## 5204002 | P3® 750 CA

### 75 Ohm P3® Trunk and Distribution Cable, unjacketed



#### **Product Classification**

Product Type Coaxial hardline cable

Product Brand P3®

**Warranty** One year

General Specifications

Cable Type750 SeriesConstruction TypeSwagedJacket ColorUnjacketedShort DescriptionP3 750 CA

#### **Dimensions**

**Cable Length** 762 m | 2500 ft

Diameter Over Center Conductor, nominal4.242 mm0.167 inDiameter Over Dielectric, nominal17.323 mm0.682 inDiameter Over Outer Conductor, nominal19.05 mm0.75 inOuter Conductor Thickness, nominal0.864 mm0.034 in

## **Electrical Specifications**

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

Capacitance Tolerance±1.0 pF/ftCharacteristic 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, nominal 1.87 ohms/km | 0.57 ohms/kft



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dc Resistance, Loop, nominal2.493 ohms/km | 0.76 ohms/kft

dc Resistance, Outer Conductor, nominal0.623 ohms/km | 0.19 ohms/kft

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

 $\mathsf{MHz}$ 

**Structural Return Loss, Grade N**  $\geq 24 \text{ dB} \ @ \ 1003 - 1218 \text{ MHz} \ | \ \geq 24 \text{ dB} \ @ \ 1219 - 1794 \text{ MHz} \ | \ \geq 30 \text{ dB} \ @ \ 5 - 1002$ 

MHz

#### Attenuation

Frequency (MHz)	Attenuation (dB/100 m)	Attenuation (dB/100 ft)
5.0	0.36	0.11
55.0	1.21	0.37
85.0	1.51	0.46
204.0	2.36	0.72
211.0	2.43	0.74
250.0	2.66	0.81
300.0	2.92	0.89
350.0	3.18	0.97
400.0	3.44	1.05
450.0	3.67	1.12
500.0	3.87	1.18
550.0	4.07	1.24
600.0	4.3	1.31
750.0	4.86	1.48
865.0	5.28	1.61
1002.0	5.72	1.74
1218.0	6.41	1.95
1500.0	7.3	2.23
1794.0	8.07	2.46
1800.0	8.08	2.46
2000.0	8.57	2.61
2200.0	9.05	2.76
2500.0	9.73	2.96
2700.0	10.16	3.1
3000.0	10.8	3.29

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## Material Specifications

Center Conductor Material Copper-clad aluminum

Dielectric MaterialFoam PEJacket MaterialUnjacketedOuter Conductor MaterialAluminum

Mechanical Specifications

Minimum Bend Radius, standard228.6 mm | 9 inPulling Tension, maximum306.175 kg | 675 lb

**Environmental Specifications** 

Environmental Space Aerial

Packaging and Weights

Packaging Type Reel

**Weight, gross** 333.349 kg/km | 224 lb/kft

### Regulatory Compliance/Certifications

Agency Classification

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

