



<http://www.commscope.com/Membership/MyProfile.aspx> | [Login \(http://www.commscope.com/membership/default.aspx\)](http://www.commscope.com/membership/default.aspx) | [Translate](#)  
[Specifications \(product\\_details.aspx?id=24911\)](http://www.commscope.com/product_details.aspx?id=24911)  
**COMMSCOPE®** [\(http://www.commscope.com/\)](http://www.commscope.com/)  
[Related Products \(product\\_details.aspx?id=24911&tab=2\)](http://www.commscope.com/product_details.aspx?id=24911&tab=2)    
[Search Tips for product codes](#)  
[Documents/Tools \(product\\_details.aspx?id=24911&tab=3\)](http://www.commscope.com/product_details.aspx?id=24911&tab=3)  




[\(/catalog/imagesCache/0000011/t006\\_r05889\\_v4.jpg\)](/catalog/imagesCache/0000011/t006_r05889_v4.jpg)

 **[\(addtoproject.aspx?id=24911&company=andrew\)AVA5-50](#)**

AVA5-50, HELIAX® Andrew Virtual Air™ Coaxial Cable, corrugated copper, 7/8 in, black PE jacket

Obsolete

Replaced By:

<a href="http://www.commscope.com/product_details.aspx?id=45838">AVA5-50FX (product_details.aspx?id=45838)</a>	AVA5-50FX, HELIAX® Andrew Virtual Air™ Coaxial Cable, corrugated copper, 7/8 in, black PE jacket
----------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------

Construction Materials	
Jacket Material	PE
Outer Conductor Material	Corrugated copper
Dielectric Material	Foam PE
Flexibility	Standard

<a href="#">Specifications (product details.aspx?id=24911)</a>	
Material	
<a href="#">Related Products (product details.aspx?id=24911&amp;tab=2)</a>	
Jacket Color	Black
<a href="#">Documents/Tools (product details.aspx?id=24911&amp;tab=3)</a>	

**Dimensions**

Nominal Size	7/8 in
Cable Weight	0.30 lb/ft   0.45 kg/m
Diameter Over Dielectric	24.130 mm   0.950 in
Diameter Over Jacket	27.991 mm   1.102 in
Inner Conductor OD	9.4488 mm   0.3720 in
Outer Conductor OD	25.400 mm   1.000 in

**Electrical Specifications**

Cable Impedance	50 ohm ±1 ohm
Capacitance	22.0 pF/ft   73.0 pF/m
dc Resistance, Inner Conductor	0.410 ohms/kft   1.435 ohms/km
dc Resistance, Outer Conductor	0.340 ohms/kft   1.116 ohms/km
dc Test Voltage	6000 V
Inductance	0.184 µH/m   0.056 µH/ft
Insulation Resistance	100000 Mohms•km
Jacket Spark Test Voltage (rms)	8000 V
Operating Frequency Band	1 - 5000 MHz

[Packaging \(product\\_details.aspx?id=24911\)](#)

[Related Products \(product\\_details.aspx?id=24911&tab=2\)](#)

[Documents/Tools \(product\\_details.aspx?id=24911&tab=3\)](#)

**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)

**General Specifications**

Brand	HELIAX®
-------	---------

**Mechanical Specifications**

Bending Moment	19.0 N-m   14.0 ft lb
Flat Plate Crush Strength	75.0 lb/in
Minimum Bend Radius, Multiple Bends	254.00 mm   10.00 in
Minimum Bend Radius, Single Bend	127.00 mm   5.00 in
Number of Bends, minimum	15
Number of Bends, typical	30
Tensile Strength	159 kg   350 lb

**Note**

[Performance Data](#) [Product Details](#) [Values typical unless otherwise stated](#)

[Related Products \(product\\_details.aspx?id=24911&tab=2\)](#)

**Standard Conditions** [product\\_details.aspx?id=24911&tab=3\)](#)

Attenuation, Ambient Temperature	20 °C   68 °F
Average Power, Ambient Temperature	40 °C   104 °F
Average Power, Inner Conductor Temperature	100 °C   212 °F

**Return Loss/VSWR**

Frequency Band	VSWR	Return Loss (dB)
806-960 MHz	1.13	24.30
1700-2170 MHz	1.13	24.30

**Attenuation**

Enter a specific frequency to view its attenuation:

**Attenuation**

Frequency (MHz)	Attenuation (dB/100 m)	Attenuation (dB/100 ft)	Average Power (kW)
0.5	0.08	0.024	91.00
1	0.113	0.034	74.43
1.5	0.138	0.042	60.73
2	0.16	0.049	52.56
10	0.359	0.11	23.37

20	<a href="#">Specifications (product details.aspx?id=24911)</a>	0.156	16.46
30	<a href="#">Related Products (product details.aspx?id=24911&amp;tab=2)</a>	0.627	13.39
50	<a href="#">Documents/Tools (product details.aspx?id=24911&amp;tab=3)</a>	0.814	10.32
88		1.088	0.332
100		1.162	0.354
108		1.209	0.368
150		1.433	0.437
174		1.548	0.472
200		1.665	0.507
300		2.059	0.628
400		2.398	0.731
450		2.553	0.778
500		2.7	0.823
512		2.735	0.834
600		2.977	0.907
700		3.235	0.986
800		3.478	1.06
824		3.534	1.077
894		3.694	1.126
960		3.841	1.171
1000		3.927	1.197
1250		4.44	1.353
1500		4.912	1.497
1700		5.268	1.606

1900	5.489	1.658	1.54
2000	5.771	1.759	1.46
2100	5.923	1.808	1.42
2200	6.091	1.856	1.38
2300	6.247	1.904	1.34
2500	6.551	1.996	1.28
2700	6.845	2.086	1.23
3000	7.273	2.217	1.15
3400	7.819	2.383	1.07
3700	8.213	2.503	1.02
4000	8.596	2.62	0.98
5000	9.807	2.989	0.86

- \* Values typical, guaranteed within 5%

**Regulatory Compliance/Certifications**

Agency	Classification
ISO 9001:2008	Designed, manufactured and/or distributed under this quality management system

**About Us**

(<http://www.commscope.com/About-Us/Who-We-Are/>)

Careers (<http://www.commscope.com/About-Us/Careers/>)

Corporate Responsibility (<http://www.commscope.com/About-Us/Corporate-Responsibility/>)

**News Center**

(<http://www.commscope.com/NewsCenter>)

Blog (<http://www.commscope.com/Blog/>)

Events (<http://www.commscope.com/NewsCenter/Events/>)

Infographics (<http://www.commscope.com/NewsCenter/Infographics/>)

In the News (<http://www.commscope.com/NewsCenter/NewsItems/>)