

EWP52S, HELIAX® Super Premium Elliptical Waveguide, 5.925–6.425 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>	1045.0 L/km   11.3 ft <sup>3</sup> /kft
<b>Cable Weight</b>	0.88 kg/m   0.59 lb/ft
<b>Diameter Over Jacket (E Plane)</b>	57.20 mm   2.25 in
<b>Diameter Over Jacket (H Plane)</b>	33.30 mm   1.31 in

## Electrical Specifications

<b>Operating Frequency Band</b>	5.925 – 6.425 GHz
<b>eTE11 Mode Cutoff</b>	3.650 GHz
<b>Group Delay</b>	126 ns/100 ft @ 6.200 GHz 413 ns/100 m @ 6.200 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>	305.00 mm   12.00 in
<b>Minimum Bend Radius, Multiple Bends (H Plane)</b>	810.00 mm   32.00 in
<b>Minimum Bend Radius, Single Bend (E Plane)</b>	200.00 mm   8.00 in
<b>Minimum Bend Radius, Single Bend (H Plane)</b>	560.00 mm   22.00 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)
5.925–6.425 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 %
5.9	1.209	3.965	5.917	78.8
6.2	1.179	3.87	6.064	80.7

## 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)

