F2A-PHMDR-6M

FSJ2-50 SureFlex® Jumper with interface types 4.3 -10 Male and 7-16 DIN Male Right Angle, 6 m

Product Classification

| Product Type | SureFlex® standard |
|------------------------------------|---------------------|
| Product Brand | HELIAX® SureFlex® |
| Product Series | FSJ2-50 |
| General Specifications | |
| Body Style, Connector A | Straight |
| Body Style, Connector B | Right angle |
| Interface, Connector A | 4.3-10 Male |
| Interface, Connector B | 7-16 DIN Male |
| Specification Sheet Revision Level | А |
| Dimensions | |
| Length | 6 m 19.685 ft |
| Nominal Size | 3/8 in |
| VSWR/Return Loss | |

| Frequency Band | VSWR | Return Loss (dB) |
|----------------|------|------------------|
| 700–3000 MHz | 1.44 | 15 |

Jumper Assembly Sample Label

Page 1 of 7



F2A-PHMDR-6M



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

FSJ2-50

FSJ2-50, HELIAX® Superflexible Foam Coaxial Cable, corrugated copper, 3/8 in, black PE jacket

Page 2 of 7

©2024 CommScope, Inc. All rights reserved. CommScope and the CommScope logo are registered trademarks of CommScope and/or its affiliates in the U.S. and other countries. For additional trademark information see https://www.commscope.com/trademarks. All product names, trademarks and registered trademarks are property of their respective owners. Revised: March 16, 2024

COMMSCOPE°



FSJ2-50, HELIAX® Superflexible Foam Coaxial Cable, corrugated copper, 3/8 in, black PE jacket

Coaxial wireless cable

FSJ2-50

Superflexible

7.112 mm | 0.28 in

2.794 mm | 0.11 in 9.652 mm | 0.38 in

10.541 mm | 0.415 in

Black

3/8 in

HELIAX® | SureFlex®

887019902/00 | SZ887019902/00

Attenuation values typical, guaranteed within 5%

Product Classification

Product Type Product Brand Product Series General Specifications Product Number Flexibility Jacket Color Performance Note Dimensions

Diameter Over Dielectric Diameter Over Jacket Inner Conductor OD Outer Conductor OD Nominal Size

Electrical Specifications

| Cable Impedance | 50 ohm ±1 ohm |
|--------------------------------|-------------------------------|
| Capacitance | 79.7 pF/m 24.293 pF/ft |
| dc Resistance, Inner Conductor | 4.232 ohms/km 1.29 ohms/kft |
| dc Resistance, Outer Conductor | 4.987 ohms/km 1.52 ohms/kft |
| dc Test Voltage | 2300 V |
| Inductance | 0.2 µH/m 0.061 µH/ft |

Page 3 of 7



| Insulation Resistance | 100000 MOhms-km |
|---------------------------------|-----------------|
| Jacket Spark Test Voltage (rms) | 4000 V |
| Operating Frequency Band | 1 – 13400 MHz |
| Peak Power | 13.2 kW |
| Velocity | 83 % |

VSWR/Return Loss

| Frequency Band | VSWR | Return Loss (dB) |
|----------------|-------|------------------|
| 2.5–2.7 GHz | 1.106 | 25.96 |
| 680–800 MHz | 1.106 | 25.96 |
| 800–960 MHz | 1.106 | 25.96 |
| 1700–2200 MHz | 1.101 | 26.36 |

Attenuation

| Frequency (MHz) | Attenuation (dB/100 m) | Attenuation (dB/100 ft) | Average Power (kW) |
|-----------------|------------------------|-------------------------|--------------------|
| 1.0 | 0.383 | 0.117 | 13.2 |
| 1.5 | 0.469 | 0.143 | 13.2 |
| 2.0 | 0.542 | 0.165 | 13.2 |
| 10.0 | 1.219 | 0.372 | 6.97 |
| 20.0 | 1.732 | 0.528 | 4.91 |
| 30.0 | 2.128 | 0.649 | 3.99 |
| 50.0 | 2.762 | 0.842 | 3.08 |
| 85.0 | 3.626 | 1.105 | 2.34 |
| 88.0 | 3.691 | 1.125 | 2.3 |
| 100.0 | 3.943 | 1.202 | 2.16 |
| 108.0 | 4.103 | 1.25 | 2.07 |
| 150.0 | 4.864 | 1.482 | 1.75 |
| 174.0 | 5.254 | 1.601 | 1.62 |
| 200.0 | 5.65 | 1.722 | 1.5 |
| 204.0 | 5.709 | 1.74 | 1.49 |
| 300.0 | 6.99 | 2.13 | 1.22 |
| 400.0 | 8.139 | 2.481 | 1.04 |
| 450.0 | 8.665 | 2.641 | 0.98 |
| 460.0 | 8.767 | 2.672 | 0.97 |
| 500.0 | 9.166 | 2.794 | 0.93 |

