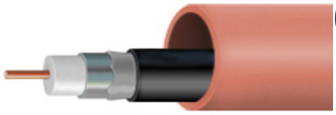
CX3750009 | 200T040P3625JCASS COEX



ConQuest® Cable in Conduit, 2 in, SCH 40, terracotta (P3® 625 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	625 Series
Government Requirements	Build America Buy America (BABA) compliant*

General Specifications

Cable Type	625 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	731.52 m | 2400 ft
Wall Thickness Designation	SCH 40
Nominal Size	2 in

Packaging and Weights

Weight, net	918.197 kg/km | 617 lb/kft

Included Products

530101403 P3® 625 JCASS SM MT	–	75 Ohm P3® Trunk and Distribution Cable, black PE jacket, flooded for underground

5308103 P3® 625 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

530101403 | P3® 625 JCASS SM MT

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	625 Series
Construction Type	Swaged
Jacket Color	Black

Dimensions

Cable Length	731.52 m | 2400 ft
Diameter Over Center Conductor, nominal	3.48 mm | 0.137 in
Diameter Over Dielectric, nominal	14.351 mm | 0.565 in
Diameter Over Inner Jacket, nominal	17.653 mm | 0.695 in
Diameter Over Jacket, nominal	21.59 mm | 0.85 in
Diameter Over Outer Conductor, nominal	15.875 mm | 0.625 in
Armor Thickness, nominal	0.203 mm | 0.008 in
Inner Jacket Thickness, nominal	0.762 mm | 0.03 in
Jacket Thickness, nominal	0.762 mm | 0.03 in
Outer Conductor Thickness, nominal	0.762 mm | 0.03 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	2.756 ohms/km | 0.84 ohms/kft
dc Resistance, Loop, nominal	3.609 ohms/km | 1.1 ohms/kft
dc Resistance, Outer Conductor, nominal	0.853 ohms/km | 0.26 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	0.43	0.13
55.0	1.48	0.45
85.0	1.84	0.56
204.0	2.92	0.89
211.0	3.02	0.92
250.0	3.28	1
300.0	3.54	1.08
350.0	3.87	1.18
400.0	4.17	1.27
450.0	4.43	1.35
500.0	4.69	1.43
550.0	4.92	1.5
600.0	5.18	1.58
750.0	5.84	1.78
865.0	6.33	1.93
1002.0	6.92	2.11
1218.0	7.62	2.32
1500.0	8.74	2.66
1794.0	9.7	2.96
1800.0	9.72	2.96
2000.0	10.34	3.15
2200.0	10.95	3.34

2500.0	11.81	3.6
2700.0	12.37	3.77
3000.0	13.19	4.02

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	114.3 mm | 4.5 in
Pulling Tension, maximum	215.456 kg | 475 lb

Environmental Specifications

Corrosion Protection	Migraheal®
Environmental Space	Buried

Packaging and Weights

Packaging Type	Reel
Weight, gross	278.287 kg/km | 187 lb/kft

Regulatory Compliance/Certifications

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

5308103 | P3® 625 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	625 Series
Construction Type	Swaged
Jacket Color	Black
Location of Manufacturing	Catawba, North Carolina
Short Description	P3 625 JCASS SM PR997

Dimensions

Cable Length	731.52 m | 2400 ft
Diameter Over Center Conductor, nominal	3.48 mm | 0.137 in
Diameter Over Dielectric, nominal	14.351 mm | 0.565 in
Diameter Over Inner Jacket, nominal	17.653 mm | 0.695 in
Diameter Over Jacket, nominal	21.59 mm | 0.85 in
Diameter Over Outer Conductor, nominal	15.875 mm | 0.625 in
Armor Thickness, nominal	0.203 mm | 0.008 in
Inner Jacket Thickness, nominal	0.762 mm | 0.03 in
Jacket Thickness, nominal	0.762 mm | 0.03 in
Outer Conductor Thickness, nominal	0.762 mm | 0.03 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)
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dc Resistance, Loop, nominal	3.609 ohms/km | 1.1 ohms/kft
dc Resistance, Outer Conductor, nominal	0.853 ohms/km | 0.26 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

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2500.0	11.81	3.6
2700.0	12.37	3.77
3000.0	13.19	4.02

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	114.3 mm | 4.5 in
Pulling Tension, maximum	215.456 kg | 475 lb

Environmental Specifications

Corrosion Protection	Migraheal®
Environmental Space	Buried

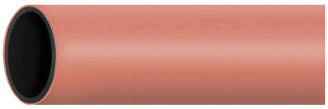
Packaging and Weights

Packaging Type	Reel
Weight, gross	278.287 kg/km | 187 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