5506302 | QR® 540 JCA

75 Ohm QR® Trunk and Distribution Cable, black PE jacket



Product Classification

Product Type Coaxial hardline cable

Product Brand QR®

General Specifications

Cable Type540 SeriesConstruction TypeWeldedJacket ColorBlack

Short Description QR 540 JCA SM PR2171

Dimensions

Cable Length1,127.76 m | 3700 ftDiameter Over Center Conductor, nominal3.15 mm | 0.124 inDiameter Over Dielectric, nominal13.056 mm | 0.514 inDiameter Over Jacket, nominal15.494 mm | 0.61 inDiameter Over Outer Conductor, nominal13.716 mm | 0.54 inJacket Thickness, nominal0.889 mm | 0.035 inOuter Conductor Thickness, nominal0.343 mm | 0.014 in

Electrical Specifications

Capacitance 50.197 pF/m | 15.3 pF/ft

dc Resistance Note Nominal values based on a standard condition of 20 °C (68 °F)



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dc Resistance, Inner Conductor, nominal3.346 ohms/km | 1.02 ohms/kftdc Resistance, Loop, nominal5.282 ohms/km | 1.61 ohms/kft

dc Resistance, Outer Conductor, nominal1.936 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
2000.0	10.81	3.29
2200.0	11.46	3.49



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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, bonded101.6 mm4 inPulling Tension, maximum40.823 kg90 lb

Environmental Specifications

Environmental Space Aerial

Packaging and Weights

Packaging Type Reel

Weight, gross 178.58 kg/km | 120 lb/kft

Regulatory Compliance/Certifications

AgencyClassificationCHINA-ROHSBelow maximum concentration valueISO 9001:2015Designed, manufactured and/or distributed under this quality management systemREACH-SVHCCompliant as per SVHC revision on www.commscope.com/ProductComplianceROHSCompliant



