

EW52, HELIAX® Standard Elliptical Waveguide, 5.6–6.425 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) | 57.2 mm 2.252 in |
| Diameter Over Jacket (H Plane) | 33.3 mm 1.311 in |
| Cable Volume | 1045 L/km 11.248 ft ³ /kft |
| Electrical Specifications | |
| eTE11 Mode Cutoff | 3.65 GHz |
| Group Delay at Frequency | 126 ns/100 ft @ 6.200 GHz 413 ns/100 m @ 6.200 GHz |
| Operating Frequency Band | 5.6 - 6.425 GHz |
| VS\WR/Return Loss | |

VSWR/Return Loss

| Frequency Band | VSWR | Return Loss (dB) |
|----------------|------|------------------|
| 5.6-6.425 GHz | 1.15 | 23.13 |

Attenuation

| /100 m) Attenuation (dB/100 | 0 ft) Average Power (kV | V) Group Velocity % |
|-----------------------------|-------------------------|---|
| 1.258 | 5.687 | 75.8 |
| 1.226 | 5.835 | 77.7 |
| 1.199 | 5.963 | 79.4 |
| 1.177 | 6.074 | 80.8 |
| | 1.258 1.226 1.199 | 1.258 5.687 1.226 5.835 1.199 5.963 |

Page 1 of 2



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EW52

| 6.4 | 3.802 | 1.159 | 6.171 | 82.1 | |
|---|-------|--------------------|-------|------|--|
| Material Specifications | | | | | |
| Conductor Material | | Corrugated copper | | | |
| Jacket Material | | PE | | | |
| Mechanical Specifications | | | | | |
| Minimum Bend Radius, Multiple Bends (E Plane) | | 305 mm 12.008 in | | | |
| Minimum Bend Radius, Multiple Bends (H Plane) | | 810 mm 31.89 in | | | |
| Minimum Bend Radius, Single Bend (E Plane) | | 200 mm 7.874 in | | | |
| Minimum Bend Radius, Single Bend (H Plane) | | 560 mm 22.047 in | | | |
| Maximum Twist | | 3.281 °/m 1 °/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

0.88 kg/m | 0.591 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 |



Page 2 of 2



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