302006100 | 050G110F677TSEF XP



ConQuest® Cable in Conduit, 1/2 in, SDR 11, gray (F677TSEF XP)

• *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	6 Series
Government Requirements	Build America Buy America (BABA) compliant*

General Specifications

Cable Type	Series 6
Cable-In-Conduit Type	Drop in duct
Color	Gray
Conduit Type	Non-toneable
Location of Manufacturing	Catawba, North Carolina
Wall Type	Smooth

Dimensions

Length	304.8 m 1000
Wall Thickness Designation	SDR 11
Nominal Size	1/2 in

Packaging and Weights

Weight,	net
---------	-----

165.93 kg/km | 111.5 lb/kft

ft

Included Products

3099999 050T110 EMPTY DUCT ConQuest® Empty Conduit, 1/2 in, SDR 11, terracotta

Page 1 of 8

©2025 CommScope, Inc. All rights reserved. CommScope and the CommScope logo are registered trademarks of CommScope and/or its affiliates in the U.S. and other countries. For additional trademark information see https://www.commscope.com/trademarks. All product names, trademarks and registered trademarks are property of their respective owners. Revised: February 13, 2025



302006100 | 050G110F677TSEF XP

_

4842903 F677TSEF XP (830BMU) XPRESSPREP® Coaxial Drop Cable, 75 Ohm, Series 6, black PE jacket, flooded for underground

Page 2 of 8

©2025 CommScope, Inc. All rights reserved. CommScope and the CommScope logo are registered trademarks of CommScope and/or its affiliates in the U.S. and other countries. For additional trademark information see https://www.commscope.com/trademarks. All product names, trademarks and registered trademarks are property of their respective owners. Revised: February 13, 2025



3099999 | 050T110 EMPTY DUCT



ConQuest® Empty Conduit, 1/2 in, SDR 11, 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/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	304.8 m 1000 ft
Length Inner Diameter, nominal	304.8 m 1000 ft 16.967 mm 0.668 in
•	·
Inner Diameter, nominal	16.967 mm 0.668 in
Inner Diameter, nominal Outer Diameter, nominal	16.967 mm 0.668 in 21.336 mm 0.84 in
Inner Diameter, nominal Outer Diameter, nominal Wall Thickness Designation	16.967 mm 0.668 in 21.336 mm 0.84 in SDR 11
Inner Diameter, nominal Outer Diameter, nominal Wall Thickness Designation Wall Thickness, minimum	16.967 mm 0.668 in 21.336 mm 0.84 in SDR 11 1.93 mm 0.076 in
Inner Diameter, nominal Outer Diameter, nominal Wall Thickness Designation Wall Thickness, minimum Nominal Size	16.967 mm 0.668 in 21.336 mm 0.84 in SDR 11 1.93 mm 0.076 in
Inner Diameter, nominal Outer Diameter, nominal Wall Thickness Designation Wall Thickness, minimum Nominal Size Material Specifications	16.967 mm 0.668 in 21.336 mm 0.84 in SDR 11 1.93 mm 0.076 in 1/2 in
Inner Diameter, nominal Outer Diameter, nominal Wall Thickness Designation Wall Thickness, minimum Nominal Size Material Specifications Flexural Modulus, minimum	16.967 mm 0.668 in 21.336 mm 0.84 in SDR 11 1.93 mm 0.076 in 1/2 in 551.581 N/mm² 80000 psi
Inner Diameter, nominal Outer Diameter, nominal Wall Thickness Designation Wall Thickness, minimum Nominal Size Material Specifications Flexural Modulus, minimum Flexural Property Test Method	16.967 mm 0.668 in 21.336 mm 0.84 in SDR 11 1.93 mm 0.076 in 1/2 in 551.581 N/mm² 80000 psi ASTM D790
Inner Diameter, nominal Outer Diameter, nominal Wall Thickness Designation Wall Thickness, minimum Nominal Size Material Specifications Flexural Modulus, minimum Flexural Property Test Method Hydrostatic Design Basis	16.967 mm 0.668 in 21.336 mm 0.84 in SDR 11 1.93 mm 0.076 in 1/2 in 551.581 N/mm ² 80000 psi ASTM D790 Not pressure rated

Page 3 of 8

©2025 CommScope, Inc. All rights reserved. CommScope and the CommScope logo are registered trademarks of CommScope and/or its affiliates in the U.S. and other countries. For additional trademark information see https://www.commscope.com/trademarks. All product names, trademarks and registered trademarks are property of their respective owners. Revised: October 2, 2024



3099999 | 050T110 EMPTY DUCT

Melt Flow Rate, maximum	0.39 g/10 min	
Mechanical Specifications		
Minimum Bend Radius, unsupported	254 mm 10 in	
Tensile Property Test Method	ASTM D638	
Tensile Strength at yield, minimum	20.684 N/mm² 3000 psi	
Pulling Tension, maximum	176.901 kg 390 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	126.494 kg/km 85 lb/kft	
Regulatory Compliance/Certifications		
Agency Classification		
ISO 9001:2015 Designed, manufacture	d and/or distributed under this quality management system	
* Footootes		

* Footnotes

Environmental Stress Crack Resistance ESCR-Environmental Stress Crack Resistence

Page 4 of 8

©2025 CommScope, Inc. All rights reserved. CommScope and the CommScope logo are registered trademarks of CommScope and/or its affiliates in the U.S. and other countries. For additional trademark information see https://www.commscope.com/trademarks. All product names, trademarks and registered trademarks are property of their respective owners. Revised: October 2, 2024

