

# 4110103/24 | 2312K CMRL 1/2" PLEN TRUNK 2400



PIII® 500 JCAP 1/2" Plenum Trunk and Distribution Coaxial Cable, cream jacket, 2400 ft (732 m) reel

## Product Classification

<b>Regional Availability</b>	Asia   Australia/New Zealand   EMEA   Latin America   North America
<b>Portfolio</b>	CommScope®
<b>Product Type</b>	Braided coaxial cable
<b>Product Brand</b>	PIII®

## General Specifications

<b>Product Number</b>	2312K
<b>Cable Type</b>	Trunk
<b>Center Conductor Type</b>	Solid
<b>Construction Type</b>	Swaged
<b>Jacket Color</b>	Cream

## Dimensions

<b>Cable Length</b>	731.52 m   2400 ft
<b>Diameter Over Center Conductor, specific</b>	0.1090 in per 1 strand
<b>Diameter Over Dielectric</b>	11.481 mm   0.452 in
<b>Diameter Over Jacket, nominal</b>	13.31 mm   0.524 in
<b>Diameter Over Shield (Braid)</b>	12.7 mm   0.5 in
<b>Jacket Thickness</b>	0.305 mm   0.012 in

## Electrical Specifications

<b>Capacitance</b>	52.493 pF/m   16 pF/ft
<b>Characteristic Impedance</b>	75 ohm
<b>Characteristic Impedance Tolerance</b>	±2 ohm
<b>Conductor dc Resistance</b>	4.659 ohms/km   1.42 ohms/kft
<b>Dielectric Strength, conductor to shield</b>	6500 Vdc
<b>Jacket Spark Test Voltage</b>	1000 Vac
<b>Nominal Velocity of Propagation (NVP)</b>	84 %
<b>Structural Return Loss</b>	20 dB @ 450–1218 MHz   24 dB @ 5–450 MHz

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**Structural Return Loss Test Method**

100% Swept Tested

## Attenuation

Frequency (MHz)	Attenuation (dB/100 m)	Attenuation (dB/100 ft)
5.0	0.56	0.17
10.0	0.75	0.23
50.0	1.84	0.56
100.0	2.72	0.83
200.0	4.1	1.25
400.0	6.46	1.97
700.0	9.58	2.92
900.0	11.38	3.47
1000.0	12.4	3.78
1450.0	16.07	4.9
1800.0	18.76	5.72
2200.0	21.71	6.62
3000.0	27.32	8.33

## Material Specifications

<b>Center Conductor Material</b>	Copper-clad aluminum wire
<b>Dielectric Material</b>	Foam FEP
<b>Jacket Material</b>	PVDF
<b>Shield (Tape) Material</b>	Swaged aluminum tube

## Mechanical Specifications

<b>Minimum Bend Radius, loaded, times</b>	20 times
<b>Minimum Bend Radius, unloaded, times</b>	16 times
<b>Pulling Tension, maximum</b>	136.078 kg   300 lb

## Environmental Specifications

<b>Operating Temperature</b>	-40 °C to +125 °C (-40 °F to +257 °F)
<b>Environmental Space</b>	Plenum
<b>Temperature Rating, UL</b>	125 °C   257 °F
<b>Flame Test Method</b>	CMP

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**Safety Standard**

ETL | cETL

Packaging and Weights

**Cable weight**

188.997 kg/km | 127 lb/kft

**Packaging Type**

Reel

Regulatory Compliance/Certifications

**Agency**

ISO 9001:2015

**Classification**

Designed, manufactured and/or distributed under this quality management system

