

EWP52S

EWP52, HELIAX® Super Premium Elliptical Waveguide, 5.925–6.425 GHz, black PE jacket



Product Classification

Product Type	Elliptical waveguide
Product Brand	HELIAX®

General Specifications

Jacket Color	Black
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 ft ³ /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
Operating Frequency Band	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)	Attenuation (dB/100 ft)	Average Power (kW)	Group Velocity %
5.925	3.965	1.209	5.917	78.8
6.13	3.887	1.185	6.037	80.3

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6.33 3.822 1.165 6.138 81.7

Material Specifications

Conductor Material Corrugated copper
Jacket Material PE

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
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

Agency ISO 9001:2015
Classification Designed, manufactured and/or distributed under this quality management system

