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CommScope F4PNMV2-HC Type N Male for 1/2 in FSJ4-50B cable

SKU
ACC-CS-00114
MPN
F4PNMV2-HC

Description

The CommScope F4PNMV2-HC Type N Male connector is designed for 1/2 inch FSJ4-50B coaxial cables. This RF connector features a straight, free-hanging mounting style, ideal for seamless integration in various RF applications. Constructed from brass with a durable plating and gold-plated inner contacts, it ensures reliable performance and longevity. The PTFE/Teflon insulator supports high thermal stability, operating in temperatures from -55°C to 85°C, and guarantees over 500 mating cycles.

This connector operates across a frequency range from 0 GHz to 12 GHz, with a 3rd Order PIM rating of ≤ -110 dBc, ensuring minimal interference in signal transmission. It offers an input impedance of 50 Ω, with inner and outer contact resistances of ≤ 0 mΩ, and an insulation resistance of ≥ 5000 mΩ. The connector supports a peak power of 10,000 kW and an RF operating voltage of ≤ 707 Vrms.

Performance metrics include a VSWR of ≤ 1.04:1 and return loss of...

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RF Connector Interface

RF Interface	Body Shape	Mounting
N Male	Straight	Free Hanging

RF Specification

Start Frequency
0 GHz
Stop Frequency
12000 GHz
Peak Power
10000 kW
PIM, 3rd Order
≤ -110 dBc
Input Impedance
50 Ω
Inner Contact Resistance
≤ 0 mΩ
Insulation Resistance
≥ 5000 mΩ
Outer Contact Resistance

≤ 0.3 mΩ
RF Operating Voltage
≤ 707 Vrms
VSWR Measurement

Frequency	VSWR	Return Loss	Insertion Loss
1000 MHz	≤ 1.04:1	≤ 35.05 dB	0.05 dB
3000 MHz	≤ 1.08:1	≤ 27.99 dB	0.05 dB

Physical Specification

Cable Group
1/2 Corrugated
Body Material
Brass
Insulator Material
PTFE / Teflon
Dimensions
54.1 x 24.13
Weight
90.72 g
Compliance/Certifications
ISO 9001 Quality Management
,
RoHS
Mechanical Compliance
IEC 60068-2-27: Mechanical Shock
Conductor Attachment
Cable, Captivated
Contact Material
Brass
Contact Plating
Gold
Min. Operating Temperature
-55 °C
Max. Operating Temperature
85 °C
Ingress Protection
IP68
Mating Cycles
> 500

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