

75 Ohm P3® Trunk and Distribution Cable, black PE jacket



**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>        | 565 Series           |
| <b>Construction Type</b> | Swaged               |
| <b>Jacket Color</b>      | Black                |
| <b>Short Description</b> | P3 565 JCA SM PR2171 |

## Dimensions

|  |                      |
|--|----------------------|
| <b>Cable Length</b>                            | 731.52 m   2400 ft   |
| <b>Diameter Over Center Conductor, nominal</b> | 3.277 mm   0.129 in  |
| <b>Diameter Over Dielectric, nominal</b>       | 13.183 mm   0.519 in |
| <b>Diameter Over Jacket, nominal</b>           | 15.875 mm   0.625 in |
| <b>Diameter Over Outer Conductor, nominal</b>  | 14.351 mm   0.565 in |
| <b>Jacket Thickness, nominal</b>               | 0.762 mm   0.03 in   |
| <b>Outer Conductor Thickness, nominal</b>      | 0.584 mm   0.023 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> | 3.15 ohms/km   0.96 ohms/kft  |
| <b>dc Resistance, Loop, nominal</b>            | 4.265 ohms/km   1.3 ohms/kft  |
| <b>dc Resistance, Outer Conductor, nominal</b> | 1.115 ohms/km   0.34 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

| <b>Frequency (MHz)</b> | <b>Attenuation (dB/100 m)</b> | <b>Attenuation (dB/100 ft)</b> |
|------------------------|-------------------------------|--------------------------------|
| 5.0                    | 0.46                          | 0.14                           |
| 55.0                   | 1.54                          | 0.47                           |
| 85.0                   | 1.94                          | 0.59                           |
| 204.0                  | 3.05                          | 0.93                           |
| 211.0                  | 3.12                          | 0.95                           |
| 250.0                  | 3.38                          | 1.03                           |
| 300.0                  | 3.71                          | 1.13                           |
| 350.0                  | 4.04                          | 1.23                           |
| 400.0                  | 4.33                          | 1.32                           |
| 450.0                  | 4.59                          | 1.4                            |
| 500.0                  | 4.89                          | 1.49                           |
| 550.0                  | 5.12                          | 1.56                           |
| 600.0                  | 5.38                          | 1.64                           |
| 750.0                  | 6.07                          | 1.85                           |
| 865.0                  | 6.56                          | 2                              |
| 1002.0                 | 7.12                          | 2.17                           |
| 1218.0                 | 7.94                          | 2.42                           |
| 1500.0                 | 8.92                          | 2.72                           |
| 1794.0                 | 9.87                          | 3.01                           |

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|               |       |      |
|---------------|-------|------|
| <b>1800.0</b> | 9.89  | 3.01 |
| <b>2000.0</b> | 10.5  | 3.2  |
| <b>2200.0</b> | 11.09 | 3.38 |
| <b>2500.0</b> | 11.93 | 3.64 |
| <b>2700.0</b> | 12.48 | 3.8  |
| <b>3000.0</b> | 13.26 | 4.04 |

## 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> | 127 mm   5 in       |
| <b>Pulling Tension, maximum</b>    | 136.078 kg   300 lb |

## Environmental Specifications

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

## Packaging and Weights

|                       |                            |
|-----------------------|----------------------------|
| <b>Packaging Type</b> | Reel                       |
| <b>Weight, gross</b>  | 227.689 kg/km   153 lb/kft |

## Regulatory Compliance/Certifications

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

