



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

## Product Classification

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

## Construction Materials

|                                  |                      |
|----------------------------------|----------------------|
| <b>Corrosion Protection</b>      | Migraheal®           |
| <b>Jacket Material</b>           | PE                   |
| <b>Center Conductor Material</b> | Copper-clad aluminum |
| <b>Construction Type</b>         | Swaged               |
| <b>Dielectric Material</b>       | Foam PE              |
| <b>Outer Conductor Material</b>  | Aluminum             |

## Dimensions

|  |                       |
|--|-----------------------|
| <b>Diameter Over Center Conductor, nominal</b> | 2.769 mm   0.109 in   |
| <b>Diameter Over Dielectric, nominal</b>       | 11.481 mm   0.452 in  |
| <b>Diameter Over Outer Conductor, nominal</b>  | 12.700 mm   0.500 in  |
| <b>Diameter Over Jacket, nominal</b>           | 14.478 mm   0.570 in  |
| <b>Jacket Thickness, nominal</b>               | 0.7620 mm   0.0300 in |
| <b>Outer Conductor Thickness, nominal</b>      | 0.6096 mm   0.0240 in |
| <b>Cable Length</b>                            | 732 m   2400 ft       |
| <b>Shipping Weight</b>                         | 123.00 lb/kft         |

## Electrical Specifications

|  |   |
|--|---|
| <b>dc Resistance, Inner Conductor, nominal</b> | 1.35 ohms/kft   |
| <b>dc Resistance, Outer Conductor, nominal</b> | 0.37 ohms/kft   |
| <b>dc Resistance, Loop, nominal</b>            | 1.72 ohms/kft   |
| <b>dc Resistance Note</b>                      | Nominal values based on a standard condition of 20 °C (68 °F) |
| <b>Capacitance</b>                             | 50.2 pF/m   15.3 pF/ft  |
| <b>Capacitance Tolerance</b>                   | ±1.0 pF/ft  |
| <b>Characteristic Impedance</b>                | 75 ohm  |
| <b>Characteristic Impedance Tolerance</b>      | ±2 ohm  |
| <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>                  | 26 dB @ 1002–1218 MHz   30 dB @ 5–1002 MHz                    |

## Environmental Specifications

**Environmental Space** Buried

## General Specifications

**Cable Type** 500 series  
**Jacket Color** Black with co-extruded blue stripe  
**Packaging Type** Reel  
**Short Description** P3 500 JCASST B SM PR997  
**Warranty** One year

## Mechanical Specifications

**Minimum Bend Radius, bonded** 88.90 mm | 3.50 in  
**Pulling Tension, maximum** 136 kg | 300 lb

## Electrical Performance

| Frequency | Attenuation (dB/100 m) | Attenuation (dB/100 ft) |
|-----------|------------------------|-------------------------|
| 5 MHz     | 0.52                   | 0.16                    |
| 55 MHz    | 1.77                   | 0.54                    |
| 83 MHz    | 2.17                   | 0.66                    |
| 85 MHz    | 2.23                   | 0.68                    |
| 204 MHz   | 3.51                   | 1.07                    |
| 211 MHz   | 3.58                   | 1.09                    |
| 250 MHz   | 3.94                   | 1.20                    |
| 300 MHz   | 4.30                   | 1.31                    |
| 350 MHz   | 4.69                   | 1.43                    |
| 400 MHz   | 5.02                   | 1.53                    |
| 450 MHz   | 5.35                   | 1.63                    |
| 500 MHz   | 5.67                   | 1.73                    |
| 550 MHz   | 5.97                   | 1.82                    |
| 600 MHz   | 6.27                   | 1.91                    |
| 750 MHz   | 7.09                   | 2.16                    |
| 865 MHz   | 7.68                   | 2.34                    |
| 1000 MHz  | 8.27                   | 2.52                    |
| 1002 MHz  | 8.33                   | 2.54                    |
| 1300 MHz  | 2.95                   | 2.81                    |
| 1400 MHz  | 3.09                   | 2.94                    |
| 1500 MHz  | 10.55                  | 3.22                    |
| 1600 MHz  | 10.97                  | 3.34                    |
| 1700 MHz  | 11.38                  | 3.47                    |
| 1794 MHz  | 11.76                  | 3.58                    |
| 1800 MHz  | 11.78                  | 3.59                    |
| 2000 MHz  | 12.56                  | 3.83                    |
| 2200 MHz  | 13.32                  | 4.06                    |
| 2400 MHz  | 14.05                  | 4.28                    |

|          |       |      |
|----------|-------|------|
| 2600 MHz | 14.77 | 4.50 |
| 2800 MHz | 15.47 | 4.71 |
| 3000 MHz | 16.15 | 4.92 |

\* Attenuation listed represents maximum values at standard condition of 20 °C (68 °F)

## Regulatory Compliance/Certifications

### Agency

RoHS 2011/65/EU  
ISO 9001:2015

### Classification

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

