## 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 strandDiameter Over Dielectric4.572 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

