# 770022003 | F677TSVR XP CAT6

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, specific0.0403 in per 1 strandDiameter Over Conductor, singles, specific0.0254 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



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## **Electrical Specifications**

**Capacitance** 52.493 pF/m | 16 pF/ft

Characteristic Impedance75 ohmCharacteristic Impedance Tolerance±3 ohm

**Conductor dc Resistance** 21.325 ohms/km | 6.5 ohms/kft

Dielectric Strength, conductor to shield2500 VdcJacket Spark Test Voltage2500 VacNominal 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

| Frequency (MHz) | Attenuation (dB/100 m) | Attenuation (dB/100 ft) |
|-----------------|------------------------|-------------------------|
| 1.0             | 1.21                   | 0.37                    |
| 10.0            | 2.16                   | 0.66                    |
| 50.0            | 4.62                   | 1.41                    |
| 100.0           | 6.3                    | 1.92                    |
| 200.0           | 8.66                   | 2.64                    |
| 400.0           | 12.23                  | 3.73                    |
| 700.0           | 16.56                  | 5.05                    |
| 900.0           | 18.99                  | 5.79                    |
| 1000.0          | 20.04                  | 6.11                    |
| 1200.0          | 22.07                  | 6.73                    |
| 1450.0          | 24.57                  | 7.49                    |
| 1800.0          | 27.65                  | 8.43                    |
| 2200.0          | 30.67                  | 9.35                    |
| 2500.0          | 32.7                   | 9.97                    |
| 3000.0          | 35.82                  | 10.92                   |
|                 |                        |                         |

### Material Specifications

Center Conductor Material Copper-clad steel wire

 Conductor Material
 Bare copper

 Dielectric Material
 Foam PE



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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, times20 timesMinimum Bend Radius, unloaded, times10 times

**Environmental Specifications** 

Installation temperature  $-18 \,^{\circ}\text{C}$  to  $+60 \,^{\circ}\text{C}$  (-0.4  $^{\circ}\text{F}$  to  $+140 \,^{\circ}\text{F}$ )

**Operating Temperature**  $-40 \,^{\circ}\text{C} \text{ to } +75 \,^{\circ}\text{C} \, (-40 \,^{\circ}\text{F to } +167 \,^{\circ}\text{F})$ 

**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

