F4RNA-PNMNM-5M

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	N Male
Interface, Connector B	N Male
Specification Sheet Revision Level	А
Dimensions	
Length	5 m 16.404 ft
Nominal Size	1/2 in
Electrical Specifications	
DTF, Connector A	-32 dB
DTF, Connector B	-32 dB

Jumper Assembly Sample Label

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Environmental Specifications

EN50575 CPR Cable EuroClass Fire Performance	B2ca
EN50575 CPR Cable EuroClass Smoke Rating	s1a
EN50575 CPR Cable EuroClass Droplets Rating	d1
EN50575 CPR Cable EuroClass Acidity Rating	al
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

FSJ4RK-50B

FSJ4RK-50B, HELIAX® Superflexible Foam Coaxial Cable, corrugated copper, 1/2 in, black nonhalogenated, fire retardant polyolefin jacket B2ca-s1a-d1-a1 (CPR testing is conducted annually please reference the website for latest classification)



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FSJ4RK-50B, HELIAX® Superflexible Foam Coaxial Cable, corrugated copper, 1/2 in, black non-halogenated, fire retardant polyolefin jacket B2ca-sla-dl-al (CPR testing is conducted annually please reference the website for latest classification)

Product Classification

Coaxial wireless cable
HELIAX® SureFlex®
FSJ4-50B
ANDREW® standard product in Asia Pacific
520094502/00 SZ520094502/00
Superflexible
Black
Attenuation values typical, guaranteed within 5%
8.89 mm 0.35 in
13.462 mm 0.53 in
3.556 mm 0.14 in
12.192 mm 0.48 in
1/2 in
50 ohm ±1 ohm
82.7 pF/m 25.207 pF/ft
2.69 ohms/km 0.82 ohms/kft
5.12 ohms/km 1.561 ohms/kft
2500 V
0.207 μH/m 0.063 μH/ft
100000 MOhms-km
4000 V

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Operating Frequency Band	1 – 10200 MHz
Peak Power	22.5 kW
Velocity	81 %

VSWR/Return Loss

Frequency Band	VSWR	Return Loss (dB)
680–800 MHz	1.201	20.8
800–960 MHz	1.201	20.8
1700–2200 MHz	1.201	20.8
2300–2700 MHz	1.201	20.8

Attenuation

Frequency (MHz)	Attenuation (dB/100 m)	Attenuation (dB/100 ft)	Average Power (kW)
1.0	0.327	0.1	22.5
1.5	0.401	0.122	22.5
2.0	0.463	0.141	22.5
10.0	1.044	0.318	10.12
20.0	1.485	0.453	7.11
30.0	1.828	0.557	5.78
50.0	2.377	0.724	4.44
85.0	3.13	0.954	3.38
88.0	3.187	0.971	3.32
100.0	3.406	1.038	3.1
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	2.15
204.0	4.96	1.512	2.13
300.0	6.095	1.858	1.73
400.0	7.121	2.17	1.48
450.0	7.592	2.314	1.39
460.0	7.684	2.342	1.37
500.0	8.042	2.451	1.31
512.0	8.148	2.483	1.3
600.0	8.891	2.71	1.19

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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	0.91
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	0.41
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
4900.0	30.308	9.238	0.35
5000.0	30.693	9.355	0.34



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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	Non-halogenated, fire retardant polyolefin
Inner Conductor Material	Copper-clad aluminum wire
Outer Conductor Material	Corrugated copper

Mechanical Specifications

Minimum Bend Radius, single Bend31.75 mm 1.25 inNumber of Bends, minimum30Number of Bends, typical50Tensile Strength79 kg 174.165 lbBending Moment2.7 N-m 23.897 in lbFlat Plate Crush Strength2 kg/mm 11.995 lb/in	Minimum Bend Radius, multiple Bends	31.75 mm 1.25 in
Number of Bends, typical50Tensile Strength79 kg 174.165 lbBending Moment2.7 N-m 23.897 in lb	Minimum Bend Radius, single Bend	31.75 mm 1.25 in
Tensile Strength 79 kg 174.165 lb Bending Moment 2.7 N-m 23.897 in lb	Number of Bends, minimum	30
Bending Moment 2.7 N-m 23.897 in lb	Number of Bends, typical	50
	Tensile Strength	79 kg 174.165 lb
Flat Plate Crush Strength2 kg/mm 111.995 lb/in	Bending Moment	2.7 N-m 23.897 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	-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	d1
EN50575 CPR Cable EuroClass Acidity Rating	al
Fire Retardancy Test Method	IEC 60332-1-2 NFPA 130-2010 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

0.24 kg/m | 0.161 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	CATVR/CMR
	(h)





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