EW132-144

EW132, HELIAX® Standard Elliptical Waveguide, 14.4–15.35 GHz, black PE jacket

Product Classification

Product Type	Elliptical waveguide
Product Brand	HELIAX®

General Specifications

Jacket Color	Black
Performance Note	Values typical, unless otherwise stated

Dimensions

Diameter Over Jacket (E Plane)	24.4 mm | 0.961 in
Diameter Over Jacket (H Plane)	15.5 mm | 0.61 in
Cable Volume	167 L/km | 1.798 ft³/kft

Electrical Specifications

eTE11 Mode Cutoff	9.22 GHz
Group Delay at Frequency	131 ns/100 ft @ 14.700 GHz | 428 ns/100 m @ 14.700 GHz
Operating Frequency Band	14.4 − 15.35 GHz

VSWR/Return Loss

Frequency Band	VSWR	Return Loss (dB)
14.4−15.35 GHz	1.15	23.13

Attenuation

Frequency (GHz)	Attenuation (dB/100 m)	Attenuation (dB/100 ft)	Average Power (kW)	Group Velocity %
14.4	16.018	4.882	0.843	76.8
14.6	15.874	4.838	0.85	77.5
14.8	15.74	4.798	0.858	78.2

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| 15.0 | 15.616 | 4.76 | 0.865 | 78.9 |
| 15.2 | 15.501 | 4.725 | 0.871 | 79.5 |

Material Specifications

| **Conductor Material** | Corrugated copper |
| **Jacket Material** | PE |

Mechanical Specifications

Minimum Bend Radius, Multiple Bends (E Plane)	130 mm | 5.118 in
Minimum Bend Radius, Multiple Bends (H Plane)	360 mm | 14.173 in
Minimum Bend Radius, Single Bend (E Plane)	130 mm | 5.118 in
Minimum Bend Radius, Single Bend (H Plane)	360 mm | 14.173 in
Maximum Twist	6.562 °/m | 2 °/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** | 0.33 kg/m   \| 0.222 lb/ft |

Regulatory Compliance/Certifications

Agency	**Classification**
CHINA-ROHS	Below maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
REACH-SVHC	Compliant as per SVHC revision on www.commscope.com/ProductCompliance
ROHS	Compliant

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