### F1A-PNMNR-8

FSJ1-50A SureFlex® Jumper with interface types N Male and N Male Right Angle, 2.44 m

#### Product Classification

Product Type	SureFlex® standard
Product Brand	HELIAX®   SureFlex®
Product Series	FSJ1-50A
General Specifications	
Body Style, Connector A	Straight
Body Style, Connector B	Right angle
Interface, Connector A	N Male
Interface, Connector B	N Male
Specification Sheet Revision Level	А
Dimensions	
Length	2.44 m   8.005 ft
Nominal Size	1/4 in
VSWR/Return Loss	

Frequency Band	VSWR	Return Loss (dB)
700–3000 MHz	1.288	18

Jumper Assembly Sample Label

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### F1A-PNMNR-8



#### **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

35422-33	_	Heat Treated FSJ1-50A, HELIAX® Superflexible Low Density Foam Coaxial Cable, corrugated copper, 1/4 in, black PE Jacket
35422-75	-	Heat Treated FSJ1RK-50B, HELIAX® Superflexible Foam Coaxial Cable, corrugated copper, 1/4 in, black non-halogenated, fire retardant polyolefin jacket
FSJ1-50A	-	FSJ1-50A, HELIAX® Superflexible Low Density Foam Coaxial Cable, corrugated copper, 1/4 in, black PE jacket
FSJ1RK-50A	-	FSJ1-50A, HELIAX® Superflexible Foam Coaxial Cable, corrugated copper, 1/4 in, black non- halogenated, fire retardant polyolefin jacket, B2ca s1a dO a1 Compliant

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Heat Treated FSJ1-50A, HELIAX® Superflexible Low Density Foam Coaxial Cable, corrugated copper, 1/4 in, black PE Jacket

#### Product Classification

Product Type Coaxial wireless cable **Product Brand HELIAX® Product Series** FSJ1-50A General Specifications Flexibility Superflexible Jacket Color Black Performance Note Attenuation values typical, guaranteed within 5% Dimensions **Diameter Over Dielectric** 4.826 mm | 0.19 in **Diameter Over Jacket** 7.366 mm | 0.29 in **Inner Conductor OD** 1.905 mm | 0.075 in **Outer Conductor OD** 6.35 mm | 0.25 in **Nominal Size** 1/4 in **Electrical Specifications Cable Impedance** 50 ohm ±1 ohm 79.4 pF/m | 24.201 pF/ft Capacitance 9.843 ohms/km | 3 ohms/kft dc Resistance, Inner Conductor dc Resistance, Outer Conductor 6.562 ohms/km | 2 ohms/kft dc Test Voltage 1600 V Inductance 0.2 µH/m | 0.061 µH/ft

Insulation Resistance

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100000 MOhms-km



Jacket Spark Test Voltage (rms)	5000 V
Operating Frequency Band	1 – 18000 MHz
Peak Power	6.4 kW
Velocity	82 %

#### VSWR/Return Loss

Frequency Band	VSWR	Return Loss (dB)
680–960 MHz	1.201	20.79
1700–2200 MHz	1.201	20.79
2200–2700 MHz	1.433	14.99

#### Attenuation

Frequency (MHz)	Attenuation (dB/100 m)	Attenuation (dB/100 ft)
0.5	0.407	0.124
1.0	0.577	0.176
1.5	0.707	0.215
2.0	0.816	0.249
10.0	1.833	0.559
20.0	2.6	0.792
30.0	3.192	0.973
50.0	4.136	1.261
85.0	5.419	1.652
88.0	5.516	1.681
100.0	5.889	1.795
108.0	6.12	1.867
150.0	7.25	2.21
174.0	7.825	2.385
200.0	8.408	2.563
204.0	8.495	2.589
300.0	10.373	3.162
400.0	12.051	3.673
450.0	12.817	3.906
500.0	13.545	4.128
512.0	13.715	4.18
600.0	14.909	4.544

