

540EZDF

7-16 DIN Female EZfit® for 1/2 in FXL-540 cable

OBSOLETE

This product was discontinued on: July 1, 2010

Replaced By:

540EZDFV2

7-16 DIN Female EZfit® for 1/2 in FXL-540 cable

Product Classification

Product Type	Wireless and radiating connector
Product Brand	EZfit®

General Specifications

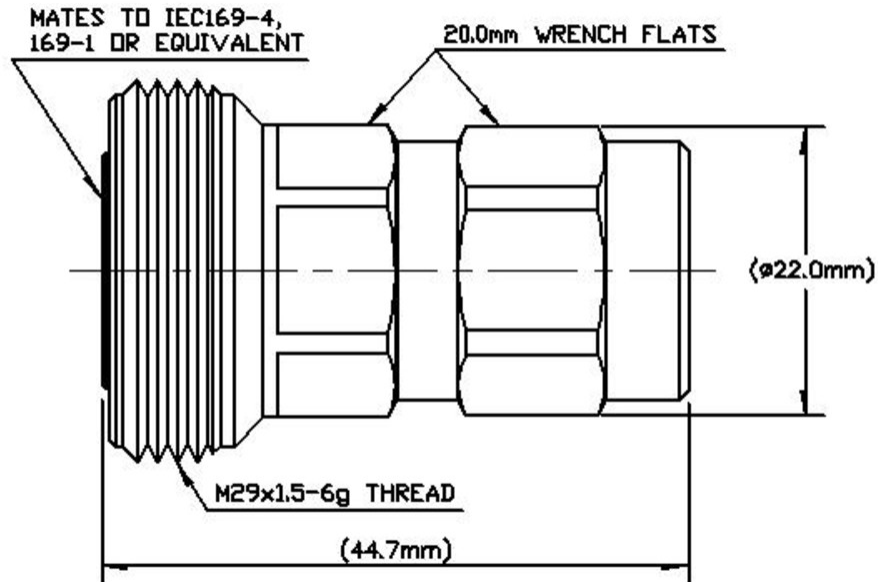
Body Style	Straight
Inner Contact Attachment Method	Captivated
Inner Contact Plating	Silver
Interface	7-16 DIN Female
Mounting Angle	Straight
Outer Contact Attachment Method	Clamp Tool-flare
Outer Contact Plating	Trimetal
Pressurizable	No

Dimensions

Length	44.7 mm 1.76 in
Diameter	28.96 mm 1.14 in
Nominal Size	1/2 in

Outline Drawing

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Electrical Specifications

3rd Order IMD at Frequency	-115 dBm @ 1890 MHz
3rd Order IMD Test Method	Two +43 dBm carriers
Insertion Loss Coefficient, typical	0.05
Average Power at Frequency	1.0 kW @ 900 MHz
Cable Impedance	50 ohm
Connector Impedance	50 ohm
dc Test Voltage	4000 V
Inner Contact Resistance, maximum	0.8 mOhm
Insulation Resistance, minimum	5000 MOhm
Operating Frequency Band	0 – 7500 MHz
Outer Contact Resistance, maximum	1.5 mOhm
Peak Power, maximum	40 kW
RF Operating Voltage, maximum (vrms)	1980 V
Shielding Effectiveness	-110 dB

VSWR/Return Loss

Frequency Band	VSWR	Return Loss (dB)
50–1000 MHz	1.023	38.89

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1000–1900 MHz	1.032	36.06
1900–2200 MHz	1.041	33.94
2200–2700 MHz	1.055	31.45
2700–3600 MHz	1.083	27.99
3000–6000 MHz	1.196	20.99
6000–8000 MHz	1.222	20.01

Mechanical Specifications

Attachment Durability	25 cycles
Connector Retention Tensile Force	1,112.06 N 250 lbf
Connector Retention Torque	4 N-m 35.403 in lb
Insertion Force	200.17 N 45 lbf
Insertion Force Method	IEC 61169-1:15.2.4
Interface Durability	500 cycles
Interface Durability Method	IEC 61169-4:9.5
Mechanical Shock Test Method	MIL-STD-202, Method 213, Test Condition I

Environmental Specifications

Operating Temperature	-40 °C to +85 °C (-40 °F to +185 °F)
Storage Temperature	-55 °C to +85 °C (-67 °F to +185 °F)
Attenuation, Ambient Temperature	20 °C 68 °F
Average Power, Ambient Temperature	40 °C 104 °F
Corrosion Test Method	MIL-STD-1344A, Method 1001.1, Test Condition A
Immersion Depth	1 m
Immersion Test Mating	Mated
Immersion Test Method	IEC 60529:2001, IP68
Moisture Resistance Test Method	MIL-STD-202F, Method 106F
Vibration Test Method	IEC 60068-2-6
Water Jetting Test Mating	Mated
Water Jetting Test Method	IEC 60529:2001, IP66

Packaging and Weights

Weight, net	80 g 0.176 lb
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Regulatory Compliance/Certifications

Agency	Classification
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system



* Footnotes

Insertion Loss Coefficient, typical	0.05√freq (GHz) (not applicable for elliptical waveguide)
Immersion Depth	Immersion at specified depth for 24 hours