

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



Product Classification

| | |
|----------------------|------------------------|
| Product Type | Coaxial hardline cable |
| Product Brand | P3® |
| Warranty | One year |

General Specifications

| | |
|--------------------------|------------|
| Cable Type | 750 Series |
| Construction Type | Swaged |
| Jacket Color | Black |

Dimensions

| | |
|------------------------------------------------|----------------------|
| Cable Length | 2500 ft 762 m |
| Diameter Over Center Conductor, nominal | 0.167 in 4.242 mm |
| Diameter Over Dielectric, nominal | 0.682 in 17.323 mm |
| Diameter Over Jacket, nominal | 0.83 in 21.082 mm |
| Diameter Over Outer Conductor, nominal | 0.75 in 19.05 mm |
| Jacket Thickness, nominal | 0.035 in 0.889 mm |
| Outer Conductor Thickness, nominal | 0.034 in 0.864 mm |

Electrical Specifications

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

530102403 | P3® 750 JCASP SM MT

| | |
|------------------------------------------------|-----------------------------------------------------------------------|
| dc Resistance, Inner Conductor, nominal | 0.57 ohms/kft 1.87 ohms/km |
| dc Resistance, Loop, nominal | 0.76 ohms/kft 2.493 ohms/km |
| dc Resistance, Outer Conductor, nominal | 0.19 ohms/kft 0.623 ohms/km |
| 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 | 0.36 | 0.11 |
| 55.0 | 1.21 | 0.37 |
| 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 | 5.72 | 1.74 |
| 1218.0 | 6.41 | 1.95 |
| 1500.0 | 7.3 | 2.23 |
| 1794.0 | 8.07 | 2.46 |
| 1800.0 | 8.08 | 2.46 |
| 2000.0 | 8.45 | 2.58 |
| 2200.0 | 9.05 | 2.76 |

530102403 | P3® 750 JCASP SM MT

| | | |
|---------------|-------|------|
| 2500.0 | 9.73 | 2.96 |
| 2700.0 | 10.16 | 3.1 |
| 3000.0 | 10.8 | 3.29 |

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 | 6 in 152.4 mm |
| Pulling Tension, maximum | 675 lb 306.175 kg |

Environmental Specifications

| | |
|-----------------------------|-----------------|
| Corrosion Protection | Aerial floodant |
| Environmental Space | Aerial |

Packaging and Weights

| | |
|-----------------------|----------------------------|
| Packaging Type | Reel |
| Weight, gross | 268 lb/kft 398.828 kg/km |

Regulatory Compliance/Certifications

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

