

EW132-137



EW132, HELIAX® Standard Elliptical Waveguide, 13.75–14.8 GHz, black PE jacket

Product Classification

Brand	HELIAX®
Product Type	Elliptical waveguide

Construction Materials

Jacket Material	PE
Conductor Material	Corrugated copper
Jacket Color	Black

Dimensions

Cable Volume	167.0 L/km 1.8 ft ³ /kft
Cable Weight	0.33 kg/m 0.22 lb/ft
Diameter Over Jacket (E Plane)	24.40 mm 0.96 in
Diameter Over Jacket (H Plane)	15.50 mm 0.61 in

Electrical Specifications

Operating Frequency Band	13.75 – 14.8 GHz
eTE11 Mode Cutoff	9.220 GHz
Group Delay	131 ns/100 ft @ 14.700 GHz 428 ns/100 m @ 14.700 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)

Mechanical Specifications

Maximum Twist	6.00 °/m 2.00 °/ft
Minimum Bend Radius, Multiple Bends (E Plane)	130.00 mm 5.00 in
Minimum Bend Radius, Multiple Bends (H Plane)	360.00 mm 14.00 in
Minimum Bend Radius, Single Bend (E Plane)	130.00 mm 5.00 in
Minimum Bend Radius, Single Bend (H Plane)	360.00 mm 14.00 in

Note

Performance Note

Values typical, unless otherwise stated

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

Return Loss/VSWR

Frequency Band	VSWR	Return Loss (dB)
13.75–14.8 GHz	1.15	23.10

* 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 828-324-2200 or 1-800-982-1708 (toll free), or your local CommScope representative

Attenuation

Frequency (GHz)	Attenuation (dB/100 ft)	Attenuation (dB/100 m)	Average Power (kW)	Group Velocity %
13.8	5.052	16.576	0.814	74.2
14	4.995	16.388	0.824	75
14.2	4.942	16.215	0.833	75.9
14.4	4.894	16.056	0.841	76.6
14.6	4.849	15.909	0.849	77.4
14.8	4.808	15.773	0.856	78.1

Regulatory Compliance/Certifications

Agency

RoHS 2011/65/EU

ISO 9001:2015

China RoHS SJ/T 11364-2014

Classification

Compliant

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

Above Maximum Concentration Value (MCV)

