

F677TSVR XP PLUS w/ Category 6 Twisted Pair, Sidecar Cable, Riser, black jacket, 1000 ft (305 m) reel

## Product Classification

<b>Portfolio</b>	CommScope®
<b>Product Type</b>	Hybrid cable, coax and twisted pair
<b>Regional Availability</b>	Asia   Australia/New Zealand   EMEA   Latin America   North America

## Construction Materials

<b>Construction Type</b>	Non-armored
<b>Center Conductor Material</b>	Copper-clad steel wire
<b>Conductor Material</b>	Bare copper
<b>Dielectric Material</b>	Foam PE
<b>Inner Shield (Braid) Coverage</b>	77 %
<b>Inner Shield (Braid) Gauge</b>	34 AWG
<b>Inner Shield (Braid) Material</b>	Aluminum
<b>Inner Shield (Tape) Material</b>	Aluminum/Poly, bonded
<b>Outer Shield (Tape) Material</b>	Aluminum/Poly, non-bonded
<b>Jacket Material</b>	PVC

## Construction Materials, Twisted Pair

<b>Conductor Material</b>	PE
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## Dimensions

<b>Cable Length</b>	305 m   1000 ft
<b>Cable Weight</b>	60.00 lb/kft
<b>Diameter Over Center Conductor</b>	1.0236 mm per 1 strand 0.0403 in per 1 strand
<b>Diameter Over Center Conductor Tolerance</b>	±0.0004 in
<b>Diameter Over Conductor, singles</b>	0.6452 mm per 1 strand 0.0254 in per 1 strand
<b>Diameter Over Dielectric</b>	4.5720 mm   0.1800 in
<b>Diameter Over Dielectric Tolerance</b>	±0.004 in
<b>Overall Cable Width</b>	14.300 mm   0.563 in
<b>Diameter Over Outer Shield (Braid)</b>	5.385 mm   0.212 in

## Dimensions, Coaxial

<b>Diameter Over Jacket</b>	7.061 mm   0.278 in
<b>Diameter Over Jacket Tolerance</b>	±0.008 in
<b>Jacket Thickness</b>	0.762 mm   0.030 in

**Jacket Thickness, minimum spot** 0.457 mm | 0.018 in

## Dimensions, Twisted Pair

**Diameter Over Conductor** 0.023 in per 1 strand  
**Diameter Over Dielectric** 0.9957 mm | 0.0392 in  
**Diameter Over Dielectric Tolerance**  $\pm 0.003$  in  
**Diameter Over Jacket** 6.350 mm | 0.250 in  
**Jacket Thickness** 0.635 mm | 0.025 in  
**Jacket Thickness, minimum spot** 0.406 mm | 0.016 in

## Electrical Specifications

**ANSI/TIA Category** 6  
**Capacitance** 52.5 pF/m | 16.0 pF/ft  
**Characteristic Impedance** 75 ohm  
**Characteristic Impedance Tolerance**  $\pm 3$  ohm  
**Conductor dc Resistance** 6.50 ohms/kft  
**Dielectric Strength, conductor to shield** 2500 Vdc  
**Jacket Spark Test Voltage** 2500 Vac  
**Nominal Velocity of Propagation (NVP)** 82 %  
**Shield dc Resistance** 4.90 ohms/kft  
**Structural Return Loss** 15 dB @ 5–2200 MHz  
**Structural Return Loss Test Method** 100% Swept Tested

## Environmental Specifications

**Environmental Space** Non-plenum  
**Flame Test Method** CMR  
**Installation Temperature** -18 °C to +60 °C (0 °F to +140 °F)  
**Operating Temperature** -40 °C to +75 °C (-40 °F to +167 °F)  
**Safety Standard** cETL | ETL  
**UL Temperature Rating** 60 °C | 140 °F

## General Specifications

**Cable Type** Hybrid  
**Jacket Color** Black  
**Supported Application** Residential  
**Center Conductor Gauge** 18 AWG  
**Center Conductor Type** Solid  
**Packaging Type** Reel

## Mechanical Specifications

<b>Minimum Bend Radius, loaded</b>	20 times
<b>Minimum Bend Radius, unloaded</b>	10 times

## Electrical Performance

<b>Frequency</b>	<b>Attenuation (dB/100 m)</b>	<b>Attenuation (dB/100 ft)</b>
1 MHz	1.21	0.37
10 MHz	2.16	0.66
50 MHz	4.62	1.41
100 MHz	6.30	1.92
200 MHz	8.66	2.64
400 MHz	12.23	3.73
700 MHz	16.56	5.05
900 MHz	18.99	5.79
1000 MHz	20.04	6.11
1200 MHz	22.07	6.73
1450 MHz	24.57	7.49
1800 MHz	27.65	8.43
2200 MHz	30.67	9.35
2500 MHz	32.70	9.97
3000 MHz	35.82	10.92

## Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
RoHS 2011/65/EU	Compliant
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system

