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N Female Connector for L-240 Coaxial Cable

SKU
ACC-PT-00202
MPN
N2-C-L24
Barcode
9337692003554

Description

N or N-Type connectors are popular across a wide range of wireless technologies, particularly those sub-6 GHz.

This N Female connector is designed for an ordinary crimp and solder attachment to LMR-240 and equivalent series coaxial cables. This N Female connector for L-240 series cables is manufactured by Powertec as a high performing yet economical connector for L-240 / LMR-240 series coaxial cables. The model has been selected based on its extended operation to 6 GHz.

Installation is simple. After preparing the cable, the connector is slid over the cable until the cable's centre conductor sits within the solder-cup that has been pre-fitted inside the connector. The conductor is then soldered in place. A standard 6.5 mm (0.255") hex die is used to crimp the ferrule.

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The N Female Connector for L-240 Coaxial Cable, produced by Powertec, is an essential component in RF applications, particularly effective in wireless technologies operating below 6 GHz. This connector is designed for a straightforward crimp and solder attachment to LMR-240 and equivalent coaxial cables, ensuring a secure and reliable connection. Key applications include enhancing cellular networks, establishing wireless communication systems, and supporting various RF setups.

The connector's design features a robust brass body with nickel plating, providing durability and resistance to environmental factors. The inner contacts are crafted from brass with gold plating, ensuring excellent conductivity and minimal signal loss. The use of PTFE as an electrical insulator contributes to its high performance under varying temperature conditions, ranging from -55 °C to 165 °C.

With an impedance of 50 Ω, the connector ensures optimal signal...

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Powertec

Powertec is a wireless technology manufacturer and systems integrator based in Australia. Operating since 1995, Powertec has grown to become the leading wireless technology distributor in its region, and a leading Infratech systems developer. Supporting over 1500 partners the company provides procurement, design, project management, and support services across Australia, New Zealand, Pacific ...

RF Connector Interface

RF Interface	Body Shape	Mounting
N Female	Straight	Free Hanging

RF Specification

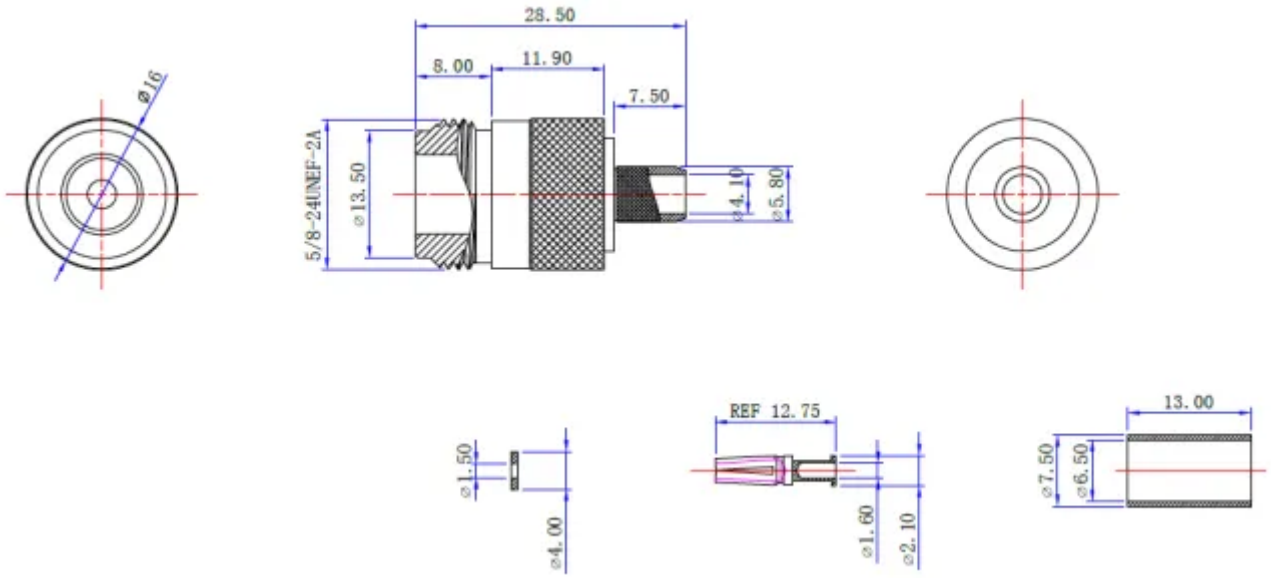
Start Frequency
0 GHz
Stop Frequency
6 GHz
Input Impedance
50 Ω
Inner Contact Resistance
≤ 1 mΩ
Insulation Resistance
≥ 5000 mΩ
Outer Contact Resistance
≤ 0.25 mΩ
RF Operating Voltage
≤ 1000 Vrms
VSWR Measurement

Frequency	VSWR
3000 MHz	≤ 1.2:1
6000 MHz	≤ 1.5:1

Physical Specification

Cable Group
L-240
Body Material
Brass
Body Plating
Nickel
Insulator Material
PTFE / Teflon
Dimensions
28 × 19 × 19

Weight
18.5 g
Compliance/Certifications
ISO 9001 Quality Management
,
RoHS
Conductor Attachment
Cable, Solder
Contact Material
Brass
Contact Plating
Gold
Min. Operating Temperature
-55 °C
Max. Operating Temperature
165 °C
Mating Cycles
> 500
Drawing



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