



#### **Product Classification**

**Product Type** Standard elliptical waveguide

Product Brand HELIAX®
Product Series Standard

General Specifications

Jacket Color Black

Performance Note Values typical, unless otherwise stated

**Dimensions** 

Diameter Over Jacket (E Plane)73.7 mm | 2.902 inDiameter Over Jacket (H Plane)47.2 mm | 1.858 in

**Cable Volume** 1960 L/km | 21.097 ft<sup>3</sup>/kft

**Electrical Specifications** 

eTE11 Mode Cutoff 2.79 GHz

**Group Delay at Frequency** 142 ns/100 ft @ 4.000 GHz | 465 ns/100 m @ 4.000 GHz

**Operating Frequency Band** 3.6 – 4.2 GHz

VSWR/Return Loss

Frequency Band VSWR Return Loss (dB)

**3.6–4.2 GHz** 1.15 23.13

Attenuation

Frequency (GHz) Attenuation (dB/100 m) Attenuation (dB/100 ft) Average Power (kW) Group Velocity %

**3.6** 3.177 0.968 9.308 63.2

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3.7	3.027	0.923	9.769	65.7
3.8	2.908	0.886	10.17	67.9
3.9	2.81	0.857	10.522	69.9
4.0	2.729	0.832	10.834	71.7
4.1	2.661	0.811	11.112	73.3
4.2	2.603	0.793	11.361	74.7

#### Material Specifications

Conductor Material Corrugated copper

Jacket Material PE

# Mechanical Specifications

Minimum Bend Radius, Multiple Bends (E Plane)	430 mm   16.929 in
Minimum Bend Radius, Multiple Bends (H Plane)	1040 mm   40.945 in
Minimum Bend Radius, Single Bend (E Plane)	300 mm   11.811 in
Minimum Bend Radius, Single Bend (H Plane)	760 mm   29.921 in
Maximum Twist	1.64 °/m   0.5 °/ft

#### **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)

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** 1.25 kg/m | 0.84 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



# EW37

**UK-ROHS** 

Compliant