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700.0	16.175	4.93	
800.0	17.362	5.292	
824.0	17.637	5.376	
894.0	18.42	5.614	
960.0	19.134	5.832	
1000.0	19.556	5.96	
1218.0	21.738	6.626	
1250.0	22.044	6.719	
1500.0	24.326	7.414	
1700.0	26.038	7.936	
1794.0	26.813	8.172	
1800.0	26.862	8.187	
2000.0	28.455	8.673	
2100.0	29.227	8.908	
2200.0	29.984	9.139	
2300.0	30.727	9.365	
2500.0	32.174	9.806	
2700.0	33.576	10.233	
3000.0	35.602	10.851	
3400.0	38.183	11.638	
3700.0	40.041	12.204	
4000.0	41.841	12.753	
5000.0	47.5	14.477	
6000.0	52.747	16.077	
8000.0	62.37	19.01	
8800.0	65.974	20.108	
10000.0	71.173	21.693	
12000.0	79.393	24.198	
14000.0	87.172	26.569	
15800.0	93.872	28.611	
16000.0	94.601	28.833	
18000.0	101.745	31.01	
Material Specifications			

#### **Dielectric Material Jacket Material**

Foam PE

ΡE

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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	15	
Number of Bends, typical	20	
Tensile Strength	68 kg   149.914 lb	
Bending Moment	1.1 N-m   9.736 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

0.07 kg/m | 0.047 lb/ft

#### Regulatory Compliance/Certifications

#### Agency

#### Classification

ISO 9001:2015 UL/ETL Certification Designed, manufactured and/or distributed under this quality management system Compliant



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Heat Treated FSJ1RK-50B, HELIAX® Superflexible Foam Coaxial Cable, corrugated copper, 1/4 in, black non-halogenated, fire retardant polyolefin jacket

#### Product Classification

Product Type Coaxial wireless cable **Product Brand HELIAX® Product Series** FSJ1-50B General Specifications Flexibility Superflexible Jacket Color Black Performance Note Attenuation values typical, guaranteed within 5% Dimensions **Diameter Over Dielectric** 4.826 mm | 0.19 in **Diameter Over Jacket** 7.62 mm | 0.3 in **Inner Conductor OD** 1.905 mm | 0.075 in **Outer Conductor OD** 6.35 mm | 0.25 in **Nominal Size** 1/4 in **Electrical Specifications Cable Impedance** 50 ohm ±1 ohm 79.4 pF/m | 24.201 pF/ft Capacitance 9.843 ohms/km | 3 ohms/kft dc Resistance, Inner Conductor dc Resistance, Outer Conductor 6.562 ohms/km | 2 ohms/kft dc Test Voltage 1600 V Inductance 0.2 µH/m | 0.061 µH/ft **Insulation Resistance** 100000 MOhms-km

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Jacket Spark Test Voltage (rms)	4000 V
Operating Frequency Band	1 – 18000 MHz
Peak Power	6.4 kW
Velocity	82 %

#### VSWR/Return Loss

Frequency Band	VSWR	Return Loss (dB)
680–960 MHz	1.201	20.79
1700–2200 MHz	1.201	20.79
2200–2700 MHz	1.433	14.99

#### Attenuation

Frequency (MHz)	Attenuation (dB/100 m)	Attenuation (dB/100 ft)	Average Power (kW)
1.0	0.577	0.176	6.4
1.5	0.707	0.215	6.4
2.0	0.816	0.249	6.4
10.0	1.833	0.559	3.99
20.0	2.6	0.792	2.81
30.0	3.192	0.973	2.29
50.0	4.136	1.261	1.77
85.0	5.419	1.652	1.35
88.0	5.516	1.681	1.33
100.0	5.889	1.795	1.24
108.0	6.125	1.867	1.19
150.0	7.25	2.21	1.01
174.0	7.825	2.385	0.93
200.0	8.408	2.563	0.87
204.0	8.495	2.589	0.86
300.0	10.373	3.162	0.71
400.0	12.051	3.673	0.61
450.0	12.817	3.906	0.57
460.0	12.965	3.952	0.56
500.0	13.545	4.128	0.54
512.0	13.715	4.18	0.53
600.0	14.909	4.544	0.49

