

# EWP63-57W

EWP63, HELIAX® Premium Elliptical Waveguide, 5.725–7.125 GHz, black PE jacket



## OBSOLETE

This product was discontinued on: January 2, 2024

## Product Classification

<b>Product Type</b>	Premium elliptical waveguide
<b>Product Brand</b>	HELIAX®
<b>Product Series</b>	Premium

## 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 ft³/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>	5.725 – 7.125 GHz

## VSWR/Return Loss

Frequency Band	VSWR	Return Loss (dB)
5.725–7.125 GHz	1.06	30.72

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## Attenuation

Frequency (GHz)	Attenuation (dB/100 m)	Attenuation (dB/100 ft)	Average Power (kW)	Group Velocity %
5.725	5.048	1.539	4.3	71.5
5.93	4.874	1.486	4.453	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

## 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

# EWP63-57W

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**Agency**

ISO 9001:2015

**Classification**

Designed, manufactured and/or distributed under this quality management system