### 75 Ohm QR® Trunk and Distribution Cable, black PE jacket with coextruded blue stripe

 \*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.

Regional Availability	North America
Product Type	Coaxial hardline cable
Product Brand	QR®
Government Funding	Build America Buy America (BABA) compliant*
General Specifications	
Cable Type	540 Series
Construction Type	Welded
Jacket Color	Black with co-extruded blue stripe
Short Description	QR 540 JCAT B SM PR2171
Dimensions	
Cable Length	1,127.76 m   3700 ft
Diameter Over Center Conductor, nominal	3.15 mm   0.124 in
Diameter Over Dielectric, nominal	13.056 mm   0.514 in
Diameter Over Jacket, nominal	15.494 mm   0.61 in
Diameter Over Outer Conductor, nominal	13.716 mm   0.54 in
Jacket Thickness, nominal	0.889 mm   0.035 in
Outer Conductor Thickness, nominal	0.343 mm   0.014 in

## **Electrical Specifications**

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

Page 1 of 3

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## 5508002 | QR® 540 JCAT B

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	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

Page 2 of 3

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# 5508002 | QR® 540 JCAT B

2000.0	10.81	3.29
2200.0	11.46	3.49
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
Machanical Spacifications	

## Mechanical Specifications

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

Environmental Specifications
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Environmental Space	Aerial
Packaging and Weights	
Packaging Type	Reel
Weight, gross	178.58 kg/km   120 lb/kft
Regulatory Compliance/Certifications	

Agency

ISO 9001:2015

Classification

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

Page 3 of 3

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