

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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RF Connector Interface

RF Interface	Body Shape	Mounting
N Female	Straight	Free Hanging

RF Specification

Start Frequency:	0 GHz	Input Impedance:	50
Stop Frequency:	8800 GHz	Inner Contact Resistance:	$\leq 2 \text{ m}\Omega$
Peak Power:	10 kW	Insulation Resistance:	$\geq 5000 \text{ m}\Omega$
PIM, 3rd Order:	$\leq -116 \text{ dBc}$	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	$\leq 1.02:1$	$\leq 38.89 \text{ dB}$	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:	Silver
Dimensions:	73.66 x 22.35	Min. Operating Temperature:	-55 °C
Weight:	88.46 g	Max. Operating Temperature:	85 °C
Compliance/Certifications:	RoHS	Ingress Protection:	IP68
Mechanical Compliance:	IEC 60068-2-11: Salt Mist	Mating Cycles:	> 500

IEC 60068-2-14: Change of Temperature

IEC 60068-2-27: Mechanical Shock

IEC 60068-2-6: Vibration

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