

Broadband Solutions



QR JCASST G SM MT / Prodcod: 55-193-02 / Cablecom: 1019329

75 Ohm Quantum Reach® Trunk and Distribution Cable, black PE jacket with co-extruded green stripes, flooded for underground

Construction Materials

Corrosion Protection	Migraheal®
Center Conductor Material	Copper-clad aluminum
Construction Type	Welded
Dielectric Material	PE
Jacket Material	PE
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
Jacket Thickness, nominal	0.7620 mm		0.0300 in
Outer Conductor Thickness, nominal	0.3683 mm		0.0145 in
Cable Length	914 m		3000 ft
Shipping Weight	205.00 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	5–1000 MHz
Structural Return Loss	30 dB @ 5–1000 MHz

Environmental Specifications

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

General Specifications

Brand	QR®
Cable Type	Trunk and Distribution
Jacket Color	Black with co-extruded green stripe
Packaging Type	Reel

Short Description QR 715 JCASST G SM MT PR997
Warranty Ten years

Mechanical Specifications

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
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

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

Regulatory Compliance/Certifications

Agency	Classification
RoHS 2002/95/EC	Compliant
ISO 9001:2008	Designed, manufactured and/or distributed under this quality management system