5302203 | P3® 500 JCASS

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

Short Description P3 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

COMMSCOPE®

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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/kft

dc Resistance, Outer Conductor, nominal 1.214 ohms/km | 0.37 ohms/kft

Jacket Spark Test Voltage 5000 Vac

Nominal 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

5.0 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
1794.0 11.88 3.62
1800.0 11.91 3.63
2000.0 12.68 3.87



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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

AgencyClassificationCHINA-ROHSBelow maximum concentration valueISO 9001:2015Designed, manufactured and/or distributed under this quality management systemREACH-SVHCCompliant as per SVHC revision on www.commscope.com/ProductComplianceROHSCompliant