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700.0	16.175	4.93	0.45
800.0	17.362	5.292	0.42
824.0	17.637	5.376	0.41
894.0	18.42	5.614	0.4
960.0	19.134	5.832	0.38
1000.0	19.556	5.96	0.37
1218.0	21.738	6.626	0.34
1250.0	22.044	6.719	0.33
1500.0	24.326	7.414	0.3
1700.0	26.038	7.936	0.28
1794.0	26.813	8.172	0.27
1800.0	26.862	8.187	0.27
2000.0	28.455	8.673	0.26
2100.0	29.227	8.908	0.25
2200.0	29.984	9.139	0.24
2300.0	30.727	9.365	0.24
2500.0	32.174	9.806	0.23
2700.0	33.576	10.233	0.22
3000.0	35.602	10.851	0.21
3400.0	38.183	11.638	0.19
3600.0	39.428	12.017	0.19
3700.0	40.041	12.204	0.18
3800.0	40.647	12.389	0.18
3900.0	41.247	12.571	0.18
4000.0	41.841	12.753	0.17
4100.0	42.429	12.932	0.17
4200.0	43.012	13.11	0.17
4300.0	43.59	13.286	0.17
4400.0	44.163	13.46	0.17
4500.0	44.73	13.633	0.16
4600.0	45.293	13.805	0.16
4700.0	45.852	13.975	0.16
4800.0	46.405	14.144	0.16
4900.0	46.955	14.311	0.16
5000.0	47.5	14.477	0.15

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6000.0	52.747	16.077	0.14
8000.0	62.37	19.01	0.12
8800.0	65.974	20.108	0.11
10000.0	71.173	21.693	0.1
12000.0	79.393	24.198	0.09
14000.0	87.172	26.569	0.08
15800.0	93.872	28.611	0.08
16000.0	94.601	28.833	0.08
18000.0	101.745	31.01	0.07

#### Material Specifications

Dielectric Material	Foam PE
Jacket Material	Non-halogenated, fire retardant polyolefin
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	15
Number of Bends, typical	20
Tensile Strength	68 kg   149.914 lb
Bending Moment	1.1 N-m   9.736 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	-40 °C to +60 °C (-40 °F to +140 °F)
Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °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
Fire Retardancy Test Method	UL 1666/CATVR/CMR
Smoke Index Test Method	IEC 61034

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**Toxicity Index Test Method** 

IEC 60754-1 | IEC 60754-2

#### Packaging and Weights

Cable weight

0.07 kg/m | 0.047 lb/ft

#### Regulatory Compliance/Certifications

#### Agency

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

ISO 9001:2015

UL/ETL Certification



Compliant

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FSJ1-50A, HELIAX® Superflexible Low Density Foam Coaxial Cable, corrugated copper, 1/4 in, black PE jacket

#### Product Classification

Product Type Coaxial wireless cable **Product Brand** HELIAX® | SureFlex® **Product Series** FSJ1-50A | MLOC General Specifications 887009902/00 | SZ887009902/00 **Product Number** Flexibility Superflexible Jacket Color Black Performance Note Attenuation values typical, guaranteed within 5% Dimensions **Diameter Over Dielectric** 4.826 mm | 0.19 in **Diameter Over Jacket** 7.366 mm | 0.29 in **Inner Conductor OD** 1.905 mm | 0.075 in **Outer Conductor OD** 6.35 mm | 0.25 in **Nominal Size** 1/4 in **Electrical Specifications Cable Impedance** 50 ohm ±1 ohm 79.4 pF/m | 24.201 pF/ft Capacitance dc Resistance, Inner Conductor 9.843 ohms/km | 3 ohms/kft dc Resistance, Outer Conductor 7.216 ohms/km | 2.199 ohms/kft

Inductance

dc Test Voltage

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1600 V

0.2 µH/m | 0.061 µH/ft



Insulation Resistance	100000 MOhms-km
Jacket Spark Test Voltage (rms)	5000 V
Operating Frequency Band	1 – 18000 MHz
Peak Power	6.4 kW
Velocity	82 %

### VSWR/Return Loss

Frequency Band	VSWR	Return Loss (dB)
680–960 MHz	1.201	20.8
1700–2200 MHz	1.201	20.8
2200–2700 MHz	1.433	15

#### Attenuation

Frequency (MHz)	Attenuation (dB/100 m)	Attenuation (dB/100 ft)	Average Power (kW)
1.0	0.577	0.176	6.4
1.5	0.707	0.215	6.4
2.0	0.816	0.249	6.4
10.0	1.833	0.559	3.99
20.0	2.6	0.792	2.81
30.0	3.192	0.973	2.29
50.0	4.136	1.261	1.77
85.0	5.419	1.652	1.35
88.0	5.516	1.681	1.33
100.0	5.889	1.795	1.24
108.0	6.125	1.867	1.19
150.0	7.25	2.21	1.01
174.0	7.825	2.385	0.93
200.0	8.408	2.563	0.87
204.0	8.495	2.589	0.86
300.0	10.373	3.162	0.71
400.0	12.051	3.673	0.61
450.0	12.817	3.906	0.57
460.0	12.965	3.952	0.56
500.0	13.545	4.128	0.54
512.0	13.715	4.18	0.53

