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
Cable Weight: 0.33 kg/m
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 at Frequency: 131 ns/100 ft @ 14.700 GHz | 428 ns/100 m @ 14.700 GHz

Environmental Specifications
Installation Temperature: -40 ºC to +60 ºC (-40 ºF to +140 ºF)
Operating Temperature: -55 ºC to +85 ºC (-67 ºF to +185 ºF)
Storage Temperature: -70 ºC to +85 ºC (-94 ºF to +185 ºF)

Mechanical Specifications
Maximum Twist: 2.00 º/ft
Minimum Bend Radius, Multiple Bends (E Plane): 130.00 mm | 5.12 in
Minimum Bend Radius, Multiple Bends (H Plane): 360.00 mm | 14.17 in
Minimum Bend Radius, Single Bend (E Plane): 130.00 mm | 5.12 in
Minimum Bend Radius, Single Bend (H Plane): 360.00 mm | 14.17 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)
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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

<table>
<thead>
<tr>
<th>Frequency (GHz)</th>
<th>Attenuation (dB/100 ft)</th>
<th>Attenuation (dB/100 m)</th>
<th>Average Power (kW)</th>
<th>Group Velocity %</th>
</tr>
</thead>
<tbody>
<tr>
<td>13.8</td>
<td>5.052</td>
<td>16.576</td>
<td>0.814</td>
<td>74.2</td>
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<tr>
<td>14</td>
<td>4.995</td>
<td>16.388</td>
<td>0.824</td>
<td>75</td>
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<td>14.2</td>
<td>4.942</td>
<td>16.215</td>
<td>0.833</td>
<td>75.9</td>
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<td>14.4</td>
<td>4.894</td>
<td>16.056</td>
<td>0.841</td>
<td>76.6</td>
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<tr>
<td>14.6</td>
<td>4.849</td>
<td>15.909</td>
<td>0.849</td>
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</tr>
<tr>
<td>14.8</td>
<td>4.808</td>
<td>15.773</td>
<td>0.856</td>
<td>78.1</td>
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</tbody>
</table>

Regulatory Compliance/Certifications

Agency | Classification
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RoHS 2011/65/EU | Compliant
ISO 9001:2015 | Designed, manufactured and/or distributed under this quality management system
China RoHS SJ/T 11364-2014 | Above Maximum Concentration Value (MCV)