



#### **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)28.2 mm | 1.11 inDiameter Over Jacket (H Plane)17.1 mm | 0.673 in

**Cable Volume** 251 L/km | 2.702 ft<sup>3</sup>/kft

**Electrical Specifications** 

eTE11 Mode Cutoff 7.67 GHz

**Group Delay at Frequency** 128 ns/100 ft @ 12.700 GHz | 419 ns/100 m @ 12.700 GHz

**Operating Frequency Band** 11.7 – 13.25 GHz

VSWR/Return Loss

Frequency Band VSWR Return Loss (dB)

**11.7–13.25 GHz** 1.15 23.13

Attenuation

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

**11.7** 12.276 3.742 1.196 75.5

COMMSCOPE°

## EW127A

11.95	12.086	3.684	1.214	76.7
12.2	11.918	3.633	1.232	77.8
12.45	11.769	3.587	1.247	78.8
12.7	11.634	3.546	1.262	79.7
12.95	11.514	3.509	1.275	80.6
13.2	11.405	3.476	1.287	81.4

### Material Specifications

Conductor Material Corrugated copper

Jacket Material PE

#### Mechanical Specifications

Minimum Bend Radius, Multiple Bends (E Plane)	150 mm   5.906 in
Minimum Bend Radius, Multiple Bends (H Plane)	380 mm   14.961 in
Minimum Bend Radius, Single Bend (E Plane)	130 mm   5.118 in
Minimum Bend Radius, Single Bend (H Plane)	280 mm   11.024 in
Maximum Twist	6.562 °/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 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** 0.43 kg/m | 0.289 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



# EW127A

UK-ROHS

Compliant

