## **Product Specifications**



#### **Broadband Solutions**



QR 540 JCASST SM MT / Prodcode: 55-278-02 / Cablecom 1019322

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

#### Construction Materials

Corrosion Protection Migraheal®

Center Conductor Material Copper-clad aluminum

Construction Type Welded
Dielectric Material PE

Jacket Material PE with Green Stripe

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 1219 m | 4000 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)

Capacitance 50.2 pF/m | 15.3 pF/ft

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 Trunk and Distribution

Jacket Color Black with green stripe

Packaging Type Reel

# Product Specifications



Short Description QR 540 JCASST 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 2002/95/EC
Compliant

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