



#### **OBSOLETE**

This product was discontinued on: January 2, 2024

### Product Classification

Product Type Premium elliptical waveguide

Product Brand HELIAX®
Product Series Premium

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** 10.5 – 11.7 GHz

VSWR/Return Loss

Frequency Band VSWR Return Loss (dB)

**10.5–11.7 GHz** 1.06 30.72

**COMMSCOPE®** 

# EWP90-105W

### Attenuation

Frequency (GHz)	Attenuation (dB/100 m)	Attenuation (dB/100 ft)	Average Power (kW)	Group Velocity %
10.5	10.435	3.181	1.54	78.5
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

# 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 $-40 \, ^{\circ}\text{C}$  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



# EWP90-105W

#### **Agency**

#### Classification

ISO 9001:2015



