



#### **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)33.5 mm | 1.319 inDiameter 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

VSWR/Return Loss

Frequency Band VSWR Return Loss (dB)

**10.2–11.7 GHz** 1.15 23.13

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

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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
11.4	9.961	3.036	1.613	82.2
11.6	9.88	3.012	1.626	82.8

#### Material Specifications

Conductor Material Corrugated copper

Jacket Material PE

#### Mechanical Specifications

Minimum Bend Radius, Multiple Bends (E Plane)	180 mm   7.087 in
Minimum Bend Radius, Multiple Bends (H Plane)	480 mm   18.898 in
Minimum Bend Radius, Single Bend (E Plane)	150 mm   5.906 in
Minimum Bend Radius, Single Bend (H Plane)	330 mm   12.992 in
Maximum Twist	6.562 °/m   2 °/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 °F   23.889 °C

Average Power, Ambient Temperature 104 °F | 40 °C 42 °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

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Page 3 of 3