

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



## Product Classification

<b>Brand</b>	QR®
<b>Product Type</b>	Coaxial hardline cable

## Construction Materials

<b>Corrosion Protection</b>	Migraheal®
<b>Jacket Material</b>	PE
<b>Center Conductor Material</b>	Copper-clad aluminum
<b>Construction Type</b>	Welded
<b>Dielectric Material</b>	Foam PE
<b>Outer Conductor Material</b>	Aluminum

## Dimensions

<b>Diameter Over Center Conductor, nominal</b>	3.150 mm   0.124 in
<b>Diameter Over Dielectric, nominal</b>	13.056 mm   0.514 in
<b>Diameter Over Outer Conductor, nominal</b>	13.716 mm   0.540 in
<b>Diameter Over Jacket, nominal</b>	15.494 mm   0.610 in
<b>Jacket Thickness, nominal</b>	0.8890 mm   0.0350 in
<b>Outer Conductor Thickness, nominal</b>	0.3429 mm   0.0135 in
<b>Cable Length</b>	1128 m   3700 ft
<b>Shipping Weight</b>	120.00 lb/kft

## Electrical Specifications

<b>dc Resistance, Inner Conductor, nominal</b>	1.02 ohms/kft
<b>dc Resistance, Outer Conductor, nominal</b>	0.59 ohms/kft
<b>dc Resistance, Loop, nominal</b>	1.61 ohms/kft
<b>dc Resistance Note</b>	Nominal values based on a standard condition of 20 °C (68 °F)
<b>Capacitance</b>	50.2 pF/m   15.3 pF/ft
<b>Capacitance Tolerance</b>	±1.0 pF/ft

<b>Characteristic Impedance</b>	75 ohm
<b>Characteristic Impedance Tolerance</b>	±2 ohm
<b>Jacket Spark Test Voltage</b>	5000 Vac
<b>Nominal Velocity of Propagation (NVP)</b>	88 %
<b>Operating Frequency Band</b>	5–3000 MHz
<b>Structural Return Loss</b>	26 dB @ 1002–1218 MHz   30 dB @ 5–1002 MHz

## Environmental Specifications

<b>Environmental Space</b>	Buried
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## General Specifications

<b>Cable Type</b>	540 series
<b>Jacket Color</b>	Black
<b>Packaging Type</b>	Reel
<b>Short Description</b>	QR 540 JCASS SM PR2171

## Mechanical Specifications

<b>Minimum Bend Radius, bonded</b>	101.60 mm   4.00 in
<b>Pulling Tension, maximum</b>	100 kg   220 lb

## Electrical Performance

<b>Frequency</b>	<b>Attenuation (dB/100 m)</b>	<b>Attenuation (dB/100 ft)</b>
5 MHz	0.46	0.14
55 MHz	1.56	0.48
83 MHz	1.90	0.58
85 MHz	1.94	0.59
204 MHz	3.05	0.93
211 MHz	3.12	0.95
250 MHz	3.38	1.03
300 MHz	3.71	1.13
350 MHz	4.04	1.23
400 MHz	4.33	1.32
450 MHz	4.59	1.40
500 MHz	4.89	1.49
550 MHz	5.12	1.56
600 MHz	5.38	1.64
750 MHz	6.07	1.85
865 MHz	6.56	2.00
1000 MHz	7.12	2.17
1002 MHz	7.13	2.17
1218 MHz	8.05	2.45
1300 MHz	8.34	2.54
1400 MHz	8.68	2.65
1500 MHz	9.01	2.75

1600 MHz	9.34	2.85
1700 MHz	9.65	2.94
1794 MHz	9.94	3.03
1800 MHz	9.96	3.04

*\* 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

