

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

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14.8	15.74	4.798	0.858	78.2
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 Non-halogenated, fire retardant polyolefin

## Mechanical Specifications

Minimum Bend Radius, Multiple Bends (E Plane)130 mm | 5.118 inMinimum Bend Radius, Multiple Bends (H Plane)360 mm | 14.173 inMinimum Bend Radius, Single Bend (E Plane)130 mm | 5.118 inMinimum Bend Radius, Single Bend (H Plane)360 mm | 14.173 inMaximum Twist6.562 °/m | 2 °/ft

#### **Environmental Specifications**

Installation temperature $-25 \,^{\circ}\text{C}$  to  $+60 \,^{\circ}\text{C}$  (-13 °F to +140 °F)Operating Temperature $-30 \,^{\circ}\text{C}$  to  $+80 \,^{\circ}\text{C}$  (-22 °F to +176 °F)Storage Temperature $-30 \,^{\circ}\text{C}$  to  $+80 \,^{\circ}\text{C}$  (-22 °F to +176 °F)

Attenuation, Ambient Temperature75 °F | 23.889 °CAverage Power, Ambient Temperature104 °F | 40 °CAverage Power, Temperature Rise42 °C | 107.6 °FFire Retardancy Test MethodUL 1666/CATVR/CMR

**Toxicity Index Test Method** IEC 60754-2

Packaging and Weights

**Cable weight** 0.33 kg/m | 0.222 lb/ft

### Regulatory Compliance/Certifications

#### Agency Classification

ISO 9001:2015 Designed, manufactured and/or distributed under this quality management system

UL/ETL Certification CATVR/CMR







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