

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



Product Classification

Brand	QR®
Product Type	Coaxial hardline cable

Construction Materials

Corrosion Protection	Migraheal®
Jacket Material	PE
Center Conductor Material	Copper-clad aluminum
Construction Type	Welded
Dielectric Material	Foam PE
Outer Conductor Material	Aluminum

Dimensions

Diameter Over Center Conductor, nominal	5.156 mm 0.203 in
Diameter Over Dielectric, nominal	21.031 mm 0.828 in
Diameter Over Outer Conductor, nominal	21.844 mm 0.860 in
Diameter Over Jacket, nominal	24.384 mm 0.960 in
Jacket Thickness, nominal	1.1430 mm 0.0450 in
Outer Conductor Thickness, nominal	0.4064 mm 0.0160 in
Cable Length	899 m 2950 ft
Shipping Weight	292.00 lb/kft

Electrical Specifications

dc Resistance, Inner Conductor, nominal	0.41 ohms/kft
dc Resistance, Outer Conductor, nominal	0.32 ohms/kft
dc Resistance, Loop, nominal	0.73 ohms/kft
dc Resistance Note	Nominal values based on a standard condition of 20 °C (68 °F)
Capacitance	50.2 pF/m 15.3 pF/ft
Capacitance Tolerance	±1.0 pF/ft

Characteristic Impedance	75 ohm
Characteristic Impedance Tolerance	±2 ohm
Jacket Spark Test Voltage	5000 Vac
Nominal Velocity of Propagation (NVP)	88 %
Operating Frequency Band	5–3000 MHz
Structural Return Loss	26 dB @ 1002–1218 MHz 30 dB @ 5–1002 MHz

Environmental Specifications

Environmental Space	Buried
----------------------------	--------

General Specifications

Cable Type	860 series
Jacket Color	Black
Packaging Type	Reel
Short Description	QR 860 JCASS SM PR2171

Mechanical Specifications

Minimum Bend Radius, bonded	177.80 mm 7.00 in
Pulling Tension, maximum	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

RoHS 2011/65/EU
ISO 9001:2015

Classification

Compliant
Designed, manufactured and/or distributed under this quality management system

