5209002 | P3® 875 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 Type875 SeriesConstruction TypeSwagedJacket ColorUnjacketedShort DescriptionP3 875 CA

Dimensions

Cable Length 762 m | 2500 ft

Diameter Over Center Conductor, nominal4.928 mm | 0.194 inDiameter Over Dielectric, nominal20.244 mm | 0.797 inDiameter Over Outer Conductor, nominal22.225 mm | 0.875 inOuter Conductor Thickness, nominal0.991 mm | 0.039 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 1.378 ohms/km | 0.42 ohms/kft



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dc Resistance, Loop, nominal 1.804 ohms/km | 0.55 ohms/kft

 $\begin{tabular}{lll} \textbf{dc Resistance, Outer Conductor, nominal} & 0.427 \ ohms/km & | 0.13 \ ohms/kft \end{tabular}$

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 $\geq 24 \text{ dB} \ @ \ 1003 - 1218 \text{ MHz} \ | \ \geq 24 \text{ dB} \ @ \ 1219 - 1794 \text{ MHz} \ | \ \geq 30 \text{ dB} \ @ \ 5 - 1002$

MHz

Attenuation

Frequency (MHz)	Attenuation (dB/100 m)	Attenuation (dB/100 ft)
5.0	0.3	0.09
55.0	1.08	0.33
85.0	1.31	0.4
204.0	2.07	0.63
211.0	2.17	0.66
250.0	2.36	0.72
300.0	2.56	0.78
350.0	2.76	0.84
400.0	2.99	0.91
450.0	3.18	0.97
500.0	3.38	1.03
550.0	3.54	1.08
600.0	3.74	1.14
750.0	4.23	1.29
865.0	4.63	1.41
1002.0	5.02	1.53
1218.0	5.57	1.7
1500.0	6.39	1.95
1794.0	7.13	2.17
1800.0	7.14	2.18
2000.0	7.62	2.32
2200.0	8.09	2.46
2500.0	8.76	2.67
2700.0	9.19	2.8
3000.0	9.83	3

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Material Specifications

Center Conductor Material Copper-clad aluminum

Dielectric MaterialFoam PEJacket MaterialUnjacketedOuter Conductor MaterialAluminum

Mechanical Specifications

Minimum Bend Radius, standard254 mm | 10 inPulling Tension, maximum396.893 kg | 875 lb

Environmental Specifications

Environmental Space Aerial

Packaging and Weights

Packaging Type Reel

Weight, gross 446.449 kg/km | 300 lb/kft

Regulatory Compliance/Certifications

Agency Classification

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

