

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 Type	875 Series
Construction Type	Swaged
Jacket Color	Black
Short Description	P3 875 JCASS SM PR997

Dimensions

Cable Length	2500 ft 762 m
Diameter Over Center Conductor, nominal	0.194 in 4.928 mm
Diameter Over Dielectric, nominal	0.797 in 20.244 mm
Diameter Over Jacket, nominal	0.955 in 24.257 mm
Diameter Over Outer Conductor, nominal	0.875 in 22.225 mm
Jacket Thickness, nominal	0.035 in 0.889 mm
Outer Conductor Thickness, nominal	0.039 in 0.991 mm

Electrical Specifications

Capacitance	15.3 pF/ft 50.197 pF/m
Capacitance Tolerance	±1.0 pF/ft
Characteristic Impedance	75 ohm
Characteristic Impedance Tolerance	±2 ohm

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dc Resistance Note	Nominal values based on a standard condition of 20 °C (68 °F)
dc Resistance, Inner Conductor, nominal	0.42 ohms/kft 1.378 ohms/km
dc Resistance, Loop, nominal	0.55 ohms/kft 1.804 ohms/km
dc Resistance, Outer Conductor, nominal	0.13 ohms/kft 0.427 ohms/km
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

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

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2200.0	8.09	2.46
2500.0	8.76	2.67
2700.0	9.19	2.8
3000.0	9.83	3

Material Specifications

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

Mechanical Specifications

Minimum Bend Radius, bonded	7 in 177.8 mm
Pulling Tension, maximum	875 lb 396.893 kg

Environmental Specifications

Corrosion Protection	Migraheal®
Environmental Space	Buried

Packaging and Weights

Packaging Type	Reel
Weight, gross	340 lb/kft 505.976 kg/km

Regulatory Compliance/Certifications

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

