

## 75 Ohm P3® Trunk and Distribution Cable, unjacketed



### 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>	625 Series
<b>Construction Type</b>	Swaged
<b>Jacket Color</b>	Unjacketed
<b>Short Description</b>	P3 625 CA

### Dimensions

<b>Cable Length</b>	731.52 m   2400 ft
<b>Diameter Over Center Conductor, nominal</b>	3.48 mm   0.137 in
<b>Diameter Over Dielectric, nominal</b>	14.351 mm   0.565 in
<b>Diameter Over Outer Conductor, nominal</b>	15.875 mm   0.625 in
<b>Outer Conductor Thickness, nominal</b>	0.762 mm   0.03 in

### Electrical Specifications

<b>Capacitance</b>	50.197 pF/m   15.3 pF/ft
<b>Capacitance Tolerance</b>	±1.0 pF/ft
<b>Characteristic Impedance</b>	75 ohm
<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>	2.756 ohms/km   0.84 ohms/kft

# 5308002 | P3® 625 CA

<b>dc Resistance, Loop, nominal</b>	3.609 ohms/km   1.1 ohms/kft
<b>dc Resistance, Outer Conductor, nominal</b>	0.853 ohms/km   0.26 ohms/kft
<b>Nominal Velocity of Propagation (NVP)</b>	87 %
<b>Operating Frequency Band</b>	5–3000 MHz
<b>Structural Return Loss</b>	24 dB @ 1003–1218 MHz   24 dB @ 1219–1794 MHz   30 dB @ 5–1002 MHz
<b>Structural Return Loss, Grade N</b>	≥24 dB @ 1003–1218 MHz   ≥24 dB @ 1219–1794 MHz   ≥30 dB @ 5–1002 MHz

## Attenuation

Frequency (MHz)	Attenuation (dB/100 m)	Attenuation (dB/100 ft)
5.0	0.43	0.13
55.0	1.48	0.45
85.0	1.84	0.56
204.0	2.92	0.89
211.0	3.02	0.92
250.0	3.28	1
300.0	3.54	1.08
350.0	3.87	1.18
400.0	4.17	1.27
450.0	4.43	1.35
500.0	4.69	1.43
550.0	4.92	1.5
600.0	5.18	1.58
750.0	5.84	1.78
865.0	6.33	1.93
1002.0	6.92	2.11
1218.0	7.62	2.32
1500.0	8.74	2.66
1794.0	9.7	2.96
1800.0	9.72	2.96
2000.0	10.34	3.15
2200.0	10.95	3.34
2500.0	11.81	3.6
2700.0	12.37	3.77
3000.0	13.19	4.02

## Material Specifications

<b>Center Conductor Material</b>	Copper-clad aluminum
<b>Dielectric Material</b>	Foam PE
<b>Jacket Material</b>	Unjacketed
<b>Outer Conductor Material</b>	Aluminum

## Mechanical Specifications

<b>Minimum Bend Radius, bonded</b>	127 mm   5 in
<b>Pulling Tension, maximum</b>	215.456 kg   475 lb

## Environmental Specifications

<b>Environmental Space</b>	Aerial
----------------------------	--------

## Packaging and Weights

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

## Regulatory Compliance/Certifications

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

