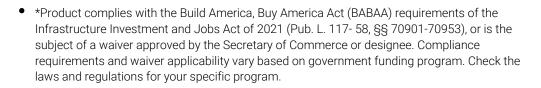
5512402 | QR® 540 JCASST B

75 Ohm QR® Trunk and Distribution Cable, black PE jacket with coextruded blue stripe, flooded for underground



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	540 Series
Construction Type	Welded
Jacket Color	Black with co-extruded blue stripe
Short Description	QR 540 JCASST B SM PR997
Dimensions	
Cable Length	3700 ft 1,127.76 m
Diameter Over Center Conductor, nominal	0.124 in 3.15 mm
Diameter Over Dielectric, nominal	0.514 in 13.056 mm
Diameter Over Jacket, nominal	0.61 in 15.494 mm
Diameter Over Outer Conductor, nominal	0.54 in 13.716 mm
Jacket Thickness, nominal	0.035 in 0.889 mm
Outer Conductor Thickness, nominal	0.014 in 0.343 mm
Electrical Specifications	

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	1.02 ohms/kft 3.346 ohms/km
dc Resistance, Loop, nominal	1.61 ohms/kft 5.282 ohms/km
dc Resistance, Outer Conductor, nominal	0.59 ohms/kft 1.936 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	0.46	0.14
55.0	1.54	0.47
85.0	1.94	0.59
204.0	3.05	0.93
211.0	3.12	0.95
250.0	3.38	1.03
300.0	3.71	1.13
350.0	4.04	1.23
400.0	4.33	1.32
450.0	4.59	1.4
500.0	4.89	1.49
550.0	5.12	1.56
600.0	5.38	1.64
750.0	6.07	1.85
865.0	6.56	2
1002.0	7.12	2.17
1218.0	7.89	2.41
1500.0	9.07	2.76
1794.0	10.11	3.08
1800.0	10.13	3.09

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2000.0	10.81	3.29
2200.0	11.46	3.49
2500.0	12.41	3.78
2700.0	13.03	3.97
3000.0	13.93	4.24

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	4 in 101.6 mm
Pulling Tension, maximum	220 lb 99.79 kg

Corrosion Protection	Migraheal®
Environmental Space	Buried
Packaging and Weights	
Packaging Type	Reel
Weight, gross	120 lb/kft 178.58 kg/km
Regulatory Compliance/Certifications	

Regulatory Compliance/Certifications

Classification

Agency

ISO 9001:2015

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

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