

75 Ohm QR® Trunk and Distribution Cable, black PE jacket with co-extruded green stripe, flooded for underground



- *Product complies with the Build America, Buy America Act (BABAA) requirements of the Infrastructure Investment and Jobs Act of 2021 (Pub. L. 117- 58, §§ 70901-70953), or is the subject of a waiver approved by the Secretary of Commerce or designee. Compliance requirements and waiver applicability vary based on government funding program. Check the laws and regulations for your specific program.

Product Classification

Regional Availability	North America
Product Type	Coaxial hardline cable
Product Brand	QR®
Government Funding	Build America Buy America (BABA) compliant*

General Specifications

Cable Type	715 Series
Construction Type	Welded
Jacket Color	Black with co-extruded green stripe
Short Description	QR 715 JCASST G SM PR997

Dimensions

Cable Length	3000 ft 914.4 m
Diameter Over Center Conductor, nominal	0.166 in 4.216 mm
Diameter Over Dielectric, nominal	0.686 in 17.424 mm
Diameter Over Jacket, nominal	0.785 in 19.939 mm
Diameter Over Outer Conductor, nominal	0.715 in 18.161 mm
Jacket Thickness, nominal	0.03 in 0.762 mm
Outer Conductor Thickness, nominal	0.014 in 0.368 mm

Electrical Specifications

Capacitance	15.3 pF/ft 50.197 pF/m
Capacitance Tolerance	±1.0 pF/ft
Characteristic Impedance	75 ohm

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Characteristic Impedance Tolerance	±2 ohm
dc Resistance Note	Nominal values based on a standard condition of 20 °C (68 °F)
dc Resistance, Inner Conductor, nominal	0.58 ohms/kft 1.903 ohms/km
dc Resistance, Loop, nominal	1 ohms/kft 3.281 ohms/km
dc Resistance, Outer Conductor, nominal	0.42 ohms/kft 1.378 ohms/km
Jacket Spark Test Voltage	5000 Vac
Nominal Velocity of Propagation (NVP)	88 %
Operating Frequency Band	5–3000 MHz
Structural Return Loss	24 dB @ 1003–1218 MHz 24 dB @ 1219–1794 MHz 30 dB @ 5–1002 MHz
Structural Return Loss, Grade N	≥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	0.36	0.11
55.0	1.21	0.37
85.0	1.51	0.46
204.0	2.4	0.73
211.0	2.43	0.74
250.0	2.66	0.81
300.0	2.92	0.89
350.0	3.18	0.97
400.0	3.44	1.05
450.0	3.67	1.12
500.0	3.9	1.19
550.0	4.1	1.25
600.0	4.3	1.31
750.0	4.89	1.49
865.0	5.31	1.62
1002.0	5.76	1.75
1218.0	6.43	1.96
1500.0	7.44	2.27
1794.0	8.3	2.53
1800.0	8.32	2.54

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2000.0	8.88	2.71
2200.0	9.42	2.87
2500.0	10.21	3.11
2700.0	10.72	3.27
3000.0	11.46	3.49

Material Specifications

Center Conductor Material	Copper-clad aluminum
Dielectric Material	Foam PE
Jacket Material	PE
Outer Conductor Material	Aluminum

Mechanical Specifications

Minimum Bend Radius, bonded	5 in 127 mm
Pulling Tension, maximum	340 lb 154.221 kg

Environmental Specifications

Corrosion Protection	Migraheal®
Environmental Space	Buried

Packaging and Weights

Packaging Type	Reel
Weight, gross	205 lb/kft 305.074 kg/km

Regulatory Compliance/Certifications

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