## 5333603 | P3® 700 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 Type700 SeriesConstruction TypeSwagedJacket ColorBlack

**Short Description** P3 700 JCASS SM PR997

#### **Dimensions**

Cable Length762 m | 2500 ftDiameter Over Center Conductor, nominal4.14 mm | 0.163 inDiameter Over Dielectric, nominal16.586 mm | 0.653 inDiameter Over Jacket, nominal19.685 mm | 0.775 inDiameter Over Outer Conductor, nominal17.856 mm | 0.703 inJacket Thickness, nominal0.787 mm | 0.031 inOuter Conductor Thickness, nominal0.635 mm | 0.025 in

### **Electrical Specifications**

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



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

dc Resistance, Inner Conductor, nominal1.936 ohms/km0.59 ohms/kftdc Resistance, Loop, nominal2.756 ohms/km0.84 ohms/kft

dc Resistance, Outer Conductor, nominal 0.82 ohms/km | 0.25 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	0.36	0.11
55.0	1.18	0.36
85.0	1.51	0.46
204.0	2.4	0.73
211.0	2.4	0.73
250.0	2.66	0.81
300.0	2.95	0.9
350.0	3.22	0.98
400.0	3.45	1.05
450.0	3.67	1.12
500.0	3.9	1.19
550.0	4.1	1.25
600.0	4.3	1.31
750.0	4.89	1.49
865.0	5.32	1.62
1002.0	5.77	1.76
1218.0	6.43	1.96
1500.0	7.21	2.2
1794.0	7.98	2.43
1800.0	8	2.44
2000.0	8.5	2.59



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2200.0	8.98	2.74
2500.0	9.67	2.95
2700.0	10.11	3.08
3000.0	10.76	3.28

### Material Specifications

Center Conductor Material Copper-clad aluminum

**Dielectric Material** Foam PE

Jacket Material PE

Outer Conductor Material Aluminum

Mechanical Specifications

Minimum Bend Radius, bonded165.1 mm | 6.5 inPulling Tension, maximum226.796 kg | 500 lb

#### **Environmental Specifications**

**Corrosion Protection** Migraheal®

Environmental Space Buried

Packaging and Weights

Packaging Type Reel

**Weight, gross** 306.562 kg/km | 206 lb/kft

#### Regulatory Compliance/Certifications

Agency Classification

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

