# F4S-HMDR-5M-P

RSJ4-50 SureFlex® Jumper with interface types 4.3-10 Male and 7-16 DIN Right Angle Male, 5 m

• WARNING: DO NOT MATE WITH 4.1-9.5 DIN

#### Product Classification

|      | SureFlex® Premium, static PIM |
|------|-------------------------------|
|      | HELIAX®   SureFlex®           |
|      | RSJ4-50                       |
|      |                               |
|      | Straight                      |
|      | Right angle                   |
|      | 4.3-10 Male                   |
|      | 7-16 DIN Male                 |
|      | А                             |
|      |                               |
|      | 5 m   16.404 ft               |
|      | 1/2 in                        |
|      |                               |
|      | -116 dBm                      |
|      | Two +43 dBm carriers          |
|      | 34 dB                         |
|      | 34 dB                         |
|      |                               |
| VSWR | Return Loss                   |
|      | VSWR                          |

| Frequency Band | VSWR  | Return Loss (dB) |
|----------------|-------|------------------|
| 698–960 MHz    | 1.083 | 27.99            |
| 1700–2200 MHz  | 1.083 | 27.99            |
| 2200–2700 MHz  | 1.135 | 23.98            |

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**COMMSCOPE**°

# F4S-HMDR-5M-P

## Jumper Assembly Sample Label



#### Environmental Specifications

Immersion Test Method

Meets IEC 60529:2001, IP68 in mated condition

### Regulatory Compliance/Certifications

| Agency        | Classification   |
|---------------|--|
| CHINA-ROHS    | Above 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/Exempted   |
| UK-ROHS       | Compliant/Exempted   |



#### Included Products

RSJ4-50

RSJ4-50, HELIAX® Superflexible Foam Coaxial Cable, corrugated copper, 1/2 in, black PE jacket

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RSJ4-50, HELIAX® Superflexible Foam Coaxial Cable, corrugated copper, 1/2 in, black PE jacket

### Product Classification

| Product Type                   | Coaxial wireless cable                           |
|--------------------------------|--|
| Product Brand                  | HELIAX®   SureFlex®                              |
| Product Series                 | RSJ4-50  |
| Ordering Note                  | CommScope® standard product (Global)             |
| General Specifications         |  |
| Flexibility                    | Superflexible                                    |
| Jacket Color                   | Black  |
| Performance Note               | Attenuation values typical, guaranteed within 5% |
| Dimensions                     |  |
| Diameter Over Dielectric       | 9.423 mm   0.371 in                              |
| Diameter Over Jacket           | 13.411 mm   0.528 in                             |
| Inner Conductor OD             | 3.594 mm   0.141 in                              |
| Outer Conductor OD             | 11.989 mm   0.472 in                             |
| Nominal Size                   | 1/2 in   |
| Electrical Specifications      |  |
| Cable Impedance                | 50 ohm ±1 ohm                                    |
| Capacitance                    | 83.9 pF/m   25.573 pF/ft                         |
| dc Resistance, Inner Conductor | 2.65 ohms/km   0.808 ohms/kft                    |
| dc Resistance, Outer Conductor | 4.56 ohms/km   1.39 ohms/kft                     |
| dc Test Voltage                | 2500 V   |

Inductance

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0.213 µH/m | 0.065 µH/ft



| Insulation Resistance           | 100000 MOhms-km |
|---------------------------------|-----------------|
| Jacket Spark Test Voltage (rms) | 5000 V          |
| Operating Frequency Band        | 1 – 10200 MHz   |
| Peak Power                      | 15.6 kW         |
| Velocity                        | 79 %            |

### VSWR/Return Loss

| Frequency Band | VSWR  | Return Loss (dB) |
|----------------|-------|------------------|
| 680-800 MHz    | 1.201 | 20.79            |
| 800–960 MHz    | 1.201 | 20.79            |
| 1700–2200 MHz  | 1.201 | 20.79            |
| 2300–2700 MHz  | 1.201 | 20.79            |

