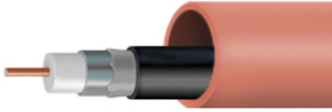


ConQuest® Cable in Conduit, 2 in, SCH 40, terracotta, QR 860 JCASS



- *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

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	SCH 40
Nominal Size	2 in

Packaging and Weights

Weight, net	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

CX3799999
200T040 EMPTY DUCT COEX

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

5543802 | QR® 860 JCASS

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

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	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



CX3799999 | 200T040 EMPTY DUCT COEX



ConQuest® Empty Conduit, 2 in, SCH 40, 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	762 m 2500 ft
Inner Diameter, nominal	51.994 mm 2.047 in
Outer Diameter, nominal	60.325 mm 2.375 in
Wall Thickness Designation	SCH 40
Wall Thickness, minimum	3.912 mm 0.154 in
Nominal Size	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

CX3799999 | 200T040 EMPTY DUCT COEX

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/mm² | 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

ISO 9001:2015

Classification

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



* Footnotes

Environmental Stress Crack Resistance ESCR—Environmental Stress Crack Resistance