EW63, HELIAX® Standard Elliptical Waveguide, 5.925–7.125 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)
 51.1 mm | 2.012 in

 Diameter Over Jacket (H Plane)
 29.5 mm | 1.161 in

 Cable Volume
 855 L/km | 9.203 ft³/kft

Electrical Specifications

eTE11 Mode Cutoff 4.001 GHz

**Group Delay at Frequency** 126 ns/100 ft @ 6.775 GHz | 413 ns/100 m @ 6.775 GHz

**Operating Frequency Band** 5.925 – 7.125 GHz

## Attenuation

Frequency (GHz)	Attenuation (dB/100 m)	Attenuation (dB/100 ft)	Average Power (kW)	Group Velocity %
5.925	4.878	1.487	4.45	73.8
6.13	4.738	1.444	4.581	75.8
6.33	4.626	1.41	4.692	77.5
6.53	4.533	1.382	4.788	79
6.73	4.454	1.358	4.873	80.4
6.93	4.387	1.337	4.948	81.7

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#### VSWR/Return Loss

Frequency Band VSWR Return Loss (dB)

**5.925–7.125 GHz** 1.15 23.13

Material Specifications

Conductor Material Corrugated copper

Jacket Material PE

Mechanical Specifications

Minimum Bend Radius, Multiple Bends (E Plane)260 mm | 10.236 inMinimum Bend Radius, Multiple Bends (H Plane)740 mm | 29.134 inMinimum Bend Radius, Single Bend (E Plane)180 mm | 7.087 inMinimum Bend Radius, Single Bend (H Plane)510 mm | 20.079 inMaximum Twist3.281 °/m | 1 °/ft

## **Environmental Specifications**

Installation temperature  $-40 \,^{\circ}\text{C}$  to  $+60 \,^{\circ}\text{C}$  (-40  $^{\circ}\text{F}$  to  $+140 \,^{\circ}\text{F}$ )

Operating Temperature  $-55 \,^{\circ}\text{C}$  to  $+85 \,^{\circ}\text{C}$  (-67  $^{\circ}\text{F}$  to  $+185 \,^{\circ}\text{F}$ )

Storage Temperature  $-70 \,^{\circ}\text{C}$  to  $+85 \,^{\circ}\text{C}$  (-94  $^{\circ}\text{F}$  to  $+185 \,^{\circ}\text{F}$ )

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** 0.76 kg/m | 0.511 lb/ft

# Regulatory Compliance/Certifications

Agency Classi	fication
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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



