EWP64, HELIAX® Premium Elliptical Waveguide, 6.425–7.125 GHz, black PE jacket



OBSOLETE This product was discontinued on: January 2, 2024

Product Classification

Product Type		Premium elliptical waveguide	
Product Brand		HELIAX®	
Product Series		Premium	
General Specifications			
Jacket Color		Black	
Performance Note		Values typical, unless otherwise stated	
Dimensions			
Diameter Over Jacket (E Plane)		48.5 mm 1.909 in	
Diameter Over Jacket (H Plane)		28.4 mm 1.118 in	
Cable Volume		725 L/km 7.804 ft ³ /kft	
Electrical Specifications			
eTE11 Mode Cutoff		4.32 GHz	
Group Delay at Frequency		125 ns/100 ft @ 7.400 GHz 411 ns/100 m @ 7.400 GHz	
Operating Frequency Band		6.425 – 7.125 GHz	
VSWR/Return Loss			
Frequency Band	VSWR	Return Loss (dB)	
6.425-7.125 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 %
6.425	5.276	1.608	3.917	74
6.63	5.139	1.566	4.022	75.9
6.83	5.028	1.533	4.111	77.5
7.03	4.934	1.504	4.189	78.9

Material Specifications

Conductor Material	Corrugated copper
Jacket Material	PE

Mechanical Specifications

Minimum Bend Radius, Multiple Bends (E Plane)	260 mm 10.236 in
Minimum Bend Radius, Multiple Bends (H Plane)	685 mm 26.969 in
Minimum Bend Radius, Single Bend (E Plane)	260 mm 10.236 in
Minimum Bend Radius, Single Bend (H Plane)	685 mm 26.969 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

0.73 kg/m | 0.491 lb/ft

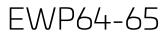
Regulatory Compliance/Certifications

Agency	Classification
CHINA-ROHS	Below maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
REACH-SVHC	Compliant as per SVHC revision on www.commscope.com/ProductCompliance

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