EW132-144

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

Product Classification

Product Type	Standard elliptical waveguide
Product Brand	HELIAX®
Product Series	Standard

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
15.0	15.616	4.76	0.865	78.9

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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.andrew.com/ProductCompliance
ROHS	Compliant
UK-ROHS	Compliant

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