Product Specifications





Broadband Solutions

5506302 **QR® 540 |CA**

75 Ohm Quantum Reach® Trunk and Distribution Cable, black PE jacket

Construction Materials

Jacket Material

Center Conductor Material Copper-clad aluminum

Welded Construction Type PΕ Dielectric Material **Outer Conductor Material** Aluminum

Dimensions

Diameter Over Center Conductor, nominal 3.150 mm | 0.124 in Diameter Over Dielectric, nominal 13.056 mm | 0.514 in Diameter Over Outer Conductor, nominal 13.716 mm | 0.540 in Diameter Over Jacket, nominal 15.494 mm | 0.610 in Jacket Thickness, nominal 0.8890 mm | 0.0350 in Outer Conductor Thickness, nominal 0.3429 mm | 0.0135 in Cable Length 869 m | 2850 ft

Shipping Weight 120.00 lb/kft



Electrical Specifications

dc Resistance, Inner Conductor, nominal 1.02 ohms/kft dc Resistance, Outer Conductor, nominal 0.59 ohms/kft dc Resistance, Loop, nominal 1.61 ohms/kft

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

50.2 pF/m | 15.3 pF/ft Capacitance

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 Aerial

General Specifications

Brand QR® 540 series Cable Type Jacket Color Black Packaging Type Reel

Short Description QR 540 JCA SM PR2171

Product Specifications



5506302 | QR® 540 JCA

Warranty Ten years

Mechanical Specifications

Minimum Bend Radius, bonded 101.60 mm | 4.00 in Pulling Tension, maximum 41 kg | 90 lb

Electrical Performance

Frequency	Attenuation (dB/100 m)	Attenuation (dB/100 ft)	
5 MHz	0.46	0.14	
55 MHz	1.56	0.48	
83 MHz	1.90	0.58	
211 MHz	3.12	0.95	
250 MHz	3.38	1.03	
300 MHz	3.71	1.13	
350 MHz	4.04	1.23	
400 MHz	4.33	1.32	
450 MHz	4.59	1.40	
500 MHz	4.89	1.49	
550 MHz	5.12	1.56	
600 MHz	5.38	1.64	
750 MHz	6.07	1.85	
865 MHz	6.56	2.00	
1000 MHz	7.12	2.17	

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

Regulatory Compliance/Certifications

AgencyRoHS 2011/65/EU

Compliant

ISO 9001:2008 Designed, manufactured and/or distributed under this quality management system