Bourns® Model 3670-01 is a high quality impedance matching unit optimized to extend reach/reduce loss on ADSL2+ and VDSL2 circuits where conversion from twisted pair to existing coaxial cabling is required. The 3670-01 is configured with flying leads for connection of the twisted pair circuit so no new wires are required. Dual mounting flanges provide flexibility in installation.

### Features
- Optimized for extended reach
- Fast and easy installation
- Service interoperability and compatibility with most existing NIDs
- UL Listed per 1863
- RoHS compliant*

### Applications
- Twisted pair coax conversion
- HPNA
- Triple Play
- xDSL service extension on COAX

### Characteristics

<table>
<thead>
<tr>
<th>Feature</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Twisted Wire Port Impedance</td>
<td>100 Ω</td>
</tr>
<tr>
<td>Coax Port Impedance</td>
<td>75 Ω</td>
</tr>
<tr>
<td>Withstanding Voltage</td>
<td>DC 330 V, 2 sec. (Ico=10 mA)</td>
</tr>
<tr>
<td>Insulation Resistance</td>
<td>&gt;10 MΩ (DC 250 V)</td>
</tr>
<tr>
<td>Insertion Loss (typical)</td>
<td>0.55 dB @ 25 kHz, 0.13 dB @ 138 kHz, 0.22 dB @ 3.75 MHz, 0.28 dB @ 5.8 MHz, 0.35 dB @ 8.5 MHz</td>
</tr>
<tr>
<td>Return Loss (Typical)</td>
<td>7.83 dB @ 25 kHz, 21.47 dB @ 138 kHz, 29.49 dB @ 3.75 MHz, 32.13 dB @ 5.8 MHz, 31.92 dB @ 8.5 MHz</td>
</tr>
</tbody>
</table>

### Insertion Loss

![Insertion Loss Graph](image)

### Return Loss

![Return Loss Graph](image)

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3670 Series Balance-Unbalance Adapter

**Product Dimensions**

- **DIMENSIONS:** MM (INCHES)
- **18.42 (0.7200)**
- **58.42 (2.3000)**
- **22.78 (0.8970)**

**Installation Diagram**

Wiring Schematic for BALUN:
The BALUN is intended to be used in a UL listed NID enclosure
Circuit shows BALUN connected to “DATA” port of the splitter.

**How to Order**

Stud Mount ....................... Part No. 3670-01, 50 units per carton

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