

## ConQuest® Cable in Conduit, 1 1/4 in, SDR 13.5, black (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

<b>Regional Availability</b>	North America
<b>Product Type</b>	Coaxial cable-in-conduit
<b>Product Brand</b>	ConQuest®
<b>Product Series</b>	625 Series
<b>Government Funding</b>	Build America Buy America (BABA) compliant*

### General Specifications

<b>Cable Type</b>	625 Series
<b>Cable-In-Conduit Type</b>	P3® in duct
<b>Color</b>	Black
<b>Conduit Type</b>	Non-toneable
<b>Wall Type</b>	Smooth

### Dimensions

<b>Length</b>	731.52 m   2400 ft
<b>Wall Thickness Designation</b>	SDR 13.5
<b>Nominal Size</b>	1-1/4 in

### Packaging and Weights

<b>Weight, net</b>	608.659 kg/km   409 lb/kft
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### Included Products

5308103 P3® 625 JCASS	-	75 Ohm P3® Trunk and Distribution Cable, black PE jacket, flooded for underground
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# CX3350002 | 125B135P3625JCASS COEX

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CX3399999  
125T135 EMPTY DUCT COEX

ConQuest® Empty Conduit, 1 1/4 in, SDR 13.5, terracotta

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



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## Product Classification

<b>Regional Availability</b>	North America
<b>Product Type</b>	Coaxial hardline cable
<b>Product Brand</b>	P3®
<b>Government Funding</b>	Build America Buy America (BABA) compliant*
<b>Warranty</b>	One year

## General Specifications

<b>Cable Type</b>	625 Series
<b>Construction Type</b>	Swaged
<b>Jacket Color</b>	Black
<b>Short Description</b>	P3 625 JCASS SM PR997

## Dimensions

<b>Cable Length</b>	731.52 m   2400 ft
<b>Diameter Over Center Conductor, nominal</b>	3.48 mm   0.137 in
<b>Diameter Over Dielectric, nominal</b>	14.351 mm   0.565 in
<b>Diameter Over Inner Jacket, nominal</b>	17.653 mm   0.695 in
<b>Diameter Over Jacket, nominal</b>	21.59 mm   0.85 in
<b>Diameter Over Outer Conductor, nominal</b>	15.875 mm   0.625 in
<b>Armor Thickness, nominal</b>	0.203 mm   0.008 in
<b>Inner Jacket Thickness, nominal</b>	0.762 mm   0.03 in
<b>Jacket Thickness, nominal</b>	0.762 mm   0.03 in
<b>Outer Conductor Thickness, nominal</b>	0.762 mm   0.03 in

## Electrical Specifications

<b>Capacitance</b>	50.197 pF/m   15.3 pF/ft
<b>Capacitance Tolerance</b>	±1.0 pF/ft
<b>Characteristic Impedance</b>	75 ohm
<b>Characteristic Impedance Tolerance</b>	±2 ohm
<b>dc Resistance Note</b>	Nominal values based on a standard condition of 20 °C (68 °F)
<b>dc Resistance, Inner Conductor, nominal</b>	2.756 ohms/km   0.84 ohms/kft
<b>dc Resistance, Loop, nominal</b>	3.609 ohms/km   1.1 ohms/kft
<b>dc Resistance, Outer Conductor, nominal</b>	0.853 ohms/km   0.26 ohms/kft
<b>Jacket Spark Test Voltage</b>	5000 Vac
<b>Nominal Velocity of Propagation (NVP)</b>	87 %
<b>Operating Frequency Band</b>	5–3000 MHz
<b>Structural Return Loss</b>	24 dB @ 1003–1218 MHz   24 dB @ 1219–1794 MHz   30 dB @ 5–1002 MHz
<b>Structural Return Loss, Grade N</b>	≥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

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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

<b>Center Conductor Material</b>	Copper-clad aluminum
<b>Dielectric Material</b>	Foam PE
<b>Jacket Material</b>	PE
<b>Outer Conductor Material</b>	Aluminum

## Mechanical Specifications

<b>Minimum Bend Radius, bonded</b>	114.3 mm   4.5 in
<b>Pulling Tension, maximum</b>	215.456 kg   475 lb

## Environmental Specifications

<b>Corrosion Protection</b>	Migraheal®
<b>Environmental Space</b>	Buried

## Packaging and Weights

<b>Packaging Type</b>	Reel
<b>Weight, gross</b>	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



# CX3399999 | 125T135 EMPTY DUCT COEX



ConQuest® Empty Conduit, 1 1/4 in, SDR 13.5, terracotta

## Product Classification

<b>Product Type</b>	Empty conduit
<b>Product Brand</b>	ConQuest®

## General Specifications

<b>Color</b>	Terracotta
<b>Conduit Type</b>	Non-toneable
<b>Density Test Method</b>	ASTM D792A
<b>Density, maximum</b>	0.955 g/cm <sup>3</sup>   0.035 lb/in <sup>3</sup>
<b>Density, minimum</b>	0.941 g/cm <sup>3</sup>   0.034 lb/in <sup>3</sup>
<b>Design Standard</b>	ASTM D3350-05
<b>Wall Type</b>	Smooth

## Dimensions

<b>Length</b>	914.4 m   3000 ft
<b>Inner Diameter, nominal</b>	35.408 mm   1.394 in
<b>Outer Diameter, nominal</b>	42.164 mm   1.66 in
<b>Wall Thickness Designation</b>	SDR 13.5
<b>Wall Thickness, minimum</b>	3.124 mm   0.123 in
<b>Nominal Size</b>	1-1/4 in

## Material Specifications

<b>Flexural Modulus, minimum</b>	551.581 N/mm <sup>2</sup>   80000 psi
<b>Flexural Property Test Method</b>	ASTM D790
<b>Hydrostatic Design Basis</b>	Not pressure rated
<b>Hydrostatic Design Test Method</b>	ASTM D2837
<b>Material Type</b>	High density polyethylene (HDPE)
<b>Melt Flow Rate Test Method</b>	ASTM D1238

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**Melt Flow Rate, maximum** 0.39 g/10 min

## Mechanical Specifications

**Minimum Bend Radius, unsupported** 457.2 mm | 18 in

**Tensile Property Test Method** ASTM D638

**Tensile Strength at yield, minimum** 20.684 N/mm<sup>2</sup> | 3000 psi

**Pulling Tension, maximum** 571.526 kg | 1260 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** 394.363 kg/km | 265 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