

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



### Product Classification

Product Type	Coaxial hardline cable
Product Brand	QR®
Warranty	One year

### General Specifications

Cable Type	715 Series
Construction Type	Welded
Jacket Color	Black with three co-extruded green stripes

### Dimensions

Cable Length	914.4 m   3000 ft
Diameter Over Center Conductor, nominal	4.216 mm   0.166 in
Diameter Over Dielectric, nominal	17.424 mm   0.686 in
Diameter Over Jacket, nominal	19.939 mm   0.785 in
Diameter Over Outer Conductor, nominal	18.161 mm   0.715 in
Jacket Thickness, nominal	0.889 mm   0.035 in
Outer Conductor Thickness, nominal	0.368 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
Characteristic Impedance Tolerance	±2 ohm
dc Resistance Note	Nominal values based on a standard condition of 20 °C (68 °F)

# 550085402 | QR® 715 JCAT 3G AJ

<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
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

Center Conductor Material	Copper-clad aluminum
Dielectric Material	Foam PE
Jacket Material	Alternative jacket PE
Outer Conductor Material	Aluminum

## Mechanical Specifications

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

## Environmental Specifications

Environmental Space	Aerial
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## Packaging and Weights

Packaging Type	Reel
Weight, gross	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

