# 5370003 | P3® 500 JCAT B

75 Ohm P3® Trunk and Distribution Cable, black PE jacket with coextruded blue stripes



#### **Product Classification**

Product Type Coaxial hardline cable

Product Brand P3®

**Warranty** One year

General Specifications

Cable Type500 SeriesConstruction TypeSwaged

**Jacket Color**Black with co-extruded blue stripe

**Short Description** P3 500 JCAT B PR7344

**Dimensions** 

Cable Length731.52 m | 2400 ftDiameter Over Center Conductor, nominal2.769 mm | 0.109 inDiameter Over Dielectric, nominal11.481 mm | 0.452 inDiameter Over Jacket, nominal14.224 mm | 0.56 inDiameter Over Outer Conductor, nominal12.7 mm | 0.5 inJacket Thickness, nominal0.762 mm | 0.03 inOuter Conductor Thickness, nominal0.61 mm | 0.024 in

**Electrical Specifications** 

**Capacitance** 50.197 pF/m | 15.3 pF/ft

Capacitance Tolerance±1.0 pF/ftCharacteristic Impedance75 ohmCharacteristic 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, nominal4.429 ohms/km1.35 ohms/kftdc Resistance, Loop, nominal5.643 ohms/km1.72 ohms/kft

**dc Resistance, Outer Conductor, nominal** 1.214 ohms/km | 0.37 ohms/kft

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	0.52	0.16
55.0	1.77	0.54
85.0	2.23	0.68
204.0	3.51	1.07
211.0	3.58	1.09
250.0	3.94	1.2
300.0	4.3	1.31
350.0	4.69	1.43
400.0	5.02	1.53
450.0	5.35	1.63
500.0	5.67	1.73
550.0	5.97	1.82
600.0	6.3	1.92
750.0	7.09	2.16
865.0	7.68	2.34
1002.0	8.32	2.54
1218.0	9.28	2.83
1500.0	10.68	3.26
1794.0	11.88	3.62
1800.0	11.91	3.63
2000.0	12.68	3.87



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2200.0	13.44	4.1
2500.0	14.52	4.43
2700.0	15.22	4.64
3000.0	16.25	4.95

### Material Specifications

Center Conductor Material Copper-clad aluminum

**Dielectric Material** Foam PE

Jacket Material PE

Outer Conductor Material Aluminum

Mechanical Specifications

Minimum Bend Radius, bonded88.9 mm | 3.5 inPulling Tension, maximum136.078 kg | 300 lb

**Environmental Specifications** 

Environmental Space Aerial

Packaging and Weights

Packaging Type Reel

**Weight, gross** 178.58 kg/km | 120 lb/kft

### Regulatory Compliance/Certifications

Agency Classification

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

