# Product Specifications





**Broadband Solutions** 

QR® 540 ICASS SM MT 5514002

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

#### **Construction Materials**

Corrosion Protection Migraheal®

Jacket Material PΕ

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



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

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

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** Buried

#### **General Specifications**

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



## **Product Specifications**



5514002 | QR® 540 JCASS SM MT

Short Description QR 540 JCASS SM MT PR2352

Warranty Ten years

#### **Mechanical Specifications**

Minimum Bend Radius, bonded 101.60 mm | 4.00 in Pulling Tension, maximum 100 kg | 220 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	

<sup>\*</sup> Attenuation listed represents maximum values at standard condition of 20 °C (68 °F)

### **Regulatory Compliance/Certifications**

**Agency**RoHS 2011/65/EU

Classification
Compliant

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