530100803 | P3® 500 JCASS SM MT

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



Product Classification

Product Type Coaxial hardline cable

Product Brand P3®

Warranty One year

General Specifications

Cable Type500 SeriesConstruction TypeSwagedJacket ColorBlack

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

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



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dc Resistance, Inner Conductor, nominal4.429 ohms/km1.35 ohms/kftdc Resistance, Loop, nominal5.643 ohms/km1.72 ohms/kft

dc Resistance, Outer Conductor, nominal 1.214 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

| 5.00.520.1655.01.770.5485.02.230.68204.03.511.07211.03.581.09250.03.941.2300.04.31.31 | Frequency (MHz) | Attenuation (dB/100 m) | Attenuation (dB/100 ft) |
|---|-----------------|------------------------|-------------------------|
| 85.02.230.68204.03.511.07211.03.581.09250.03.941.2 | 5.0 | 0.52 | 0.16 |
| 204.03.511.07211.03.581.09250.03.941.2 | 55.0 | 1.77 | 0.54 |
| 211.03.581.09250.03.941.2 | 85.0 | 2.23 | 0.68 |
| 250.0 3.94 1.2 | 204.0 | 3.51 | 1.07 |
| | 211.0 | 3.58 | 1.09 |
| 300.0 4.3 1.31 | 250.0 | 3.94 | 1.2 |
| | 300.0 | 4.3 | 1.31 |
| 350.0 4.69 1.43 | 350.0 | 4.69 | 1.43 |
| 400.0 5.02 1.53 | 400.0 | 5.02 | 1.53 |
| 450.0 5.35 1.63 | 450.0 | 5.35 | 1.63 |
| 500.0 5.67 1.73 | 500.0 | 5.67 | 1.73 |
| 550.0 5.97 1.82 | 550.0 | 5.97 | 1.82 |
| 600.0 6.3 1.92 | 600.0 | 6.3 | 1.92 |
| 750.0 7.09 2.16 | 750.0 | 7.09 | 2.16 |
| 865.0 7.68 2.34 | 865.0 | 7.68 | 2.34 |
| 1002.0 8.32 2.54 | 1002.0 | 8.32 | 2.54 |
| 1218.0 9.28 2.83 | 1218.0 | 9.28 | 2.83 |
| 1500.0 10.68 3.26 | 1500.0 | 10.68 | 3.26 |
| 1794.0 11.88 3.62 | 1794.0 | 11.88 | 3.62 |
| 1800.0 11.91 3.63 | 1800.0 | 11.91 | 3.63 |
| 2000.0 12.68 3.87 | 2000.0 | 12.68 | 3.87 |
| 2200.0 13.44 4.1 | 2200.0 | 13.44 | 4.1 |





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2500.014.524.432700.015.224.643000.016.254.95

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



