

# EW132-137

EW132, HELIAX® Standard Elliptical Waveguide, 13.75–14.8 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)	24.4 mm   0.961 in
Diameter Over Jacket (H Plane)	15.5 mm   0.61 in
Cable Volume	167 L/km   1.798 ft³/kft

## Electrical Specifications

eTE11 Mode Cutoff	9.22 GHz
Group Delay at Frequency	131 ns/100 ft @ 14.700 GHz   428 ns/100 m @ 14.700 GHz
Operating Frequency Band	13.75 – 14.8 GHz

## VSWR/Return Loss

Frequency Band	VSWR	Return Loss (dB)
13.75–14.8 GHz	1.15	23.13

## Attenuation

Frequency (GHz)	Attenuation (dB/100 m)	Attenuation (dB/100 ft)	Average Power (kW)	Group Velocity %
13.75	16.576	5.052	0.814	74.2
13.95	16.388	4.995	0.824	75
14.15	16.215	4.942	0.833	75.9

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14.35	16.056	4.894	0.841	76.6
14.55	15.909	4.849	0.849	77.4
14.75	15.773	4.808	0.856	78.1

## Material Specifications

<b>Conductor Material</b>	Corrugated copper
<b>Jacket Material</b>	PE

## Mechanical Specifications

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

## Environmental Specifications

<b>Installation temperature</b>	-40 °C to +60 °C (-40 °F to +140 °F)
<b>Operating Temperature</b>	-55 °C to +85 °C (-67 °F to +185 °F)
<b>Storage Temperature</b>	-70 °C to +85 °C (-94 °F to +185 °F)
<b>Average Power, Ambient Temperature</b>	104 °F   40 °C
<b>Average Power, Temperature Rise</b>	42 °C   107.6 °F

## Packaging and Weights

<b>Cable weight</b>	0.33 kg/m   0.222 lb/ft
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## Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
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

