

# 5377203 | P3® 875 JCASST B

75 Ohm P3® Trunk and Distribution Cable, black PE jacket with co-extruded blue stripes, flooded for underground



## Product Classification

Product Type	Coaxial hardline cable
Product Brand	P3®
Warranty	One year

## General Specifications

Cable Type	875 Series
Construction Type	Swaged
Jacket Color	Black with co-extruded blue stripe
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
Capacitance Tolerance	±1.0 pF/ft
Characteristic Impedance	75 ohm
Characteristic Impedance Tolerance	±2 ohm

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<b>dc Resistance Note</b>	Nominal values based on a standard condition of 20 °C (68 °F)
<b>dc Resistance, Inner Conductor, nominal</b>	1.378 ohms/km   0.42 ohms/kft
<b>dc Resistance, Loop, nominal</b>	1.804 ohms/km   0.55 ohms/kft
<b>dc Resistance, Outer Conductor, nominal</b>	0.427 ohms/km   0.13 ohms/kft
<b>Jacket Spark Test Voltage</b>	5000 Vac
<b>Nominal Velocity of Propagation (NVP)</b>	87 %
<b>Operating Frequency Band</b>	5–3000 MHz
<b>Structural Return Loss</b>	24 dB @ 1003–1218 MHz   24 dB @ 1219–1794 MHz   30 dB @ 5–1002 MHz
<b>Structural Return Loss, Grade N</b>	≥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

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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

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

