

4110273 | 2312V WTRL 1/2" PLEN TRUNK



75 Ohm P3® 500 JCAP 1/2" Plenum Trunk and Distribution Cable, white flame retardant PVC jacket

Product Classification

Product Type	Coaxial hardline cable
Product Brand	P3®
Warranty	One year

General Specifications

Cable Type	500 series
Construction Type	Swaged
Jacket Color	White
Short Description	P3 500 JCAP (2312V)

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	13.614 mm 0.536 in
Diameter Over Outer Conductor, nominal	12.7 mm 0.5 in
Jacket Thickness, nominal	0.508 mm 0.02 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
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

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Nominal Velocity of Propagation (NVP)

84 %

Structural Return Loss

20 dB @ 450–1000 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	0.68
100.0	2.98	0.91
200.0	4.49	1.37
204.0	3.51	1.07
400.0	7.12	2.17
700.0	10.53	3.21
900.0	12.2	3.72
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
Jacket Material	Fire retardant PVC
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

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Environmental Space	Indoor Plenum
Temperature Rating, UL	75 °C 167 °F
Flame Test Listing	CATVP CMP NEC Article 820

Packaging and Weights

Packaging Type	Reel
Weight, gross	235.13 kg/km 158 lb/kft

Regulatory Compliance/Certifications

Agency	Classification
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system

