# F1A-PNMNF-2

FSJ1-50A SureFlex® Jumper with interface types N Male and N Female,

### 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	Straight
Interface, Connector A	N Male
Interface, Connector B	N Female
Specification Sheet Revision Level	А
Dimensions	
Length	0.61 m   2.001 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

ANDREW an Amphenol company

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# F1A-PNMNF-2



### **Environmental Specifications**

**Immersion Test Method** 

Meets IEC 60529:2001, IP68 in mated condition

### Regulatory Compliance/Certifications

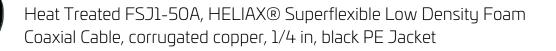
Agency	Classification
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
Included Product	S

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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### 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
Capacitance	79.4 pF/m   24.201 pF/ft
dc Resistance, Inner Conductor	9.843 ohms/km   3 ohms/kft

Capacitance	79.4 pF/m   24.201 pF/ft
dc Resistance, Inner Conductor	9.843 ohms/km   3 ohms/kft
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
Jacket Spark Test Voltage (rms)	5000 V
Operating Frequency Band	1 – 18000 MHz
Peak Power	6.4 kW

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#### 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
700.0	16.175	4.93
800.0	17.362	5.292
824.0	17.637	5.376

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# <u>35422</u>-33

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

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## 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

#### Classification

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

**@**\

Agency

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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
Capacitance	79.4 pF/m   24.201 pF/ft
dc Resistance, Inner Conductor	9.843 ohms/km   3 ohms/kft
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
Jacket Spark Test Voltage (rms)	4000 V
Operating Frequency Band	1 – 18000 MHz
Peak Power	6.4 kW

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#### 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
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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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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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
Toxicity Index Test Method	IEC 60754-1   IEC 60754-2

## Packaging and Weights

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#### 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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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	
Product Number	887009902/00   SZ887009902/00
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
Capacitance	79.4 pF/m   24.201 pF/ft
dc Resistance, Inner Conductor	9.843 ohms/km   3 ohms/kft
dc Resistance, Outer Conductor	7.216 ohms/km   2.199 ohms/kft
dc Test Voltage	1600 V
Inductance	0.2 μH/m   0.061 μH/ft
Insulation Resistance	100000 MOhms-km
Jacket Spark Test Voltage (rms)	5000 V

**Operating Frequency Band** 

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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
600.0	14.909	4.544	0.49
700.0	16.175	4.93	0.45
800.0	17.362	5.292	0.42

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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
6000.0	52.747	16.077	0.14
8000.0	62.37	19.01	0.12

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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
Average Power, Ambient Temperature	104 °F   40 °C

## Packaging and Weights

Cable weight

0.07 kg/m | 0.047 lb/ft



## Regulatory Compliance/Certifications

#### Agency

#### Classification

CHINA-ROHS ISO 9001:2015 **REACH-SVHC** ROHS Compliant **UK-ROHS** Compliant

**UL/ETL** Certification



Below maximum concentration value Designed, manufactured and/or distributed under this quality management system Compliant as per SVHC revision on www.andrew.com/ProductCompliance 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** Cable Impedance 50 ohm ±1 ohm 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 0.2 µH/m | 0.061 µH/ft

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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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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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	s1a
EN50575 CPR Cable EuroClass Droplets Rating	d0
EN50575 CPR Cable EuroClass Acidity Rating	al

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Fire Retardancy Test Meth	od	IEC 60332-1-2   IEC 60332-3-24   NFPA 130-2010   UL 1666/CATVR /CMR   UL 1685
Smoke Index Test Method		IEC 61034
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	
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	Compliant as per SVHC revision on www.andrew.com/ProductCompliance	
ROHS	Compliant	
UK-ROHS	Compliant	
UL/ETL Certification	Compliant	

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