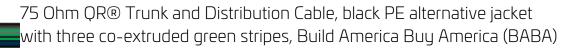
550085402 | QR® 715 JCAT 3G AJ



 *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* |
| Warranty | One year |
| General Specifications | |
| Cable Type | 715 Series |
| Construction Type | Welded |
| Jacket Color | Black with three co-extruded green stripes |
| Location of Manufacturing | Catawba, North Carolina |
| 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 | 0.889 mm 0.035 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 | 3.45 | 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

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

Mechanical Specifications

| Minimum Bend Radius, bonded | 127 mm 5 in |
|-------------------------------|---------------------|
| Minimum Bend Radius, standard | 0 mm 0 in |
| Pulling Tension, maximum | 154.221 kg 340 lb |

Environmental Specifications

Environmental Space

Aerial

Packaging and Weights

Packaging Type

Weight, gross

Reel

305.074 kg/km | 205 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 |



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