

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

Regional Availability	North America
Portfolio	CommScope®
Product Type	Coaxial hardline cable
Product Brand	PIII®

General Specifications

Product Number	2312K
Cable Type	Trunk
Center Conductor Type	Solid
Construction Type	Swaged
Jacket Color	Cream

Dimensions

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

Electrical Specifications

Capacitance	52.493 pF/m 16 pF/ft
Characteristic Impedance	75 ohm
Characteristic Impedance Tolerance	±2 ohm
Conductor dc Resistance	4.659 ohms/km 1.42 ohms/kft
Dielectric Strength, conductor to shield	6500 Vdc
Jacket Spark Test Voltage	1000 Vac

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Nominal Velocity of Propagation (NVP)	84 %
Structural Return Loss	20 dB @ 450–1218 MHz 24 dB @ 5–450 MHz
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

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

Mechanical Specifications

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

Environmental Specifications

Operating Temperature	-40 °C to +125 °C (-40 °F to +257 °F)
Environmental Space	Plenum

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Temperature Rating, UL 125 °C | 257 °F

Flame Test Method CMP

Safety Standard ETL | cETL

Packaging and Weights

Cable weight 188.997 kg/km | 127 lb/kft

Packaging Type Reel

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 www.commscope.com/ProductCompliance

ROHS

Compliant

UK-ROHS

Compliant

