



75 Ohm P3® Trunk and Distribution Cable, black PE jacket with co-extruded green stripe

## 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>	750 Series
<b>Construction Type</b>	Swaged
<b>Jacket Color</b>	Black with co-extruded green stripe
<b>Short Description</b>	P3 750 JCAT B SM PR2171

## Dimensions

<b>Cable Length</b>	2500 ft   762 m
<b>Diameter Over Center Conductor, nominal</b>	0.167 in   4.242 mm
<b>Diameter Over Dielectric, nominal</b>	0.682 in   17.323 mm
<b>Diameter Over Jacket, nominal</b>	0.82 in   20.828 mm
<b>Diameter Over Outer Conductor, nominal</b>	0.75 in   19.05 mm
<b>Jacket Thickness, nominal</b>	0.035 in   0.889 mm
<b>Outer Conductor Thickness, nominal</b>	0.034 in   0.864 mm

## Electrical Specifications

<b>Capacitance</b>	15.3 pF/ft   50.197 pF/m
<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>	0.57 ohms/kft   1.87 ohms/km
<b>dc Resistance, Loop, nominal</b>	0.76 ohms/kft   2.493 ohms/km

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<b>dc Resistance, Outer Conductor, nominal</b>	0.19 ohms/kft   0.623 ohms/km
<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	0.36	0.11
55.0	1.21	0.37
85.0	1.51	0.46
204.0	2.36	0.72
211.0	2.43	0.74
250.0	2.66	0.81
300.0	2.92	0.89
350.0	3.18	0.97
400.0	3.44	1.05
450.0	3.67	1.12
500.0	3.87	1.18
550.0	4.07	1.24
600.0	4.3	1.31
750.0	4.86	1.48
865.0	5.28	1.61
1002.0	5.72	1.74
1218.0	6.41	1.95
1500.0	7.3	2.23
1794.0	8.07	2.46
1800.0	8.08	2.46
2000.0	8.57	2.61
2200.0	9.05	2.76
2500.0	9.73	2.96
2700.0	10.16	3.1

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3000.0

10.8

3.29

## 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>	6 in   152.4 mm
<b>Pulling Tension, maximum</b>	675 lb   306.175 kg

## Environmental Specifications

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

<b>Packaging Type</b>	Reel
<b>Weight, gross</b>	260 lb/kft   386.923 kg/km

## Regulatory Compliance/Certifications

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