5510192 | QR® 540 JCASS

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



Product Classification

Product Type Coaxial hardline cable

Product Brand QR®

General Specifications

Cable Type540 SeriesConstruction TypeWeldedJacket ColorBlack

Short Description QR 540 JCASS SM PR2171

Dimensions

Cable Length3700 ft | 1,127.76 mDiameter Over Center Conductor, nominal0.124 in | 3.15 mmDiameter Over Dielectric, nominal0.514 in | 13.056 mmDiameter Over Jacket, nominal0.61 in | 15.494 mmDiameter Over Outer Conductor, nominal0.54 in | 13.716 mmJacket Thickness, nominal0.035 in | 0.889 mmOuter Conductor Thickness, nominal0.014 in | 0.343 mm

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)

COMMSC PE°

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dc Resistance, Inner Conductor, nominal1.02 ohms/kft | 3.346 ohms/kmdc Resistance, Loop, nominal1.61 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

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
250.03.381.03300.03.711.13350.04.041.23400.04.331.32450.04.591.4500.05.121.56600.05.381.64750.06.071.85865.06.5621002.07.122.171218.07.892.411500.09.072.761794.010.113.081800.010.133.092000.010.813.29	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
2000.0 10.81 3.29	1794.0	10.11	3.08
	1800.0	10.13	3.09
2200.0 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

Pulling Tension, maximum 220 lb | 99.79 kg

Environmental Specifications

 Corrosion Protection
 Migraheal®

 Environmental Space
 Buried

Packaging and Weights

Packaging Type Reel

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

Regulatory Compliance/Certifications

Agency Classification

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

