5727803 | P3® 840 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 RequirementsBuild America Buy America (BABA) compliant*

Warranty One year

General Specifications

Cable Type840 SeriesConstruction TypeSwagedJacket ColorBlack

Location of ManufacturingCatawba, North CarolinaShort DescriptionP3 840 JCA SM PR2171

Dimensions

Cable Length731.52 m | 2400 ftDiameter Over Center Conductor, nominal4.928 mm | 0.194 inDiameter Over Dielectric, nominal19.812 mm | 0.78 inDiameter Over Jacket, nominal23.114 mm | 0.91 inDiameter Over Outer Conductor, nominal21.336 mm | 0.84 inJacket Thickness, nominal0.889 mm | 0.035 inOuter Conductor Thickness, nominal0.762 mm | 0.03 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, nominal1.411 ohms/km | 0.43 ohms/kftdc Resistance, Loop, nominal1.969 ohms/km | 0.6 ohms/kftdc Resistance, Outer Conductor, nominal0.558 ohms/km | 0.17 ohms/kft

Jacket Spark Test Voltage5000 VacNominal Velocity of Propagation (NVP)89 %

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	1.05	0.32
85.0	1.28	0.39
204.0	2.07	0.63
211.0	2.13	0.65
250.0	2.3	0.7
300.0	2.53	0.77
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	3.58	1.09
600.0	3.74	1.14
750.0	4.27	1.3
865.0	4.66	1.42
1000.0	5.02	1.53
1002.0	5.05	1.54
1218.0	5.68	1.73
1500.0	6.39	1.95



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1794.0	7.13	2.17
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
2800.0	9.61	2.93
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, bonded190.5 mm7.5 inPulling Tension, maximum317.515 kg700 lb

Environmental Specifications

Environmental Space Aerial

Packaging and Weights

Packaging Type Reel

Weight, gross 465.795 kg/km | 313 lb/kft

Regulatory Compliance/Certifications

CHINA-ROHS Below maximum concentration value	
ISO 9001:2015 Designed, manufactured and/or distributed under this quality management syst	em
REACH-SVHC Compliant as per SVHC revision on www.commscope.com/ProductCompliance	
ROHS Compliant	
UK-ROHS Compliant	



