



ConQuest® Cable in Conduit, 1 1/2 in, SDR 13.5, terracotta, QR 715 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	715 Series
Government Requirements	Build America Buy America (BABA) compliant*

General Specifications

Cable Type	715 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	914.4 m 3000 ft
Wall Thickness Designation	SDR 13.5
Nominal Size	1-1/2 in

Packaging and Weights

Weight, net	744.082 kg/km 500 lb/kft
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Included Products

5518102 QR® 715 JCASS	–	75 Ohm QR® Trunk and Distribution Cable, black PE jacket, flooded for underground
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CX3460004 | 150T135QR715JCASS COEX

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



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

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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 Type	715 Series
Construction Type	Welded
Jacket Color	Black
Location of Manufacturing	Catawba, North Carolina
Short Description	QR 715 JCASS SM PR997

Dimensions

Cable Length	914.4 m 3000 ft
Diameter Over Center Conductor, nominal	4.216 mm 0.166 in
Diameter Over Dielectric, nominal	17.424 mm 0.686 in
Diameter Over Jacket, nominal	19.939 mm 0.785 in
Diameter Over Outer Conductor, nominal	18.161 mm 0.715 in
Jacket Thickness, nominal	0.889 mm 0.035 in
Outer Conductor Thickness, nominal	0.368 mm 0.014 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	1.903 ohms/km 0.58 ohms/kft
dc Resistance, Loop, nominal	3.281 ohms/km 1 ohms/kft
dc Resistance, Outer Conductor, nominal	1.378 ohms/km 0.42 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	0.36	0.11
55.0	1.21	0.37
85.0	1.51	0.46
204.0	2.4	0.73
211.0	2.43	0.74
250.0	2.66	0.81
300.0	2.92	0.89
350.0	3.18	0.97
400.0	3.44	1.05
450.0	3.67	1.12
500.0	3.9	1.19
550.0	4.1	1.25
600.0	4.3	1.31
750.0	4.89	1.49
865.0	5.31	1.62
1002.0	5.76	1.75
1218.0	6.43	1.96
1500.0	7.44	2.27
1794.0	8.3	2.53

1800.0	8.32	2.54
2000.0	8.88	2.71
2200.0	9.42	2.87
2500.0	10.21	3.11
2700.0	10.72	3.27
3000.0	11.46	3.49

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	127 mm 5 in
Pulling Tension, maximum	154.221 kg 340 lb

Environmental Specifications

Corrosion Protection	Migraheal®
Environmental Space	Buried

Packaging and Weights

Packaging Type	Reel
Weight, gross	305.074 kg/km 205 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



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

* Footnotes

Environmental Stress Crack Resistance ESCR—Environmental Stress Crack Resistance