



EWP37-35

EWP37, HELIAX® Premium Elliptical Waveguide, 3.54–4.2 GHz, black PE jacket

Construction Materials

Jacket Material	PE
Conductor Material	Corrugated copper
Jacket Color	Black

Dimensions

Cable Volume	1960.0 L/km 21.1 ft ³ /kft
Cable Weight	1.25 kg/m 0.84 lb/ft
Diameter Over Jacket (E Plane)	73.70 mm 2.90 in
Diameter Over Jacket (H Plane)	47.20 mm 1.86 in

Electrical Specifications

Operating Frequency Band	3.54 – 4.2 GHz
eTE11 Mode Cutoff	2.790 GHz
Group Delay	142 ns/100 ft @ 4.000 GHz 465 ns/100 m @ 4.000 GHz

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)

General Specifications

Brand	HELIAX®
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Mechanical Specifications

Maximum Twist	1.50 °/m 0.50 °/ft
Minimum Bend Radius, Multiple Bends (E Plane)	430.00 mm 17.00 in
Minimum Bend Radius, Multiple Bends (H Plane)	1040.00 mm 41.00 in
Minimum Bend Radius, Single Bend (E Plane)	300.00 mm 12.00 in
Minimum Bend Radius, Single Bend (H Plane)	760.00 mm 30.00 in

Note

Performance Note	Values typical, unless otherwise stated
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Standard Conditions

Attenuation, Ambient Temperature	24 °C 75 °F
Average Power, Ambient Temperature	40 °C 104 °F
Average Power, Temperature Rise	42 °C 76 °F

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Return Loss/VSWR

Frequency Band	VSWR	Return Loss (dB)
3.54–4.2 GHz	1.08	28.30

* VSWR/Return Loss indicated is for lengths up to 300 ft (91.4 m)

* VSWR/Return Loss is guaranteed for factory-fit and typical for field-fit assemblies

* Custom length performance: Call +1-800-255-1479 (N. America), 1-779-435-6500 (Int'l.), or your local Andrew representative

Attenuation

Frequency (GHz)	Attenuation (dB/100 ft)	Attenuation (dB/100 m)	Average Power (kW)	Group Velocity %
3.5	1.002	3.286	8.997	61.6
3.6	0.949	3.112	9.5	64.2
3.7	0.907	2.976	9.936	66.6
3.8	0.874	2.866	10.316	68.7
3.9	0.846	2.776	10.651	70.6
4	0.823	2.701	10.949	72.3
4.1	0.804	2.637	11.215	73.9

Regulatory Compliance/Certifications

Agency	Classification
ISO 9001:2008	Designed, manufactured and/or distributed under this quality management system