

# 3520061 | 13MG110F677TSEF XP

## ConQuest® Cable in Conduit, 13 mm, SDR 11, terracotta (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

<b>Regional Availability</b>	North America
<b>Product Type</b>	Coaxial cable-in-conduit
<b>Product Brand</b>	ConQuest®
<b>Product Series</b>	6 Series
<b>Government Funding</b>	Build America Buy America (BABA) compliant*

## General Specifications

<b>Color</b>	Terracotta
<b>Conduit Type</b>	Non-toneable
<b>Wall Type</b>	Smooth

## Dimensions

<b>Length</b>	304.8 m   1000 ft
<b>Wall Thickness Designation</b>	SDR 11
<b>Nominal Size</b>	13 mm

## Packaging and Weights

<b>Weight, net</b>	107.148 kg/km   72 lb/kft
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## Included Products

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

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



## Product Classification

<b>Product Type</b>	Coaxial drop cable
<b>Product Brand</b>	XPRESSPREP®
<b>Product Series</b>	6 Series
<b>Warranty</b>	One year

## General Specifications

<b>Cable Type</b>	Series 6
<b>Center Conductor Type</b>	Solid
<b>Jacket Color</b>	Black
<b>Jacket Marking</b>	Feet
<b>Performance Note</b>	Attenuation listed represents maximum values at standard condition of 20 °C (68 °F)
<b>Shield Construction Type</b>	Trishield

## Dimensions

<b>Diameter Over Center Conductor, nominal</b>	1.016 mm   0.04 in
<b>Diameter Over Dielectric, nominal</b>	4.572 mm   0.18 in
<b>Diameter Over Inner Shield (Tape), nominal</b>	4.75 mm   0.187 in
<b>Diameter Over Jacket, nominal</b>	7.061 mm   0.278 in
<b>Jacket Thickness, nominal</b>	0.762 mm   0.03 in
<b>Center Conductor Gauge</b>	18 AWG
<b>Inner Shield (Braid) Gauge</b>	34 AWG

## Electrical Specifications

<b>Capacitance</b>	53.15 pF/m   16.2 pF/ft
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<b>Characteristic Impedance</b>	75 ohm
<b>Characteristic Impedance Tolerance</b>	±3 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>	100.066 ohms/km   30.5 ohms/kft
<b>dc Resistance, Loop, nominal</b>	121.063 ohms/km   36.9 ohms/kft
<b>dc Resistance, Outer Conductor, nominal</b>	20.997 ohms/km   6.4 ohms/kft
<b>Nominal Velocity of Propagation (NVP)</b>	85 %
<b>Operating Frequency Band</b>	5–3000 MHz
<b>Structural Return Loss, Grade A</b>	≥15 dB @ 1801–3000 MHz   ≥20 dB @ 5–1800 MHz
<b>Structural Return Loss, Grade C</b>	≥15 dB @ 1801–3000 MHz   ≥20 dB @ 1002–1800 MHz   ≥23 dB @ 5–1002 MHz
<b>Structural Return Loss, Grade G</b>	≥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

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1300.0	24.71	7.53
1400.0	25.71	7.84
1500.0	26.68	8.13
1600.0	27.63	8.42
1700.0	28.54	8.7
1794.0	29.39	8.96
1800.0	29.44	8.97
2000.0	31.17	9.5
2200.0	32.83	10.01
2500.0	35.2	10.73
2800.0	37.46	11.42
3000.0	38.91	11.86

## Material Specifications

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

## Environmental Specifications

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

## Packaging and Weights

<b>Packaging Type</b>	Reel
<b>Weight, gross</b>	49.109 kg/km   33 lb/kft

## Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
CHINA-ROHS	Below maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system

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REACH-SVHC

Compliant as per SVHC revision on [www.commscope.com/ProductCompliance](http://www.commscope.com/ProductCompliance)

ROHS

Compliant

UK-ROHS

Compliant

