

# 5530202 | QR® 715 JCAM250

75 Ohm QR® Trunk and Distribution Cable, black PE jacket with integrated figure 8 self-supporting galvanized stranded steel messenger



**OBSOLETE**

## Product Classification

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

## General Specifications

<b>Cable Type</b>	715 Series
<b>Construction Type</b>	Welded
<b>Jacket Color</b>	Black
<b>Messenger Wire Type</b>	Stranded
<b>Short Description</b>	QR 715 JCAM250 SM PR2171

## Dimensions

<b>Cable Length</b>	3000 ft   914.4 m
<b>Diameter Over Center Conductor, nominal</b>	0.166 in   4.216 mm
<b>Diameter Over Dielectric, nominal</b>	0.686 in   17.424 mm
<b>Diameter Over Jacket, nominal</b>	0.785 in   19.939 mm
<b>Diameter Over Messenger Wire, nominal</b>	0.25 in   6.35 mm
<b>Diameter Over Outer Conductor, nominal</b>	0.715 in   18.161 mm
<b>Jacket Thickness, nominal</b>	0.035 in   0.889 mm
<b>Outer Conductor Thickness, nominal</b>	0.014 in   0.368 mm

## Electrical Specifications

<b>Capacitance</b>	15.3 pF/ft   50.197 pF/m
--------------------	--------------------------

# 5530202 | QR® 715 JCAM250

<b>Capacitance Tolerance</b>	±1.0 pF/ft
<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>	0.58 ohms/kft   1.903 ohms/km
<b>dc Resistance, Loop, nominal</b>	1 ohms/kft   3.281 ohms/km
<b>dc Resistance, Outer Conductor, nominal</b>	0.42 ohms/kft   1.378 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	0.36	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	3.44	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

# 5530202 | QR® 715 JCAM250

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

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

## Mechanical Specifications

<b>Minimum Bend Radius, bonded</b>	5 in   127 mm
<b>Messenger Wire Breaking Strength, minimum</b>	6650 lb   3,016.389 kg
<b>Pulling Tension, maximum</b>	340 lb   154.221 kg

## Environmental Specifications

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

## Packaging and Weights

<b>Packaging Type</b>	Reel
<b>Weight, gross</b>	376 lb/kft   559.55 kg/km

## Regulatory Compliance/Certifications

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

