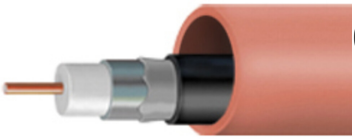
CX3750003 | 200T040P3875JCASS COEX



ConQuest® Cable in Conduit, 2 in, SCH 40, terracotta (P3® 875 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	875 Series
Government Requirements	Build America Buy America (BABA) compliant*

General Specifications

Cable Type	875 Series
Cable-In-Conduit Type	P3® in duct
Color	Terracotta
Conduit Type	Non-toneable
Location of Manufacturing	Catawba, North Carolina
Wall Type	Smooth

Dimensions

Length	762 m | 2500 ft
Wall Thickness Designation	SCH 40
Nominal Size	2 in

Packaging and Weights

Weight, net	1,092.312 kg/km | 734 lb/kft

Included Products

5309103 P3® 875 JCASS	–	75 Ohm P3® Trunk and Distribution Cable, black PE jacket, flooded for underground

5309193 P3® 875 JCASS	–	75 Ohm P3® Trunk and Distribution Cable, black PE jacket, flooded for underground
CX3799999 200T040 EMPTY DUCT COEX	–	ConQuest® Empty Conduit, 2 in, SCH 40, terracotta

5309103 | P3® 875 JCASS

75 Ohm P3® Trunk and Distribution Cable, black PE jacket, flooded for underground

- *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 hardline cable
Product Brand	P3®
Government Requirements	Build America Buy America (BABA) compliant*
Warranty	One year

General Specifications

Cable Type	875 Series
Construction Type	Swaged
Jacket Color	Black
Location of Manufacturing	Catawba, North Carolina
Short Description	P3 875 JCASS SM PR997

Dimensions

Cable Length	762 m | 2500 ft
Diameter Over Center Conductor, nominal	4.928 mm | 0.194 in
Diameter Over Dielectric, nominal	20.244 mm | 0.797 in
Diameter Over Jacket, nominal	24.257 mm | 0.955 in
Diameter Over Outer Conductor, nominal	22.225 mm | 0.875 in
Jacket Thickness, nominal	0.889 mm | 0.035 in
Outer Conductor Thickness, nominal	0.991 mm | 0.039 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	1.378 ohms/km | 0.42 ohms/kft
dc Resistance, Loop, nominal	1.804 ohms/km | 0.55 ohms/kft
dc Resistance, Outer Conductor, nominal	0.427 ohms/km | 0.13 ohms/kft
Jacket Spark Test Voltage	5000 Vac
Nominal Velocity of Propagation (NVP)	87 %
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	1.08	0.33
85.0	1.31	0.4
204.0	2.07	0.63
211.0	2.17	0.66
250.0	2.36	0.72
300.0	2.56	0.78
350.0	2.76	0.84
400.0	2.99	0.91
450.0	3.18	0.97
500.0	3.38	1.03
550.0	3.54	1.08
600.0	3.74	1.14
750.0	4.23	1.29
865.0	4.63	1.41
1002.0	5.02	1.53
1218.0	5.57	1.7
1500.0	6.39	1.95

1794.0	7.13	2.17
1800.0	7.14	2.18
2000.0	7.62	2.32
2200.0	8.09	2.46
2500.0	8.76	2.67
2700.0	9.19	2.8
3000.0	9.83	3

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	396.893 kg | 875 lb

Environmental Specifications

Corrosion Protection	Migraheal®
Environmental Space	Buried

Packaging and Weights

Packaging Type	Reel
Weight, gross	505.976 kg/km | 340 lb/kft

Regulatory Compliance/Certifications

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

5309193 | P3® 875 JCASS

75 Ohm P3® Trunk and Distribution Cable, black PE jacket, flooded for underground

Product Classification

Product Type	Coaxial hardline cable
Product Brand	P3®
Warranty	One year

General Specifications

Cable Type	875 Series
Construction Type	Swaged
Jacket Color	Black
Short Description	P3 875 JCASS SM PR997

Dimensions

Cable Length	762 m | 2500 ft
Diameter Over Center Conductor, nominal	4.928 mm | 0.194 in
Diameter Over Dielectric, nominal	20.244 mm | 0.797 in
Diameter Over Jacket, nominal	24.257 mm | 0.955 in
Diameter Over Outer Conductor, nominal	22.225 mm | 0.875 in
Jacket Thickness, nominal	0.889 mm | 0.035 in
Outer Conductor Thickness, nominal	0.991 mm | 0.039 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	1.378 ohms/km | 0.42 ohms/kft
dc Resistance, Loop, nominal	1.804 ohms/km | 0.55 ohms/kft

dc Resistance, Outer Conductor, nominal	0.427 ohms/km | 0.13 ohms/kft
Jacket Spark Test Voltage	5000 Vac
Nominal Velocity of Propagation (NVP)	87 %
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	1.08	0.33
85.0	1.31	0.4
204.0	2.07	0.63
211.0	2.17	0.66
250.0	2.36	0.72
300.0	2.56	0.78
350.0	2.76	0.84
400.0	2.99	0.91
450.0	3.18	0.97
500.0	3.38	1.03
550.0	3.54	1.08
600.0	3.74	1.14
750.0	4.23	1.29
865.0	4.63	1.41
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1500.0	6.39	1.95
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1800.0	7.14	2.18
2000.0	7.62	2.32
2200.0	8.09	2.46
2500.0	8.76	2.67
2700.0	9.19	2.8
3000.0	9.83	3

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	396.893 kg | 875 lb

Environmental Specifications

Corrosion Protection	Migraheal®
Environmental Space	Buried

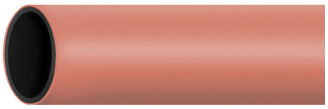
Packaging and Weights

Packaging Type	Reel
Weight, gross	505.976 kg/km | 340 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/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	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/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

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

* Footnotes

Environmental Stress Crack Resistance ESCR—Environmental Stress Crack Resistence