PIII® 500 JCAP 1/2” Plenum Trunk and Distribution Coaxial Cable, white jacket, 2400 ft (732 m) reel

Product Classification

Portfolio: CommScope®
Brand: PIII®
Product Type: Braided coaxial cable
Regional Availability: Asia | Australia/New Zealand | EMEA | Latin America | North America

Construction Materials

Construction Type: Swaged
Center Conductor Material: Copper-clad aluminum wire
Dielectric Material: Foam FEP
Shield (Tape) Material: Swaged aluminum tube
Jacket Material: PVC

Dimensions

Cable Length: 732 m | 2400 ft
Cable Weight: 133.00 lb/kft
Diameter Over Center Conductor, specific: 0.1090 in per 1 strand
Diameter Over Dielectric: 11.4808 mm | 0.4520 in
Diameter Over Jacket, nominal: 13.614 mm | 0.536 in
Diameter Over Shield (Braid): 12.700 mm | 0.500 in
Jacket Thickness: 0.457 mm | 0.018 in

Electrical Specifications

Capacitance: 52.5 pF/m | 16.0 pF/ft
Characteristic Impedance: 75 ohm
Characteristic Impedance Tolerance: ±2 ohm
Conductor dc Resistance: 1.42 ohms/kft
Dielectric Strength, conductor to shield: 6500 Vdc
Jacket Spark Test Voltage: 1000 Vac
Nominal Velocity of Propagation (NVP): 84 %
Structural Return Loss: 20 dB @ 450–1000 MHz | 24 dB @ 5–450 MHz
Structural Return Loss Test Method: 100% Swept Tested

Environmental Specifications

Environmental Space: Plenum
Flame Test Method: CMP
Operating Temperature
-40 °C to +75 °C (-40 °F to +167 °F)

Safety Standard
cETL | ETL

UL Temperature Rating
75 °C | 167 °F

General Specifications
Cable Type
Trunk

Jacket Color
White

Product Number
2312V

Center Conductor Type
Solid

Packaging Type
Reel

Mechanical Specifications
Minimum Bend Radius, loaded
20 times

Minimum Bend Radius, unloaded
16 times

Pulling Tension, maximum
136 kg | 300 lb

Electrical Performance

<table>
<thead>
<tr>
<th>Frequency</th>
<th>Attenuation (dB/100 m)</th>
<th>Attenuation (dB/100 ft)</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 MHz</td>
<td>0.56</td>
<td>0.17</td>
</tr>
<tr>
<td>10 MHz</td>
<td>0.75</td>
<td>0.23</td>
</tr>
<tr>
<td>50 MHz</td>
<td>1.84</td>
<td>0.56</td>
</tr>
<tr>
<td>100 MHz</td>
<td>2.72</td>
<td>0.83</td>
</tr>
<tr>
<td>200 MHz</td>
<td>4.10</td>
<td>1.25</td>
</tr>
<tr>
<td>400 MHz</td>
<td>6.46</td>
<td>1.97</td>
</tr>
<tr>
<td>700 MHz</td>
<td>9.58</td>
<td>2.92</td>
</tr>
<tr>
<td>900 MHz</td>
<td>11.38</td>
<td>3.47</td>
</tr>
<tr>
<td>1000 MHz</td>
<td>12.40</td>
<td>3.78</td>
</tr>
<tr>
<td>1450 MHz</td>
<td>16.07</td>
<td>4.90</td>
</tr>
<tr>
<td>1800 MHz</td>
<td>18.76</td>
<td>5.72</td>
</tr>
<tr>
<td>2200 MHz</td>
<td>21.71</td>
<td>6.62</td>
</tr>
<tr>
<td>3000 MHz</td>
<td>27.32</td>
<td>8.33</td>
</tr>
</tbody>
</table>

Regulatory Compliance/Certifications

Agency
RoHS 2011/65/EU
ISO 9001:2015

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