770022003 | F677TSVR XP CAT6

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

Product Classification

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

Construction Materials

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

Construction Materials, Twisted Pair

Conductor Material	PE

Dimensions

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

Dimensions, Coaxial

Diameter Over Jacket	7.061 mm | 0.278 in
Diameter Over Jacket Tolerance	±0.008 in
Jacket Thickness	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	±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	±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

Minimum Bend Radius, loaded	20 times
Minimum Bend Radius, unloaded	10 times

Electrical Performance

Frequency	Attenuation (dB/100 m)	Attenuation (dB/100 ft)
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

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