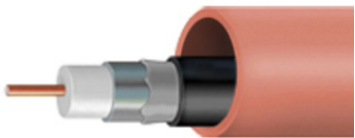


# CX3460006 | 150T135QR860JCASS COEX



ConQuest® Cable in Conduit, 1 1/2 in, SDR 13.5, 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

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

## General Specifications

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

## Dimensions

Length	822.96 m   2700 ft
Wall Thickness Designation	SDR 13.5
Nominal Size	1-1/2 in

## Packaging and Weights

Weight, net	831.884 kg/km   559 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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# CX3460006 | 150T135QR860JCASS COEX

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CX3499999 – ConQuest® Empty Conduit, 1 1/2 in, SDR 13.5, terracotta  
150T135 EMPTY DUCT COEX



## Product Classification

Product Type	Coaxial hardline cable
Product Brand	QR®

## General Specifications

Cable Type	860 Series
Construction Type	Welded
Jacket Color	Black
Short Description	QR 860 JCASS SM PR2171

## Dimensions

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

## Electrical Specifications

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)
dc Resistance, Inner Conductor, nominal	1.345 ohms/km   0.41 ohms/kft
dc Resistance, Loop, nominal	2.395 ohms/km   0.73 ohms/kft
dc Resistance, Outer Conductor, nominal	1.05 ohms/km   0.32 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	0.3	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

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

### Mechanical Specifications

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

### Environmental Specifications

Corrosion Protection	Migraheal®
Environmental Space	Buried

### Packaging and Weights

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

### Regulatory Compliance/Certifications

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

CX3499999 | 150T135 EMPTY DUCT COEX

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ConQuest® Empty Conduit, 1 1/2 in, SDR 13.5, terracotta

Product Classification

Product Type	Empty conduit
Product Brand	ConQuest®

General Specifications

Color	Terracotta
Conduit Type	Non-toneable
Density Test Method	ASTM D792A
Density, maximum	0.955 g/cm³   0.035 lb/in³
Density, minimum	0.941 g/cm³   0.034 lb/in³
Design Standard	ASTM D3350-05
Wall Type	Smooth

Dimensions

Length	914.4 m   3000 ft
Inner Diameter, nominal	40.589 mm   1.598 in
Outer Diameter, nominal	48.26 mm   1.9 in
Wall Thickness Designation	SDR 13.5
Wall Thickness, minimum	3.581 mm   0.141 in
Nominal Size	1-1/2 in

Material Specifications

Flexural Modulus, minimum	551.581 N/mm²   80000 psi
Flexural Property Test Method	ASTM D790
Hydrostatic Design Basis	Not pressure rated
Hydrostatic Design Test Method	ASTM D2837
Material Type	High density polyethylene (HDPE)
Melt Flow Rate Test Method	ASTM D1238

# CX3499999 | 150T135 EMPTY DUCT COEX

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

## Mechanical Specifications

**Minimum Bend Radius, unsupported** 508 mm | 20 in

**Tensile Property Test Method** ASTM D638

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

**Pulling Tension, maximum** 659.977 kg | 1455 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** 511.928 kg/km | 344 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