## EWP52S, HELIAX® Super Premium Elliptical Waveguide, 5.925–6.425 GHz, unjacketed

Product Classification					
Product Type		Elliptical waveguide			
Product Brand		HELIAX®			
General Specifications					
Performance Note		Values typical, unless otherwise stated			
Dimensions					
Diameter Over Jacket (E Plane)		57.2 mm   2.252 in			
Diameter Over Jacket (H Plane)		33.3 mm   1.311 in			
Cable Volume		1045 L/km   11.248 ft³/kft			
Electrical Specifications					
eTE11 Mode Cutoff		3.65 GHz			
Group Delay at Frequency		126 ns/100 ft @ 6.200 GHz   413 ns/100 m @ 6.200 GHz			
<b>Operating Frequency Band</b>		5.925 – 6.425 GHz			
VSWR/Return Loss					
Frequency Band	VSWR	Return Loss (dB)			
5.925-6.425 GHz	1.05	32.3			
Attenuation					
Frequency (GHz)	Attenuation (dB/100 m	h) Attenuation (dB/100 ft)	Average Power (kW)	Group Velocity %	
5.925	3.965	1.209	5.917	78.8	
6.18	3.87	1.179	6.064	80.7	
Material Specifications					
Conductor Material		Corrugated copper			
Jacket Material		Unjacketed			
Mechanical Specifications					
Minimum Bend Radius, Multiple Bends (E Plane)		305 mm   12.008 in			
Minimum Bend Radius, Multiple Bends (H Plane)		810 mm   31.89 in			

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Minimum Bend Radius, Single Bend (E Plane)	200 mm   7.874 in
Minimum Bend Radius, Single Bend (H Plane)	560 mm   22.047 in
Maximum Twist	3.281 °/m   1 °/ft

# **Environmental Specifications**

Installation temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Operating Temperature	-55 °C to +85 °C (-67 °F to +185 °F)
Storage Temperature	-70 °C to +85 °C (-94 °F to +185 °F)
Attenuation, Ambient Temperature	75°F   23.889°C
Average Power, Ambient Temperature	104 °F   40 °C
Average Power, Temperature Rise	42 °C   107.6 °F

### Packaging and Weights

Cable weight

0.88 kg/m | 0.591 lb/ft

# Regulatory Compliance/Certifications

Classification

#### Agency

ISO 9001:2015

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



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