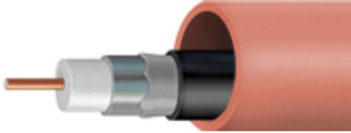


CX3460006 | 150T135QR860JCASS COEX

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 Funding	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
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

CX3499999
150T135 EMPTY DUCT COEX

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

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



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

Electrical Specifications

Capacitance	15.3 pF/ft 50.197 pF/m
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)

5543802 | QR® 860 JCASS

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

5543802 | QR® 860 JCASS

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	7 in 177.8 mm
Pulling Tension, maximum	450 lb 204.117 kg

Environmental Specifications

Corrosion Protection	Migraheal®
Environmental Space	Buried

Packaging and Weights

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

Regulatory Compliance/Certifications

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



CX3499999 | 150T135 EMPTY DUCT COEX



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/cm ³ 0.035 lb/in ³
Density, minimum	0.941 g/cm ³ 0.034 lb/in ³
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/mm ² 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/mm² | 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

ISO 9001:2015

Classification

Designed, manufactured and/or distributed under this quality management system



* Footnotes

Environmental Stress Crack Resistance ESCR—Environmental Stress Crack Resistance