# 530101203 | P3® 500 JCASP SM MT

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

## Product Classification

| | |
|---|---|
| **Brand** | P3® |
| **Product Type** | Coaxial hardline cable |

## Construction Materials

| | |
|---|---|
| **Corrosion Protection** | Aerial floodant |
| **Jacket Material** | PE |
| **Center Conductor Material** | Copper-clad aluminum |
| **Construction Type** | Swaged |
| **Dielectric Material** | Foam PE |
| **Outer Conductor Material** | Aluminum |

## Dimensions

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

## Electrical Specifications

| | |
|---|---|
| **dc Resistance, Inner Conductor, nominal** | 1.35 ohms/kft |
| **dc Resistance, Outer Conductor, nominal** | 0.37 ohms/kft |
| **dc Resistance, Loop, nominal** | 1.72 ohms/kft |
| **dc Resistance Note** | Nominal values based on a standard condition of 20 °C (68 °F) |
| **Capacitance** | 50.2 pF/m \| 15.3 pF/ft |
| **Capacitance Tolerance** | ±1.0 pF/ft |
| **Characteristic Impedance** | 75 ohm |
| **Characteristic Impedance Tolerance** | ±2 ohm |
| **Jacket Spark Test Voltage** | 5000 Vac |
| **Nominal Velocity of Propagation (NVP)** | 87 % |
| **Operating Frequency Band** | 5–3000 MHz |
| **Structural Return Loss** | 26 dB @ 1002–1218 MHz \| 30 dB @ 5–1002 MHz |

## Environmental Specifications

| | |
|---|---|
| **Environmental Space** | Aerial |

## General Specifications

| | |
|---|---|
| **Cable Type** | 500 series |
| **Jacket Color** | Black |
| **Packaging Type** | Reel |
| **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** | **Classification** |
|---|---|
| RoHS 2011/65/EU | Compliant |
| ISO 9001:2015 | Designed, manufactured and/or distributed under this quality management system |