



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

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

Construction Materials

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

Dimensions

Cable Length	732 m 2400 ft
Cable Weight	127.00 lb/kft
Diameter Over Center Conductor	2.7686 mm per 1 strand 0.1090 in per 1 strand
Diameter Over Dielectric	11.4808 mm 0.4520 in
Diameter Over Jacket	13.310 mm 0.524 in
Diameter Over Shield (Braid)	12.700 mm 0.500 in
Jacket Thickness	0.305 mm 0.012 in

Electrical Specifications

Capacitance	52.5 pF/m 16.0 pF/ft
Characteristic Impedance	75 ohm
Characteristic Impedance Tolerance	±2 ohm
Conductor dc Resistance	1.42 ohms/kft
Dielectric Strength, conductor to shield	6500 Vdc
Jacket Spark Test Voltage	1000 Vac
Nominal Velocity of Propagation (NVP)	84 %
Structural Return Loss	20 dB @ 450–1000 MHz 24 dB @ 5–450 MHz
Structural Return Loss Test Method	100% Swept Tested

Environmental Specifications

Environmental Space	Plenum
Flame Test Method	CMP
Operating Temperature	-40 °C to +125 °C (-40 °F to +257 °F)
Safety Standard	cETL ETL
UL Temperature Rating	125 °C 257 °F

General Specifications

Cable Type	Trunk
Jacket Color	Cream
Product Number	2312K
Center Conductor Type	Solid
Packaging Type	Reel

Mechanical Specifications

Minimum Bend Radius, loaded	20 times
Minimum Bend Radius, unloaded	16 times
Pulling Tension, maximum	136 kg 300 lb

Electrical Performance

Frequency	Attenuation (dB/100 m)	Attenuation (dB/100 ft)
5 MHz	0.56	0.17
10 MHz	0.75	0.23
50 MHz	1.84	0.56
100 MHz	2.72	0.83
200 MHz	4.10	1.25
400 MHz	6.46	1.97
700 MHz	9.58	2.92
900 MHz	11.38	3.47
1000 MHz	12.40	3.78
1450 MHz	16.07	4.90
1800 MHz	18.76	5.72
2200 MHz	21.71	6.62
3000 MHz	27.32	8.33

Regulatory Compliance/Certifications

Agency	Classification
RoHS 2011/65/EU	Compliant
ISO 9001:2008	Designed, manufactured and/or distributed under this quality management system

