5204002 | P3® 750 CA



75 Ohm P3® Trunk and Distribution Cable, unjacketed

 *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 RequirementsBuild America Buy America (BABA) compliant*

Warranty One year

General Specifications

Cable Type750 SeriesConstruction TypeSwagedJacket ColorUnjacketed

Location of ManufacturingCatawba, North Carolina

Short Description P3 750 CA

Dimensions

Cable Length 762 m | 2500 ft

Diameter Over Center Conductor, nominal4.242 mm | 0.167 inDiameter Over Dielectric, nominal17.323 mm | 0.682 inDiameter Over Outer Conductor, nominal19.05 mm | 0.75 inOuter Conductor Thickness, nominal0.864 mm | 0.034 in

Electrical Specifications

Capacitance 50.197 pF/m | 15.3 pF/ft

Capacitance Tolerance±1.0 pF/ftCharacteristic Impedance75 ohmCharacteristic 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, nominal1.87 ohms/km | 0.57 ohms/kftdc Resistance, Loop, nominal2.493 ohms/km | 0.76 ohms/kft

dc Resistance, Outer Conductor, nominal 0.623 ohms/km | 0.19 ohms/kft

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

5.00.360.1155.01.210.3785.01.510.46204.02.360.72211.02.430.74250.02.660.81300.02.920.89350.03.180.97400.03.441.05450.03.671.12500.03.871.18550.04.071.24600.04.31.31750.04.861.48865.05.281.611002.05.721.741218.06.411.951500.07.32.231794.08.072.461800.08.082.462000.08.572.612200.09.052.76	Frequency (MHz)	Attenuation (dB/100 m)	Attenuation (dB/100 ft)
85.0 1.51 0.46 204.0 2.36 0.72 211.0 2.43 0.74 250.0 2.66 0.81 300.0 2.92 0.89 350.0 3.18 0.97 400.0 3.44 1.05 450.0 3.67 1.12 500.0 3.87 1.18 550.0 4.07 1.24 600.0 4.3 1.31 750.0 4.86 1.48 865.0 5.28 1.61 1002.0 5.72 1.74 1218.0 6.41 1.95 1500.0 7.3 2.23 1794.0 8.07 2.46 1800.0 8.08 2.46 2000.0 8.57 2.61	5.0	0.36	0.11
204.0 2.36 0.72 211.0 2.43 0.74 250.0 2.66 0.81 300.0 2.92 0.89 350.0 3.18 0.97 400.0 3.44 1.05 450.0 3.67 1.12 500.0 3.87 1.18 550.0 4.07 1.24 600.0 4.3 1.31 750.0 4.86 1.48 865.0 5.28 1.61 1002.0 5.72 1.74 1218.0 6.41 1.95 1500.0 7.3 2.23 1794.0 8.07 2.46 1800.0 8.08 2.46 2000.0 8.57 2.61	55.0	1.21	0.37
211.0 2.43 0.74 250.0 2.66 0.81 300.0 2.92 0.89 350.0 3.18 0.97 400.0 3.44 1.05 450.0 3.67 1.12 500.0 3.87 1.18 550.0 4.07 1.24 600.0 4.3 1.31 750.0 4.86 1.48 865.0 5.28 1.61 1002.0 5.72 1.74 1218.0 6.41 1.95 1500.0 7.3 2.23 1794.0 8.07 2.46 1800.0 8.08 2.46 2000.0 8.57 2.61	85.0	1.51	0.46
250.02.660.81300.02.920.89350.03.180.97400.03.441.05450.03.671.12500.03.871.18550.04.071.24600.04.31.31750.04.861.48865.05.281.611002.05.721.741218.06.411.951500.07.32.231794.08.072.461800.08.082.462000.08.572.61	204.0	2.36	0.72
300.02.920.89350.03.180.97400.03.441.05450.03.671.12500.03.871.18550.04.071.24600.04.31.31750.04.861.48865.05.281.611002.05.721.741218.06.411.951500.07.32.231794.08.072.461800.08.082.462000.08.572.61	211.0	2.43	0.74
350.03.180.97400.03.441.05450.03.671.12500.03.871.18550.04.071.24600.04.31.31750.04.861.48865.05.281.611002.05.721.741218.06.411.951500.07.32.231794.08.072.461800.08.082.462000.08.572.61	250.0	2.66	0.81
400.03.441.05450.03.671.12500.03.871.18550.04.071.24600.04.31.31750.04.861.48865.05.281.611002.05.721.741218.06.411.951500.07.32.231794.08.072.461800.08.082.462000.08.572.61	300.0	2.92	0.89
450.03.671.12500.03.871.18550.04.071.24600.04.31.31750.04.861.48865.05.281.611002.05.721.741218.06.411.951500.07.32.231794.08.072.461800.08.082.462000.08.572.61	350.0	3.18	0.97
500.03.871.18550.04.071.24600.04.31.31750.04.861.48865.05.281.611002.05.721.741218.06.411.951500.07.32.231794.08.072.461800.08.082.462000.08.572.61	400.0	3.44	1.05
550.04.071.24600.04.31.31750.04.861.48865.05.281.611002.05.721.741218.06.411.951500.07.32.231794.08.072.461800.08.082.462000.08.572.61	450.0	3.67	1.12
600.04.31.31750.04.861.48865.05.281.611002.05.721.741218.06.411.951500.07.32.231794.08.072.461800.08.082.462000.08.572.61	500.0	3.87	1.18
750.04.861.48865.05.281.611002.05.721.741218.06.411.951500.07.32.231794.08.072.461800.08.082.462000.08.572.61	550.0	4.07	1.24
865.05.281.611002.05.721.741218.06.411.951500.07.32.231794.08.072.461800.08.082.462000.08.572.61	600.0	4.3	1.31
1002.05.721.741218.06.411.951500.07.32.231794.08.072.461800.08.082.462000.08.572.61	750.0	4.86	1.48
1218.06.411.951500.07.32.231794.08.072.461800.08.082.462000.08.572.61	865.0	5.28	1.61
1500.07.32.231794.08.072.461800.08.082.462000.08.572.61	1002.0	5.72	1.74
1794.08.072.461800.08.082.462000.08.572.61	1218.0	6.41	1.95
1800.08.082.462000.08.572.61	1500.0	7.3	2.23
2000.0 8.57 2.61	1794.0	8.07	2.46
	1800.0	8.08	2.46
2200.0 9.05 2.76	2000.0	8.57	2.61
	2200.0	9.05	2.76



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2500.0	9.73	2.96
2700.0	10.16	3.1
3000.0	10.8	3.29

Material Specifications

Center Conductor Material Copper-clad aluminum

Dielectric MaterialFoam PEJacket MaterialUnjacketedOuter Conductor MaterialAluminum

Mechanical Specifications

Minimum Bend Radius, standard228.6 mm | 9 inPulling Tension, maximum306.175 kg | 675 lb

Environmental Specifications

Environmental Space Aerial

Packaging and Weights

Packaging Type Reel

Weight, gross 333.349 kg/km | 224 lb/kft

Regulatory Compliance/Certifications

Agency Classification

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

