

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

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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.

### Product Classification

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

### General Specifications

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

### Dimensions

Cable Length	731.52 m   2400 ft
Diameter Over Center Conductor, nominal	2.769 mm   0.109 in
Diameter Over Dielectric, nominal	11.481 mm   0.452 in
Diameter Over Jacket, nominal	13.31 mm   0.524 in
Diameter Over Outer Conductor, nominal	12.7 mm   0.5 in
Jacket Thickness, nominal	0.305 mm   0.012 in
Outer Conductor Thickness, nominal	0.61 mm   0.024 in

### Electrical Specifications

Capacitance	52.493 pF/m   16 pF/ft
Capacitance Tolerance	±1.0 pF/ft

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Characteristic Impedance	75 ohm
Characteristic Impedance Tolerance	±2 ohm
dc Resistance Note	Nominal values based on a standard condition of 20 °C (68 °F)
dc Resistance, Inner Conductor, nominal	4.659 ohms/km   1.42 ohms/kft
dc Resistance, Loop, nominal	5.873 ohms/km   1.79 ohms/kft
dc Resistance, Outer Conductor, nominal	1.214 ohms/km   0.37 ohms/kft
Jacket Spark Test Voltage	1000 Vac
Nominal Velocity of Propagation (NVP)	86 %
Structural Return Loss	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

## Material Specifications

Center Conductor Material	Copper-clad aluminum
Dielectric Material	FFEP

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Jacket Material	Fire retardant PVDF
Outer Conductor Material	Aluminum

## Mechanical Specifications

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

## Environmental Specifications

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

## Packaging and Weights

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

## Regulatory Compliance/Certifications

Agency	Classification
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

