



75 Ohm QR® Trunk and Distribution Cable, black PE alternative jacket with three co-extruded green stripes

- \*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 Requirements</b>	Build America Buy America (BABA) compliant*
<b>Warranty</b>	One year

## General Specifications

<b>Cable Type</b>	715 Series
<b>Construction Type</b>	Welded
<b>Jacket Color</b>	Black with three co-extruded green stripes
<b>Location of Manufacturing</b>	Catawba, North Carolina

## Dimensions

<b>Cable Length</b>	914.4 m   3000 ft
<b>Diameter Over Center Conductor, nominal</b>	4.216 mm   0.166 in
<b>Diameter Over Dielectric, nominal</b>	17.424 mm   0.686 in
<b>Diameter Over Jacket, nominal</b>	19.939 mm   0.785 in
<b>Diameter Over Outer Conductor, nominal</b>	18.161 mm   0.715 in
<b>Jacket Thickness, nominal</b>	0.889 mm   0.035 in
<b>Outer Conductor Thickness, nominal</b>	0.368 mm   0.014 in

## Electrical Specifications

<b>Capacitance</b>	50.197 pF/m   15.3 pF/ft
<b>Capacitance Tolerance</b>	±1.0 pF/ft

# 550085402 | QR® 715 JCAT 3G AJ

<b>Characteristic Impedance</b>	75 ohm
<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>	1.903 ohms/km   0.58 ohms/kft
<b>dc Resistance, Loop, nominal</b>	3.281 ohms/km   1 ohms/kft
<b>dc Resistance, Outer Conductor, nominal</b>	1.378 ohms/km   0.42 ohms/kft
<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	0.36	0.11
55.0	1.21	0.37
85.0	1.51	0.46
204.0	2.4	0.73
211.0	2.43	0.74
250.0	2.66	0.81
300.0	2.92	0.89
350.0	3.18	0.97
400.0	3.45	1.05
450.0	3.67	1.12
500.0	3.9	1.19
550.0	4.1	1.25
600.0	4.3	1.31
750.0	4.89	1.49
865.0	5.31	1.62
1002.0	5.76	1.75
1218.0	6.43	1.96
1500.0	7.44	2.27
1794.0	8.3	2.53

# 550085402 | QR® 715 JCAT 3G AJ

1800.0	8.32	2.54
2000.0	8.88	2.71
2200.0	9.42	2.87
2500.0	10.21	3.11
2700.0	10.72	3.27
3000.0	11.46	3.49

## Material Specifications

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

## Mechanical Specifications

<b>Minimum Bend Radius, bonded</b>	127 mm   5 in
<b>Minimum Bend Radius, standard</b>	0 mm   0 in
<b>Pulling Tension, maximum</b>	154.221 kg   340 lb

## Environmental Specifications

<b>Environmental Space</b>	Aerial
----------------------------	--------

## Packaging and Weights

<b>Packaging Type</b>	Reel
<b>Weight, gross</b>	305.074 kg/km   205 lb/kft

## Regulatory Compliance/Certifications

Agency	Classification
CHINA-ROHS	Below maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
REACH-SVHC	Compliant as per SVHC revision on <a href="http://www.commscope.com/ProductCompliance">www.commscope.com/ProductCompliance</a>
ROHS	Compliant
UK-ROHS	Compliant

