# 5510192 | QR® 540 JCASS

75 Ohm QR® Trunk and Distribution Cable, black PE jacket, flooded for underground



#### **Product Classification**

Product Type Coaxial hardline cable

Product Brand QR®

General Specifications

Cable Type540 SeriesConstruction TypeWeldedJacket ColorBlack

Short Description QR 540 JCASS SM PR2171

#### **Dimensions**

Cable Length1,127.76 m | 3700 ftDiameter Over Center Conductor, nominal3.15 mm | 0.124 inDiameter Over Dielectric, nominal13.056 mm | 0.514 inDiameter Over Jacket, nominal15.494 mm | 0.61 inDiameter Over Outer Conductor, nominal13.716 mm | 0.54 inJacket Thickness, nominal0.889 mm | 0.035 inOuter Conductor Thickness, nominal0.343 mm | 0.014 in

### **Electrical Specifications**

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

dc Resistance Note Nominal values based on a standard condition of 20 °C (68 °F)



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dc Resistance, Inner Conductor, nominal 3.346 ohms/km | 1.02 ohms/kft

**dc Resistance, Loop, nominal** 5.282 ohms/km | 1.61 ohms/kft

dc Resistance, Outer Conductor, nominal 1.936 ohms/km | 0.59 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             | 0.46                   | 0.14                    |
| 55.0            | 1.54                   | 0.47                    |
| 85.0            | 1.94                   | 0.59                    |
| 204.0           | 3.05                   | 0.93                    |
| 211.0           | 3.12                   | 0.95                    |
| 250.0           | 3.38                   | 1.03                    |
| 300.0           | 3.71                   | 1.13                    |
| 350.0           | 4.04                   | 1.23                    |
| 400.0           | 4.33                   | 1.32                    |
| 450.0           | 4.59                   | 1.4                     |
| 500.0           | 4.89                   | 1.49                    |
| 550.0           | 5.12                   | 1.56                    |
| 600.0           | 5.38                   | 1.64                    |
| 750.0           | 6.07                   | 1.85                    |
| 865.0           | 6.56                   | 2                       |
| 1002.0          | 7.12                   | 2.17                    |
| 1218.0          | 7.89                   | 2.41                    |
| 1500.0          | 9.07                   | 2.76                    |
| 1794.0          | 10.11                  | 3.08                    |
| 1800.0          | 10.13                  | 3.09                    |
| 2000.0          | 10.81                  | 3.29                    |
| 2200.0          | 11.46                  | 3.49                    |



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| 2500.0 | 12.41 | 3.78 |
|--------|-------|------|
| 2700.0 | 13.03 | 3.97 |
| 3000.0 | 13.93 | 4.24 |

## Material Specifications

Center Conductor Material Copper-clad aluminum

**Dielectric Material** Foam PE

Jacket Material PE

Outer Conductor Material Aluminum

Mechanical Specifications

**Pulling Tension, maximum** 99.79 kg | 220 lb

### **Environmental Specifications**

 Corrosion Protection
 Migraheal®

 Environmental Space
 Buried

Packaging and Weights

Packaging Type Reel

**Weight, gross** 178.58 kg/km | 120 lb/kft

## Regulatory Compliance/Certifications

Agency Classification

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

