



## ConQuest® Cable in Conduit, 1/2 in, SDR 11, terracotta (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>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>               | 1/2 in            |

## Packaging and Weights

|                    |                            |
|--------------------|----------------------------|
| <b>Weight, net</b> | 194.949 kg/km   131 lb/kft |
|--------------------|----------------------------|

## Included Products

|                         |   |   |
|-------------------------|---|---|
| 4846203<br>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 |
|--------------------|-------------------------|

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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> | 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

| Frequency (MHz) | Attenuation (dB/100 m) | Attenuation (dB/100 ft) |
|-----------------|------------------------|-------------------------|
| 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                    |

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|               |       |      |
|---------------|-------|------|
| <b>1700.0</b> | 19.08 | 5.81 |
| <b>1794.0</b> | 19.66 | 5.99 |
| <b>1800.0</b> | 19.7  | 6    |
| <b>2000.0</b> | 20.89 | 6.37 |
| <b>2200.0</b> | 22.05 | 6.72 |
| <b>2500.0</b> | 23.7  | 7.22 |
| <b>2800.0</b> | 25.28 | 7.71 |
| <b>3000.0</b> | 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  |

