5533102 | QR® 540 JCAT G

75 Ohm QR® Trunk and Distribution Cable, black PE jacket with coextruded green stripes



OBSOLETE	
Product Classification	
Product Type	Coaxial hardline cable
Product Brand	QR®
General Specifications	
Cable Type	540 Series
Construction Type	Welded
Jacket Color	Black with co-extruded green stripe
Short Description	QR 540 JCAT G SM PR2171
Dimensions	
Cable Length	1,127.76 m 3700 ft
Diameter Over Center Conductor, nominal	3.15 mm 0.124 in
Diameter Over Dielectric, nominal	13.056 mm 0.514 in
Diameter Over Jacket, nominal	15.494 mm 0.61 in
Diameter Over Outer Conductor, nominal	13.716 mm 0.54 in
Jacket Thickness, nominal	0.889 mm 0.035 in
Outer Conductor Thickness, nominal	0.343 mm 0.014 in
Electrical Specifications	
Capacitance	50.197 pF/m 15.3 pF/ft
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	3.346 ohms/km 1.02 ohms/kft
dc Resistance, Loop, nominal	5.282 ohms/km 1.61 ohms/kft
dc Resistance, Outer Conductor, nominal	1.936 ohms/km 0.59 ohms/kft
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
Machanical Constitutions	

Mechanical Specifications

Minimum Bend Radius, bonded	101.6 mm 4 in
Pulling Tension, maximum	99.79 kg 220 lb

Environmental Space	Aerial
Packaging and Weights	
Packaging Type	Reel
Weight, gross	178.58 kg/km 120 lb/kft

Regulatory Compliance/Certifications

Agency

Classification

ISO 9001:2015

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



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