

# EWP37-35



EWP37, HELIAX® Premium Elliptical Waveguide, 3.54–4.2 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)	73.7 mm   2.902 in
Diameter 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

## 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

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3.64	3.112	0.949	9.5	64.2
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

## VSWR/Return Loss

Frequency Band	VSWR	Return Loss (dB)
3.54–4.2 GHz	1.08	28.3

## 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
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## Regulatory Compliance/Certifications

Agency	Classification
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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 <a href="http://www.commscope.com/ProductCompliance">www.commscope.com/ProductCompliance</a>
ROHS	Compliant
UK-ROHS	Compliant

