

# 5513503 | QR® 715 JACASS

75 Ohm QR® Trunk and Distribution Cable, dual black PE jackets, flooded and armored for underground



OBSOLETE

## Product Classification

Product Type	Coaxial hardline cable
Product Brand	QR®

## General Specifications

Cable Type	715 Series
Construction Type	Armored   Welded
Jacket Color	Black
Short Description	QR 715 JACASS PR2355

## Dimensions

Cable Length	914.4 m   3000 ft
Diameter Over Armor, nominal	21.717 mm   0.855 in
Diameter Over Center Conductor, nominal	4.216 mm   0.166 in
Diameter Over Dielectric, nominal	17.424 mm   0.686 in
Diameter Over Inner Jacket, nominal	19.939 mm   0.785 in
Diameter Over Jacket, nominal	23.749 mm   0.935 in
Diameter Over Outer Conductor, nominal	18.161 mm   0.715 in
Armor Thickness, nominal	0.203 mm   0.008 in
Inner Jacket Thickness, nominal	0.889 mm   0.035 in
Jacket Thickness, nominal	1.016 mm   0.04 in
Outer Conductor Thickness, nominal	0.368 mm   0.014 in

# 5513503 | QR® 715 JACASS

## Electrical Specifications

<b>Capacitance</b>	50.197 pF/m   15.3 pF/ft
<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>	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	3.44	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

# 5513503 | QR® 715 JACASS

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

Armor Material	Corrugated chrome plated steel
Center Conductor Material	Copper-clad aluminum
Dielectric Material	Foam PE
Jacket Material	PE
Inner Jacket Material	PE
Outer Conductor Material	Aluminum

## Mechanical Specifications

Minimum Bend Radius, bonded	190.5 mm   7.5 in
Pulling Tension, maximum	154.221 kg   340 lb

## Environmental Specifications

Corrosion Protection	Migraheal®
Environmental Space	Buried

## Packaging and Weights

Packaging Type	Reel
Weight, gross	534.251 kg/km   359 lb/kft

## Regulatory Compliance/Certifications

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

