

F4S-HMDF-P

Base Product

HELIAX® 1/2" Superflexible SureFlex® Jumper with interface types 4.3-10 Male and 7-16 DIN Female



Product Classification

Product Type	Wireless transmission cable assembly
Product Brand	HELIAX® SureFlex®
Product Series	RSJ4-50

General Specifications

Body Style, Connector A	Straight
Body Style, Connector B	Straight
Interface, Connector A	4.3-10 Male
Interface, Connector B	7-16 DIN Female
Specification Sheet Revision Level	A

Dimensions

Cable Assembly Length Range (m)	0.5 – 10
Nominal Size	1/2 in

Electrical Specifications

3rd Order IMD Static	-116 dBm
3rd Order IMD Static Test Method	Two +43 dBm carriers
DTF, Connector A	34 dB
DTF, Connector B	34 dB

VSWR/Return Loss

Frequency Band	VSWR	Return Loss (dB)
698–960 MHz	1.065	30

F4S-HMDF-P

1700–2200 MHz	1.065	30
2200–2700 MHz	1.106	26

Jumper Assembly Sample Label



Environmental Specifications

Immersion Test Method Meets IEC 60529:2001, IP68 in mated condition

Included Products

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

RSJ4-50



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 \pm 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	0.213 μ H/m 0.065 μ H/ft

RSJ4-50

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

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

RSJ4-50

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

EN50575 CPR Cable EuroClass Fire Performance Fca

Packaging and Weights

Cable weight 0.15 kg/m | 0.101 lb/ft

Regulatory Compliance/Certifications

Agency

CENELEC

ISO 9001:2015



Classification

EN 50575 compliant, Declaration of Performance (DoP) available

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