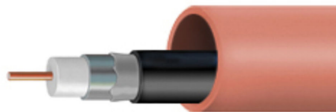


CX3750004 | 200T040P3500JCASS COEX

ConQuest® Cable in Conduit, 2 in, SCH 40, terracotta (P3® 500 JCASS)



Product Classification

Product Type	Coaxial cable-in-conduit
Product Brand	ConQuest®
Product Series	500 Series

General Specifications

Cable Type	500 series
Cable-In-Conduit Type	P3® in duct
Color	Terracotta
Conduit Type	Non-toneable
Wall Type	Smooth

Dimensions

Length	731.52 m 2400 ft
Wall Thickness Designation	SCH 40
Nominal Size	2 in

Packaging and Weights

Weight, net	848.253 kg/km 570 lb/kft
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Included Products

- 5302203
P3® 500 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

5302203 | P3® 500 JCASS

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	500 series
Construction Type	Swaged
Jacket Color	Black
Short Description	P3 500 JCASS SM PR997

Dimensions

Cable Length	731.52 m 2400 ft
Diameter Over Center Conductor, nominal	2.769 mm 0.109 in
Diameter Over Dielectric, nominal	11.481 mm 0.452 in
Diameter Over Jacket, nominal	14.478 mm 0.57 in
Diameter Over Outer Conductor, nominal	12.7 mm 0.5 in
Jacket Thickness, nominal	0.762 mm 0.03 in
Outer Conductor Thickness, nominal	0.61 mm 0.024 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)

5302203 | P3® 500 JCASS

dc Resistance, Inner Conductor, nominal	4.429 ohms/km 1.35 ohms/kft
dc Resistance, Loop, nominal	5.643 ohms/km 1.72 ohms/kft
dc Resistance, Outer Conductor, nominal	1.214 ohms/km 0.37 ohms/kft
Jacket Spark Test Voltage	5000 Vac
Nominal Velocity of Propagation (NVP)	87 %
Operating Frequency Band	5–3000 MHz
Structural Return Loss	26 dB @ 1002–1218 MHz 30 dB @ 5–1002 MHz

Attenuation

Frequency (MHz)	Attenuation (dB/100 m)	Attenuation (dB/100 ft)
5.0	0.52	0.16
55.0	1.77	0.54
83.0	2.17	0.66
85.0	2.23	0.68
204.0	3.51	1.07
211.0	3.58	1.09
250.0	3.94	1.2
300.0	4.3	1.31
350.0	4.69	1.43
400.0	5.02	1.53
450.0	5.35	1.63
500.0	5.67	1.73
550.0	5.97	1.82
600.0	6.27	1.91
750.0	7.09	2.16
865.0	7.68	2.34
1000.0	8.27	2.52
1002.0	8.33	2.54
1300.0	2.95	2.81
1400.0	3.09	2.94
1500.0	10.55	3.22
1600.0	10.97	3.34
1700.0	11.38	3.47
1794.0	11.76	3.58
1800.0	11.78	3.59

5302203 | P3® 500 JCASS

2000.0	12.56	3.83
2200.0	13.32	4.06
2400.0	14.05	4.28
2600.0	14.77	4.5
2800.0	15.47	4.71
3000.0	16.15	4.92

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	88.9 mm 3.5 in
Pulling Tension, maximum	136.078 kg 300 lb

Environmental Specifications

Corrosion Protection	Migraheal®
Environmental Space	Buried

Packaging and Weights

Packaging Type	Reel
Weight, gross	183.044 kg/km 123 lb/kft

Regulatory Compliance/Certifications

Agency	Classification
CHINA-ROHS	Below maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
REACH-SVHC	Compliant as per SVHC revision on www.commscope.com/ProductCompliance
ROHS	Compliant



CX37999999 | 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/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	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/mm ² 80000 psi
Flexural Property Test Method	ASTM D790
Hydrostatic Design Basis	Not pressure rated
Hydrostatic Design Test Method	ASTM D2837

CX37999999 | 200T040 EMPTY DUCT COEX

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/mm ² 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
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Regulatory Compliance/Certifications

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



* Footnotes

Environmental Stress Crack Resistance	ESCR—e Environmental Stress Crack Resistance
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