

Product Specifications

EW52

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



CHARACTERISTICS

Construction Materials

Jacket Material	PE
Conductor Material	Corrugated copper
Jacket Color	Black

Dimensions

Cable Volume	1045.0 L/km 11.3 ft ³ /kft
Cable Weight	0.88 kg/m 0.59 lb/ft
Diameter Over Jacket (E Plane)	57.20 mm 2.25 in
Diameter Over Jacket (H Plane)	33.30 mm 1.31 in

Electrical Specifications

Operating Frequency Band	5.6 – 6.425 GHz
eTE11 Mode Cutoff	3.650 GHz
Group Delay	126 ns/100 ft @ 6.200 GHz 413 ns/100 m @ 6.200 GHz

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®
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Mechanical Specifications

Maximum Twist	3.00 °/m 1.00 °/ft
Minimum Bend Radius, Multiple Bends (E Plane)	305.00 mm 12.00 in
Minimum Bend Radius, Multiple Bends (H Plane)	810.00 mm 32.00 in
Minimum Bend Radius, Single Bend (E Plane)	200.00 mm 8.00 in

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Minimum Bend Radius, Single Bend (H Plane) 560.00 mm | 22.00 in

Standard Conditions

Attenuation, Ambient Temperature	24 °C 75 °F
Average Power, Ambient Temperature	40 °C 104 °F
Average Power, Temperature Rise	42 °C 76 °F

VSWR/Return Loss Performance

Note	VSWR/Return Loss indicated is for lengths up to 300 ft (91.4 m), guaranteed for factory-fit and typical for field-fit assemblies Custom length performance: Call +1-800-255-1479 (N. America), +1-779-435-6500 (Int'l.), or your local Andrew representative
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Return Loss

Frequency Band	VSWR	Return Loss (dB)
5.6–6.425 GHz	1.15	23.10

Attenuation

Frequency (GHz)	Attenuation (dB/100 ft)	Attenuation (dB/100 m)	Average Power (kW)	Group Velocity %
5.6	1.258	4.126	5.687	75.8
5.8	1.226	4.021	5.835	77.7
6	1.199	3.935	5.963	79.4
6.2	1.177	3.863	6.074	80.8
6.4	1.159	3.802	6.171	82.1

Regulatory Compliance/Certifications

Agency	Classification
RoHS 2002/95/EC	Compliant
China RoHS SJ/T 11364-2006	Below Maximum Concentration Value (MCV)

