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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 m Ω , and insulation resistance ≥ 5000 m Ω . It handles peak power up to 10 kW and an RF operating voltage of ≤ 707 Vrms.

The L4TNF-PSA...

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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 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 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 $\leq 1.02:1 \leq 38.89 \text{ dB}$ 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](#)

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[IEC 60068-2-14: Change of Temperature](#)

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[IEC 60068-2-27: Mechanical Shock](#)

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[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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