

EWP37, HELIAX® Premium Elliptical Waveguide, 3.54–4.2 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)73.7 mm | 2.902 inDiameter Over Jacket (H Plane)47.2 mm | 1.858 in

Cable Volume 1960 L/km | 21.097 ft³/kft

Electrical Specifications

eTE11 Mode Cutoff 2.79 GHz

Group Delay at Frequency 142 ns/100 ft @ 4.000 GHz | 465 ns/100 m @ 4.000 GHz

Operating Frequency Band 3.54 – 4.2 GHz

VSWR/Return Loss

Frequency Band VSWR Return Loss (dB)

3.54–4.2 GHz 1.08 28.3

Attenuation

Frequency (GHz)	Attenuation (dB/100 m)	Attenuation (dB/100 ft)	Average Power (kW)	Group Velocity %
3.54	3.286	1.002	8.997	61.6
3.64	3.112	0.949	9.5	64.2

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3.74	2.976	0.907	9.936	66.6
3.84	2.866	0.874	10.316	68.7
3.94	2.776	0.846	10.651	70.6
4.04	2.701	0.823	10.949	72.3
4.14	2.637	0.804	11.215	73.9

Material Specifications

Conductor Material Corrugated copper

Jacket Material PE

Mechanical Specifications

Minimum Bend Radius, Multiple Bends (E Plane)	430 mm 16.929 in
Minimum Bend Radius, Multiple Bends (H Plane)	1040 mm 40.945 in
Minimum Bend Radius, Single Bend (E Plane)	300 mm 11.811 in
Minimum Bend Radius, Single Bend (H Plane)	760 mm 29.921 in
Maximum Twist	1.64 °/m 0.5 °/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 1.25 kg/m | 0.84 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
ROHS	Compliant



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