



75 Ohm P3® Trunk and Distribution Cable, black PE jacket co-extruded yellow stripe

- *Product complies with the Build America, Buy America Act (BABAA) requirements of the Infrastructure Investment and Jobs Act of 2021 (Pub. L. 117- 58, §§ 70901-70953), or is the subject of a waiver approved by the Secretary of Commerce or designee. Compliance requirements and waiver applicability vary based on government funding program. Check the laws and regulations for your specific program.

Product Classification

| | |
|-------------------------|---|
| Regional Availability | North America |
| Product Type | Coaxial hardline cable |
| Product Brand | P3® |
| Government Requirements | Build America Buy America (BABA) compliant* |
| Warranty | One year |

General Specifications

| | |
|---------------------------|-------------------------|
| Cable Type | 625 Series |
| Construction Type | Swaged |
| Jacket Color | Black |
| Location of Manufacturing | Catawba, North Carolina |
| Short Description | P3 625 JCA SM PR2171 |

Dimensions

| | |
|---|----------------------|
| Cable Length | 731.52 m 2400 ft |
| Diameter Over Center Conductor, nominal | 3.48 mm 0.137 in |
| Diameter Over Dielectric, nominal | 14.351 mm 0.565 in |
| Diameter Over Jacket, nominal | 17.399 mm 0.685 in |
| Diameter Over Outer Conductor, nominal | 15.875 mm 0.625 in |
| Jacket Thickness, nominal | 0.762 mm 0.03 in |
| Outer Conductor Thickness, nominal | 0.762 mm 0.03 in |

Electrical Specifications

| | |
|-------------|--------------------------|
| Capacitance | 50.197 pF/m 15.3 pF/ft |
|-------------|--------------------------|

| | |
|---|---|
| Capacitance Tolerance | ±1.0 pF/ft |
| Characteristic Impedance | 75 ohm |
| Characteristic Impedance Tolerance | ±2 ohm |
| dc Resistance Note | Nominal values based on a standard condition of 20 °C (68 °F) |
| dc Resistance, Inner Conductor, nominal | 2.756 ohms/km 0.84 ohms/kft |
| dc Resistance, Loop, nominal | 3.609 ohms/km 1.1 ohms/kft |
| dc Resistance, Outer Conductor, nominal | 0.853 ohms/km 0.26 ohms/kft |
| Jacket Spark Test Voltage | 5000 Vac |
| Nominal Velocity of Propagation (NVP) | 87 % |
| Operating Frequency Band | 5–3000 MHz |
| Structural Return Loss | 24 dB @ 1003–1218 MHz 24 dB @ 1219–1794 MHz 30 dB @ 5–1002 MHz |
| Structural Return Loss, Grade N | ≥24 dB @ 1003–1218 MHz ≥24 dB @ 1219–1794 MHz ≥30 dB @ 5–1002 MHz |

Attenuation

| Frequency (MHz) | Attenuation (dB/100 m) | Attenuation (dB/100 ft) |
|-----------------|------------------------|-------------------------|
| 5.0 | 0.43 | 0.13 |
| 55.0 | 1.48 | 0.45 |
| 85.0 | 1.84 | 0.56 |
| 204.0 | 2.92 | 0.89 |
| 211.0 | 3.02 | 0.92 |
| 250.0 | 3.28 | 1 |
| 300.0 | 3.54 | 1.08 |
| 350.0 | 3.87 | 1.18 |
| 400.0 | 4.17 | 1.27 |
| 450.0 | 4.43 | 1.35 |
| 500.0 | 4.69 | 1.43 |
| 550.0 | 4.92 | 1.5 |
| 600.0 | 5.18 | 1.58 |
| 750.0 | 5.84 | 1.78 |
| 865.0 | 6.33 | 1.93 |
| 1002.0 | 6.92 | 2.11 |
| 1218.0 | 7.62 | 2.32 |
| 1500.0 | 8.74 | 2.66 |

| | | |
|--------|-------|------|
| 1794.0 | 9.7 | 2.96 |
| 1800.0 | 9.72 | 2.96 |
| 2000.0 | 10.34 | 3.15 |
| 2200.0 | 10.95 | 3.34 |
| 2500.0 | 11.81 | 3.6 |
| 2700.0 | 12.37 | 3.77 |
| 3000.0 | 13.19 | 4.02 |

Material Specifications

| | |
|---------------------------|----------------------|
| Center Conductor Material | Copper-clad aluminum |
| Dielectric Material | Foam PE |
| Jacket Material | PE |
| Outer Conductor Material | Aluminum |

Mechanical Specifications

| | |
|-----------------------------|---------------------|
| Minimum Bend Radius, bonded | 114.3 mm 4.5 in |
| Pulling Tension, maximum | 215.456 kg 475 lb |

Environmental Specifications

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

Packaging and Weights

| | |
|----------------|----------------------------|
| Packaging Type | Reel |
| Weight, gross | 272.334 kg/km 183 lb/kft |

Regulatory Compliance/Certifications

| Agency | Classification |
|---------------|---|
| CHINA-ROHS | Below maximum concentration value |
| ISO 9001:2015 | Designed, manufactured and/or distributed under this quality management system |
| REACH-SVHC | Compliant as per SVHC revision on www.commscope.com/ProductCompliance |
| ROHS | Compliant |
| UK-ROHS | Compliant |

