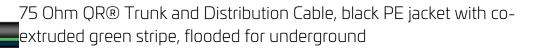
5519302 | QR® 715 JCASST G



 *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 | QR® |
| Government Requirements | Build America Buy America (BABA) compliant* |
| General Specifications | |
| Cable Type | 715 Series |
| Construction Type | Welded |
| Jacket Color | Black with co-extruded green stripe |
| Location of Manufacturing | Catawba, North Carolina |
| Short Description | QR 715 JCASST G SM PR997 |
| Dimensions | |
| Cable Length | 914.4 m 3000 ft |
| Diameter Over Center Conductor, nominal | 4.216 mm 0.166 in |
| Diameter Over Dielectric, nominal | 17.424 mm 0.686 in |
| Diameter Over Jacket, nominal | 19.939 mm 0.785 in |
| Diameter Over Outer Conductor, nominal | 18.161 mm 0.715 in |
| Jacket Thickness, nominal | 0.762 mm 0.03 in |
| Outer Conductor Thickness, nominal | 0.368 mm 0.014 in |
| | |

Electrical Specifications

| Capacitance | 50.197 pF/m 15.3 pF/ft |
|-----------------------|--------------------------|
| Capacitance Tolerance | ±1.0 pF/ft |

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| 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 | 1.903 ohms/km 0.58 ohms/kft |
| dc Resistance, Loop, nominal | 3.281 ohms/km 1 ohms/kft |
| dc Resistance, Outer Conductor, nominal | 1.378 ohms/km 0.42 ohms/kft |
| Jacket Spark Test Voltage | 5000 Vac |
| Nominal Velocity of Propagation (NVP) | 88 % |
| 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 | 2.4 | 0.73 |
| 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 | 3.9 | 1.19 |
| 550.0 | 4.1 | 1.25 |
| 600.0 | 4.3 | 1.31 |
| 750.0 | 4.89 | 1.49 |
| 865.0 | 5.31 | 1.62 |
| 1002.0 | 5.76 | 1.75 |
| 1218.0 | 6.43 | 1.96 |
| 1500.0 | 7.44 | 2.27 |
| 1794.0 | 8.3 | 2.53 |

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| 1800.0 | 8.32 | 2.54 |
|--------|-------|------|
| 2000.0 | 8.88 | 2.71 |
| 2200.0 | 9.42 | 2.87 |
| 2500.0 | 10.21 | 3.11 |
| 2700.0 | 10.72 | 3.27 |
| 3000.0 | 11.46 | 3.49 |

Material Specifications

| Copper-clad aluminum |
|----------------------|
| Foam PE |
| PE |
| Aluminum |
| |

Mechanical Specifications

| Minimum Bend Radius, bonded | 127 mm 5 in |
|-----------------------------|---------------------|
| Pulling Tension, maximum | 154.221 kg 340 lb |

| Corrosion Protection | Migraheal® |
|--------------------------------------|----------------------------|
| Environmental Space | Buried |
| Packaging and Weights | |
| Packaging Type | Reel |
| Weight, gross | 305.074 kg/km 205 lb/kft |
| Regulatory Compliance/Certifications | |

Classification

Agency

ISO 9001:2015

Designed, manufactured and/or distributed under this quality management system

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