EWP37, HELIAX® Super Premium Elliptical Waveguide, 3.7–4.2 GHz, black PE jacket



# Product Classification

Product Type		Super premium elliptical waveguide			
Product Brand		ΗE	LIAX®		
Product Series		Su	per Premium		
General Specifications					
Jacket Color		Bla	ick		
Performance Note		Va	lues typical, unless otherwi	se 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		190	60 L/km   21.097 ft³/kft		
Electrical Specifications					
eTE11 Mode Cutoff		2.7	9 GHz		
Group Delay at Frequency		142 ns/100 ft @ 4.000 GHz   465 ns/100 m @ 4.000 GHz			
Operating Frequency Band		3.7	′ – 4.2 GHz		
VSWR/Return Loss					
Frequency Band	VSWR		Return Loss (dB)		
3.7–4.2 GHz	1.06		30.72		
Attenuation					
Frequency (GHz)	Attenuation (dB/100 m	n)	Attenuation (dB/100 ft)	Average Power (kW)	Group Velocity %
3.7	3.027		0.923	9.769	65.7

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# EWP37S

3.8	2.908	0.886	10.17	67.9
3.9	2.81	0.857	10.522	69.9
4.0	2.729	0.832	10.834	71.7
4.1	2.661	0.811	11.112	73.3
4.2	2.603	0.793	11.361	74.7

## 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

Classification

#### Agency

ISO 9001:2015

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

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