

5390003 | P3® 625 JCAT 3G AJ

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



Product Classification

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

General Specifications

Cable Type	625 Series
Construction Type	Swaged
Jacket Color	Black with three co-extruded green stripes
Short Description	P3 625 JCAT 3G AJ SM PR7709

Dimensions

Cable Length	2400 ft 731.52 m
Diameter Over Center Conductor, nominal	0.137 in 3.48 mm
Diameter Over Dielectric, nominal	0.565 in 14.351 mm
Diameter Over Jacket, nominal	0.685 in 17.399 mm
Diameter Over Outer Conductor, nominal	0.625 in 15.875 mm
Jacket Thickness, nominal	0.03 in 0.762 mm
Outer Conductor Thickness, nominal	0.03 in 0.762 mm

Electrical Specifications

Capacitance	15.3 pF/ft 50.197 pF/m
Capacitance Tolerance	±1.0 pF/ft
Characteristic Impedance	75 ohm
Characteristic Impedance Tolerance	±2 ohm

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dc Resistance Note	Nominal values based on a standard condition of 20 °C (68 °F)
dc Resistance, Inner Conductor, nominal	0.84 ohms/kft 2.756 ohms/km
dc Resistance, Loop, nominal	1.1 ohms/kft 3.609 ohms/km
dc Resistance, Outer Conductor, nominal	0.26 ohms/kft 0.853 ohms/km
Jacket Spark Test Voltage	5000 Vac
Nominal Velocity of Propagation (NVP)	87 %
Operating Frequency Band	5–3000 MHz
Structural Return Loss	24 dB @ 1003–1218 MHz 24 dB @ 1219–1794 MHz 30 dB @ 5–1002 MHz
Structural Return Loss, Grade N	≥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

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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

Center Conductor Material	Copper-clad aluminum
Dielectric Material	Foam PE
Jacket Material	Alternative jacket PE
Outer Conductor Material	Aluminum

Mechanical Specifications

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

Environmental Specifications

Environmental Space	Aerial
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Packaging and Weights

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

Regulatory Compliance/Certifications

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

