## 5390603 | P3® 750 JCA

#### 75 Ohm P3® Trunk and Distribution Cable, black PE jacket



 \*Product complies with the Build America, Buy America Act (BABAA) requirements of the Infrastructure Investment and Jobs Act of 2021 (Pub. L. 117- 58, §§ 70901-70953), or is the subject of a waiver approved by the Secretary of Commerce or designee. Compliance requirements and waiver applicability vary based on government funding program. Check the laws and regulations for your specific program.

#### **Product Classification**

Regional Availability

North America

Product Type Coaxial hardline cable

Product Brand P3®

**Government Funding**Build America Buy America (BABA) compliant\*

**Warranty** One year

General Specifications

Cable Type750 SeriesConstruction TypeSwagedJacket ColorBlack

**Short Description** P3 750 JCA SM PR2171

**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, nominal0.889 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

**COMMSCOPE®** 

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Characteristic Impedance75 ohmCharacteristic Impedance Tolerance±2 ohm

dc Resistance Note

Nominal values based on a standard condition of 20 °C (68 °F)

dc Resistance, Inner Conductor, nominal1.87 ohms/km | 0.57 ohms/kftdc Resistance, Loop, nominal2.493 ohms/km | 0.76 ohms/kftdc Resistance, Outer Conductor, nominal0.623 ohms/km | 0.19 ohms/kft

Jacket Spark Test Voltage5000 VacNominal 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

5.00.360.1155.01.210.3785.01.510.46204.02.360.72211.02.430.74250.02.660.81300.02.920.89350.03.180.97400.03.441.05450.03.671.12500.03.871.18550.04.071.24600.04.31.31750.04.861.48865.05.281.611002.05.721.741218.06.411.951500.07.32.231794.08.072.46	Frequency (MHz)	Attenuation (dB/100 m)	Attenuation (dB/100 ft)
85.01.510.46204.02.360.72211.02.430.74250.02.660.81300.02.920.89350.03.180.97400.03.441.05450.03.671.12500.03.871.18550.04.071.24600.04.31.31750.04.861.48865.05.281.611002.05.721.741218.06.411.951500.07.32.23	5.0	0.36	0.11
204.02.360.72211.02.430.74250.02.660.81300.02.920.89350.03.180.97400.03.441.05450.03.671.12500.03.871.18550.04.071.24600.04.31.31750.04.861.48865.05.281.611002.05.721.741218.06.411.951500.07.32.23	55.0	1.21	0.37
211.02.430.74250.02.660.81300.02.920.89350.03.180.97400.03.441.05450.03.671.12500.03.871.18550.04.071.24600.04.31.31750.04.861.48865.05.281.611002.05.721.741218.06.411.951500.07.32.23	85.0	1.51	0.46
250.02.660.81300.02.920.89350.03.180.97400.03.441.05450.03.671.12500.03.871.18550.04.071.24600.04.31.31750.04.861.48865.05.281.611002.05.721.741218.06.411.951500.07.32.23	204.0	2.36	0.72
300.02.920.89350.03.180.97400.03.441.05450.03.671.12500.03.871.18550.04.071.24600.04.31.31750.04.861.48865.05.281.611002.05.721.741218.06.411.951500.07.32.23	211.0	2.43	0.74
350.03.180.97400.03.441.05450.03.671.12500.03.871.18550.04.071.24600.04.31.31750.04.861.48865.05.281.611002.05.721.741218.06.411.951500.07.32.23	250.0	2.66	0.81
400.03.441.05450.03.671.12500.03.871.18550.04.071.24600.04.31.31750.04.861.48865.05.281.611002.05.721.741218.06.411.951500.07.32.23	300.0	2.92	0.89
450.03.671.12500.03.871.18550.04.071.24600.04.31.31750.04.861.48865.05.281.611002.05.721.741218.06.411.951500.07.32.23	350.0	3.18	0.97
500.03.871.18550.04.071.24600.04.31.31750.04.861.48865.05.281.611002.05.721.741218.06.411.951500.07.32.23	400.0	3.44	1.05
550.04.071.24600.04.31.31750.04.861.48865.05.281.611002.05.721.741218.06.411.951500.07.32.23	450.0	3.67	1.12
600.04.31.31750.04.861.48865.05.281.611002.05.721.741218.06.411.951500.07.32.23	500.0	3.87	1.18
750.04.861.48865.05.281.611002.05.721.741218.06.411.951500.07.32.23	550.0	4.07	1.24
865.05.281.611002.05.721.741218.06.411.951500.07.32.23	600.0	4.3	1.31
1002.05.721.741218.06.411.951500.07.32.23	750.0	4.86	1.48
1218.06.411.951500.07.32.23	865.0	5.28	1.61
<b>1500.0</b> 7.3 2.23	1002.0	5.72	1.74
	1218.0	6.41	1.95
<b>1794.0</b> 8.07 2.46	1500.0	7.3	2.23
	1794.0	8.07	2.46



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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
3000.0	10.8	3.29

### Material Specifications

Center Conductor Material Copper-clad aluminum

**Dielectric Material** Foam PE

Jacket Material PE

Outer Conductor Material Aluminum

Mechanical Specifications

Minimum Bend Radius, bonded152.4 mm | 6 inPulling Tension, maximum306.175 kg | 675 lb

## **Environmental Specifications**

Environmental Space Aerial

Packaging and Weights

Packaging Type Reel

**Weight, gross** 386.923 kg/km | 260 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





