

# CommScope 78EZN F Type N Female EZfit(r) for 7/8 in FXL-780, AVA5-50, and AVA5-50FX cable

SKU: ACC-CS-00009  
 MPN: 78EZN F

## Description

The CommScope 78EZN F Type N Female EZfit® connector is engineered for optimal performance with 7/8 in FXL-780, AVA5-50, and AVA5-50FX coaxial cables. This straight, free-hanging RF connector features a captivated attachment mechanism, ensuring secure and reliable connections. Constructed from brass with silver plating on the inner contacts and a PTFE insulator, it offers durability and excellent electrical performance.

The connector supports over 500 mating cycles and operates effectively in temperatures ranging from -40 °C to 85 °C, with a frequency range of 0 to 5000 GHz. It boasts a 3rd Order PIM rating of ≤ -116 dBc and has an input impedance of 50 Ω. The VSWR is ≤ 1.03:1, with a Return Loss of ≤ 40.00 dB and an Insertion Loss of 0.05 dB at 1000 MHz.

This connector is ISO 9001 certified and RoHS compliant, meeting IEC standards for salt mist, temperature change, and vibration resistance. Designed for peak power handling of 10000 kW...

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RF Connector Interface



RF Interface	Body Shape	Mounting
N Female	Straight	Free Hanging

## RF Specification CommScope



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Start Frequency:	0 GHz	Input Impedance:	50
Stop Frequency:	5000 GHz	Inner Contact Resistance:	$\leq 2 \text{ m}\Omega$
Peak Power:	10000 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	$\leq 1.03:1$	$\leq 40 \text{ dB}$	0.05 dB

## Physical Specification

Cable Group:	7/8 Corrugated	Conductor Attachment:	Cable, Captivated
Body Material:	Brass	Contact Material:	Brass
Insulator Material:	PTFE / Teflon	Contact Plating:	Silver
Dimensions:	52.07 x 37.08	Min. Operating Temperature:	$-40 \text{ }^\circ\text{C}$
Weight:	135.54 g	Max. Operating Temperature:	$85 \text{ }^\circ\text{C}$
Compliance/Certifications:	ISO 9001 Quality Management	Ingress Protection:	IP68
RoHS	'	Mating Cycles:	> 500
Mechanical Compliance:	IEC 60068-2-11: Salt Mist		
	IEC 60068-2-14: Change of Temperature		
	IEC 60068-2-6: Vibration		

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