## EWP180-180 苏州启道 - 康普安德鲁HELIAX中国区独家授权总代理





#### **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)20.1 mm | 0.791 inDiameter Over Jacket (H Plane)12.4 mm | 0.488 in

**Cable Volume** 111 L/km | 1.195 ft<sup>3</sup>/kft

**Electrical Specifications** 

eTE11 Mode Cutoff 11.15 GHz

**Group Delay at Frequency** 127 ns/100 ft @ 18.700 GHz | 416 ns/100 m @ 18.700 GHz

**Operating Frequency Band** 17.7 – 19.7 GHz

#### VSWR/Return Loss

Frequency Band VSWR Return Loss (dB)

**17.7–19.7 GHz** 1.08 28.3

Attenuation

Frequency (GHz)	Attenuation (dB/100 m)	Attenuation (dB/100 ft)	Average Power (kW)	Group Velocity %
17.7	20.111	6.13	0.537	77.7
18.1	19.799	6.035	0.546	78.8

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18.5	19.523	5.951	0.553	79.8
18.9	19.278	5.876	0.56	80.7
19.3	19.06	5.81	0.567	81.6
19.7	18.865	5.75	0.573	82.4

#### Material Specifications

Conductor Material Corrugated copper

Jacket Material PE

#### Mechanical Specifications

Minimum Bend Radius, Multiple Bends (E Plane)150 mm | 5.906 inMinimum Bend Radius, Multiple Bends (H Plane)280 mm | 11.024 inMinimum Bend Radius, Single Bend (E Plane)150 mm | 5.906 inMinimum Bend Radius, Single Bend (H Plane)380 mm | 14.961 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 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** 0.22 kg/m | 0.148 lb/ft

### Regulatory Compliance/Certifications

Agency Classification

ISO 9001:2015 Designed, manufactured and/or distributed under this quality management system



