



EWP127A-122

EWP127A, HELIAX® Premium Elliptical Waveguide, 12.2–12.7 GHz, black PE jacket

Construction Materials

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

Dimensions

| | |
|--------------------------------|---------------------------------------|
| Cable Volume | 251.0 L/km 2.7 ft ³ /kft |
| Cable Weight | 0.43 kg/m 0.29 lb/ft |
| Diameter Over Jacket (E Plane) | 28.20 mm 1.11 in |
| Diameter Over Jacket (H Plane) | 17.10 mm 0.67 in |

Electrical Specifications

| | |
|--------------------------|---|
| Operating Frequency Band | 12.2 – 12.7 GHz |
| eTE11 Mode Cutoff | 7.670 GHz |
| Group Delay | 128 ns/100 ft @ 12.700 GHz 419 ns/100 m @ 12.700 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) |

General Specifications

| | |
|-------|---------|
| Brand | HELIAX® |
|-------|---------|

Mechanical Specifications

| | |
|---|----------------------|
| Maximum Twist | 6.00 °/m 2.00 °/ft |
| Minimum Bend Radius, Multiple Bends (E Plane) | 150.00 mm 6.00 in |
| Minimum Bend Radius, Multiple Bends (H Plane) | 380.00 mm 15.00 in |
| Minimum Bend Radius, Single Bend (E Plane) | 130.00 mm 5.00 in |
| Minimum Bend Radius, Single Bend (H Plane) | 280.00 mm 11.00 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 |

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POWERED BY



Return Loss/VSWR

| Frequency Band | VSWR | Return Loss (dB) |
|----------------|------|------------------|
| 12.2–12.7 GHz | 1.08 | 28.30 |

* 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 +1-800-255-1479 (N. America), 1-779-435-6500 (Int'l.), or your local Andrew representative

Attenuation

| Frequency (GHz) | Attenuation (dB/100 ft) | Attenuation (dB/100 m) | Average Power (kW) | Group Velocity % |
|-----------------|-------------------------|------------------------|--------------------|------------------|
| 12.2 | 3.633 | 11.918 | 1.232 | 77.8 |
| 12.4 | 3.587 | 11.769 | 1.247 | 78.8 |
| 12.7 | 3.546 | 11.634 | 1.262 | 79.7 |

Regulatory Compliance/Certifications

Agency

RoHS 2011/65/EU

China RoHS SJ/T 11364-2006

ISO 9001:2008

Classification

Compliant

Below Maximum Concentration Value (MCV)

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

