

4.3-10 Male Connector for L-240 Coaxial Cable

SKU: IBC-PT-00020

MPN: 431-C-L24

Barcode: 9337692002335

Description

The 4.3-10 Male Connector, designed by Powertec (Part No. 431-C-L24), is tailored for seamless integration with L-240 coaxial cables. This RF connector features a straight, free-hanging design and utilises a crimp attachment method for reliable performance. Constructed with a brass body plated with nickel and brass inner contacts plated with silver, it ensures durability and optimal conductivity. The PTFE/Teflon insulator contributes to its robust design, allowing the connector to endure over 500 mating cycles.

The connector operates efficiently within a temperature range of -55 °C to 155 °C and supports frequencies from 0 to 6.0 GHz. It maintains an input impedance of 50 Ω and an impressive insulation resistance of ≥ 5000 mΩ. The maximum RF operating voltage is ≤ 1000 Vrms, and it achieves a VSWR of $\leq 1.35:1$ at 6000 MHz, ensuring minimal signal loss and high performance.

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RF Connector Interface

| RF Interface | Body Shape | Mounting |
|--------------|------------|--------------|
| 4.3-10 Male | Straight | Free Hanging |

RF Specification

| | | | |
|------------------|-------|------------------------|-----------------------------|
| Start Frequency: | 0 GHz | Input Impedance: | 50 |
| Stop Frequency: | 6 GHz | Insulation Resistance: | $\geq 5000 \text{ m}\Omega$ |
| | | RF Operating Voltage: | $\leq 1000 \text{ Vrms}$ |

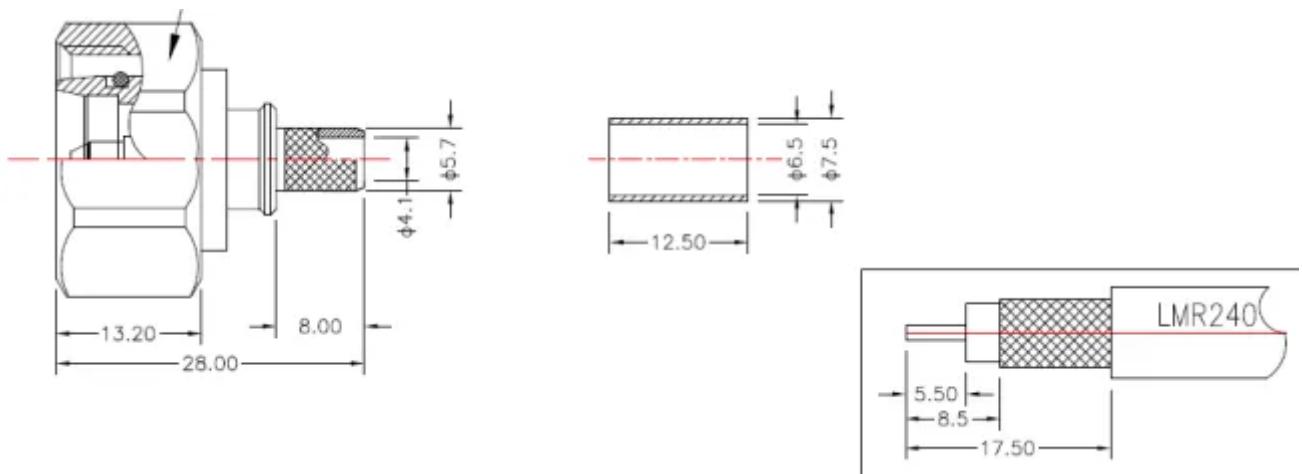
VSWR Measurement

| Frequency | VSWR |
|-----------|---------------|
| 6000 MHz | $\leq 1.35:1$ |

Physical Specification

| | | | |
|---------------------|---------------|-----------------------------|--------------|
| Cable Group: | L-240 | Conductor Attachment: | Cable, Crimp |
| Body Material: | Brass | Contact Material: | Brass |
| Body Plating: | Nickel | Contact Plating: | Silver |
| Insulator Material: | PTFE / Teflon | Min. Operating Temperature: | -55 °C |
| Dimensions: | 28.00 x 8.00 | Max. Operating Temperature: | 155 °C |
| | | Mating Cycles: | > 500 |

Drawing



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