

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 50Ω , 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: | ≤ 0 mΩ |
| Peak Power: | 10000 kW | Insulation Resistance: | ≥ 5000 mΩ |
| PIM, 3rd Order: | ≤ -110 dBc | 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 | 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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