

# 5514902 | QR® 860 JCASS SM MT

75 Ohm QR® Trunk and Distribution Cable, black PE jacket, flooded for underground



## Product Classification

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

## General Specifications

<b>Cable Type</b>	860 Series
<b>Construction Type</b>	Welded
<b>Jacket Color</b>	Black
<b>Short Description</b>	QR 860 JCASS SM MT PR7278

## Dimensions

<b>Cable Length</b>	899.16 m   2950 ft
<b>Diameter Over Center Conductor, nominal</b>	5.156 mm   0.203 in
<b>Diameter Over Dielectric, nominal</b>	21.031 mm   0.828 in
<b>Diameter Over Jacket, nominal</b>	24.384 mm   0.96 in
<b>Diameter Over Outer Conductor, nominal</b>	21.844 mm   0.86 in
<b>Jacket Thickness, nominal</b>	1.143 mm   0.045 in
<b>Outer Conductor Thickness, nominal</b>	0.406 mm   0.016 in

## 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)

# 5514902 | QR® 860 JCASS SM MT

<b>dc Resistance, Inner Conductor, nominal</b>	1.345 ohms/km   0.41 ohms/kft
<b>dc Resistance, Loop, nominal</b>	2.395 ohms/km   0.73 ohms/kft
<b>dc Resistance, Outer Conductor, nominal</b>	1.05 ohms/km   0.32 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	0.3	0.09
55.0	1.05	0.32
85.0	1.31	0.4
204.0	2.07	0.63
211.0	2.1	0.64
250.0	2.3	0.7
300.0	2.49	0.76
350.0	2.72	0.83
400.0	2.89	0.88
450.0	3.12	0.95
500.0	3.28	1
550.0	3.48	1.06
600.0	3.61	1.1
750.0	4.07	1.24
865.0	4.36	1.33
1000.0	4.72	1.44
1002.0	4.75	1.45
1218.0	5.28	1.61
1500.0	6.12	1.87
1794.0	6.86	2.09
1800.0	6.87	2.1
2000.0	7.36	2.24

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<b>2200.0</b>	7.83	2.39
<b>2500.0</b>	8.51	2.59
<b>2700.0</b>	8.96	2.73
<b>3000.0</b>	9.61	2.93

## Material Specifications

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

## Mechanical Specifications

<b>Minimum Bend Radius, bonded</b>	177.8 mm   7 in
<b>Pulling Tension, maximum</b>	204.117 kg   450 lb

## Environmental Specifications

<b>Corrosion Protection</b>	Migraheal®
<b>Environmental Space</b>	Buried

## Packaging and Weights

<b>Packaging Type</b>	Reel
<b>Weight, gross</b>	434.544 kg/km   292 lb/kft

## Regulatory Compliance/Certifications

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

