



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

## Product Classification

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

## Construction Materials

|                                  |                      |
|----------------------------------|----------------------|
| <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> | 4.242 mm   0.167 in   |
| <b>Diameter Over Dielectric, nominal</b>       | 17.323 mm   0.682 in  |
| <b>Diameter Over Outer Conductor, nominal</b>  | 19.050 mm   0.750 in  |
| <b>Diameter Over Jacket, nominal</b>           | 20.828 mm   0.820 in  |
| <b>Jacket Thickness, nominal</b>               | 0.8890 mm   0.0350 in |
| <b>Outer Conductor Thickness, nominal</b>      | 0.8636 mm   0.0340 in |
| <b>Cable Length</b>                            | 762 m   2500 ft       |
| <b>Shipping Weight</b>                         | 260.00 lb/kft         |

## Electrical Specifications

|  |   |
|--|---|
| <b>dc Resistance, Inner Conductor, nominal</b> | 0.57 ohms/kft   |
| <b>dc Resistance, Outer Conductor, nominal</b> | 0.19 ohms/kft   |
| <b>dc Resistance, Loop, nominal</b>            | 0.76 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** Aerial

## General Specifications

**Cable Type** 750 series  
**Jacket Color** Black with co-extruded blue stripe  
**Packaging Type** Reel  
**Short Description** P3 750 JCAT B SM PR2171  
**Warranty** One year

## Mechanical Specifications

**Minimum Bend Radius, bonded** 152.40 mm | 6.00 in  
**Pulling Tension, maximum** 306 kg | 675 lb

## Electrical Performance

| Frequency | Attenuation (dB/100 m) | Attenuation (dB/100 ft) |
|-----------|------------------------|-------------------------|
| 5 MHz     | 0.36                   | 0.11                    |
| 55 MHz    | 1.21                   | 0.37                    |
| 83 MHz    | 1.51                   | 0.46                    |
| 85 MHz    | 1.51                   | 0.46                    |
| 204 MHz   | 2.36                   | 0.72                    |
| 211 MHz   | 2.43                   | 0.74                    |
| 250 MHz   | 2.66                   | 0.81                    |
| 300 MHz   | 2.92                   | 0.89                    |
| 350 MHz   | 3.18                   | 0.97                    |
| 400 MHz   | 3.45                   | 1.05                    |
| 450 MHz   | 3.67                   | 1.12                    |
| 500 MHz   | 3.87                   | 1.18                    |
| 550 MHz   | 4.07                   | 1.24                    |
| 600 MHz   | 4.30                   | 1.31                    |
| 750 MHz   | 4.86                   | 1.48                    |
| 865 MHz   | 5.28                   | 1.61                    |
| 1000 MHz  | 5.71                   | 1.74                    |
| 1002 MHz  | 5.72                   | 1.74                    |
| 1218 MHz  | 6.36                   | 1.94                    |
| 1300 MHz  | 6.60                   | 2.01                    |
| 1400 MHz  | 6.88                   | 2.10                    |
| 1500 MHz  | 7.16                   | 2.18                    |
| 1600 MHz  | 7.43                   | 2.26                    |
| 1700 MHz  | 7.69                   | 2.34                    |
| 1794 MHz  | 7.93                   | 2.42                    |
| 1800 MHz  | 7.95                   | 2.42                    |
| 2000 MHz  | 8.45                   | 2.58                    |
| 2200 MHz  | 8.93                   | 2.72                    |
| 2400 MHz  | 9.40                   | 2.87                    |

|          |       |      |
|----------|-------|------|
| 2600 MHz | 9.86  | 3.00 |
| 2800 MHz | 10.30 | 3.14 |
| 3000 MHz | 10.73 | 3.27 |

\* 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

