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

Product Classification

Regional Availability
Asia | Australia/New Zealand | EMEA | Latin America | North America

Portfolio
CommScope®

Product Type
Hybrid cable, coax and twisted pair

General Specifications

ANSI/TIA Category
6

Cable Type
Hybrid

Center Conductor Type
Solid

Construction Type
Non-armored

Jacket Color
Black

Dimensions

Overall Cable Width
14.3 mm | 0.563 in

Cable Length
304.8 m | 1000 ft

Diameter Over Center Conductor Tolerance
±0.0004 in

Diameter Over Center Conductor, specific
0.0403 in per 1 strand

Diameter Over Conductor, singles, specific
0.0254 in per 1 strand

Diameter Over Dielectric
4.572 mm | 0.18 in

Diameter Over Dielectric Tolerance
±0.004 in

Diameter Over Outer Shield (Braid)
5.385 mm | 0.212 in

Center Conductor Gauge
18 AWG

Inner Shield (Braid) Gauge
34 AWG

Dimensions, Coaxial

Jacket Thickness
0.762 mm | 0.03 in

Jacket Thickness, minimum spot
0.457 mm | 0.018 in

Diameter Over Jacket
7.061 mm | 0.278 in

Diameter Over Jacket Tolerance
±0.008 in

Electrical Specifications
Capacitance: 52.493 pF/m | 16 pF/ft
Characteristic Impedance: 75 ohm
Characteristic Impedance Tolerance: ±3 ohm
Conductor dc Resistance: 21.325 ohms/km | 6.5 ohms/kft
Dielectric Strength, conductor to shield: 2500 Vdc
Jacket Spark Test Voltage: 2500 Vac
Nominal Velocity of Propagation (NVP): 82%
Shield dc Resistance: 16.076 ohms/km | 4.9 ohms/kft
Structural Return Loss: 15 dB @ 5–2200 MHz
Structural Return Loss Test Method: 100% Swept Tested

**Attenuation**

<table>
<thead>
<tr>
<th>Frequency (MHz)</th>
<th>Attenuation (dB/100 m)</th>
<th>Attenuation (dB/100 ft)</th>
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<tr>
<td>1.0</td>
<td>1.21</td>
<td>0.37</td>
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<tr>
<td>10.0</td>
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</table>

**Material Specifications**

- **Center Conductor Material**: Copper-clad steel wire
- **Conductor Material**: Bare copper
- **Dielectric Material**: Foam PE
- **Jacket Material**: PVC
### Inner Shield (Braid) Coverage
77%

### Inner Shield (Braid) Material
Aluminum

### Inner Shield (Tape) Material
Aluminum/Poly, bonded

### Outer Shield (Tape) Material
Aluminum/Poly, non-bonded

#### Mechanical Specifications

- **Minimum Bend Radius, loaded, times**: 20 times
- **Minimum Bend Radius, unloaded, times**: 10 times

#### Environmental Specifications

- **Installation temperature**: -18 °C to +60 °C (0.4 °F to +140 °F)
- **Operating Temperature**: -40 °C to +75 °C (-40 °F to +167 °F)
- **Environmental Space**: Non-plenum
- **Temperature Rating, UL**: 60 °C | 140 °F
- **Flame Test Method**: CMR
- **Safety Standard**: ETL | cETL

#### Packaging and Weights

- **Cable weight**: 89.29 kg/km | 60 lb/kft
- **Packaging Type**: Reel

#### Regulatory Compliance/Certifications

- **Agency Classification**
  - ISO 9001:2015
    - Designed, manufactured and/or distributed under this quality management system

### Footnotes

**Operating Temperature**: Specification applicable to non-terminated bulk fiber cable