



## ConQuest® Cable in Conduit, 3/4 in, SDR 13.5, black (F1177TSEF 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>	11 Series
<b>Government Funding</b>	Build America Buy America (BABA) compliant*

## General Specifications

<b>Cable Type</b>	Series 11
<b>Cable-In-Conduit Type</b>	Drop in duct
<b>Color</b>	Black
<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 13.5
<b>Nominal Size</b>	3/4 in

## Packaging and Weights

<b>Weight, net</b>	233.642 kg/km   157 lb/kft
--------------------	----------------------------

## Included Products

4846203 F1177TSEF XP	–	XPRESSPREP® Coaxial Drop Cable, 75 Ohm, Series 11, black PE jacket, flooded for underground
-------------------------	---	---

# 4846203 | F1177TSEF XP

XPRESSPREP® Coaxial Drop Cable, 75 Ohm, Series 11, black PE jacket, flooded for underground



## Product Classification

<b>Product Type</b>	Coaxial drop cable
<b>Product Brand</b>	XPRESSPREP®
<b>Product Series</b>	11 Series
<b>Warranty</b>	One year

## General Specifications

<b>Cable Type</b>	Series 11
<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>	1.626 mm   0.064 in
<b>Diameter Over Dielectric, nominal</b>	7.112 mm   0.28 in
<b>Diameter Over Inner Shield (Tape), nominal</b>	7.29 mm   0.287 in
<b>Diameter Over Jacket, nominal</b>	10.16 mm   0.4 in
<b>Jacket Thickness, nominal</b>	0.991 mm   0.039 in
<b>Center Conductor Gauge</b>	14 AWG
<b>Inner Shield (Braid) Gauge</b>	34 AWG

## Electrical Specifications

<b>Capacitance</b>	53.15 pF/m   16.2 pF/ft
--------------------	-------------------------

# 4846203 | F1177TSEF XP

<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>	41.011 ohms/km   12.5 ohms/kft
<b>dc Resistance, Loop, nominal</b>	55.118 ohms/km   16.8 ohms/kft
<b>dc Resistance, Outer Conductor, nominal</b>	14.108 ohms/km   4.3 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

## Attenuation

<b>Frequency (MHz)</b>	<b>Attenuation (dB/100 m)</b>	<b>Attenuation (dB/100 ft)</b>
5.0	1.25	0.38
55.0	3.15	0.96
83.0	3.87	1.18
85.0	3.9	1.19
187.0	5.74	1.75
204.0	6.14	1.87
211.0	6.23	1.9
250.0	6.72	2.05
300.0	7.38	2.25
350.0	7.94	2.42
400.0	8.53	2.6
450.0	9.02	2.75
500.0	9.51	2.9
550.0	9.97	3.04
600.0	10.43	3.18
750.0	11.97	3.65
865.0	13.05	3.98
1000.0	14.27	4.35
1218.0	16.14	4.92
1300.0	16.44	5.01
1400.0	17.13	5.22
1500.0	17.79	5.42
1600.0	18.44	5.62

# 4846203 | F1177TSEF XP

1700.0	19.08	5.81
1794.0	19.66	5.99
1800.0	19.7	6
2000.0	20.89	6.37
2200.0	22.05	6.72
2500.0	23.7	7.22
2800.0	25.28	7.71
3000.0	26.3	8.02

## 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

## Packaging and Weights

<b>Packaging Type</b>	Reel
<b>Weight, gross</b>	77.385 kg/km   52 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
REACH-SVHC	Compliant as per SVHC revision on <a href="http://www.commscope.com/ProductCompliance">www.commscope.com/ProductCompliance</a>
ROHS	Compliant
UK-ROHS	Compliant



