

# EW63

EW63, HELIAX® Standard Elliptical Waveguide, 5.925–7.125 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>	51.1 mm   2.012 in
<b>Diameter Over Jacket (H Plane)</b>	29.5 mm   1.161 in
<b>Cable Volume</b>	855 L/km   9.203 ft <sup>3</sup> /kft

## Electrical Specifications

<b>eTE11 Mode Cutoff</b>	4.001 GHz
<b>Group Delay at Frequency</b>	126 ns/100 ft @ 6.775 GHz   413 ns/100 m @ 6.775 GHz
<b>Operating Frequency Band</b>	5.925 – 7.125 GHz

## Attenuation

Frequency (GHz)	Attenuation (dB/100 m)	Attenuation (dB/100 ft)	Average Power (kW)	Group Velocity %
5.925	4.878	1.487	4.45	73.8
6.13	4.738	1.444	4.581	75.8
6.33	4.626	1.41	4.692	77.5
6.53	4.533	1.382	4.788	79
6.73	4.454	1.358	4.873	80.4
6.93	4.387	1.337	4.948	81.7

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## VSWR/Return Loss

Frequency Band	VSWR	Return Loss (dB)
5.925–7.125 GHz	1.15	23.13

## Material Specifications

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

## Mechanical Specifications

<b>Minimum Bend Radius, Multiple Bends (E Plane)</b>	260 mm   10.236 in
<b>Minimum Bend Radius, Multiple Bends (H Plane)</b>	740 mm   29.134 in
<b>Minimum Bend Radius, Single Bend (E Plane)</b>	180 mm   7.087 in
<b>Minimum Bend Radius, Single Bend (H Plane)</b>	510 mm   20.079 in
<b>Maximum Twist</b>	3.281 °/m   1 °/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>Attenuation, Ambient Temperature</b>	75 °F   23.889 °C
<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>	0.76 kg/m   0.511 lb/ft
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## 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



