F4PDF-C

苏州启道 - 康普安德鲁HELIAX中国区独家授权总代理



7-16 DIN Female for 1/2 in FSJ4-50B cable

Product Classification	
Product Type	Wireless and radiating connector
Product Brand	HELIAX®
Ordering Note	CommScope® standard product (Global)
General Specifications	
Body Style	Straight
Cable Family	FSJ4-50B
Inner Contact Attachment Method	Captivated
Inner Contact Plating	Silver
Interface	7-16 DIN Female
Mounting Angle	Straight
Outer Contact Attachment Method	Self-flare

Trimetal

No

Outer Contact Attachment Method Outer Contact Plating Pressurizable

Dimensions

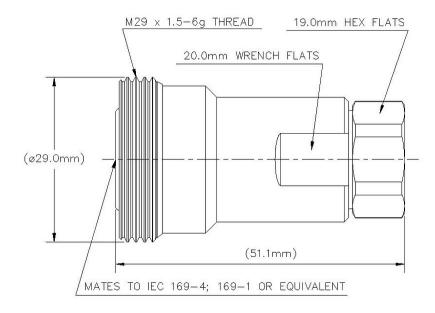
Length	50.04 mm 1.97 in
Diameter	28.96 mm 1.14 in
Nominal Size	1/2 in

Outline Drawing

Page 1 of 4



F4PDF-C 苏州启道 - 康普安德鲁HELIAX中国区独家授权总代理



Electrical Specifications

3rd Order IMD at Frequency	-120 dBm @ 910 MHz
3rd Order IMD Test Method	Two +43 dBm carriers
Insertion Loss, typical	0.05 dB
Average Power at Frequency	1.0 kW @ 900 MHz
Cable Impedance	50 ohm
Connector Impedance	50 ohm
dc Test Voltage	2500 V
Inner Contact Resistance, maximum	0.8 m0hm
Insulation Resistance, minimum	5000 MOhm
Operating Frequency Band	0 – 7500 MHz
Outer Contact Resistance, maximum	1.5 m0hm
Peak Power, maximum	15.6 kW
RF Operating Voltage, maximum (vrms)	884 V
Shielding Effectiveness	-110 dB

VSWR/Return Loss

Page 2 of 4



F4PDF-C 苏州启道 - 康普安德鲁HELIAX中国区独家授权总代理

С

Frequency Band	VSWR	Return Loss (dB)
0–1000 MHz	1.03	39
1000–2000 MHz	1.03	38
2000–2300 MHz	1.03	37
2300-4000 MHz	1.12	25

Mechanical Specifications

Attachment Durability	25 cycles
Connector Retention Tensile Force	889.64 N 200 lbf
Connector Retention Torque	5.42 N-m 47.998 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-202F, Method 213B, Test Condition (

Environmental Specifications

Operating Temperature	-55 °C to +85 °C (-67 °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
Thermal Shock Test Method	MIL-STD-202, Method 107, Test Condition A-1, Low Temperature -55 $^\circ\mathrm{C}$
Vibration Test Method	MIL-STD-202F, Method 204D, Test Condition B
Water Jetting Test Mating	Mated
Water Jetting Test Method	IEC 60529:2001, IP66

Packaging and Weights

Weight, net

150 g | 0.331 lb

Page 3 of 4



F4PDF-C 苏州启道 - 康普安德鲁HELIAX中国区独家授权总代理

Designed, manufactured and/or distributed under this quality management system

Compliant as per SVHC revision on www.commscope.com/ProductCompliance

Regulatory Compliance/Certifications

Agency

Classification

Compliant

CHINA-ROHS

ISO 9001:2015

REACH-SVHC





* Footnotes

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

Below maximum concentration value

Page 4 of 4

