# 5509002 | QR® 860 JCASS



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

\*Product complies with the Build America, Buy America Act (BABAA) requirements of the Infrastructure Investment and Jobs Act of 2021 (Pub. L. 117- 58, §§ 70901-70953), or is the subject of a waiver approved by the Secretary of Commerce or designee. Compliance requirements and waiver applicability vary based on government funding program. Check the laws and regulations for your specific program.

#### **Product Classification**

Regional Availability North America

Product Type Coaxial hardline cable

Product Brand QR®

**Government Requirements**Build America Buy America (BABA) compliant\*

General Specifications

Cable Type860 SeriesConstruction TypeWeldedJacket ColorBlack

Location of ManufacturingCatawba, North CarolinaShort DescriptionQR 860 JCASS SM PR2171

#### **Dimensions**

Cable Length899.16 m | 2950 ftDiameter Over Center Conductor, nominal5.156 mm | 0.203 inDiameter Over Dielectric, nominal21.031 mm | 0.828 inDiameter Over Jacket, nominal24.384 mm | 0.96 inDiameter Over Outer Conductor, nominal21.844 mm | 0.86 inJacket Thickness, nominal1.143 mm | 0.045 inOuter Conductor Thickness, nominal0.406 mm | 0.016 in

**Electrical Specifications** 

**Capacitance** 50.197 pF/m | 15.3 pF/ft

**Capacitance Tolerance**  $\pm 1.0 \text{ pF/ft}$ 

COMMSCOPE®

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Characteristic Impedance75 ohmCharacteristic Impedance Tolerance±2 ohm

dc Resistance Note

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

dc Resistance, Inner Conductor, nominal1.345 ohms/km | 0.41 ohms/kftdc Resistance, Loop, nominal2.395 ohms/km | 0.73 ohms/kftdc Resistance, Outer Conductor, nominal1.05 ohms/km | 0.32 ohms/kft

Jacket Spark Test Voltage5000 VacNominal 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	0.3	0.09
55.0	1.05	0.32
85.0	1.31	0.4
204.0	2.07	0.63
211.0	2.1	0.64
250.0	2.3	0.7
300.0	2.49	0.76
350.0	2.72	0.83
400.0	2.89	0.88
450.0	3.12	0.95
500.0	3.28	1
550.0	3.48	1.06
600.0	3.61	1.1
750.0	4.07	1.24
865.0	4.36	1.33
1000.0	4.72	1.44
1002.0	4.75	1.45
1218.0	5.28	1.61
1500.0	6.12	1.87





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1794.0	6.86	2.09
1800.0	6.87	2.1
2000.0	7.36	2.24
2200.0	7.83	2.39
2500.0	8.51	2.59
2700.0	8.96	2.73
3000.0	9.61	2.93

## Material Specifications

**Center Conductor Material** Copper-clad aluminum

**Dielectric Material** Foam PE

Jacket Material ΡF

**Outer Conductor Material** Aluminum

Mechanical Specifications

Minimum Bend Radius, bonded 177.8 mm | 7 in 204.117 kg | 450 lb **Pulling Tension, maximum** 

## **Environmental Specifications**

**Corrosion Protection** Migraheal® Buried

**Environmental Space** 

Packaging and Weights

**Packaging Type** Reel

Weight, gross 434.544 kg/km | 292 lb/kft