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600.0	14.909	4.544	0.49
700.0	16.175	4.93	0.45
800.0	17.362	5.292	0.42
824.0	17.637	5.376	0.41
894.0	18.42	5.614	0.4
960.0	19.134	5.832	0.38
1000.0	19.556	5.96	0.37
1218.0	21.738	6.626	0.34
1250.0	22.044	6.719	0.33
1500.0	24.326	7.414	0.3
1700.0	26.038	7.936	0.28
1794.0	26.813	8.172	0.27
1800.0	26.862	8.187	0.27
2000.0	28.455	8.673	0.26
2100.0	29.227	8.908	0.25
2200.0	29.984	9.139	0.24
2300.0	30.727	9.365	0.24
2500.0	32.174	9.806	0.23
2700.0	33.576	10.233	0.22
3000.0	35.602	10.851	0.21
3400.0	38.183	11.638	0.19
3600.0	39.428	12.017	0.19
3700.0	40.041	12.204	0.18
3800.0	40.647	12.389	0.18
3900.0	41.247	12.571	0.18
4000.0	41.841	12.753	0.17
4100.0	42.429	12.932	0.17
4200.0	43.012	13.11	0.17
4300.0	43.59	13.286	0.17
4400.0	44.163	13.46	0.17
4500.0	44.73	13.633	0.16
4600.0	45.293	13.805	0.16
4700.0	45.852	13.975	0.16
4800.0	46.405	14.144	0.16
4900.0	46.955	14.311	0.16

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5000.0	47.5	14.477	0.15
6000.0	52.747	16.077	0.14
8000.0	62.37	19.01	0.12
8800.0	65.974	20.108	0.11
10000.0	71.173	21.693	0.1
12000.0	79.393	24.198	0.09
14000.0	87.172	26.569	0.08
15800.0	93.872	28.611	0.08
16000.0	94.601	28.833	0.08
18000.0	101.745	31.01	0.07

#### 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	15
Number of Bends, typical	20
Tensile Strength	68 kg   149.914 lb
Bending Moment	0.7 N-m   6.196 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

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### Packaging and Weights

#### Cable weight

0.07 kg/m | 0.047 lb/ft

#### Regulatory Compliance/Certifications

Agency	Classification
CHINA-ROHS	Below 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
UK-ROHS	Compliant
UL/ETL Certification	Compliant



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FSJ1-50A, HELIAX® Superflexible Foam Coaxial Cable, corrugated copper, 1/4 in, black nonhalogenated, fire retardant polyolefin jacket, B2ca s1a dO a1 Compliant

#### Product Classification **Product Type** Coaxial wireless cable **Product Brand** HELIAX® | SureFlex® **Product Series** FSJ1-50A | MLOC General Specifications Flexibility Superflexible **Jacket Color** Black Performance Note Attenuation values typical, guaranteed within 5% Dimensions **Diameter Over Dielectric** 4.826 mm | 0.19 in **Diameter Over Jacket** 7.62 mm | 0.3 in **Inner Conductor OD** 1.905 mm | 0.075 in **Outer Conductor OD** 6.35 mm | 0.25 in **Nominal Size** 1/4 in **Electrical Specifications** 50 ohm ±1 ohm **Cable Impedance** Capacitance 79.4 pF/m | 24.201 pF/ft dc Resistance, Inner Conductor 9.843 ohms/km | 3 ohms/kft 7.216 ohms/km | 2.199 ohms/kft dc Resistance, Outer Conductor dc Test Voltage 1600 V

dc Resistance, Outer Conductor dc Test Voltage Inductance Insulation Resistance Jacket Spark Test Voltage (rms) Operating Frequency Band Peak Power Velocity

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0.2 µH/m | 0.061 µH/ft

100000 MOhms-km

1 - 18000 MHz

4000 V

6.4 kW 82 %



#### VSWR/Return Loss

Frequency Band	VSWR	Return Loss (dB)
680–960 MHz	1.201	20.79
1700–2200 MHz	1.201	20.79
2200–2700 MHz	1.433	14.99

