## EW180-173 苏州启道 - 康普安德鲁HELIAX中国区独家授权总代理



EW180, HELIAX® Standard Elliptical Waveguide, 17.3–18.4 GHz, black PE jacket

## **Product Classification**

**Product Type** Elliptical waveguide

**HELIAX® Product Brand** 

General Specifications

**Jacket Color** Black

**Performance Note** Values typical, unless otherwise stated

**Dimensions** 

**Diameter Over Jacket (E Plane)** 20.1 mm | 0.791 in **Diameter 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** 17.3 - 18.4 GHz

VSWR/Return Loss

**Frequency Band VSWR** Return Loss (dB)

17.3-18.4 GHz 1.15 23.13

Attenuation

Frequency (GHz)	Attenuation (dB/100 m)	Attenuation (dB/100 ft)	Average Power (kW)	Group Velocity %
17.3	20.468	6.239	0.528	76.5
17.7	20.111	6.13	0.537	77.7

Page 1 of 2



## EW180-173 苏州启道 - 康普安德鲁HELIAX中国区独家授权总代理

**18.1** 19.799 6.035 0.546 78.8

Material Specifications

Conductor Material Corrugated copper

Jacket Material PE

Mechanical Specifications

Minimum Bend Radius, Multiple Bends (E Plane)150 mm5.906 inMinimum Bend Radius, Multiple Bends (H Plane)380 mm14.961 inMinimum Bend Radius, Single Bend (E Plane)150 mm5.906 inMinimum Bend Radius, Single Bend (H Plane)380 mm14.961 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  $75 \,^{\circ}\text{F} \mid 23.889 \,^{\circ}\text{C}$ Average Power, Ambient Temperature  $104 \,^{\circ}\text{F} \mid 40 \,^{\circ}\text{C}$ Average Power, Temperature Rise  $42 \,^{\circ}\text{C} \mid 107.6 \,^{\circ}\text{F}$ 

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



