

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



## Product Classification

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

## Construction Materials

<b>Corrosion Protection</b>	Migraheal®
<b>Jacket Material</b>	PE
<b>Armor Material</b>	Corrugated chrome plated steel
<b>Center Conductor Material</b>	Copper-clad aluminum
<b>Construction Type</b>	Armored   Welded
<b>Dielectric Material</b>	Foam PE
<b>Inner Jacket Material</b>	PE
<b>Outer Conductor Material</b>	Aluminum

## Dimensions

<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 Outer Conductor, nominal</b>	21.844 mm   0.860 in
<b>Diameter Over Armor, nominal</b>	26.162 mm   1.030 in
<b>Diameter Over Inner Jacket, nominal</b>	24.384 mm   0.960 in
<b>Diameter Over Jacket, nominal</b>	28.194 mm   1.110 in
<b>Armor Thickness, nominal</b>	0.203 mm   0.008 in
<b>Inner Jacket Thickness, nominal</b>	1.270 mm   0.050 in
<b>Jacket Thickness, nominal</b>	1.0160 mm   0.0400 in
<b>Outer Conductor Thickness, nominal</b>	0.4064 mm   0.0160 in
<b>Cable Length</b>	899 m   2950 ft
<b>Shipping Weight</b>	488.00 lb/kft

## Electrical Specifications

<b>dc Resistance, Inner Conductor, nominal</b>	0.41 ohms/kft
<b>dc Resistance, Outer Conductor, nominal</b>	0.32 ohms/kft
<b>dc Resistance, Loop, nominal</b>	0.73 ohms/kft
<b>dc Resistance Note</b>	Nominal values based on a standard condition of 20 °C (68 °F)
<b>Capacitance</b>	50.2 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>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>	26 dB @ 1002–1218 MHz   30 dB @ 5–1002 MHz

## Environmental Specifications

<b>Environmental Space</b>	Buried
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## General Specifications

<b>Cable Type</b>	860 series
<b>Jacket Color</b>	Black
<b>Packaging Type</b>	Reel
<b>Short Description</b>	QR 860 JACASS SM PR997

## Mechanical Specifications

<b>Minimum Bend Radius, bonded</b>	241.30 mm   9.50 in
<b>Pulling Tension, maximum</b>	204 kg   450 lb

## Electrical Performance

Frequency	Attenuation (dB/100 m)	Attenuation (dB/100 ft)
5 MHz	0.30	0.09
55 MHz	1.05	0.32
83 MHz	1.31	0.40
85 MHz	1.31	0.40
204 MHz	2.07	0.63
211 MHz	2.10	0.64
250 MHz	2.30	0.70
300 MHz	2.49	0.76
350 MHz	2.72	0.83
400 MHz	2.89	0.88
450 MHz	3.12	0.95
500 MHz	3.28	1.00
550 MHz	3.48	1.06
600 MHz	3.61	1.10
750 MHz	4.07	1.24

865 MHz	4.36	1.33
1000 MHz	4.82	1.47
1002 MHz	4.92	1.50
1218 MHz	5.43	1.66
1300 MHz	5.65	1.72
1400 MHz	5.90	1.80
1500 MHz	6.14	1.87
1600 MHz	6.38	1.95
1700 MHz	6.62	2.02
1794 MHz	6.83	2.08
1800 MHz	6.85	2.09
2000 MHz	7.30	2.22
2200 MHz	7.73	2.36
2400 MHz	8.15	2.48
2600 MHz	8.56	2.61
2800 MHz	8.96	2.73
3000 MHz	9.35	2.85

\* Attenuation listed represents maximum values at standard condition of 20 °C (68 °F)

## Regulatory Compliance/Certifications

Agency	Classification
RoHS 2011/65/EU	Compliant
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system

