F4A-PDMDF-X

Base Product



HELIAX $\ensuremath{\mathbb{R}}$ 1/2" Superflexible SureFlex $\ensuremath{\mathbb{R}}$ Jumper with interface types 7-16 DIN Male and 7-16 DIN Female, variable length

Product Classification

Product Type	Wireless transr	mission cable assembly
Product Brand	HELIAX® S	SureFlex®
Product Series	FSJ4-50B	
General Specifications		
Attachment, Connector B	Field attachme	ent
Body Style, Connector A	Straight	
Body Style, Connector B	Straight	
Interface, Connector A	7-16 DIN Male	
Interface, Connector B	7-16 DIN Fema	ale
Specification Sheet Revision Level	А	
Variable Length	For custom len CommScope re	ngths contact 828-324-2200 or 1-800-982-1708 (toll free), or your local epresentative
Dimensions		
Length	0 m 0 ft	
Nominal Size	1/2 in	
Electrical Specifications		
DTF, Connector A	-32 dB	
VSWR/Return Loss		
Frequency Band	VSWR, typical	Return Loss, typical (dB)
0–3000 MHz	1.11	26
2.2–2.7 GHz	1.09	28

Jumper Assembly Sample Label

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F4A-PDMDF-X



Environmental Specifications

Immersion Test Method

Meets IEC 60529:2001, IP68 in mated condition

Regulatory Compliance/Certifications

Agency Classification

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

Included Products

F4PDF-C

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

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



Product Classification

Product Type Wireless and radiating connector **Product Brand HELIAX® Product Series** FSJ4-50B | FSJ4RK-50B **Ordering Note** CommScope® standard product (Global) General Specifications **Body Style** Straight FSJ4-50B **Cable Family Inner Contact Attachment Method** Captivated **Inner Contact Plating** Silver Interface 7-16 DIN Female **Mounting Angle** Straight **Outer Contact Attachment Method** Self-flare **Outer Contact Plating** Trimetal Pressurizable No Dimensions Length 50.04 mm | 1.97 in 28.96 mm | 1.14 in Diameter

Outline Drawing

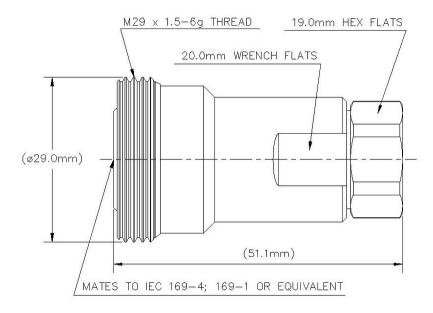
Nominal Size

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1/2 in





Si.

Electrical Specifications

3rd Order IMD at Frequency	-120 dBm @ 910 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	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

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Frequency Band	VSWR	Return Loss (dB)
0–1000 MHz	1.023	38.89
1000–2000 MHz	1.025	38.17
2000–2300 MHz	1.029	36.9
2300–4000 MHz	1.119	25.01

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

С

Packaging and Weights

Weight, net

150 g | 0.331 lb

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F4PDF-C

Regulatory Compliance/Certifications

Agency	Classification
CHINA-ROHS	Below maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
REACH-SVHC	Compliant as per SVHC revision on www.commscope.com/ProductCompliance
ROHS	Compliant
UK-ROHS	Compliant

* Footnotes

Insertion Loss Coefficient, typical 0.05/⁻freq (GHz) (not applicable for elliptical waveguide)

Immersion Depth

Immersion at specified depth for 24 hours

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