# 5309003 | P3® 875 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 Type875 SeriesConstruction TypeSwagedJacket ColorBlack

**Short Description** P3 875 JCA SM PR2171

Dimensions

Cable Length762 m | 2500 ftDiameter Over Center Conductor, nominal4.928 mm | 0.194 inDiameter Over Dielectric, nominal20.244 mm | 0.797 inDiameter Over Jacket, nominal24.003 mm | 0.945 inDiameter Over Outer Conductor, nominal22.225 mm | 0.875 inJacket Thickness, nominal0.889 mm | 0.035 in

**Electrical Specifications** 

**Outer Conductor Thickness, nominal** 

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

**Capacitance Tolerance** ±1.0 pF/ft

COMMSCOPE®

0.991 mm | 0.039 in

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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, nominal1.378 ohms/km | 0.42 ohms/kftdc Resistance, Loop, nominal1.804 ohms/km | 0.55 ohms/kftdc Resistance, Outer Conductor, nominal0.427 ohms/km | 0.13 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

Frequency (MHz)	Attenuation (dB/100 m)	Attenuation (dB/100 ft)
5.0	0.3	0.09
55.0	1.08	0.33
85.0	1.31	0.4
204.0	2.07	0.63
211.0	2.17	0.66
250.0	2.36	0.72
300.0	2.56	0.78
350.0	2.76	0.84
400.0	2.99	0.91
450.0	3.18	0.97
500.0	3.38	1.03
550.0	3.54	1.08
600.0	3.74	1.14
750.0	4.23	1.29
865.0	4.63	1.41
1002.0	5.02	1.53
1218.0	5.57	1.7
1500.0	6.39	1.95
1794.0	7.13	2.17





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1800.0	7.14	2.18
2000.0	7.62	2.32
2200.0	8.09	2.46
2500.0	8.76	2.67
2700.0	9.19	2.8
3000.0	9.83	3

## Material Specifications

Center Conductor Material Copper-clad aluminum

**Dielectric Material** Foam PE

Jacket Material PE

Outer Conductor Material Aluminum

Mechanical Specifications

Minimum Bend Radius, bonded177.8 mm7 inPulling Tension, maximum396.893 kg | 875 lb

## **Environmental Specifications**

Environmental Space Aerial

Packaging and Weights

Packaging Type Reel

**Weight, gross** 500.023 kg/km | 336 lb/kft

## Regulatory Compliance/Certifications

Agency Classification

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



