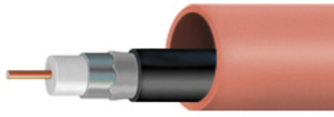


CX3350013 | 125T135P3700JCASS COEX



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

Regional Availability	North America
Product Type	Coaxial cable-in-conduit
Product Brand	ConQuest®
Product Series	700 Series
Government Requirements	Build America Buy America (BABA) compliant*

General Specifications

Cable Type	700 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	SDR 13.5
Nominal Size	1-1/4 in

Packaging and Weights

Weight, net	638.422 kg/km 429 lb/kft
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Included Products

CX3350013 | 125T135P3700JCASS COEX

- 5333603 P3® 700 JCASS – 75 Ohm P3® Trunk and Distribution Cable, black PE jacket, flooded for underground
- 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

- *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	700 Series
Construction Type	Swaged
Jacket Color	Black
Location of Manufacturing	Catawba, North Carolina
Short Description	P3 700 JCASS SM PR997

Dimensions

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

Electrical Specifications

Capacitance	50.197 pF/m 15.3 pF/ft
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5333603 | P3® 700 JCASS

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	1.936 ohms/km 0.59 ohms/kft
dc Resistance, Loop, nominal	2.756 ohms/km 0.84 ohms/kft
dc Resistance, Outer Conductor, nominal	0.82 ohms/km 0.25 ohms/kft
Jacket Spark Test Voltage	5000 Vac
Nominal Velocity of Propagation (NVP)	89 %
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	0.36	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

5333603 | P3® 700 JCASS

1794.0	7.98	2.43
1800.0	8	2.44
2000.0	8.5	2.59
2200.0	8.98	2.74
2500.0	9.67	2.95
2700.0	10.11	3.08
3000.0	10.76	3.28

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	165.1 mm 6.5 in
Pulling Tension, maximum	226.796 kg 500 lb

Environmental Specifications

Corrosion Protection	Migraheal®
Environmental Space	Buried

Packaging and Weights

Packaging Type	Reel
Weight, gross	306.562 kg/km 206 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

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

CX3399999 | 125T135 EMPTY DUCT COEX

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/mm² | 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	Classification
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system

* Footnotes

Environmental Stress Crack Resistance ESCR—Environmental Stress Crack Resistance