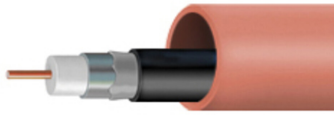


# CX3760001 | 200T040QR860JCASS COEX



ConQuest® Cable in Conduit, 2 in, SCH 40, terracotta, QR 860 JCASS

- \*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

<b>Regional Availability</b>	North America
<b>Product Type</b>	Coaxial cable-in-conduit
<b>Product Brand</b>	ConQuest®
<b>Product Series</b>	860 Series
<b>Government Requirements</b>	Build America Buy America (BABA) compliant*

## General Specifications

<b>Cable Type</b>	860 Series
<b>Cable-In-Conduit Type</b>	QR® in duct
<b>Color</b>	Terracotta
<b>Conduit Type</b>	Non-toneable
<b>Location of Manufacturing</b>	Catawba, North Carolina
<b>Wall Type</b>	Smooth

## Dimensions

<b>Length</b>	822.96 m   2700 ft
<b>Wall Thickness Designation</b>	SCH 40
<b>Nominal Size</b>	2 in

## Packaging and Weights

<b>Weight, net</b>	1,022.369 kg/km   687 lb/kft
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## Included Products

5543802 QR® 860 JCASS	-	75 Ohm QR® Trunk and Distribution Cable, black PE jacket, flooded for underground
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# CX3760001 | 200T040QR860JCASS COEX

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CX3799999  
200T040 EMPTY DUCT COEX

ConQuest® Empty Conduit, 2 in, SCH 40, terracotta



## Product Classification

<b>Product Type</b>	Coaxial hardline cable
<b>Product Brand</b>	QR®

## General Specifications

<b>Cable Type</b>	860 Series
<b>Construction Type</b>	Welded
<b>Jacket Color</b>	Black
<b>Short Description</b>	QR 860 JCASS SM PR2171

## Dimensions

<b>Cable Length</b>	899.16 m   2950 ft
<b>Diameter Over Center Conductor, nominal</b>	5.156 mm   0.203 in
<b>Diameter Over Dielectric, nominal</b>	21.031 mm   0.828 in
<b>Diameter Over Jacket, nominal</b>	24.384 mm   0.96 in
<b>Diameter Over Outer Conductor, nominal</b>	21.844 mm   0.86 in
<b>Jacket Thickness, nominal</b>	1.143 mm   0.045 in
<b>Outer Conductor Thickness, nominal</b>	0.406 mm   0.016 in

## Electrical Specifications

<b>Capacitance</b>	50.197 pF/m   15.3 pF/ft
<b>Capacitance Tolerance</b>	±1.0 pF/ft
<b>Characteristic Impedance</b>	75 ohm
<b>Characteristic Impedance Tolerance</b>	±2 ohm
<b>dc Resistance Note</b>	Nominal values based on a standard condition of 20 °C (68 °F)
<b>dc Resistance, Inner Conductor, nominal</b>	1.345 ohms/km   0.41 ohms/kft
<b>dc Resistance, Loop, nominal</b>	2.395 ohms/km   0.73 ohms/kft
<b>dc Resistance, Outer Conductor, nominal</b>	1.05 ohms/km   0.32 ohms/kft

# 5543802 | QR® 860 JCASS

<b>Jacket Spark Test Voltage</b>	5000 Vac
<b>Nominal Velocity of Propagation (NVP)</b>	88 %
<b>Operating Frequency Band</b>	5–3000 MHz
<b>Structural Return Loss</b>	24 dB @ 1003–1218 MHz   24 dB @ 1219–1794 MHz   30 dB @ 5–1002 MHz
<b>Structural Return Loss, Grade N</b>	≥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
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

<b>Center Conductor Material</b>	Copper-clad aluminum
<b>Dielectric Material</b>	Foam PE
<b>Jacket Material</b>	PE
<b>Outer Conductor Material</b>	Aluminum

## Mechanical Specifications

<b>Minimum Bend Radius, bonded</b>	177.8 mm   7 in
<b>Pulling Tension, maximum</b>	204.117 kg   450 lb

## Environmental Specifications

<b>Corrosion Protection</b>	Migraheal®
<b>Environmental Space</b>	Buried

## Packaging and Weights

<b>Packaging Type</b>	Reel
<b>Weight, gross</b>	434.544 kg/km   292 lb/kft

## Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system

# CX3799999 | 200T040 EMPTY DUCT COEX



ConQuest® Empty Conduit, 2 in, SCH 40, terracotta

## Product Classification

<b>Product Type</b>	Empty conduit
<b>Product Brand</b>	ConQuest®

## General Specifications

<b>Color</b>	Terracotta
<b>Conduit Type</b>	Non-toneable
<b>Density Test Method</b>	ASTM D792A
<b>Density, maximum</b>	0.955 g/cm <sup>3</sup>   0.035 lb/in <sup>3</sup>
<b>Density, minimum</b>	0.941 g/cm <sup>3</sup>   0.034 lb/in <sup>3</sup>
<b>Design Standard</b>	ASTM D3350-05
<b>Wall Type</b>	Smooth

## Dimensions

<b>Length</b>	762 m   2500 ft
<b>Inner Diameter, nominal</b>	51.994 mm   2.047 in
<b>Outer Diameter, nominal</b>	60.325 mm   2.375 in
<b>Wall Thickness Designation</b>	SCH 40
<b>Wall Thickness, minimum</b>	3.912 mm   0.154 in
<b>Nominal Size</b>	2 in

## Material Specifications

<b>Flexural Modulus, minimum</b>	551.581 N/mm <sup>2</sup>   80000 psi
<b>Flexural Property Test Method</b>	ASTM D790
<b>Hydrostatic Design Basis</b>	Not pressure rated
<b>Hydrostatic Design Test Method</b>	ASTM D2837
<b>Material Type</b>	High density polyethylene (HDPE)
<b>Melt Flow Rate Test Method</b>	ASTM D1238

# CX3799999 | 200T040 EMPTY DUCT COEX

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**Melt Flow Rate, maximum** 0.39 g/10 min

## Mechanical Specifications

**Minimum Bend Radius, unsupported** 660.4 mm | 26 in

**Tensile Property Test Method** ASTM D638

**Tensile Strength at yield, minimum** 20.684 N/mm<sup>2</sup> | 3000 psi

**Pulling Tension, maximum** 1,043.262 kg | 2300 lb

## Environmental Specifications

**Environmental Stress Crack Resistance** Failure rate of 10% within 96 hours

**Environmental Stress Test Method** ASTM D1693, ESCR Condition B

## Packaging and Weights

**Weight, net** 702.413 kg/km | 472 lb/kft

## Regulatory Compliance/Certifications

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

## \* Footnotes

**Environmental Stress Crack Resistance** ESCR—Environmental Stress Crack Resistance