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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 m Ω , and an insulation resistance of ≥ 5000 m Ω . The connector supports a peak power of 10,000 kW and an RF operating voltage of ≤ 707 Vrms.

Performance metrics include a VSWR of $\leq 1.04:1$ and return loss of...

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[CommScope](#)

CommScope (NASDAQ: COMM) helps design, build and manage wired and wireless networks around the world. As a communications infrastructure leader, we shape the always-on networks of tomorrow. For more than 40 years, our global team of greater than 20,000 employees, innovators and technologists have empowered customers in all regions of the world to anticipate what's next and push the boundaries of ...

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 m Ω

Insulation Resistance

$\geq 5000 \text{ m}\Omega$

Outer Contact Resistance

$\leq 0.3 \text{ m}\Omega$

RF Operating Voltage

$\leq 707 \text{ Vrms}$

VSWR Measurement

Frequency VSWR Return Loss Insertion Loss

1000 MHz $\leq 1.04:1 \leq 35.05 \text{ dB}$ 0.05 dB

3000 MHz $\leq 1.08:1 \leq 27.99 \text{ dB}$ 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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