# Product Specifications

COMMSCOPE®

on the go

## F2PDF-C

**7-16 DIN Female for 3/8 in FSJ2-50 cable**

## General Specifications

| | |
|---|---|
| Interface | 7-16 DIN Female |
| Body Style | Straight |
| Brand | HELIAX® |
| Mounting Angle | Straight |

## Electrical Specifications

| | |
|---|---|
| Connector Impedance | 50 ohm |
| Operating Frequency Band | 0 – 6000 MHz |
| Cable Impedance | 50 ohm |
| 3rd Order IMD, typical | -112 dBm @ 910 MHz |
| 3rd Order IMD Test Method | Two +43 dBm carriers |
| RF Operating Voltage, maximum (vrms) | 813.00 V |
| dc Test Voltage | 2300 V |
| Outer Contact Resistance, maximum | 0.40 mOhm |
| Inner Contact Resistance, maximum | 1.50 mOhm |
| Insulation Resistance, minimum | 10000 MOhm |
| Average Power | 0.7 kW @ 900 MHz |
| Peak Power, maximum | 13.20 kW |
| Shielding Effectiveness | -110 dB |

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## Outline Drawing

## Mechanical Specifications

| | |
|---|---|
| Outer Contact Attachment Method | Compression |
| Inner Contact Attachment Method | Captivated |
| Outer Contact Plating | Silver |
| Inner Contact Plating | Silver |
| Interface Durability | 500 cycles |
| Interface Durability Method | IEC 61169-4:17 |
| Connector Retention Tensile Force | 670 N \| 151 lbf |
| Connector Retention Torque | 2.70 N-m \| 1.99 ft lb |
| Insertion Force | 889.64 N \| 200.00 lbf |
| Insertion Force Method | IEC 61169-16:9.3.5 |
| Pressurizable | No |
| Coupling Nut Proof Torque Method | IEC 61169-16:9.3.11 |
| Coupling Nut Retention Force | 1000.00 N \| 224.81 lbf |
| Coupling Nut Retention Force Method | IEC 61169-17:9.3.11 |

## Dimensions

| | |
|---|---|
| Nominal Size | 3/8 in |
| Diameter | 28.95 mm \| 1.14 in |
| Height | 28.95 mm \| 1.14 in |
| Length | 51.60 mm \| 2.03 in |
| Weight | 107.47 g \| 0.24 lb |
| Width | 28.95 mm \| 1.14 in |

## Environmental Specifications

| | |
|---|---|
| Operating Temperature | -55 °C to +85 °C (-67 °F to +185 °F) |
| Storage Temperature | -65 °C to +125 °C (-85 °F to +257 °F) |
| Immersion Depth | 1 m |
| Immersion Test Mating | Mated |
| Immersion Test Method | IEC 60529:2001, IP68 |
| Moisture Resistance Test Method | IEC 60068-2-3 |
| Mechanical Shock Test Method | IEC 60068-2-27 |
| Thermal Shock Test Method | IEC 60068-2-14 |
| Vibration Test Method | IEC 60068-2-6 |
| Corrosion Test Method | IEC 60068-2-11 |

## Standard Conditions

| | |
|---|---|
| Attenuation, Ambient Temperature | 20 °C \| 68 °F |
| Average Power, Ambient Temperature | 40 °C \| 104 °F |

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Average Power, Inner Conductor Temperature 100 °C | 212 °F

## Return Loss/VSWR

| Frequency Band | VSWR | Return Loss (dB) |
|---|---|---|
| 0–2000 MHz | 1.07 | 30.00 |

## Regulatory Compliance/Certifications

| Agency | Classification |
|---|---|
| RoHS 2002/95/EC | Compliant by Exemption |
| China RoHS SJ/T 11364-2006 | Above Maximum Concentration Value (MCV) |
| ISO 9001:2008 | Designed, manufactured and/or distributed under this quality management system |


## * Footnotes

| | |
|---|---|
| Immersion Depth | Immersion at specified depth for 24 hours |

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