Page 4 of 7



| 512.0 | 9.283 | 2.829 | 0.92 |
|--------|--------|-------|------|
| 600.0 | 10.107 | 3.081 | 0.84 |
| 700.0 | 10.983 | 3.347 | 0.77 |
| 800.0 | 11.807 | 3.599 | 0.72 |
| 824.0 | 11.998 | 3.657 | 0.71 |
| 894.0 | 12.542 | 3.823 | 0.68 |
| 960.0 | 13.04 | 3.974 | 0.65 |
| 1000.0 | 13.334 | 4.064 | 0.64 |
| 1218.0 | 14.861 | 4.529 | 0.57 |
| 1250.0 | 15.075 | 4.595 | 0.56 |
| 1500.0 | 16.68 | 5.084 | 0.51 |
| 1700.0 | 17.887 | 5.452 | 0.48 |
| 1794.0 | 18.436 | 5.619 | 0.46 |
| 1800.0 | 18.47 | 5.629 | 0.46 |
| 2000.0 | 19.599 | 5.974 | 0.43 |
| 2100.0 | 20.147 | 6.141 | 0.42 |
| 2200.0 | 20.685 | 6.305 | 0.41 |
| 2300.0 | 21.214 | 6.466 | 0.4 |
| 2500.0 | 22.247 | 6.781 | 0.38 |
| 2700.0 | 23.249 | 7.086 | 0.37 |
| 3000.0 | 24.701 | 7.529 | 0.34 |
| 3400.0 | 26.558 | 8.094 | 0.32 |
| 3600.0 | 27.456 | 8.368 | 0.31 |
| 3700.0 | 27.899 | 8.503 | 0.3 |
| 3800.0 | 28.337 | 8.637 | 0.3 |
| 3900.0 | 28.771 | 8.769 | 0.3 |
| 4000.0 | 29.201 | 8.9 | 0.29 |
| 4100.0 | 29.628 | 9.03 | 0.29 |
| 4200.0 | 30.051 | 9.159 | 0.28 |
| 4300.0 | 30.47 | 9.287 | 0.28 |
| 4400.0 | 30.886 | 9.414 | 0.28 |
| 4500.0 | 31.298 | 9.539 | 0.27 |
| 4600.0 | 31.708 | 9.664 | 0.27 |
| 4700.0 | 32.114 | 9.788 | 0.26 |
| 4800.0 | 32.518 | 9.911 | 0.26 |
| | | | |

Page 5 of 7



| 4900.0 | 32.919 | 10.033 | 0.26 |
|---------|--------|--------|------|
| 5000.0 | 33.316 | 10.154 | 0.26 |
| 6000.0 | 37.158 | 11.325 | 0.23 |
| 8000.0 | 44.264 | 13.491 | 0.19 |
| 8800.0 | 46.943 | 14.308 | 0.18 |
| 10000.0 | 50.826 | 15.491 | 0.17 |
| 12000.0 | 57.001 | 17.373 | 0.15 |

Material Specifications

| Dielectric Material | Foam PE |
|--------------------------|---------------------------|
| Jacket Material | PE |
| Inner Conductor Material | Copper-clad aluminum wire |
| Outer Conductor Material | Corrugated copper |

Mechanical Specifications

| Minimum Bend Radius, multiple Bends | 25.4 mm 1 in |
|-------------------------------------|---------------------------|
| Minimum Bend Radius, single Bend | 25.4 mm 1 in |
| Number of Bends, minimum | 20 |
| Number of Bends, typical | 50 |
| Tensile Strength | 95 kg 209.439 lb |
| Bending Moment | 2.3 N-m 20.357 in lb |
| Flat Plate Crush Strength | 1.8 kg/mm 100.795 lb/in |

Environmental Specifications

| Installation temperature | -40 °C to +60 °C (-40 °F to +140 °F) |
|--|--------------------------------------|
| Operating Temperature | -55 °C to +85 °C (-67 °F to +185 °F) |
| Storage Temperature | -70 °C to +85 °C (-94 °F to +185 °F) |
| Attenuation, Ambient Temperature | 68 °F 20 °C |
| Average Power, Ambient Temperature | 104 °F 40 °C |
| Average Power, Inner Conductor Temperature | 212 °F 100 °C |
| | |

Packaging and Weights

Cable weight

0.12 kg/m | 0.081 lb/ft

Page 6 of 7



Regulatory Compliance/Certifications

Agency

Classification

CHINA-ROHS

Below maximum concentration value

ISO 9001:2015

ROHS

UK-ROHS



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

Page 7 of 7

