolless IDC baluns for 16 E1/E2 circuits. The 430R fits into standard 19-inch racks and includes a dry-erase tab for easy and clear marking.

Patton's new G.703/G.704 toolless insulating displacement connecting (IDC) module baluns are ideal for carriers seeking a cost-effective, space-efficient, and proven method of impedance matching 75-Ohm coax to 120-Ohm single-conductor connections. The baluns provide transparent bi-directional signal conversion with no AC or battery power required.

Various industry standard types of coaxial connectors (75 Ohm) are available including male and female combinations of BNC, 1.6/5.6, 1.0/2.3, and Type 43. The 3-pole toolless IDC connector used for wrapping single-conductor connections (120 Ohm) utilizes a slit in the cable anchor to allow the cable to be inserted after termination. The toolless IDC connector is also offset so that a cable can be positioned between baluns on the DDF/patch panel as required. The toolless IDC connector is clearly labeled *A*, *B* and *G* (Ground) to make installation more convenient.

Visit www.patton.com for more information.

Model 431F
Single Port BNC Female Panel Mount to Toolless IDC Balun

Model 431M
Single Port BNC Male Panel Mount to Toolless IDC Balun

Model 432F
Single Port 1.6/5.6 Female Panel Mount to Toolless IDC Balun

Model 432M
Single Port 1.6/5.6 Male Panel Mount to Toolless IDC Balun

Model 433F
Single Port 1.0/2.3 Female Panel Mount to Toolless IDC Balun

Model 433M
Single Port 1.0/2.3 Male Panel Mount to Toolless IDC Balun

Model 434F
Single Port Type 43 Female Panel Mount to Toolless IDC Balun

Model 434M
Single Port Type 43 Male Panel Mount to Toolless IDC Balun

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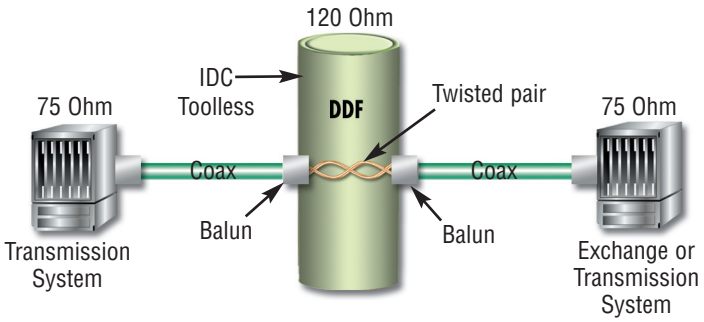
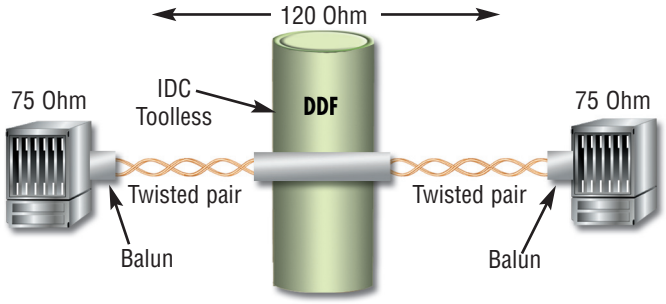
Balun Applications

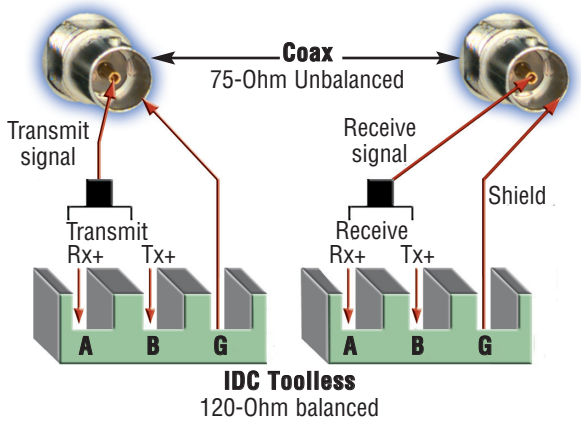
DDF jumper reconfiguration with 120 Ohm



Typical DDF application



Patton's Ultra-miniature G.703 Toolless IDC baluns are fully shielded and are ideal in telecom applications where space is a premium. The Model 430 Series can be panel mounted or cable mounted and feature IDC terminations which allow installation without the need of special tools. Converting your G.703 signal from coax to twisted-pair enables the use of high density IDC modules in the Digital Distribution Frames (DDF), which significantly increases the available density.



Specifications

Transmission Line: ITU-T G.703/G.704 2–8 Mbps

75-Ohm Connection: BNC; 1.6/5.6, 1.0/2.3, or Type 43

120-Ohm Connection: 3 pole toolless IDC

Insertion Loss: Max 0.2 dB @ 2 Mbps; Max 0.3 dB @ 8 Mbps

Cross Talk: Better than -80 dV from 0.1 to 12 MHz between any two baluns on a DDF strip with 15 mm centers

Return Loss: -29dB @ 2 Mbps; -21dB @ 8 Mbps

Dimensions: 19L x 1.5W x 3.8H inch (48.3 L x 48.3 W x 8.9 H cm)

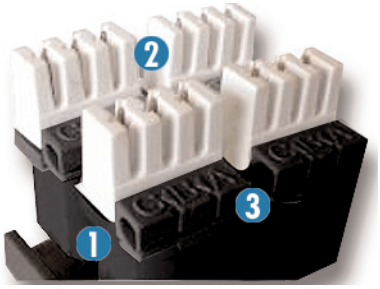
Temperature: 32 to 122°C (0 to 50°C)

Weight: 0.4 lbs (0.18kg)

Features

Patton's IDC Toolless Connector

1. Slit in cable anchor allows cable to be inserted after termination.
2. Offset IDC allows cable to be positioned between baluns on DDF as required
3. IDC toolless connector clearly marked *A*, *B* and *G* for easier installation



With tool-free terminations, clearly marked connectors and well laid out spaces, the Patton IDC toolless connector makes installations a breeze.

Model Information

431F: Single Port BNC Female Panel Mount to Toolless IDC Balun
431M: Single Port BNC Male Panel Mount to Toolless IDC Balun
432F: Single Port 1.6/5.6 Female Panel Mount to Toolless IDC Balun
432M: Single Port 1.6/5.6 Male Panel Mount to Toolless IDC Balun
433F: Single Port 1.0/2.3 Female Panel Mount to Toolless IDC Balun
433M: Single Port 1.0/2.3 Male Panel Mount to Toolless IDC Balun
434F: Single Port Type 43 Female Panel Mount to Toolless IDC Balun
434M: Single Port Type 43 Male Panel Mount to Toolless IDC Balun
430R: Toolless IDC Mounting Panel

07M430-DS5

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