

5532302 | QR® 540 JCASP SM MT

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



Product Classification

| | |
|----------------------|------------------------|
| Product Type | Coaxial hardline cable |
| Product Brand | QR® |

General Specifications

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|--------------------------|---------------------------|
| Cable Type | 540 Series |
| Construction Type | Welded |
| Jacket Color | Black |
| Short Description | QR 540 JCASP SM MT PR7238 |

Dimensions

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|--|----------------------|
| 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 | 0.737 mm 0.029 in |
| Outer Conductor Thickness, nominal | 0.343 mm 0.014 in |

Electrical Specifications

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|---|---|
| Capacitance | 50.197 pF/m 15.3 pF/ft |
| Capacitance Tolerance | ±1.0 pF/ft |
| Characteristic Impedance | 75 ohm |
| Characteristic Impedance Tolerance | ±2 ohm |
| 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, 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 |
| 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

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|----------------------------------|----------------------|
| Center Conductor Material | Copper-clad aluminum |
| Dielectric Material | Foam PE |
| Jacket Material | PE |
| Outer Conductor Material | Aluminum |

Mechanical Specifications

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

Environmental Specifications

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|-----------------------------|-----------------|
| Corrosion Protection | Aerial floodant |
| Environmental Space | Aerial |

Packaging and Weights

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|-----------------------|----------------------------|
| Packaging Type | Reel |
| Weight, gross | 190.485 kg/km 128 lb/kft |

Regulatory Compliance/Certifications

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

