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CommScope L4TNF-PSA Type N Female Positive Stop(tm) for 1/2 in AL4RPV-50, LDF4-50A, HL4RPV-50 cable

SKU
ACC-CS-00012
MPN
L4TNF-PSA

Description

The CommScope L4TNF-PSA Type N Female Positive Stop connector, part number L4TNF-PSA, is engineered for optimal performance with 1/2 inch corrugated cables, including AL4RPV-50, LDF4-50A, and HL4RPV-50. This RF connector features a straight, free-hanging design and utilises a captivated attachment mechanism. Constructed with a brass body and silver-plated brass inner contacts, it ensures durability and reliable conductivity. The PTFE/Teflon insulator supports stability across a wide temperature range of -55 °C to 85 °C.

Designed for robustness, it supports over 500 mating cycles and operates efficiently within a frequency range of 0 GHz to 8800 GHz. With an impedance of 50 Ω, this connector delivers excellent electrical performance, including a 3rd Order PIM rating of ≤ -116 dBc, inner contact resistance ≤ 2 mΩ, and insulation resistance ≥ 5000 mΩ. It handles peak power up to 10 kW and an RF operating voltage of ≤ 707 Vrms.

The L4TNF-PSA...

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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 Female	Straight	Free Hanging

RF Specification

Start Frequency
0 GHz
Stop Frequency
8800 GHz
Peak Power
10 kW
PIM, 3rd Order
≤ -116 dBc
Input Impedance
50 Ω
Inner Contact Resistance
≤ 2 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	≤ 1.02:1	≤ 38.89 dB	0.05 dB

Physical Specification

Cable Group
1/2 Corrugated
Body Material
Brass
Insulator Material
PTFE / Teflon
Dimensions
73.66 x 22.35
Weight
88.46 g
Compliance/Certifications
RoHS
Mechanical Compliance
IEC 60068-2-11: Salt Mist
,
IEC 60068-2-14: Change of Temperature
,
IEC 60068-2-27: Mechanical Shock
,
IEC 60068-2-6: Vibration
Conductor Attachment
Cable, Captivated
Contact Material
Brass
Contact Plating
Silver
Min. Operating Temperature
-55 °C
Max. Operating Temperature
85 °C
Ingress Protection

IP68
Mating Cycles
> 500

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