

# F4PDMV2-C



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

## Product Classification

<b>Brand</b>	HELIAX®
<b>Product Type</b>	Wireless and radiating connector

## General Specifications

<b>Interface</b>	7-16 DIN Male
<b>Body Style</b>	Straight
<b>Mounting Angle</b>	Straight
<b>Ordering Note</b>	CommScope® standard product (Global)

## Electrical Specifications

<b>Connector Impedance</b>	50 ohm
<b>Operating Frequency Band</b>	0 – 7500 MHz
<b>Cable Impedance</b>	50 ohm
<b>3rd Order IMD, typical</b>	-120 dBm @ 910 MHz
<b>3rd Order IMD Test Method</b>	Two +43 dBm carriers
<b>RF Operating Voltage, maximum (vrms)</b>	884.00 V
<b>dc Test Voltage</b>	2500 V
<b>Outer Contact Resistance, maximum</b>	1.50 mOhm
<b>Inner Contact Resistance, maximum</b>	0.80 mOhm
<b>Insulation Resistance, minimum</b>	5000 MOhm
<b>Average Power</b>	1.0 kW @ 900 MHz
<b>Peak Power, maximum</b>	15.60 kW
<b>Insertion Loss, typical</b>	0.05 dB
<b>Shielding Effectiveness</b>	-110 dB

## Mechanical Specifications

<b>Outer Contact Attachment Method</b>	Crush-flare
<b>Inner Contact Attachment Method</b>	Captivated
<b>Outer Contact Plating</b>	Trimetal
<b>Inner Contact Plating</b>	Silver

# F4PDMV2-C

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<b>Attachment Durability</b>	25 cycles
<b>Interface Durability</b>	500 cycles
<b>Interface Durability Method</b>	IEC 61169-4:9.5
<b>Connector Retention Tensile Force</b>	890 N   200 lbf
<b>Connector Retention Torque</b>	5.42 N-m   48.00 in lb
<b>Insertion Force</b>	200.17 N   45.00 lbf
<b>Insertion Force Method</b>	IEC 61169-1:15.2.4
<b>Pressurizable</b>	No
<b>Coupling Nut Proof Torque</b>	24.86 N-m   220.00 in lb
<b>Coupling Nut Retention Force</b>	1000.85 N   225.00 lbf
<b>Coupling Nut Retention Force Method</b>	MIL-C-39012C-3.25, 4.6.22

## Dimensions

<b>Nominal Size</b>	1/2 in
<b>Diameter</b>	34.54 mm   1.36 in
<b>Length</b>	50.01 mm   1.97 in
<b>Weight</b>	136.08 g   0.30 lb

## Environmental Specifications

<b>Operating Temperature</b>	-55 °C to +85 °C (-67 °F to +185 °F)
<b>Storage Temperature</b>	-55 °C to +85 °C (-67 °F to +185 °F)
<b>Immersion Depth</b>	1 m
<b>Immersion Test Mating</b>	Mated
<b>Immersion Test Method</b>	IEC 60529:2001, IP68
<b>Water Jetting Test Mating</b>	Mated
<b>Water Jetting Test Method</b>	IEC 60529:2001, IP66
<b>Moisture Resistance Test Method</b>	MIL-STD-202F, Method 106F
<b>Mechanical Shock Test Method</b>	MIL-STD-202F, Method 213B, Test Condition C
<b>Thermal Shock Test Method</b>	MIL-STD-202, Method 107, Test Condition A-1, Low Temperature -55 °C
<b>Vibration Test Method</b>	MIL-STD-202F, Method 204D, Test Condition B
<b>Corrosion Test Method</b>	MIL-STD-1344A, Method 1001.1, Test Condition A

## Standard Conditions

<b>Attenuation, Ambient Temperature</b>	20 °C   68 °F
<b>Average Power, Ambient Temperature</b>	40 °C   104 °F

## Return Loss/VSWR

<b>Frequency Band</b>	<b>VSWR</b>	<b>Return Loss (dB)</b>
0–2200 MHz	1.03	36.00

# F4PDMV2-C

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2200–2700 MHz	1.05	33.00
2700–3000 MHz	1.05	32.00

## Regulatory Compliance/Certifications

### Agency

RoHS 2011/65/EU  
China RoHS SJ/T 11364-2006  
ISO 9001:2015

### Classification

Compliant by Exemption  
Above Maximum Concentration Value (MCV)  
Designed, manufactured and/or distributed under this quality management system



## \* Footnotes

<b>Immersion Depth</b>	Immersion at specified depth for 24 hours
<b>Insertion Loss, typical</b>	0.05v̄freq (GHz) (not applicable for elliptical waveguide)