CX3250062 | 1000135P3500JCASS COEX



 *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 cable-in-conduit

Product Brand ConQuest®

Product Series 500 Series

Government RequirementsBuild America Buy America (BABA) compliant*

General Specifications

Cable Type500 SeriesCable-In-Conduit TypeP3® in duct

Color Orange

Conduit Type Non-toneable

Location of ManufacturingCatawba, North Carolina

Wall Type Smooth

Dimensions

Length 731.52 m | 2400 ft

Wall Thickness Designation SDR 13.5

Nominal Size 1 in

Packaging and Weights

Weight, net 395.852 kg/km | 266 lb/kft

Included Products

5302203 – 75 Ohm P3® Trunk and Distribution Cable, black PE jacket, flooded for

P3® 500 JCASS underground

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5302203 | P3® 500 JCASS



75 Ohm P3® Trunk and Distribution Cable, black PE jacket, flooded for underground

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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 Type500 SeriesConstruction TypeSwagedJacket ColorBlack

Location of ManufacturingCatawba, North CarolinaShort DescriptionP3 500 JCASS SM PR997

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, nominal14.478 mm | 0.57 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



5302203 | P3® 500 JCASS

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/kftdc Resistance, Outer Conductor, nominal1.214 ohms/km | 0.37 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	0.52	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





5302203 | P3® 500 JCASS

1794.0	11.88	3.62
1800.0	11.91	3.63
2000.0	12.68	3.87
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

 Corrosion Protection
 Migraheal®

 Environmental Space
 Buried

Packaging and Weights

Packaging Type Reel

Weight, gross 183.044 kg/km | 123 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



