



75 Ohm P3® Trunk and Distribution Cable, black PE jacket, flooded for underground

Product Classification

Brand	P3®
Product Type	Coaxial hardline cable

Construction Materials

Corrosion Protection	Migraheal®
Jacket Material	PE
Center Conductor Material	Copper-clad aluminum
Construction Type	Swaged
Dielectric Material	Foam PE
Outer Conductor Material	Aluminum

Dimensions

Diameter Over Center Conductor, nominal	3.480 mm 0.137 in
Diameter Over Dielectric, nominal	14.351 mm 0.565 in
Diameter Over Outer Conductor, nominal	15.875 mm 0.625 in
Diameter Over Inner Jacket, nominal	17.653 mm 0.695 in
Diameter Over Jacket, nominal	21.590 mm 0.850 in
Inner Jacket Thickness, nominal	0.762 mm 0.030 in
Jacket Thickness, nominal	0.7620 mm 0.0300 in
Outer Conductor Thickness, nominal	0.7620 mm 0.0300 in
Cable Length	732 m 2400 ft
Shipping Weight	187.00 lb/kft

Electrical Specifications

dc Resistance, Inner Conductor, nominal	0.84 ohms/kft
dc Resistance, Outer Conductor, nominal	0.26 ohms/kft
dc Resistance, Loop, nominal	1.10 ohms/kft
dc Resistance Note	Nominal values based on a standard condition of 20 °C (68 °F)
Capacitance	50.2 pF/m 15.3 pF/ft
Capacitance Tolerance	±1.0 pF/ft
Characteristic Impedance	75 ohm
Characteristic Impedance Tolerance	±2 ohm
Jacket Spark Test Voltage	5000 Vac
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

Environmental Specifications

Environmental Space	Buried
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General Specifications

Cable Type	625 series
Jacket Color	Black
Packaging Type	Reel
Warranty	One year

Mechanical Specifications

Minimum Bend Radius, bonded	114.30 mm 4.50 in
Pulling Tension, maximum	215 kg 475 lb

Electrical Performance

Frequency	Attenuation (dB/100 m)	Attenuation (dB/100 ft)
5 MHz	0.43	0.13
55 MHz	1.48	0.45
83 MHz	1.84	0.56
85 MHz	1.84	0.56
204 MHz	2.92	0.89
211 MHz	3.02	0.92
250 MHz	3.28	1.00
300 MHz	3.54	1.08
350 MHz	3.87	1.18
400 MHz	4.17	1.27
450 MHz	4.43	1.35
500 MHz	4.69	1.43
550 MHz	4.92	1.50
600 MHz	5.18	1.58
750 MHz	5.84	1.78
865 MHz	6.33	1.93
1000 MHz	6.79	2.07
1002 MHz	6.80	2.07
1218 MHz	7.63	2.33
1300 MHz	7.94	2.42
1400 MHz	8.29	2.53
1500 MHz	8.62	2.63
1600 MHz	8.95	2.73
1700 MHz	9.27	2.83
1794 MHz	9.56	2.92
1800 MHz	9.58	2.93
2000 MHz	10.19	3.11

2200 MHz	10.78	3.28
2400 MHz	11.35	3.46
2600 MHz	11.90	3.63
2800 MHz	12.44	3.79
3000 MHz	12.96	3.95

* Attenuation listed represents maximum values at standard condition of 20 °C (68 °F)

Regulatory Compliance/Certifications

Agency

RoHS 2011/65/EU
ISO 9001:2015

Classification

Compliant
Designed, manufactured and/or distributed under this quality management system

