



75 Ohm P3® 500 JCAP 1/2" Plenum Trunk and Distribution Cable, white flame retardant PVC jacket

## Product Classification

<b>Brand</b>	P3®
<b>Product Type</b>	Coaxial hardline cable

## Construction Materials

<b>Jacket Material</b>	Fire retardant PVC
<b>Center Conductor Material</b>	Copper-clad aluminum
<b>Construction Type</b>	Swaged
<b>Dielectric Material</b>	FFEP
<b>Outer Conductor Material</b>	Aluminum

## Dimensions

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

## Electrical Specifications

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

## Environmental Specifications

<b>Environmental Space</b>	Indoor   Plenum
<b>Flame Test Listing</b>	CATVP   CMP   NEC Article 820
<b>UL Temperature Rating</b>	75 °C   167 °F

## General Specifications

<b>Cable Type</b>	500 series
<b>Jacket Color</b>	White
<b>Packaging Type</b>	Reel
<b>Short Description</b>	P3 500 JCAP (2312V)
<b>Warranty</b>	One year

## Mechanical Specifications

<b>Minimum Bend Radius, standard</b>	203.20 mm   8.00 in
<b>Pulling Tension, maximum</b>	136 kg   300 lb

## Electrical Performance

Frequency	Attenuation (dB/100 m)	Attenuation (dB/100 ft)
5 MHz	0.62	0.19
10 MHz	0.85	0.26
50 MHz	2.00	0.61
85 MHz	2.23	0.68
100 MHz	2.98	0.91
200 MHz	4.49	1.37
204 MHz	3.51	1.07
400 MHz	7.12	2.17
700 MHz	10.53	3.21
900 MHz	12.20	3.72
1002 MHz	13.67	4.17
1218 MHz	15.91	4.85
1400 MHz	17.76	5.41
1500 MHz	18.76	5.72
1600 MHz	19.75	6.02
1700 MHz	20.74	6.32
1794 MHz	21.66	6.60
1800 MHz	21.72	6.62

\* 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

