CX3350061 | 1250110P3625JCASS COEX



ConQuest® Cable in Conduit, 1 1/4 in, SDR 11, orange (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	Orange
Conduit Type	Non-toneable
Location of Manufacturing	Catawba, North Carolina
Wall Type	Smooth

Dimensions

Length	731.52 m	2400 ft
Wall Thickness Designation	SDR 11	
Nominal Size	1-1/4 in	

Packaging and Weights

Weight, net

690.508 kg/km | 464 lb/kft

Included Products

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

Page 1 of 10



CX3350061 | 1250110P3625JCASS COEX

5308103 P3® 625 JCASS 75 Ohm P3® Trunk and Distribution Cable, black PE jacket, flooded for underground

ConQuest® Empty Conduit, 1 1/4 in, SDR 11, orange

CX3399760 - 1250110 EMPTY DUCT COEX

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Page 2 of 10



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 3.48 mm | 0.137 in **Diameter Over Center Conductor, nominal Diameter Over Dielectric, nominal** 14.351 mm | 0.565 in 17.653 mm | 0.695 in **Diameter Over Inner Jacket, nominal Diameter Over Jacket, nominal** 21.59 mm | 0.85 in 15.875 mm | 0.625 in **Diameter Over Outer Conductor, nominal** 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)

Page 3 of 10



530101403 | P3® 625 JCASS SM MT

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

Page 4 of 10



530101403 | P3® 625 JCASS SM MT

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
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Corrosion Protection	Migraheal®
Environmental Space	Buried
Packaging and Weights	

Packaging TypeReelWeight, gross278.287 kg/km | 187 lb/kft

Regulatory Compliance/Certifications

Classification

Agency ISO 9001:2015

Designed, manufactured and/or distributed under this quality management system

Page 5 of 10



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

Page 6 of 10



5308103 | P3® 625 JCASS

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

Page 7 of 10



5308103 | P3® 625 JCASS

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

Page 8 of 10



1250110 EMPTY DUCT COEX CX3399760 |



ConQuest® Empty Conduit, 1 1/4 in, SDR 11, orange

Product Classification	
Product Type	Empty conduit
Product Brand	ConQuest®
General Specifications	
Color	Orange
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	914.4 m 3000 ft
Inner Diameter, nominal	33.985 mm 1.338 in
Outer Diameter, nominal	42.164 mm 1.66 in
Wall Thickness Designation	SDR 11
Wall Thickness, minimum	3.835 mm 0.151 in
Nominal Size	1-1/4 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

Page 9 of 10

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CX3399760 | 1250110 EMPTY DUCT COEX

Melt Flow Rate, maximum	n	0.39 g/10 min
Mechanical Spec	cifications	
Minimum Bend Radius, u	nsupported	457.2 mm 18 in
Tensile Property Test Me	ethod	ASTM D638
Tensile Strength at yield,	minimum	20.684 N/mm² 3000 psi
Pulling Tension, maximu	m	689.46 kg 1520 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		476.212 kg/km 320 lb/kft
Regulatory Compliance/Certifications		
Agency	Classification	
ISO 9001:2015	Designed, manufactur	ed and/or distributed under this quality management system
* Footnotes		

Environmental Stress Crack Resistance ESCR-Environmental Stress Crack Resistence

Page 10 of 10

