

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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RF Connector Interface

RF Interface	Body Shape	Mounting
N Male	Straight	Free Hanging

RF Specification

Start Frequency:	0 GHz	Input Impedance:	50
Stop Frequency:	12000 GHz	Inner Contact Resistance:	$\leq 0 \text{ m}\Omega$
Peak Power:	10000 kW	Insulation Resistance:	$\geq 5000 \text{ m}\Omega$
PIM, 3rd Order:	$\leq -110 \text{ dBc}$	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	Conductor Attachment:	Cable, Captivated
Body Material:	Brass	Contact Material:	Brass
Insulator Material:	PTFE / Teflon	Contact Plating:	Gold
Dimensions:	54.1 x 24.13	Min. Operating Temperature:	-55 °C
Weight:	90.72 g	Max. Operating Temperature:	85 °C
Compliance/Certifications:	ISO 9001 Quality Management	Ingress Protection:	IP68
RoHS		Mating Cycles:	> 500
Mechanical Compliance:	IEC 60068-2-27: Mechanical Shock		

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