

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



Product Classification

Brand	QR®
Product Type	Coaxial hardline cable

Construction Materials

Jacket Material	PE
Center Conductor Material	Copper-clad aluminum
Construction Type	Welded
Dielectric Material	Foam PE
Messenger Wire Material	Steel
Outer Conductor Material	Aluminum

Dimensions

Diameter Over Center Conductor, nominal	4.216 mm 0.166 in
Diameter Over Dielectric, nominal	17.424 mm 0.686 in
Diameter Over Outer Conductor, nominal	18.161 mm 0.715 in
Diameter Over Jacket, nominal	19.939 mm 0.785 in
Diameter Over Messenger Wire, nominal	4.775 mm 0.188 in
Jacket Thickness, nominal	0.8890 mm 0.0350 in
Outer Conductor Thickness, nominal	0.3683 mm 0.0145 in
Cable Length	914 m 3000 ft
Shipping Weight	301.00 lb/kft

Electrical Specifications

dc Resistance, Inner Conductor, nominal	0.58 ohms/kft
dc Resistance, Outer Conductor, nominal	0.42 ohms/kft
dc Resistance, Loop, nominal	1.00 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	Aerial
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General Specifications

Cable Type	715 series
Jacket Color	Black
Messenger Wire Type	Stranded
Packaging Type	Reel
Short Description	QR 715 JCAM188 SM PR2171

Mechanical Specifications

Messenger Wire Breaking Strength, minimum	1769 kg 3900 lb
Minimum Bend Radius, bonded	127.00 mm 5.00 in
Pulling Tension, maximum	154 kg 340 lb

Electrical Performance

Frequency	Attenuation (dB/100 m)	Attenuation (dB/100 ft)
5 MHz	0.36	0.11
55 MHz	1.21	0.37
83 MHz	1.48	0.45
85 MHz	1.51	0.46
204 MHz	2.40	0.73
211 MHz	2.43	0.74
250 MHz	2.66	0.81
300 MHz	2.92	0.89
350 MHz	3.18	0.97
400 MHz	3.44	1.05
450 MHz	3.67	1.12
500 MHz	3.90	1.19
550 MHz	4.10	1.25
600 MHz	4.30	1.31
750 MHz	4.89	1.49
865 MHz	5.31	1.62
1000 MHz	5.74	1.75
1002 MHz	5.75	1.75

1300 MHz	6.45	1.96
1400 MHz	6.72	2.05
1500 MHz	6.98	2.13
1600 MHz	7.23	2.20
1700 MHz	7.48	2.28
1794 MHz	7.71	2.35
1800 MHz	7.72	2.35
2000 MHz	8.20	2.50
2200 MHz	8.65	2.64
2400 MHz	9.08	2.77
2600 MHz	9.51	2.90
2800 MHz	9.92	3.02
3000 MHz	10.32	3.15

* 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

