

# 5356603 | P3® 750 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	750 Series
Construction Type	Swaged
Jacket Color	Black with three co-extruded green stripes
Short Description	P3 750 JCAT 3G AJ SM PR7709

## Dimensions

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

## Electrical Specifications

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

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<b>dc Resistance Note</b>	Nominal values based on a standard condition of 20 °C (68 °F)
<b>dc Resistance, Inner Conductor, nominal</b>	1.87 ohms/km   0.57 ohms/kft
<b>dc Resistance, Loop, nominal</b>	2.493 ohms/km   0.76 ohms/kft
<b>dc Resistance, Outer Conductor, nominal</b>	0.623 ohms/km   0.19 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	0.36	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

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2200.0	9.05	2.76
2500.0	9.73	2.96
2700.0	10.16	3.1
3000.0	10.8	3.29

## 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	152.4 mm   6 in
Pulling Tension, maximum	306.175 kg   675 lb

## Environmental Specifications

Environmental Space	Aerial
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## Packaging and Weights

Packaging Type	Reel
Weight, gross	391.387 kg/km   263 lb/kft

## Regulatory Compliance/Certifications

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

