

CommScope 78EZDF DIN Female Connector for 7/8" AVA5-50FX

SKU: ACC-CS-00379

MPN: 78EZDF

Description

The CommScope 78EZDF DIN Female Connector is designed for use with 7/8" AVA5-50FX coaxial cables, offering reliable RF connections in various applications. This 7/16 DIN Female connector features a straight, free-hanging design, ideal for attaching to 7/8 corrugated cable types with a captivated mechanism. The connector, measuring 48.01 x 37.08 mm and weighing 136.65 g, is built with a robust body and silver-plated inner contacts, ensuring durability through over 50 mating cycles.

Operating effectively within a temperature range of -40°C to 85°C, it supports frequencies from 0 to 5000 GHz. The connector boasts a low Passive Intermodulation (PIM) rating of ≤ -116 dBc, with an input impedance of 50 Ω and high insulation resistance of ≥ 5000 m Ω . It is capable of handling peak power up to 40 kW with an RF operating voltage of ≤ 1415 Vrms.

Quality and compliance are assured through RoHS and ISO 9001 certifications, as well as testing against...

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RF Connector Interface

RF Interface	Body Shape	Mounting
7/16 DIN Female	Straight	Free Hanging

RF Specification

Start Frequency:	0 GHz	Input Impedance:	50
Stop Frequency:	5000 GHz	Inner Contact Resistance:	$\leq 0.4 \text{ m}\Omega$
Peak Power:	40 kW	Insulation Resistance:	$\geq 5000 \text{ m}\Omega$
PIM, 3rd Order:	$\leq -116 \text{ dBc}$	Outer Contact Resistance:	$\leq 1.5 \text{ m}\Omega$
RF Operating Voltage:			$\leq 1415 \text{ Vrms}$

VSWR Measurement

Frequency	VSWR	Return Loss	Insertion Loss
50 MHz	$\leq 1.02:1$	$\leq 40.09 \text{ dB}$	0.05 dB
1000 MHz	$\leq 1.03:1$	$\leq 38.17 \text{ dB}$	
1900 MHz	$\leq 1.04:1$	$\leq 33.94 \text{ dB}$	

Physical Specification

Cable Group:	7/8 Corrugated	Conductor Attachment:	Cable, Captivated
Dimensions:	48.01 x 37.08 mm	Contact Plating:	Silver
Weight:	136.65 g	Min. Operating Temperature:	-40 °C
Compliance/Certifications:	RoHS	Max. Operating Temperature:	85 °C
ISO 9001 Quality Management		Ingress Protection:	IP68
Mechanical Compliance:	IEC 60068-2-11: Salt Mist	Mating Cycles:	> 50
IEC 60068-2-27: Mechanical Shock			

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