

EW52, HELIAX® Standard Elliptical Waveguide, 5.6–6.425 GHz, black PE jacket

Product Classification						
Product Type		Elliptical waveguide				
Product Brand		HELIAX®				
General Specifications						
Jacket Color		Black				
Performance Note		Values typical, unless otherwise stated				
Dimensions						
Diameter Over Jacket (E Plane)	57.2 mm 2.252 in					
Diameter Over Jacket (H Plane)		33.3 mm 1.311 in				
Cable Volume		1045 L/km 11.248 ft³/kft				
Electrical Specifications						
eTE11 Mode Cutoff	3.65 GHz					
Group Delay at Frequency		126 ns/100 ft @ 6.200 GHz 413 ns/100 m @ 6.200 GHz				
Operating Frequency Band		5.6 – 6.425 GHz				
VSWR/Return Loss						
Frequency Band	VSWR	Return Loss (dB)				
5.6–6.425 GHz	1.15	23.13				
Attenuation						
Frequency (GHz)	Attenuation (dB/100 m	n) Attenuation (dB/100 ft)	Average Power (kW)	Group Velocity %		
5.6	4.126	1.258	5.687	75.8		
5.8	4.021	1.226	5.835	77.7		
6.0	3.935	1.199	5.963	79.4		

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6.2	3.863	1.177	6.074	80.8			
6.4	3.802	1.159	6.171	82.1			
Material Specifications							
Conductor Material		Corrugated copper	Corrugated copper				
Jacket Material		PE					
Mechanical Specifications							
Minimum Bend Radius, Multiple Bends (E Plane)		305 mm 12.008	305 mm 12.008 in				
Minimum Bend Radius, Multiple Bends (H Plane)		810 mm 31.89 i	810 mm 31.89 in				
Minimum Bend Radius, Single Bend (E Plane)		200 mm 7.874 i	200 mm 7.874 in				
Minimum Bend Radius, Single Bend (H Plane)		560 mm 22.047	560 mm 22.047 in				
Maximum Twist		3.281 °/m 1 °/ft	3.281 °/m 1 °/ft				
Environmental Specifications							
Installation temperature		-40 °C to +60 °C (-4	-40 °C to +60 °C (-40 °F to +140 °F)				
Operating Temperature		-55 °C to +85 °C (-6	-55 °C to +85 °C (-67 °F to +185 °F)				
Storage Temperature		-70 °C to +85 °C (-9	-70 °C to +85 °C (-94 °F to +185 °F)				
Average Power, Ambient Temperature		104 °F 40 °C	104 °F 40 °C				
Average Power, Temperature Rise		42 °C 107.6 °F	42 °C 107.6 °F				
Packaging and	d Weights						
Cable weight		0.88 kg/m 0.591	0.88 kg/m 0.591 lb/ft				
Regulatory Compliance/Certifications							
Agency	Classification						
CHINA-ROHS	Below maximum concentration	Below maximum concentration value					
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system						

Designed, manufactured and/or distributed under this quality management system Compliant as per SVHC revision on www.commscope.com/ProductCompliance Compliant



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