

# 5308403 | P3® 625 JCASST B

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



**OBSOLETE**

## Product Classification

|                      |                        |
|----------------------|------------------------|
| <b>Product Type</b>  | Coaxial hardline cable |
| <b>Product Brand</b> | P3®                    |
| <b>Warranty</b>      | One year               |

## General Specifications

|                          |                                    |
|--------------------------|------------------------------------|
| <b>Cable Type</b>        | 625 Series                         |
| <b>Construction Type</b> | Swaged                             |
| <b>Jacket Color</b>      | Black with co-extruded blue stripe |
| <b>Short Description</b> | P3 625 JCASST B SM PR997           |

## Dimensions

|  |                      |
|--|----------------------|
| <b>Cable Length</b>                            | 731.52 m   2400 ft   |
| <b>Diameter Over Center Conductor, nominal</b> | 3.48 mm   0.137 in   |
| <b>Diameter Over Dielectric, nominal</b>       | 14.351 mm   0.565 in |
| <b>Diameter Over Jacket, nominal</b>           | 17.653 mm   0.695 in |
| <b>Diameter Over Outer Conductor, nominal</b>  | 15.875 mm   0.625 in |
| <b>Jacket Thickness, nominal</b>               | 0.762 mm   0.03 in   |
| <b>Outer Conductor Thickness, nominal</b>      | 0.762 mm   0.03 in   |

## Electrical Specifications

|                              |                          |
|------------------------------|--------------------------|
| <b>Capacitance</b>           | 50.197 pF/m   15.3 pF/ft |
| <b>Capacitance Tolerance</b> | ±1.0 pF/ft               |

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|  |   |
|--|---|
| <b>Characteristic Impedance</b>                | 75 ohm  |
| <b>Characteristic Impedance Tolerance</b>      | ±2 ohm  |
| <b>dc Resistance Note</b>                      | Nominal values based on a standard condition of 20 °C (68 °F)         |
| <b>dc Resistance, Inner Conductor, nominal</b> | 2.756 ohms/km   0.84 ohms/kft   |
| <b>dc Resistance, Loop, nominal</b>            | 3.609 ohms/km   1.1 ohms/kft  |
| <b>dc Resistance, Outer Conductor, nominal</b> | 0.853 ohms/km   0.26 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             | 0.43                   | 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                    |

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|               |       |      |
|---------------|-------|------|
| <b>1800.0</b> | 9.72  | 2.96 |
| <b>2000.0</b> | 10.34 | 3.15 |
| <b>2200.0</b> | 10.95 | 3.34 |
| <b>2500.0</b> | 11.81 | 3.6  |
| <b>2700.0</b> | 12.37 | 3.77 |
| <b>3000.0</b> | 13.19 | 4.02 |

## Material Specifications

|                                  |                      |
|----------------------------------|----------------------|
| <b>Center Conductor Material</b> | Copper-clad aluminum |
| <b>Dielectric Material</b>       | Foam PE              |
| <b>Jacket Material</b>           | PE                   |
| <b>Outer Conductor Material</b>  | Aluminum             |

## Mechanical Specifications

|                                    |                     |
|------------------------------------|---------------------|
| <b>Minimum Bend Radius, bonded</b> | 114.3 mm   4.5 in   |
| <b>Pulling Tension, maximum</b>    | 215.456 kg   475 lb |

## Environmental Specifications

|                             |            |
|-----------------------------|------------|
| <b>Corrosion Protection</b> | Migraheal® |
| <b>Environmental Space</b>  | Buried     |

## Packaging and Weights

|                       |                            |
|-----------------------|----------------------------|
| <b>Packaging Type</b> | Reel                       |
| <b>Weight, gross</b>  | 278.287 kg/km   187 lb/kft |

## Regulatory Compliance/Certifications

|               |  |
|---------------|--|
| <b>Agency</b> | <b>Classification</b>  |
| ISO 9001:2015 | Designed, manufactured and/or distributed under this quality management system |