#### Attenuation

Frequency (MHz)	Attenuation (dB/100 m)	Attenuation (dB/100 ft)	Average Power (kW)
1.0	0.577	0.176	6.4
1.5	0.707	0.215	6.4
2.0	0.816	0.249	6.4
10.0	1.833	0.559	3.99
20.0	2.6	0.792	2.81
30.0	3.192	0.973	2.29
50.0	4.136	1.261	1.77
85.0	5.419	1.652	1.35
88.0	5.516	1.681	1.33
100.0	5.889	1.795	1.24
108.0	6.125	1.867	1.19
150.0	7.25	2.21	1.01
174.0	7.825	2.385	0.93
200.0	8.408	2.563	0.87
204.0	8.495	2.589	0.86
300.0	10.373	3.162	0.71
400.0	12.051	3.673	0.61
450.0	12.817	3.906	0.57
460.0	12.965	3.952	0.56
500.0	13.545	4.128	0.54
512.0	13.715	4.18	0.53
600.0	14.909	4.544	0.49
700.0	16.175	4.93	0.45
800.0	17.362	5.292	0.42
824.0	17.637	5.376	0.41

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# FSJ1RK-50A

894.0	18.42	5.614	0.4
960.0	19.134	5.832	0.38
1000.0	19.556	5.96	0.37
1218.0	21.738	6.626	0.34
1250.0	22.044	6.719	0.33
1500.0	24.326	7.414	0.3
1700.0	26.038	7.936	0.28
1794.0	26.813	8.172	0.27
1800.0	26.862	8.187	0.27
2000.0	28.455	8.673	0.26
2100.0	29.227	8.908	0.25
2200.0	29.984	9.139	0.24
2300.0	30.727	9.365	0.24
2500.0	32.174	9.806	0.23
2700.0	33.576	10.233	0.22
3000.0	35.602	10.851	0.21
3400.0	38.183	11.638	0.19
3600.0	39.428	12.017	0.19
3700.0	40.041	12.204	0.18
3800.0	40.647	12.389	0.18
3900.0	41.247	12.571	0.18
4000.0	41.841	12.753	0.17
4100.0	42.429	12.932	0.17
4200.0	43.012	13.11	0.17
4300.0	43.59	13.286	0.17
4400.0	44.163	13.46	0.17
4500.0	44.73	13.633	0.16
4600.0	45.293	13.805	0.16
4700.0	45.852	13.975	0.16
4800.0	46.405	14.144	0.16
4900.0	46.955	14.311	0.16
5000.0	47.5	14.477	0.15
6000.0	52.747	16.077	0.14
8000.0	62.37	19.01	0.12
8800.0	65.974	20.108	0.11

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# FSJ1RK-50A

10000.0	71.173	21.693	0.1
12000.0	79.393	24.198	0.09
14000.0	87.172	26.569	0.08
15800.0	93.872	28.611	0.08
16000.0	94.601	28.833	0.08
18000.0	101.745	31.01	0.07

### Material Specifications

Dielectric Material	Foam PE
Jacket Material	Non-halogenated, fire retardant polyolefin
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	15
Number of Bends, typical	20
Tensile Strength	68 kg   149.914 lb
Bending Moment	0.7 N-m   6.196 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	-40 °C to +60 °C (-40 °F to +140 °F)
Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °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	B2ca
EN50575 CPR Cable EuroClass Smoke Rating	sla
EN50575 CPR Cable EuroClass Droplets Rating	d0
EN50575 CPR Cable EuroClass Acidity Rating	al

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Fire Retardancy Test Meth		IEC 60332-1-2   IEC 60332-3-24   NFPA 130-2010   UL 1666/CATVR /CMR   UL 1685	
Smoke Index Test Method IEC 61034		IEC 61034	
Toxicity Index Test Method	ł	IEC 60754-1   IEC 60754-2	
Packaging and W	/eights		
Cable weight		0.07 kg/m   0.047 lb/ft	
Regulatory Compliance/Certifications			
Agency	Classification		
CENELEC	EN 50575 compliant, Declaration of Performance (DoP) available		
CHINA-ROHS	Below maximum concentration value		
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system		
REACH-SVHC	VHC Compliant as per SVHC revision on www.commscope.com/ProductCompliance		
ROHS	Compliant		
UK-ROHS	Compliant		
UL/ETL Certification	Compliant		
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