

450250003 | F677TSVM XP PLUS "75 Ohm XPRESSPREP® Plus"

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Product Classification

Product Type	Coaxial drop cable
Product Brand	XPRESSPREP®
Product Series	6 Series
Warranty	One year

General Specifications

Cable Type	Series 6
Center Conductor Type	Solid
Jacket Color	Black
Jacket Marking	Feet
Messenger Wire Type	Solid
Performance Note	Attenuation listed represents maximum values at standard condition of 20 °C (68 °F)
Shield Construction Type	Advanced LTE shielding Trishield

Dimensions

Diameter Over Center Conductor, nominal	1.016 mm 0.04 in
Diameter Over Dielectric, nominal	4.572 mm 0.18 in
Diameter Over Inner Shield (Tape), nominal	4.75 mm 0.187 in
Diameter Over Jacket, nominal	7.061 mm 0.278 in
Diameter Over Messenger Wire, nominal	1.295 mm 0.051 in
Jacket Thickness, nominal	0.762 mm 0.03 in
Center Conductor Gauge	18 AWG
Inner Shield (Braid) Gauge	34 AWG

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Electrical Specifications

Capacitance	53.15 pF/m 16.2 pF/ft
Characteristic Impedance	75 ohm
Characteristic Impedance Tolerance	±3 ohm
dc Resistance Note	Nominal values based on a standard condition of 20 °C (68 °F)
dc Resistance, Inner Conductor, nominal	100.066 ohms/km 30.5 ohms/kft
dc Resistance, Loop, nominal	121.063 ohms/km 36.9 ohms/kft
dc Resistance, Outer Conductor, nominal	20.997 ohms/km 6.4 ohms/kft
Nominal Velocity of Propagation (NVP)	85 %
Operating Frequency Band	5–3000 MHz

Attenuation

Frequency (MHz)	Attenuation (dB/100 m)	Attenuation (dB/100 ft)
5.0	1.9	0.58
55.0	5.25	1.6
83.0	6.4	1.95
85.0	6.46	1.97
187.0	9.35	2.85
204.0	9.84	3
211.0	10	3.05
250.0	10.82	3.3
300.0	11.64	3.55
350.0	12.63	3.85
400.0	13.61	4.15
450.0	14.43	4.4
500.0	15.29	4.66
550.0	16.08	4.9
600.0	16.73	5.1
750.0	18.54	5.65
865.0	20.01	6.1
1000.0	21.49	6.55
1218.0	23.66	7.21
1300.0	24.71	7.53
1400.0	25.71	7.84

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1500.0	26.68	8.13
1600.0	27.63	8.42
1700.0	28.54	8.7
1794.0	29.39	8.96
1800.0	29.44	8.97
2000.0	31.17	9.5
2200.0	32.83	10.01
2500.0	35.2	10.73
2800.0	37.46	11.42
3000.0	38.91	11.86

Material Specifications

Center Conductor Material	Copper-clad steel
Dielectric Material	Foam PE
Jacket Material	PVC
Messenger Wire Material	Zinc-coated steel
Inner Shield (Braid) Coverage	77 %
Inner Shield (Braid) Material	Aluminum
Inner Shield (Tape) Material	Aluminum/Polymer/Aluminum (APA) bonded
Outer Shield (Tape) Material	Aluminum/Polymer/Aluminum (APA) bonded

Mechanical Specifications

Messenger Wire Breaking Strength, minimum	81.647 kg 180 lb
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Environmental Specifications

Environmental Space	Aerial
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Packaging and Weights

Packaging Type	Reel
Weight, gross	63.991 kg/km 43 lb/kft

Regulatory Compliance/Certifications

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

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