EWP90, HELIAX® Super Premium Elliptical Waveguide, 10.7–11.7 GHz, black PE jacket



## **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** 10.7 – 11.7 GHz

### Attenuation

Frequency (GHz)	Attenuation (dB/100 m)	Attenuation (dB/100 ft)	Average Power (kW)	Group Velocity %
10.7	10.311	3.143	1.559	79.4
10.9	10.198	3.108	1.576	80.3
11.1	10.096	3.077	1.592	81.1
11.3	10.004	3.049	1.606	81.8
11.5	9.92	3.024	1.62	82.5
11.7	9.843	3	1.633	83.1

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#### VSWR/Return Loss

Frequency Band VSWR Return Loss (dB)

**10.7–11.7 GHz** 1.05 32.3

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 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** 0.48 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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