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

Product Classification

Regional Availability
Asia | Australia/New Zealand | EMEA | Latin America | North America

Portfolio
CommScope®

Product Type
Coaxial hardline cable

Product Brand
PIII®

General Specifications

Product Number
2312K

Cable Type
Trunk

Center Conductor Type
Solid

Construction Type
Swaged

Jacket Color
Cream

Dimensions

Cable Length
731.52 m | 2400 ft

Diameter Over Center Conductor, specific
0.1090 in per 1 strand

Diameter Over Dielectric
11.481 mm | 0.452 in

Diameter Over Jacket, nominal
13.31 mm | 0.524 in

Diameter Over Shield (Braid)
12.7 mm | 0.5 in

Jacket Thickness
0.305 mm | 0.012 in

Electrical Specifications

Capacitance
52.493 pF/m | 16 pF/ft

Characteristic Impedance
75 ohm

Characteristic Impedance Tolerance
±2 ohm

Conductor dc Resistance
4.659 ohms/km | 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 @ 450–1218 MHz | 24 dB @ 5–450 MHz
Structural Return Loss Test Method

100% Swept Tested

Attenuation

<table>
<thead>
<tr>
<th>Frequency (MHz)</th>
<th>Attenuation (dB/100 m)</th>
<th>Attenuation (dB/100 ft)</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.0</td>
<td>0.56</td>
<td>0.17</td>
</tr>
<tr>
<td>10.0</td>
<td>0.75</td>
<td>0.23</td>
</tr>
<tr>
<td>50.0</td>
<td>1.84</td>
<td>0.56</td>
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<tr>
<td>100.0</td>
<td>2.72</td>
<td>0.83</td>
</tr>
<tr>
<td>200.0</td>
<td>4.1</td>
<td>1.25</td>
</tr>
<tr>
<td>400.0</td>
<td>6.46</td>
<td>1.97</td>
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<td>700.0</td>
<td>9.58</td>
<td>2.92</td>
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<td>900.0</td>
<td>11.38</td>
<td>3.47</td>
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<tr>
<td>1000.0</td>
<td>12.4</td>
<td>3.78</td>
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<td>1450.0</td>
<td>16.07</td>
<td>4.9</td>
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<td>1800.0</td>
<td>18.76</td>
<td>5.72</td>
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<td>2200.0</td>
<td>21.71</td>
<td>6.62</td>
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<tr>
<td>3000.0</td>
<td>27.32</td>
<td>8.33</td>
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</tbody>
</table>

Material Specifications

- **Center Conductor Material**: Copper-clad aluminum wire
- **Dielectric Material**: Foam FEP
- **Jacket Material**: PVDF
- **Shield (Tape) Material**: Swaged aluminum tube

Mechanical Specifications

- **Minimum Bend Radius, loaded, times**: 20 times
- **Minimum Bend Radius, unloaded, times**: 16 times
- **Pulling Tension, maximum**: 136.078 kg | 300 lb

Environmental Specifications

- **Operating Temperature**: -40 °C to +125 °C (-40 °F to +257 °F)
- **Environmental Space**: Plenum
- **Temperature Rating, UL**: 125 °C | 257 °F
- **Flame Test Method**: CMP
### Safety Standard
- ETL
- cETL

### Packaging and Weights

<table>
<thead>
<tr>
<th>Configuration</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cable weight</td>
<td>188.997 kg/km</td>
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<tr>
<td></td>
<td>127 lb/kft</td>
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### Packaging Type
- Reel

### Regulatory Compliance/Certifications

<table>
<thead>
<tr>
<th>Agency</th>
<th>Classification</th>
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<tbody>
<tr>
<td>CHINA-ROHS</td>
<td>Below maximum concentration value</td>
</tr>
<tr>
<td>ISO 9001:2015</td>
<td>Designed, manufactured and/or distributed under this quality management system</td>
</tr>
<tr>
<td>REACH-SVHC</td>
<td>Compliant as per SVHC revision on <a href="http://www.commscope.com/ProductCompliance">www.commscope.com/ProductCompliance</a></td>
</tr>
<tr>
<td>ROHS</td>
<td>Compliant</td>
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