

75 Ohm QR® Trunk and Distribution Cable, black PE jacket with co-extruded blue stripe, flooded for underground



- \*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

<b>Regional Availability</b>	North America
<b>Product Type</b>	Coaxial hardline cable
<b>Product Brand</b>	QR®
<b>Government Funding</b>	Build America Buy America (BABA) compliant*

## General Specifications

<b>Cable Type</b>	540 Series
<b>Construction Type</b>	Welded
<b>Jacket Color</b>	Black with co-extruded blue stripe
<b>Short Description</b>	QR 540 JCASST B SM PR997

## Dimensions

<b>Cable Length</b>	3700 ft   1,127.76 m
<b>Diameter Over Center Conductor, nominal</b>	0.124 in   3.15 mm
<b>Diameter Over Dielectric, nominal</b>	0.514 in   13.056 mm
<b>Diameter Over Jacket, nominal</b>	0.61 in   15.494 mm
<b>Diameter Over Outer Conductor, nominal</b>	0.54 in   13.716 mm
<b>Jacket Thickness, nominal</b>	0.035 in   0.889 mm
<b>Outer Conductor Thickness, nominal</b>	0.014 in   0.343 mm

## Electrical Specifications

<b>Capacitance</b>	15.3 pF/ft   50.197 pF/m
<b>Capacitance Tolerance</b>	±1.0 pF/ft
<b>Characteristic Impedance</b>	75 ohm

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<b>Characteristic Impedance Tolerance</b>	±2 ohm
<b>dc Resistance Note</b>	Nominal values based on a standard condition of 20 °C (68 °F)
<b>dc Resistance, Inner Conductor, nominal</b>	1.02 ohms/kft   3.346 ohms/km
<b>dc Resistance, Loop, nominal</b>	1.61 ohms/kft   5.282 ohms/km
<b>dc Resistance, Outer Conductor, nominal</b>	0.59 ohms/kft   1.936 ohms/km
<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>	24 dB @ 1003–1218 MHz   24 dB @ 1219–1794 MHz   30 dB @ 5–1002 MHz
<b>Structural Return Loss, Grade N</b>	≥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

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<b>2000.0</b>	10.81	3.29
<b>2200.0</b>	11.46	3.49
<b>2500.0</b>	12.41	3.78
<b>2700.0</b>	13.03	3.97
<b>3000.0</b>	13.93	4.24

## Material Specifications

<b>Center Conductor Material</b>	Copper-clad aluminum
<b>Dielectric Material</b>	Foam PE
<b>Jacket Material</b>	PE
<b>Outer Conductor Material</b>	Aluminum

## Mechanical Specifications

<b>Minimum Bend Radius, bonded</b>	4 in   101.6 mm
<b>Pulling Tension, maximum</b>	220 lb   99.79 kg

## Environmental Specifications

<b>Corrosion Protection</b>	Migraheal®
<b>Environmental Space</b>	Buried

## Packaging and Weights

<b>Packaging Type</b>	Reel
<b>Weight, gross</b>	120 lb/kft   178.58 kg/km

## Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system