

75 Ohm QR® Trunk and Distribution Cable, dual black PE jacket with co-extruded red stripes flooded and armored for underground



Product Classification

| | |
|---------------------|------------------------|
| Brand | QR® |
| Product Type | Coaxial hardline cable |

Construction Materials

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|----------------------------------|--------------------------------|
| Corrosion Protection | Migraheal® |
| Jacket Material | PE |
| Armor Material | Corrugated chrome plated steel |
| Center Conductor Material | Copper-clad aluminum |
| Construction Type | Armored Welded |
| Dielectric Material | Foam PE |
| Outer Conductor Material | Aluminum |

Dimensions

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|--|-----------------------|
| Diameter Over Center Conductor, nominal | 4.216 mm 0.166 in |
| Diameter Over Dielectric, nominal | 17.424 mm 0.686 in |
| Diameter Over Outer Conductor, nominal | 18.161 mm 0.715 in |
| Diameter Over Armor, nominal | 21.717 mm 0.855 in |
| Diameter Over Jacket, nominal | 23.749 mm 0.935 in |
| Armor Thickness, nominal | 0.203 mm 0.008 in |
| Jacket Thickness, nominal | 1.0160 mm 0.0400 in |
| Outer Conductor Thickness, nominal | 0.3683 mm 0.0145 in |
| Cable Length | 914 m 3000 ft |
| Shipping Weight | 359.00 lb/kft |

Electrical Specifications

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|--|---------------|
| dc Resistance, Inner Conductor, nominal | 0.58 ohms/kft |
| dc Resistance, Outer Conductor, nominal | 0.42 ohms/kft |
| dc Resistance, Loop, nominal | 1.00 ohms/kft |

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| 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) | 88 % |
| Operating Frequency Band | 5–3000 MHz |
| Structural Return Loss | 26 dB @ 1002–1218 MHz 30 dB @ 5–1002 MHz |

Environmental Specifications

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|----------------------------|--------|
| Environmental Space | Buried |
|----------------------------|--------|

General Specifications

| | |
|--------------------------|-----------------------------------|
| Cable Type | 715 series |
| Jacket Color | Black with co-extruded red stripe |
| Packaging Type | Reel |
| Short Description | QR 715 JACASST R SM PR997 |

Mechanical Specifications

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|------------------------------------|---------------------|
| Minimum Bend Radius, bonded | 190.50 mm 7.50 in |
| Pulling Tension, maximum | 154 kg 340 lb |

Electrical Performance

| Frequency | Attenuation (dB/100 m) | Attenuation (dB/100 ft) |
|-----------|------------------------|-------------------------|
| 5 MHz | 0.36 | 0.11 |
| 55 MHz | 1.21 | 0.37 |
| 83 MHz | 1.48 | 0.45 |
| 85 MHz | 1.51 | 0.46 |
| 204 MHz | 2.40 | 0.73 |
| 211 MHz | 2.43 | 0.74 |
| 250 MHz | 2.66 | 0.81 |
| 300 MHz | 2.92 | 0.89 |
| 350 MHz | 3.18 | 0.97 |
| 400 MHz | 3.44 | 1.05 |
| 450 MHz | 3.67 | 1.12 |
| 500 MHz | 3.90 | 1.19 |
| 550 MHz | 4.10 | 1.25 |
| 600 MHz | 4.30 | 1.31 |
| 750 MHz | 4.89 | 1.49 |
| 865 MHz | 5.31 | 1.62 |
| 1000 MHz | 5.74 | 1.75 |
| 1218 MHz | 6.22 | 1.90 |

| | | |
|----------|-------|------|
| 1300 MHz | 6.45 | 1.96 |
| 1400 MHz | 6.72 | 2.05 |
| 1500 MHz | 6.98 | 2.13 |
| 1600 MHz | 7.23 | 2.20 |
| 1700 MHz | 7.48 | 2.28 |
| 1794 MHz | 7.71 | 2.35 |
| 1800 MHz | 7.72 | 2.35 |
| 2000 MHz | 8.20 | 2.50 |
| 2200 MHz | 8.65 | 2.64 |
| 2400 MHz | 9.08 | 2.77 |
| 2600 MHz | 9.51 | 2.90 |
| 2800 MHz | 9.92 | 3.02 |
| 3000 MHz | 10.32 | 3.15 |

* Attenuation listed represents maximum values at standard condition of 20 °C (68 °F)

Regulatory Compliance/Certifications

Agency

RoHS 2011/65/EU

ISO 9001:2015

Classification

Compliant

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

