

75 Ohm P3® Trunk and Distribution Cable, unjacketed



Product Classification

Product Type	Coaxial hardline cable
Product Brand	P3®
Warranty	One year

General Specifications

Cable Type	875 series
Construction Type	Swaged
Jacket Color	Unjacketed
Short Description	P3 875 CA

Dimensions

Cable Length	762 m 2500 ft
Diameter Over Center Conductor, nominal	4.928 mm 0.194 in
Diameter Over Dielectric, nominal	20.244 mm 0.797 in
Diameter Over Outer Conductor, nominal	22.225 mm 0.875 in
Outer Conductor Thickness, nominal	0.991 mm 0.039 in

Electrical Specifications

Capacitance	50.197 pF/m 15.3 pF/ft
Capacitance Tolerance	±1.0 pF/ft
Characteristic Impedance	75 ohm
Characteristic 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
dc Resistance, Loop, nominal	1.804 ohms/km 0.55 ohms/kft

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dc Resistance, Outer Conductor, nominal	0.427 ohms/km 0.13 ohms/kft
Nominal Velocity of Propagation (NVP)	87 %
Operating Frequency Band	5–3000 MHz
Structural Return Loss	26 dB @ 1002–1218 MHz 30 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
83.0	1.35	0.41
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
1000.0	4.99	1.52
1002.0	5.03	1.53
1218.0	5.57	1.7
1300.0	5.78	1.76
1400.0	6.03	1.84
1500.0	6.27	1.91
1600.0	6.51	1.98
1700.0	6.74	2.05
1794.0	6.95	2.12
1800.0	7.02	2.14
2000.0	7.4	2.26
2200.0	7.82	2.38

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2400.0	8.23	2.51
2600.0	8.63	2.63
2800.0	9.02	2.75
3000.0	9.39	2.86

Material Specifications

Center Conductor Material	Copper-clad aluminum
Dielectric Material	Foam PE
Jacket Material	Unjacketed
Outer Conductor Material	Aluminum

Mechanical Specifications

Minimum Bend Radius, standard	254 mm 10 in
Pulling Tension, maximum	396.893 kg 875 lb

Environmental Specifications

Environmental Space	Aerial
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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

