## 5209002 | P3® 875 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

**Characteristic Impedance Tolerance** 

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	875 Series
Construction Type	Swaged
Jacket Color	Unjacketed
Location of Manufacturing	Catawba, North Carolina
Short Description	P3 875 CA
Dimensions	
Cable Length	762 m   2500 ft
Diameter Over Center Conductor, nominal	4.928 mm   0.194 in
Diameter Over Dielectric, nominal	20.244 mm   0.797 in
Diameter Over Outer Conductor, nominal	22.225 mm   0.875 in
Outer Conductor Thickness, nominal	0.991 mm   0.039 in
Electrical Specifications	
Capacitance	50.197 pF/m   15.3 pF/ft
Capacitance Tolerance	±1.0 pF/ft
Characteristic Impedance	75 ohm

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±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	1.378 ohms/km   0.42 ohms/kft	
dc Resistance, Loop, nominal	1.804 ohms/km   0.55 ohms/kft	
dc Resistance, Outer Conductor, nominal	0.427 ohms/km   0.13 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

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
2200.0	8.09	2.46

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2500.0	8.76	2.67		
2700.0	9.19	2.8		
3000.0	9.83	3		
Material Specifica	ations			
Center Conductor Materia	I	Copper-clad aluminum		
Dielectric Material		Foam PE		
Jacket Material		Unjacketed		
Outer Conductor Material		Aluminum		
Mechanical Specifications				
Minimum Bend Radius, st	andard	254 mm   10 in		
Pulling Tension, maximun	n	396.893 kg   875 lb		
Environmental S	pecifications			
Environmental Space		Aerial		
Packaging and W	/eights			
Packaging Type		Reel		
Weight, gross		446.449 kg/km   300 lb/kft		
Regulatory Compliance/Certifications				
Agency Classification				
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system			

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