



EW132-144, HELIAX® Standard Elliptical Waveguide, 14.4–15.35 GHz, black non-halogenated, fire retardant polyolefin jacket

Product Classification

Brand	HELIAX®
Product Type	Elliptical waveguide

Construction Materials

Jacket Material	Non-halogenated, fire retardant polyolefin
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	14.4 – 15.35 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	-25 °C to +60 °C (-13 °F to +140 °F)
Operating Temperature	-30 °C to +80 °C (-22 °F to +176 °F)
Storage Temperature	-30 °C to +80 °C (-22 °F to +176 °F)

Mechanical Specifications

Fire Retardancy Test Method	UL 1666/CATVR/CMR
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
Toxicity Index Test Method	IEC 60754-2

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)
14.4–15.35 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 %
14.4	4.882	16.018	0.843	76.8
14.6	4.838	15.874	0.85	77.5
14.8	4.798	15.74	0.858	78.2
15	4.76	15.616	0.865	78.9
15.2	4.725	15.501	0.871	79.5

Regulatory Compliance/Certifications

Agency	Classification
UL/ETL Certification	CATVR/CMR
RoHS 2011/65/EU	Compliant
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
China RoHS SJ/T 11364-2014	Below Maximum Concentration Value (MCV)

