



#### **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)
 33.5 mm | 1.319 in

 Diameter Over Jacket (H Plane)
 20.3 mm | 0.799 in

 Cable Volume
 334 L/km | 3.595 ft³/kft

**Electrical Specifications** 

eTE11 Mode Cutoff 6.5 GHz

**Group Delay at Frequency** 125 ns/100 ft @ 11.200 GHz | 410 ns/100 m @ 11.200 GHz

**Operating Frequency Band** 10.2 – 11.7 GHz

## Attenuation

Frequency (GHz)	Attenuation (dB/100 m)	Attenuation (dB/100 ft)	Average Power (kW)	Group Velocity %
10.2	10.649	3.246	1.509	77.1
10.4	10.503	3.201	1.53	78.1
10.6	10.371	3.161	1.549	79
10.8	10.253	3.125	1.567	79.9
11.0	10.146	3.093	1.584	80.7
11.2	10.049	3.063	1.599	81.4

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11.4	9.961	3.036	1.613	82.2
11.6	9.88	3.012	1.626	82.8

#### VSWR/Return Loss

Frequency Band VSWR Return Loss (dB)

**10.2–11.7 GHz** 1.15 23.13

Material Specifications

Conductor Material Corrugated copper

Jacket Material PE

Mechanical Specifications

Minimum Bend Radius, Multiple Bends (E Plane)180 mm | 7.087 inMinimum Bend Radius, Multiple Bends (H Plane)480 mm | 18.898 inMinimum Bend Radius, Single Bend (E Plane)150 mm | 5.906 inMinimum Bend Radius, Single Bend (H Plane)330 mm | 12.992 inMaximum Twist6.562 °/m | 2 °/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 Temperature75 °F | 23.889 °CAverage Power, Ambient Temperature104 °F | 40 °CAverage Power, Temperature Rise42 °C | 107.6 °F

Packaging and Weights

**Cable weight** 0.48 kg/m | 0.323 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



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