# 5314203 | P3® 500 JCAT R SM MT

75 Ohm P3® Trunk and Distribution Cable, black PE jacket with coextruded red stripe



#### **Product Classification**

Product Type Coaxial hardline cable

Product Brand P3®

**Warranty** One year

### General Specifications

Cable Type500 SeriesConstruction TypeSwaged

Jacket ColorBlack with co-extruded red stripeShort DescriptionP3 500 JCAT R SM MT PR7280

#### **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



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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/km | 1.35 ohms/kftdc Resistance, Loop, nominal5.643 ohms/km | 1.72 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
CHINA-ROHS	Below maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
REACH-SVHC	Compliant as per SVHC revision on www.commscope.com/ProductCompliance
ROHS	Compliant
UK-ROHS	Compliant



