

EW132-137



EW132, HELIAX® Standard Elliptical Waveguide, 13.75–14.8 GHz, black PE jacket

Product Classification

| | |
|---------------------|----------------------|
| Brand | HELIAX® |
| Product Type | Elliptical waveguide |

Construction Materials

| | |
|---------------------------|-------------------|
| Jacket Material | PE |
| 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 | 13.75 – 14.8 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) |

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

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) |
|----------------|------|------------------|
| 13.75–14.8 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 % |
|-----------------|-------------------------|------------------------|--------------------|------------------|
| 13.8 | 5.052 | 16.576 | 0.814 | 74.2 |
| 14 | 4.995 | 16.388 | 0.824 | 75 |
| 14.2 | 4.942 | 16.215 | 0.833 | 75.9 |
| 14.4 | 4.894 | 16.056 | 0.841 | 76.6 |
| 14.6 | 4.849 | 15.909 | 0.849 | 77.4 |
| 14.8 | 4.808 | 15.773 | 0.856 | 78.1 |

Regulatory Compliance/Certifications

Agency

RoHS 2011/65/EU

ISO 9001:2015

China RoHS SJ/T 11364-2014

Classification

Compliant

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

Above Maximum Concentration Value (MCV)

