

# CX3350013 | 125T135P3700JCASS COEX

ConQuest® Cable in Conduit, 1 1/4 in, SDR 13.5, terracotta (P3® 700 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>	700 Series
<b>Government Funding</b>	Build America Buy America (BABA) compliant*

## General Specifications

<b>Cable Type</b>	700 Series
<b>Cable-In-Conduit Type</b>	P3® in duct
<b>Color</b>	Terracotta
<b>Conduit Type</b>	Non-toneable
<b>Wall Type</b>	Smooth

## Dimensions

<b>Length</b>	762 m   2500 ft
<b>Wall Thickness Designation</b>	SDR 13.5
<b>Nominal Size</b>	1-1/4 in

## Packaging and Weights

<b>Weight, net</b>	638.422 kg/km   429 lb/kft
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## Included Products

5333603 P3® 700 JCASS	–	75 Ohm P3® Trunk and Distribution Cable, black PE jacket, flooded for underground
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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>	700 Series
<b>Construction Type</b>	Swaged
<b>Jacket Color</b>	Black
<b>Short Description</b>	P3 700 JCASS SM PR997

## Dimensions

<b>Cable Length</b>	762 m   2500 ft
<b>Diameter Over Center Conductor, nominal</b>	4.14 mm   0.163 in
<b>Diameter Over Dielectric, nominal</b>	16.586 mm   0.653 in
<b>Diameter Over Jacket, nominal</b>	19.685 mm   0.775 in
<b>Diameter Over Outer Conductor, nominal</b>	17.856 mm   0.703 in
<b>Jacket Thickness, nominal</b>	0.787 mm   0.031 in
<b>Outer Conductor Thickness, nominal</b>	0.635 mm   0.025 in

## Electrical Specifications

<b>Capacitance</b>	50.197 pF/m   15.3 pF/ft
<b>Capacitance Tolerance</b>	±1.0 pF/ft

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<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>	1.936 ohms/km   0.59 ohms/kft
<b>dc Resistance, Loop, nominal</b>	2.756 ohms/km   0.84 ohms/kft
<b>dc Resistance, Outer Conductor, nominal</b>	0.82 ohms/km   0.25 ohms/kft
<b>Jacket Spark Test Voltage</b>	5000 Vac
<b>Nominal Velocity of Propagation (NVP)</b>	89 %
<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	0.36	0.11
55.0	1.18	0.36
85.0	1.51	0.46
204.0	2.4	0.73
211.0	2.4	0.73
250.0	2.66	0.81
300.0	2.95	0.9
350.0	3.22	0.98
400.0	3.45	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	5.32	1.62
1002.0	5.77	1.76
1218.0	6.43	1.96
1500.0	7.21	2.2
1794.0	7.98	2.43

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<b>1800.0</b>	8	2.44
<b>2000.0</b>	8.5	2.59
<b>2200.0</b>	8.98	2.74
<b>2500.0</b>	9.67	2.95
<b>2700.0</b>	10.11	3.08
<b>3000.0</b>	10.76	3.28

## 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>	165.1 mm   6.5 in
<b>Pulling Tension, maximum</b>	226.796 kg   500 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>	306.562 kg/km   206 lb/kft

## Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
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