5341403 | P3 625 JCASS SM PR2171

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

- *Product complies with the Build America, Buy America Act (BABAA) requirements of the Infrastructure Investment and Jobs Act of 2021 (Pub. L. 117- 58, §§ 70901-70953), or is the subject of a waiver approved by the Secretary of Commerce or designee. Compliance requirements and waiver applicability vary based on government funding program. Check the laws and regulations for your specific program.

Product Classification

Regional Availability	North America
Product Type	Coaxial hardline cable
Product Brand	P3®
Government Requirements	Build America Buy America (BABA) compliant*
Warranty	One year

General Specifications

Cable Type	625 Series
Construction Type	Swaged
Jacket Color	Black
Location of Manufacturing	Catawba, North Carolina
Short Description	P3 625 JCASS SM PR997

Dimensions

Cable Length	731.52 m | 2400 ft
Diameter Over Center Conductor, nominal	3.48 mm | 0.137 in
Diameter Over Dielectric, nominal	14.351 mm | 0.565 in
Diameter Over Inner Jacket, nominal	17.653 mm | 0.695 in
Diameter Over Jacket, nominal	21.59 mm | 0.85 in
Diameter Over Outer Conductor, nominal	15.875 mm | 0.625 in
Armor Thickness, nominal	0.203 mm | 0.008 in
Inner Jacket Thickness, nominal	0.762 mm | 0.03 in
Jacket Thickness, nominal	0.762 mm | 0.03 in
Outer Conductor Thickness, nominal	0.762 mm | 0.03 in

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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	2.756 ohms/km | 0.84 ohms/kft
dc Resistance, Loop, nominal	3.609 ohms/km | 1.1 ohms/kft
dc Resistance, Outer Conductor, nominal	0.853 ohms/km | 0.26 ohms/kft
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	0.43	0.13
55.0	1.48	0.45
85.0	1.84	0.56
204.0	2.92	0.89
211.0	3.02	0.92
250.0	3.28	1
300.0	3.54	1.08
350.0	3.87	1.18
400.0	4.17	1.27
450.0	4.43	1.35
500.0	4.69	1.43
550.0	4.92	1.5
600.0	5.18	1.58
750.0	5.84	1.78
865.0	6.33	1.93

1002.0	6.92	2.11
1218.0	7.62	2.32
1500.0	8.74	2.66
1794.0	9.7	2.96
1800.0	9.72	2.96
2000.0	10.34	3.15
2200.0	10.95	3.34
2500.0	11.81	3.6
2700.0	12.37	3.77
3000.0	13.19	4.02

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	114.3 mm | 4.5 in
Pulling Tension, maximum	215.456 kg | 475 lb

Environmental Specifications

Corrosion Protection	Migraheal®
Environmental Space	Buried

Packaging and Weights

Packaging Type	Reel
Weight, gross	278.287 kg/km | 187 lb/kft

Regulatory Compliance/Certifications

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