Product Classification

Brand: P3®
Product Type: Coaxial hardline cable

Construction Materials

Jacket Material: Fire retardant PVC
Center Conductor Material: Copper-clad aluminum
Construction Type: Swaged
Dielectric Material: FFEP
Outer Conductor Material: Aluminum

Dimensions

Diameter Over Center Conductor, nominal: 2.769 mm | 0.109 in
Diameter Over Dielectric, nominal: 11.481 mm | 0.452 in
Diameter Over Outer Conductor, nominal: 12.700 mm | 0.500 in
Diameter Over Jacket, nominal: 13.614 mm | 0.536 in
Jacket Thickness, nominal: 0.5080 mm | 0.0200 in
Outer Conductor Thickness, nominal: 0.6096 mm | 0.0240 in
Cable Length: 732 m | 2400 ft
Shipping Weight: 158.00 lb/kft

Electrical Specifications

dc Resistance, Inner Conductor, nominal: 1.42 ohms/kft
dc Resistance, Outer Conductor, nominal: 0.37 ohms/kft
dc Resistance, Loop, nominal: 1.79 ohms/kft
dc Resistance Note: Nominal values based on a standard condition of 20 °C (68 °F)
Capacitance: 52.5 pF/m | 16.0 pF/ft
Capacitance Tolerance: ±1.0 pF/ft
Characteristic Impedance: 75 ohm
Characteristic Impedance Tolerance: ±2 ohm
Jacket Spark Test Voltage: 1000 Vac
Nominal Velocity of Propagation (NVP): 84 %
Operating Frequency Band: 1002–1218 MHz | 5–1002 MHz
Structural Return Loss: 30 dB @ 5–1002 MHz

Environmental Specifications
Environmental Space | Indoor | Plenum  
Flame Test Listing | CATVP | CMP | NEC Article 820  
UL Temperature Rating | 75 °C | 167 °F  

General Specifications

**Cable Type** | 500 series  
**Jacket Color** | White  
**Packaging Type** | Reel  
**Short Description** | P3 500 JCAP (2312V)  
**Warranty** | One year  

Mechanical Specifications

**Minimum Bend Radius, standard** | 203.20 mm | 8.00 in  
**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>
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<tbody>
<tr>
<td>5 MHz</td>
<td>0.62</td>
<td>0.19</td>
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<tr>
<td>10 MHz</td>
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<tr>
<td>200 MHz</td>
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<td>204 MHz</td>
<td>3.51</td>
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<tr>
<td>400 MHz</td>
<td>7.12</td>
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<tr>
<td>700 MHz</td>
<td>10.53</td>
<td>3.21</td>
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<tr>
<td>900 MHz</td>
<td>12.20</td>
<td>3.72</td>
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<tr>
<td>1002 MHz</td>
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<td>1794 MHz</td>
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<tr>
<td>1800 MHz</td>
<td>21.72</td>
<td>6.62</td>
</tr>
</tbody>
</table>

*Attenuation listed represents maximum values at standard condition of 20 °C (68 °F)  

Regulatory Compliance/Certifications

**Agency** | **Classification**  
RoHS 2011/65/EU | Compliant  
ISO 9001:2015 | Designed, manufactured and/or distributed under this quality management system