

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...

[Read More](#)



COMMSCOPE®

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	Input Impedance:	50
Stop Frequency:	8800 GHz	Inner Contact Resistance:	≤ 2 mΩ
Peak Power:	10 kW	Insulation Resistance:	≥ 5000 mΩ
PIM, 3rd Order:	≤ -116 dBc	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	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

Disclaimer: Although care has been taken to ensure the accuracy, completeness and reliability of the information provided, Powertec assumes no responsibility therefore. The user of the information agrees that the information is subject to change without notice. Powertec assumes no responsibility for the consequences of use of such information, nor for any infringement of third party intellectual property rights which may result from its use. IN NO EVENT SHALL POWERTEC BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL, OR INCIDENTAL DAMAGE RESULTING FROM, ARISING OUT OF OR IN CONNECTION WITH THE USE OF THE INFORMATION.

