

## 75 Ohm P3® Trunk and Distribution Cable, unjacketed



### 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>        | 750 series |
| <b>Construction Type</b> | Swaged     |
| <b>Jacket Color</b>      | Unjacketed |
| <b>Short Description</b> | P3 750 CA  |

### Dimensions

|  |                      |
|--|----------------------|
| <b>Cable Length</b>                            | 762 m   2500 ft      |
| <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>  | 19.05 mm   0.75 in   |
| <b>Outer Conductor Thickness, nominal</b>      | 0.864 mm   0.034 in  |

### Electrical Specifications

|  |   |
|--|---|
| <b>Capacitance</b>                             | 50.197 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>dc Resistance Note</b>                      | Nominal values based on a standard condition of 20 °C (68 °F) |
| <b>dc Resistance, Inner Conductor, nominal</b> | 1.87 ohms/km   0.57 ohms/kft                                  |
| <b>dc Resistance, Loop, nominal</b>            | 2.493 ohms/km   0.76 ohms/kft                                 |

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|  |  |
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| <b>dc Resistance, Outer Conductor, nominal</b> | 0.623 ohms/km   0.19 ohms/kft              |
| <b>Nominal Velocity of Propagation (NVP)</b>   | 87 %                                       |
| <b>Operating Frequency Band</b>                | 5–3000 MHz                                 |
| <b>Structural Return Loss</b>                  | 24 dB @ 1002–1218 MHz   30 dB @ 5–1002 MHz |

## Attenuation

| <b>Frequency (MHz)</b> | <b>Attenuation (dB/100 m)</b> | <b>Attenuation (dB/100 ft)</b> |
|------------------------|-------------------------------|--------------------------------|
| 5.0                    | 0.36                          | 0.11                           |
| 55.0                   | 1.21                          | 0.37                           |
| 83.0                   | 1.51                          | 0.46                           |
| 85.0                   | 1.51                          | 0.46                           |
| 204.0                  | 2.36                          | 0.72                           |
| 211.0                  | 2.43                          | 0.74                           |
| 250.0                  | 2.66                          | 0.81                           |
| 300.0                  | 2.92                          | 0.89                           |
| 350.0                  | 3.18                          | 0.97                           |
| 400.0                  | 3.44                          | 1.05                           |
| 450.0                  | 3.67                          | 1.12                           |
| 500.0                  | 3.87                          | 1.18                           |
| 550.0                  | 4.07                          | 1.24                           |
| 600.0                  | 4.3                           | 1.31                           |
| 750.0                  | 4.86                          | 1.48                           |
| 865.0                  | 5.28                          | 1.61                           |
| 1002.0                 | 5.71                          | 1.74                           |
| 1218.0                 | 6.4                           | 1.95                           |
| 1794.0                 | 7.93                          | 2.42                           |
| 1800.0                 | 7.95                          | 2.43                           |
| 2000.0                 | 8.45                          | 2.58                           |
| 2200.0                 | 8.93                          | 2.72                           |
| 2400.0                 | 9.4                           | 2.87                           |
| 2600.0                 | 9.86                          | 3                              |
| 2800.0                 | 10.3                          | 3.14                           |
| 3000.0                 | 10.73                         | 3.27                           |

## Material Specifications

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

## Mechanical Specifications

|                                      |                     |
|--------------------------------------|---------------------|
| <b>Minimum Bend Radius, standard</b> | 228.6 mm   9 in     |
| <b>Pulling Tension, maximum</b>      | 306.175 kg   675 lb |

## Environmental Specifications

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

## Packaging and Weights

|                       |                            |
|-----------------------|----------------------------|
| <b>Packaging Type</b> | Reel                       |
| <b>Weight, gross</b>  | 333.349 kg/km   224 lb/kft |

## Regulatory Compliance/Certifications

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

