



75 Ohm P3® Trunk and Distribution Cable, black PE jacket with integrated Figure 8 self supporting galvanized solid steel messenger

- \*Product complies with the Build America, Buy America Act (BABAA) requirements of the Infrastructure Investment and Jobs Act of 2021 (Pub. L. 117- 58, §§ 70901-70953), or is the subject of a waiver approved by the Secretary of Commerce or designee. Compliance requirements and waiver applicability vary based on government funding program. Check the laws and regulations for your specific program.

## Product Classification

<b>Regional Availability</b>	North America
<b>Product Type</b>	Coaxial hardline cable
<b>Product Brand</b>	P3®
<b>Government Requirements</b>	Build America Buy America (BABA) compliant*
<b>Warranty</b>	One year

## General Specifications

<b>Cable Type</b>	625 Series
<b>Construction Type</b>	Swaged
<b>Jacket Color</b>	Black
<b>Location of Manufacturing</b>	Catawba, North Carolina
<b>Short Description</b>	P3 625 JCAM109 SM PR2171

## 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 Jacket, nominal</b>	17.399 mm   0.685 in
<b>Diameter Over Outer Conductor, nominal</b>	15.875 mm   0.625 in
<b>Jacket Thickness, nominal</b>	0.762 mm   0.03 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
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<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
<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>Jacket Spark Test Voltage</b>	5000 Vac
<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

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<b>1794.0</b>	9.7	2.96
<b>1800.0</b>	9.72	2.96
<b>2000.0</b>	10.34	3.15
<b>2200.0</b>	10.95	3.34
<b>2500.0</b>	11.81	3.6
<b>2700.0</b>	12.37	3.77
<b>3000.0</b>	13.19	4.02

## Material Specifications

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

## Mechanical Specifications

<b>Minimum Bend Radius, bonded</b>	114.3 mm   4.5 in
<b>Pulling Tension, maximum</b>	215.456 kg   475 lb

## Environmental Specifications

<b>Environmental Space</b>	Aerial
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## Packaging and Weights

<b>Packaging Type</b>	Reel
<b>Weight, gross</b>	272.334 kg/km   183 lb/kft

## Regulatory Compliance/Certifications

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