

# 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

## OBSOLETE

This product was discontinued on: June 30, 2015

## Product Classification

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

## General Specifications

<b>Cable Type</b>	500 Series
<b>Construction Type</b>	Swaged
<b>Jacket Color</b>	Cream
<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

## 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

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

<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

## Material Specifications

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

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

**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

