

# 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 inDiameter 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)	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

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6.0	3.935	1.199	5.963	79.4
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

Jacket Material PE

## Mechanical Specifications

Minimum Bend Radius, Multiple Bends (E Plane)305 mm | 12.008 inMinimum Bend Radius, Multiple Bends (H Plane)810 mm | 31.89 inMinimum Bend Radius, Single Bend (E Plane)200 mm | 7.874 inMinimum Bend Radius, Single Bend (H Plane)560 mm | 22.047 inMaximum Twist3.281 °/m | 1 °/ft

## **Environmental Specifications**

Installation temperature $-40 \,^{\circ}\text{C to} + 60 \,^{\circ}\text{C (-40 °F to} + 140 °F)}$ Operating Temperature $-55 \,^{\circ}\text{C to} + 85 \,^{\circ}\text{C (-67 °F to} + 185 °F)}$ Storage Temperature $-70 \,^{\circ}\text{C to} + 85 \,^{\circ}\text{C (-94 °F to} + 185 °F)}$ 

Attenuation, Ambient Temperature $75 \,^{\circ}\text{F}$  |  $23.889 \,^{\circ}\text{C}$ Average Power, Ambient Temperature $104 \,^{\circ}\text{F}$  |  $40 \,^{\circ}\text{C}$ Average Power, Temperature Rise $42 \,^{\circ}\text{C}$  |  $107.6 \,^{\circ}\text{F}$ 

Packaging and Weights

**Cable weight** 0.88 kg/m | 0.591 lb/ft

# Regulatory Compliance/Certifications

Agency	Classification
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.commscope.com/ProductCompliance
ROHS	Compliant



