



75 Ohm P3® Trunk and Distribution Cable, unjacketed

## Product Classification

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

## Construction Materials

|                                  |                      |
|----------------------------------|----------------------|
| <b>Jacket Material</b>           | Unjacketed           |
| <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>Outer Conductor Thickness, nominal</b>      | 0.6096 mm   0.0240 in |
| <b>Cable Length</b>                            | 732 m   2400 ft       |
| <b>Shipping Weight</b>                         | 97.00 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>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

|                            |        |
|----------------------------|--------|
| <b>Environmental Space</b> | Aerial |
|----------------------------|--------|

## General Specifications

|                          |            |
|--------------------------|------------|
| <b>Cable Type</b>        | 500 series |
| <b>Jacket Color</b>      | Unjacketed |
| <b>Packaging Type</b>    | Reel       |
| <b>Short Description</b> | P3 500 CA  |
| <b>Warranty</b>          | One year   |

## Mechanical Specifications

|                                      |                     |
|--------------------------------------|---------------------|
| <b>Minimum Bend Radius, standard</b> | 165.10 mm   6.50 in |
| <b>Pulling Tension, maximum</b>      | 136 kg   300 lb     |

## Electrical Performance

| <b>Frequency</b> | <b>Attenuation (dB/100 m)</b> | <b>Attenuation (dB/100 ft)</b> |
|------------------|-------------------------------|--------------------------------|
| 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                          | 2.94                           |
| 750 MHz          | 7.09                          | 2.16                           |
| 865 MHz          | 7.68                          | 2.34                           |
| 1000 MHz         | 8.27                          | 2.52                           |
| 1002 MHz         | 8.33                          | 2.54                           |
| 1218 MHz         | 9.32                          | 2.84                           |
| 1300 MHz         | 9.69                          | 2.95                           |
| 1400 MHz         | 10.13                         | 3.09                           |
| 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

