

EWP63S, HELIAX® Super Premium Elliptical Waveguide, 6.425–7.125 GHz, unjacketed

## Product Classification

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

## Construction Materials

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

## Dimensions

<b>Cable Volume</b>	855.0 L/km   9.2 ft <sup>3</sup> /kft
<b>Cable Weight</b>	0.76 kg/m   0.51 lb/ft
<b>Diameter Over Jacket (E Plane)</b>	51.10 mm   2.01 in
<b>Diameter Over Jacket (H Plane)</b>	29.50 mm   1.16 in

## Electrical Specifications

<b>Operating Frequency Band</b>	6.425 – 7.125 GHz
<b>eTE11 Mode Cutoff</b>	4.001 GHz
<b>Group Delay</b>	126 ns/100 ft @ 6.775 GHz 413 ns/100 m @ 6.775 GHz

## 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)

## Mechanical Specifications

<b>Maximum Twist</b>	3.00 %/m   1.00 %/ft
<b>Minimum Bend Radius, Multiple Bends (E Plane)</b>	260.00 mm   10.00 in
<b>Minimum Bend Radius, Multiple Bends (H Plane)</b>	740.00 mm   29.00 in
<b>Minimum Bend Radius, Single Bend (E Plane)</b>	180.00 mm   7.00 in
<b>Minimum Bend Radius, Single Bend (H Plane)</b>	510.00 mm   20.00 in

## Note

<b>Performance Note</b>	Values typical, unless otherwise stated
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## Standard Conditions

<b>Attenuation, Ambient Temperature</b>	24 °C   75 °F
<b>Average Power, Ambient Temperature</b>	40 °C   104 °F
<b>Average Power, Temperature Rise</b>	42 °C   76 °F

## Return Loss/VSWR

Frequency Band	VSWR	Return Loss (dB)
6.425–7.125 GHz	1.05	32.30

\* VSWR/Return Loss indicated is for lengths up to 300 ft (91.4 m)

\* VSWR/Return Loss is guaranteed for factory-fit and typical for field-fit assemblies

\* Custom length performance: Call 828-324-2200 or 1-800-982-1708 (toll free), or your local CommScope representative

## Attenuation

Frequency (GHz)	Attenuation (dB/100 ft)	Attenuation (dB/100 m)	Average Power (kW)	Group Velocity %
6.4	1.396	4.58	4.739	78.2
6.6	1.37	4.496	4.828	79.7
6.8	1.348	4.423	4.908	81
7	1.329	4.36	4.979	82.2

## Regulatory Compliance/Certifications

Agency	Classification
RoHS 2011/65/EU	Compliant
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
China RoHS SJ/T 11364-2014	Below Maximum Concentration Value (MCV)

