

# 4110103 | 2312K CMRL 1/2" PLENUM TRUNK 2400



75 Ohm P3® 500 JCAP 1/2" Plenum Trunk and Distribution Cable, cream flame retardant PVDF jacket, Build America Buy America (BABA)

- \*Product complies with the Build America, Buy America Act (BABAA) requirements of the Infrastructure Investment and Jobs Act of 2021 (Pub. L. 117- 58, §§ 70901-70953), or is the subject of a waiver approved by the Secretary of Commerce or designee. Compliance requirements and waiver applicability vary based on government funding program. Check the laws and regulations for your specific program.

**OBSOLETE**

This product was discontinued on: June 30, 2015

## Product Classification

<b>Product Type</b>	Coaxial hardline cable
<b>Product Brand</b>	P3®
<b>Government Requirements</b>	Build America Buy America (BABA) compliant*
<b>Warranty</b>	One year

## General Specifications

<b>Cable Type</b>	500 Series
<b>Construction Type</b>	Swaged
<b>Jacket Color</b>	Cream
<b>Location of Manufacturing</b>	Catawba, North Carolina
<b>Short Description</b>	P3 500 JCAP (2312K)

## Dimensions

<b>Cable Length</b>	731.52 m   2400 ft
<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 Jacket, nominal</b>	13.31 mm   0.524 in
<b>Diameter Over Outer Conductor, nominal</b>	12.7 mm   0.5 in
<b>Jacket Thickness, nominal</b>	0.305 mm   0.012 in
<b>Outer Conductor Thickness, nominal</b>	0.61 mm   0.024 in

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## Electrical Specifications

<b>Capacitance</b>	52.493 pF/m   16 pF/ft
<b>Capacitance Tolerance</b>	±1.0 pF/ft
<b>Characteristic Impedance</b>	75 ohm
<b>Characteristic Impedance Tolerance</b>	±2 ohm
<b>dc Resistance Note</b>	Nominal values based on a standard condition of 20 °C (68 °F)
<b>dc Resistance, Inner Conductor, nominal</b>	4.659 ohms/km   1.42 ohms/kft
<b>dc Resistance, Loop, nominal</b>	5.873 ohms/km   1.79 ohms/kft
<b>dc Resistance, Outer Conductor, nominal</b>	1.214 ohms/km   0.37 ohms/kft
<b>Jacket Spark Test Voltage</b>	1000 Vac
<b>Nominal Velocity of Propagation (NVP)</b>	86 %
<b>Structural Return Loss</b>	20 dB @ 450–1218 MHz   24 dB @ 5–450 MHz

## Attenuation

Frequency (MHz)	Attenuation (dB/100 m)	Attenuation (dB/100 ft)
5.0	0.62	0.19
10.0	0.85	0.26
50.0	2	0.61
85.0	2.23	0.82
100.0	2.98	0.91
200.0	4.49	1.37
204.0	3.51	1.38
400.0	7.12	2.17
700.0	10.52	3.21
900.0	12.54	3.72
1000.0	13.65	4.16
1002.0	13.67	4.17
1218.0	15.91	4.85
1400.0	17.76	5.41
1500.0	18.76	5.72
1600.0	19.75	6.02
1700.0	20.74	6.32
1794.0	21.66	6.6
1800.0	21.72	6.62

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## Material Specifications

<b>Center Conductor Material</b>	Copper-clad aluminum
<b>Dielectric Material</b>	FFEP
<b>Jacket Material</b>	Fire retardant PVDF
<b>Outer Conductor Material</b>	Aluminum

## Mechanical Specifications

<b>Minimum Bend Radius, standard</b>	203.2 mm   8 in
<b>Pulling Tension, maximum</b>	136.078 kg   300 lb

## Environmental Specifications

<b>Environmental Space</b>	Indoor   Plenum
<b>Temperature Rating, UL</b>	125 °C   257 °F
<b>Flame Test Listing</b>	CATVP   CMP   NEC Article 820

## Packaging and Weights

<b>Packaging Type</b>	Reel
<b>Weight, gross</b>	226.201 kg/km   152 lb/kft

## Regulatory Compliance/Certifications

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

