EW132-144, HELIAx® Standard Elliptical Waveguide, 14.4–15.35 GHZ, black non-halogenated, fire retardant polyolefin jacket

Product Classification
Brand
HELIAx®
Product Type
Elliptical waveguide

Construction Materials
Jacket Material
Non-halogenated, fire retardant polyolefin
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
14.4 – 15.35 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
-25 °C to +60 °C (-13 °F to +140 °F)
Operating Temperature
-30 °C to +80 °C (-22 °F to +176 °F)
Storage Temperature
-30 °C to +80 °C (-22 °F to +176 °F)

Mechanical Specifications
Fire Retardancy Test Method
UL 1666/CATVR/CMR
Maximum Twist
2.00 °/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
Toxicity Index Test Method
IEC 60754-2

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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

<table>
<thead>
<tr>
<th>Frequency Band</th>
<th>VSWR</th>
<th>Return Loss (dB)</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.4–15.35 GHz</td>
<td>1.15</td>
<td>23.10</td>
</tr>
</tbody>
</table>

* 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>14.4</td>
<td>4.882</td>
<td>16.018</td>
<td>0.843</td>
<td>76.8</td>
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<td>14.6</td>
<td>4.838</td>
<td>15.874</td>
<td>0.855</td>
<td>77.5</td>
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<td>14.8</td>
<td>4.798</td>
<td>15.74</td>
<td>0.858</td>
<td>78.2</td>
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<tr>
<td>15</td>
<td>4.76</td>
<td>15.616</td>
<td>0.865</td>
<td>78.9</td>
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<td>15.2</td>
<td>4.725</td>
<td>15.501</td>
<td>0.871</td>
<td>79.5</td>
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</tbody>
</table>

Regulatory Compliance/Certifications

Agency

UL/ETL Certification
RoHS 2011/65/EU
ISO 9001:2015
China RoHS SJ/T 11364-2014

Classification

CATVR/CMR
Compliant
Designed, manufactured and/or distributed under this quality management system
Below Maximum Concentration Value (MCV)