# 5518702 | QR® 540 JCART R

75 Ohm QR® Trunk and Distribution Cable, black flame retardant PE jacket with co-extruded red stripes



#### **Product Classification**

Product Type Coaxial hardline cable

Product Brand QR®

General Specifications

Cable Type540 SeriesConstruction TypeWelded

Jacket ColorBlack with co-extruded red stripeShort DescriptionQR 540 JCART R SM PR2351

**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, nominal 3.346 ohms/km | 1.02 ohms/kft

dc Resistance, Loop, nominal5.282 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

5.00.460.1455.01.540.4785.01.940.59204.03.050.93211.03.120.95250.03.381.03300.03.711.13350.04.041.23400.04.331.32450.04.591.4500.05.121.56600.05.381.64750.06.071.85865.06.5621002.07.122.171218.07.892.411500.09.072.761794.010.113.081800.010.133.092000.010.813.292200.011.463.49	Frequency (MHz)	Attenuation (dB/100 m)	Attenuation (dB/100 ft)
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 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	5.0	0.46	0.14
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 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	55.0	1.54	0.47
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 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	85.0	1.94	0.59
250.03.381.03300.03.711.13350.04.041.23400.04.331.32450.04.591.4500.04.891.49550.05.121.56600.05.381.64750.06.071.85865.06.5621002.07.122.171218.07.892.411500.09.072.761794.010.113.081800.010.133.092000.010.813.29	204.0	3.05	0.93
300.03.711.13350.04.041.23400.04.331.32450.04.591.4500.05.121.56600.05.381.64750.06.071.85865.06.5621002.07.122.171218.07.892.411500.09.072.761794.010.113.081800.010.133.092000.010.813.29	211.0	3.12	0.95
350.04.041.23400.04.331.32450.04.591.4500.04.891.49550.05.121.56600.05.381.64750.06.071.85865.06.5621002.07.122.171218.07.892.411500.09.072.761794.010.113.081800.010.133.092000.010.813.29	250.0	3.38	1.03
400.04.331.32450.04.591.4500.04.891.49550.05.121.56600.05.381.64750.06.071.85865.06.5621002.07.122.171218.07.892.411500.09.072.761794.010.113.081800.010.133.092000.010.813.29	300.0	3.71	1.13
450.04.591.4500.04.891.49550.05.121.56600.05.381.64750.06.071.85865.06.5621002.07.122.171218.07.892.411500.09.072.761794.010.113.081800.010.133.092000.010.813.29	350.0	4.04	1.23
500.04.891.49550.05.121.56600.05.381.64750.06.071.85865.0221002.07.122.171218.07.892.411500.09.072.761794.010.113.081800.010.133.092000.010.813.29	400.0	4.33	1.32
550.05.121.56600.05.381.64750.06.071.85865.06.5621002.07.122.171218.07.892.411500.09.072.761794.010.113.081800.010.133.092000.010.813.29	450.0	4.59	1.4
600.05.381.64750.06.071.85865.06.5621002.07.122.171218.07.892.411500.09.072.761794.010.113.081800.010.133.092000.010.813.29	500.0	4.89	1.49
750.06.071.85865.06.5621002.07.122.171218.07.892.411500.09.072.761794.010.113.081800.010.133.092000.010.813.29	550.0	5.12	1.56
865.06.5621002.07.122.171218.07.892.411500.09.072.761794.010.113.081800.010.133.092000.010.813.29	600.0	5.38	1.64
1002.07.122.171218.07.892.411500.09.072.761794.010.113.081800.010.133.092000.010.813.29	750.0	6.07	1.85
1218.07.892.411500.09.072.761794.010.113.081800.010.133.092000.010.813.29	865.0	6.56	2
1500.09.072.761794.010.113.081800.010.133.092000.010.813.29	1002.0	7.12	2.17
1794.010.113.081800.010.133.092000.010.813.29	1218.0	7.89	2.41
1800.010.133.092000.010.813.29	1500.0	9.07	2.76
<b>2000.0</b> 10.81 3.29	1794.0	10.11	3.08
	1800.0	10.13	3.09
<b>2200.0</b> 11.46 3.49	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, maximum99.79 kg220 lb

### **Environmental Specifications**

Environmental Space Aerial

Flame Test Listing NEC Article 820

Packaging and Weights

Packaging Type Reel

**Weight, gross** 187.509 kg/km | 126 lb/kft

### Regulatory Compliance/Certifications

#### Agency Classification

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

