



5302203 | P3® 500 JCASS

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	2.769 mm		0.109 in
Diameter Over Dielectric, nominal	11.481 mm		0.452 in
Diameter Over Outer Conductor, nominal	12.700 mm		0.500 in
Diameter Over Jacket, nominal	14.478 mm		0.570 in
Jacket Thickness, nominal	0.7620 mm		0.0300 in
Outer Conductor Thickness, nominal	0.6096 mm		0.0240 in
Cable Length	732 m		2400 ft
Shipping Weight	123.00 lb/kft		

Electrical Specifications

dc Resistance, Inner Conductor, nominal	1.35 ohms/kft
dc Resistance, Outer Conductor, nominal	0.37 ohms/kft
dc Resistance, Loop, nominal	1.72 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	1002–1218 MHz 5–1002 MHz
Structural Return Loss	30 dB @ 5–1002 MHz

Environmental Specifications

Environmental Space	Buried
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General Specifications

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Cable Type	500 series
Brand	P3®
Jacket Color	Black
Packaging Type	Reel
Short Description	P3 500 JCASS SM PR997
Warranty	One year

Mechanical Specifications

Minimum Bend Radius, bonded	88.90 mm 3.50 in
Pulling Tension, maximum	136 kg 300 lb

Electrical Performance

Frequency	Attenuation (dB/100 m)	Attenuation (dB/100 ft)
5 MHz	0.52	0.16
55 MHz	1.77	0.54
83 MHz	2.17	0.66
85 MHz	2.23	0.68
204 MHz	3.51	1.07
211 MHz	3.58	1.09
250 MHz	3.94	1.20
300 MHz	4.30	1.31
350 MHz	4.69	1.43
400 MHz	5.02	1.53
450 MHz	5.35	1.63
500 MHz	5.67	1.73
550 MHz	5.97	1.82
600 MHz	6.27	1.91
750 MHz	7.09	2.16
865 MHz	7.68	2.34
1000 MHz	8.27	2.52
1002 MHz	8.33	2.54
1300 MHz	2.95	2.81
1400 MHz	3.09	2.94
1500 MHz	10.55	3.22
1600 MHz	10.97	3.34
1700 MHz	11.38	3.47
1794 MHz	11.76	3.58
1800 MHz	11.78	3.59

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

Regulatory Compliance/Certifications

Agency	Classification
RoHS 2011/65/EU	Compliant
ISO 9001:2008	Designed, manufactured and/or distributed under this quality management system