COMMSCOPE°

XPRESSPREP® Coaxial Drop Cable, 75 Ohm, Series 6, black PE jacket, flooded for underground



Product Classification

Product Type	Coaxial drop cable	
Product Brand	XPRESSPREP®	
Product Series	6 Series	
Warranty	One year	
General Specifications		
Cable Type	Series 6	
Center Conductor Type	Solid	
Jacket Color	Black	
Jacket Marking	Feet	
Performance Note	Attenuation listed represents maximum values at standard condition of 20 $^\circ\mathrm{C}$ (68 $^\circ\mathrm{F})$	
Shield Construction Type	Trishield	
Dimensions		
Diameter Over Center Conductor, nominal	1.016 mm 0.04 in	
Diameter Over Dielectric, nominal	4.572 mm 0.18 in	
Diameter Over Inner Shield (Tape), nominal	4.75 mm 0.187 in	
Diameter Over Jacket, nominal	7.061 mm 0.278 in	
Jacket Thickness, nominal	0.762 mm 0.03 in	
Center Conductor Gauge	18 AWG	
Inner Shield (Braid) Gauge	34 AWG	
Electrical Specifications		
Capacitance	53.15 pF/m 16.2 pF/ft	

Page 5 of 8

©2025 CommScope, Inc. All rights reserved. CommScope and the CommScope logo are registered trademarks of CommScope and/or its affiliates in the U.S. and other countries. For additional trademark information see https://www.commscope.com/trademarks. All product names, trademarks and registered trademarks are property of their respective owners. Revised: May 18, 2024



Characteristic Impedance	75 ohm	
Characteristic Impedance Tolerance	±3 ohm	
dc Resistance Note	Nominal values based on a standard condition of 20 °C (68 °F)	
dc Resistance, Inner Conductor, nominal	100.066 ohms/km 30.5 ohms/kft	
dc Resistance, Loop, nominal	121.063 ohms/km 36.9 ohms/kft	
dc Resistance, Outer Conductor, nominal	20.997 ohms/km 6.4 ohms/kft	
Nominal Velocity of Propagation (NVP)	85 %	
Operating Frequency Band	5–3000 MHz	
Structural Return Loss, Grade A	≥15 dB @ 1801-3000 MHz ≥20 dB @ 5-1800 MHz	
Structural Return Loss, Grade C	≥15 dB @ 1801−3000 MHz ≥20 dB @ 1002−1800 MHz ≥23 dB @ 5− 1002 MHz	
Structural Return Loss, Grade G	≥15 dB @ 1801−3000 MHz ≥20 dB @ 1002−1800 MHz ≥26 dB @ 5− 1002 MHz	

Attenuation

Frequency (MHz)	Attenuation (dB/100 m)	Attenuation (dB/100 ft)
5.0	1.9	0.58
55.0	5.25	1.6
83.0	6.4	1.95
85.0	6.46	1.97
187.0	9.35	2.85
204.0	9.84	3
211.0	10	3.05
250.0	10.82	3.3
300.0	11.64	3.55
350.0	12.63	3.85
400.0	13.61	4.15
450.0	14.43	4.4
500.0	15.29	4.66
550.0	16.08	4.9
600.0	16.73	5.1
750.0	18.54	5.65
865.0	20.01	6.1
1000.0	21.49	6.55
1218.0	23.66	7.21

Page 6 of 8

©2025 CommScope, Inc. All rights reserved. CommScope and the CommScope logo are registered trademarks of CommScope and/or its affiliates in the U.S. and other countries. For additional trademark information see https://www.commscope.com/trademarks. All product names, trademarks and registered trademarks are property of their respective owners. Revised: May 18, 2024



24.71	7.53
25.71	7.84
26.68	8.13
27.63	8.42
28.54	8.7
29.39	8.96
29.44	8.97
31.17	9.5
32.83	10.01
35.2	10.73
37.46	11.42
38.91	11.86
	25.71 26.68 27.63 28.54 29.39 29.44 31.17 32.83 35.2 37.46

Material Specifications

Center Conductor Material	Copper-clad steel
Dielectric Material	Foam PE
Jacket Material	PE
Inner Shield (Braid) Coverage	77 %
Inner Shield (Braid) Material	Aluminum
Inner Shield (Tape) Material	Aluminum/Polymer/Aluminum (APA) bonded
Outer Shield (Tape) Material	Aluminum/Polymer/Aluminum (APA) bonded

Environmental Specifications

Corrosion Protection	Migraheal®
Environmental Space	Buried (Network Powered)
Flame Test Listing	BMU NEC Article 830

Packaging and Weights

Packaging Type

Weight, gross

Reel 49.109 kg/km | 33 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

Page 7 of 8

©2025 CommScope, Inc. All rights reserved. CommScope and the CommScope logo are registered trademarks of CommScope and/or its affiliates in the U.S. and other countries. For additional trademark information see https://www.commscope.com/trademarks. All product names, trademarks and registered trademarks are property of their respective owners. Revised: May 18, 2024

COMMSCOPE°

REACH-SVHC

ROHS

UK-ROHS

Compliant as per SVHC revision on www.commscope.com/ProductCompliance

Compliant

Compliant



Page 8 of 8

©2025 CommScope, Inc. All rights reserved. CommScope and the CommScope logo are registered trademarks of CommScope and/or its affiliates in the U.S. and other countries. For additional trademark information see https://www.commscope.com/trademarks. All product names, trademarks and registered trademarks are property of their respective owners. Revised: May 18, 2024

