

222040-7

EWP132-144, HELIAX® Premium Elliptical Waveguide, 14.4–15.35 GHz, unjacketed

Construction Materials

Jacket Material	Unjacketed
Conductor Material	Corrugated copper

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	-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	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
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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

Return Loss/VSWR

Frequency Band	VSWR	Return Loss (dB)
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Product Specifications

COMMScope®

222040-7

14.4–15.35 GHz

1.05

28.30

POWERED BY



* 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 %
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

RoHS 2011/65/EU

China RoHS SJ/T 11364-2006

ISO 9001:2008

Classification

Compliant

Below Maximum Concentration Value (MCV)

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

