

# EWP132-140

EWP132, HELIAX® Premium Elliptical Waveguide, 14.0–14.5 GHz, black PE jacket



## Product Classification

<b>Product Type</b>	Elliptical waveguide
<b>Product Brand</b>	HELIAX®

## General Specifications

<b>Jacket Color</b>	Black
<b>Performance Note</b>	Values typical, unless otherwise stated

## Dimensions

<b>Diameter Over Jacket (E Plane)</b>	24.4 mm   0.961 in
<b>Diameter Over Jacket (H Plane)</b>	15.5 mm   0.61 in
<b>Cable Volume</b>	167 L/km   1.798 ft <sup>3</sup> /kft

## Electrical Specifications

<b>eTE11 Mode Cutoff</b>	9.22 GHz
<b>Group Delay at Frequency</b>	131 ns/100 ft @ 14.700 GHz   428 ns/100 m @ 14.700 GHz
<b>Operating Frequency Band</b>	14.0 – 14.5 GHz

## VSWR/Return Loss

Frequency Band	VSWR	Return Loss (dB)
14.0–14.5 GHz	1.08	28.3

## Attenuation

Frequency (GHz)	Attenuation (dB/100 m)	Attenuation (dB/100 ft)	Average Power (kW)	Group Velocity %
14.0	16.343	4.982	0.826	75.3
14.2	16.174	4.93	0.835	76.1

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14.4 16.018 4.882 0.843 76.8

## Material Specifications

**Conductor Material** Corrugated copper  
**Jacket Material** PE

## Mechanical Specifications

**Minimum Bend Radius, Multiple Bends (E Plane)** 130 mm | 5.118 in  
**Minimum Bend Radius, Multiple Bends (H Plane)** 360 mm | 14.173 in  
**Minimum Bend Radius, Single Bend (E Plane)** 130 mm | 5.118 in  
**Minimum Bend Radius, Single Bend (H Plane)** 360 mm | 14.173 in  
**Maximum Twist** 6.562 °/m | 2 °/ft

## Environmental Specifications

**Installation temperature** -40 °C to +60 °C (-40 °F to +140 °F)  
**Operating Temperature** -55 °C to +85 °C (-67 °F to +185 °F)  
**Storage Temperature** -70 °C to +85 °C (-94 °F to +185 °F)  
**Attenuation, Ambient Temperature** 75 °F | 23.889 °C  
**Average Power, Ambient Temperature** 104 °F | 40 °C  
**Average Power, Temperature Rise** 42 °C | 107.6 °F

## Packaging and Weights

**Cable weight** 0.33 kg/m | 0.222 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 <a href="http://www.commscope.com/ProductCompliance">www.commscope.com/ProductCompliance</a>
ROHS	Compliant

