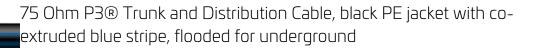
# 5377203 | P3® 875 JCASST B



 \*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	875 Series
Construction Type	Swaged
Jacket Color	Black with co-extruded blue stripe
Location of Manufacturing	Catawba, North Carolina
Short Description	P3 875 JCASST B SM PR997
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 Jacket, nominal	24.257 mm   0.955 in
Diameter Over Outer Conductor, nominal	22.225 mm   0.875 in
Jacket Thickness, nominal	0.889 mm   0.035 in
Outer Conductor Thickness, nominal	0.991 mm   0.039 in

#### **Electrical Specifications**

Capacitance

50.197 pF/m | 15.3 pF/ft

Page 1 of 3

©2024 CommScope, Inc. All rights reserved. CommScope and the CommScope logo are registered trademarks of CommScope and/or its affiliates in the U.S. and other countries. For additional trademark information see https://www.commscope.com/trademarks. All product names, trademarks and registered trademarks are property of their respective owners. Revised: October 1, 2024



# 5377203 | P3® 875 JCASST B

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	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
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	0.3	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

Page 2 of 3

©2024 CommScope, Inc. All rights reserved. CommScope and the CommScope logo are registered trademarks of CommScope and/or its affiliates in the U.S. and other countries. For additional trademark information see https://www.commscope.com/trademarks. All product names, trademarks and registered trademarks are property of their respective owners. Revised: October 1, 2024



# 5377203 | P3® 875 JCASST B

1794.0	7.13	2.17
1800.0	7.14	2.18
2000.0	7.62	2.32
2200.0	8.09	2.46
2500.0	8.76	2.67
2700.0	9.19	2.8
3000.0	9.83	3

#### 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	177.8 mm   7 in
Pulling Tension, maximum	396.893 kg   875 lb

### Environmental Specifications

Corrosion Protection	Migraheal®
Environmental Space	Buried
Packaging and Weights	
Packaging Type	Reel
Weight, gross	505.976 kg/km   340 lb/kft

#### Regulatory Compliance/Certifications

#### Classification

ISO 9001:2015

Agency

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

Page 3 of 3

©2024 CommScope, Inc. All rights reserved. CommScope and the CommScope logo are registered trademarks of CommScope and/or its affiliates in the U.S. and other countries. For additional trademark information see https://www.commscope.com/trademarks. All product names, trademarks and registered trademarks are property of their respective owners. Revised: October 1, 2024

**COMMSCOPE**°