#### Attenuation

| Frequency (MHz) | Attenuation (dB/100 m) | Attenuation (dB/100 ft) | Average Power (kW) |
|-----------------|------------------------|-------------------------|--------------------|
| 1.0             | 0.327                  | 0.1                     | 15.6               |
| 1.5             | 0.401                  | 0.122                   | 15.6               |
| 2.0             | 0.463                  | 0.141                   | 15.6               |
| 10.0            | 1.044                  | 0.318                   | 10.14              |
| 20.0            | 1.485                  | 0.453                   | 7.12               |
| 30.0            | 1.828                  | 0.557                   | 5.79               |
| 50.0            | 2.377                  | 0.724                   | 4.45               |
| 85.0            | 3.13                   | 0.954                   | 3.38               |
| 88.0            | 3.187                  | 0.971                   | 3.32               |
| 100.0           | 3.406                  | 1.038                   | 3.11               |
| 108.0           | 3.546                  | 1.081                   | 2.98               |
| 150.0           | 4.214                  | 1.285                   | 2.51               |
| 174.0           | 4.558                  | 1.389                   | 2.32               |
| 200.0           | 4.908                  | 1.496                   | 2.16               |
| 204.0           | 4.96                   | 1.512                   | 2.13               |
| 300.0           | 6.095                  | 1.858                   | 1.74               |
| 400.0           | 7.121                  | 2.17                    | 1.49               |
| 450.0           | 7.592                  | 2.314                   | 1.39               |
| 460.0           | 7.684                  | 2.342                   | 1.38               |
| 500.0           | 8.042                  | 2.451                   | 1.32               |

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| 512.0  | 8.148  | 2.483 | 1.3  |
|--------|--------|-------|------|
| 600.0  | 8.891  | 2.71  | 1.19 |
| 700.0  | 9.683  | 2.951 | 1.09 |
| 800.0  | 10.431 | 3.179 | 1.01 |
| 824.0  | 10.605 | 3.232 | 1    |
| 894.0  | 11.101 | 3.383 | 0.95 |
| 960.0  | 11.555 | 3.522 | 0.92 |
| 1000.0 | 11.824 | 3.604 | 0.89 |
| 1218.0 | 13.226 | 4.031 | 0.8  |
| 1250.0 | 13.423 | 4.091 | 0.79 |
| 1500.0 | 14.906 | 4.543 | 0.71 |
| 1700.0 | 16.027 | 4.885 | 0.66 |
| 1794.0 | 16.537 | 5.04  | 0.64 |
| 1800.0 | 16.57  | 5.05  | 0.64 |
| 2000.0 | 17.624 | 5.371 | 0.6  |
| 2100.0 | 18.137 | 5.528 | 0.58 |
| 2200.0 | 18.641 | 5.682 | 0.57 |
| 2300.0 | 19.138 | 5.833 | 0.55 |
| 2500.0 | 20.11  | 6.129 | 0.53 |
| 2700.0 | 21.056 | 6.418 | 0.5  |
| 3000.0 | 22.432 | 6.837 | 0.47 |
| 3400.0 | 24.198 | 7.375 | 0.44 |
| 3600.0 | 25.055 | 7.636 | 0.42 |
| 3700.0 | 25.478 | 7.765 | 0.42 |
| 3800.0 | 25.898 | 7.893 | 0.41 |
| 3900.0 | 26.314 | 8.02  | 0.4  |
| 4000.0 | 26.727 | 8.146 | 0.4  |
| 4100.0 | 27.136 | 8.271 | 0.39 |
| 4200.0 | 27.542 | 8.394 | 0.38 |
| 4300.0 | 27.946 | 8.517 | 0.38 |
| 4400.0 | 28.346 | 8.639 | 0.37 |
| 4500.0 | 28.744 | 8.761 | 0.37 |
| 4600.0 | 29.139 | 8.881 | 0.36 |
| 4700.0 | 29.531 | 9.001 | 0.36 |
| 4800.0 | 29.921 | 9.119 | 0.35 |
|        |        |       |      |

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| 4900.0  | 30.308 | 9.238  | 0.35 |
|---------|--------|--------|------|
| 5000.0  | 30.693 | 9.355  | 0.34 |
| 6000.0  | 34.427 | 10.493 | 0.31 |
| 8000.0  | 41.403 | 12.619 | 0.26 |
| 8800.0  | 44.054 | 13.427 | 0.24 |
| 10000.0 | 47.914 | 14.603 | 0.22 |

### 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 | 31.75 mm   1.25 in      |
|-------------------------------------|-------------------------|
| Minimum Bend Radius, single Bend    | 31.75 mm   1.25 in      |
| Number of Bends, minimum            | 15                      |
| Number of Bends, typical            | 20                      |
| Tensile Strength                    | 79 kg   174.165 lb      |
| Bending Moment                      | 3.1 N-m   27.437 in lb  |
| Flat Plate Crush Strength           | 2 kg/mm   111.995 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                      |
| EN50575 CPR Cable EuroClass Fire Performance | Fca                                  |
| Dackaging and Migights                       |                                      |

#### Packaging and Weights

Cable weight

0.15 kg/m | 0.101 lb/ft

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### Regulatory Compliance/Certifications

#### Agency Classification

CENELECEN 50575 compliant, Declaration of Performance (DoP) availableISO 9001:2015Designed, manufactured and/or distributed under this quality management system

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