



EW132, HELIAX® Standard Elliptical Waveguide, 13.75–14.8 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 ft ³ /kft |

Electrical Specifications

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|---------------------------------|--|
| 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 | 13.75 – 14.8 GHz |

VSWR/Return Loss

| Frequency Band | VSWR | Return Loss (dB) |
|----------------|------|------------------|
| 13.75–14.8 GHz | 1.15 | 23.13 |

Attenuation

| Frequency (GHz) | Attenuation (dB/100 m) | Attenuation (dB/100 ft) | Average Power (kW) | Group Velocity % |
|-----------------|------------------------|-------------------------|--------------------|------------------|
| 13.75 | 16.576 | 5.052 | 0.814 | 74.2 |
| 13.95 | 16.388 | 4.995 | 0.824 | 75 |

| | | | | |
|--------------|--------|-------|-------|------|
| 14.15 | 16.215 | 4.942 | 0.833 | 75.9 |
| 14.35 | 16.056 | 4.894 | 0.841 | 76.6 |
| 14.55 | 15.909 | 4.849 | 0.849 | 77.4 |
| 14.75 | 15.773 | 4.808 | 0.856 | 78.1 |

Material Specifications

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|---------------------------|-------------------|
| Conductor Material | Corrugated copper |
| Jacket Material | PE |

Mechanical Specifications

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|--|--------------------|
| 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

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|---------------------|-------------------------|
| 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 |



