

# SZ4997903 | F677TSVM XP APD SM MT

XPRESSPREP® Coaxial Drop Cable, 75 Ohm, Series 6, black PVC jacket with messenger and APD® floodant



**OBSOLETE**

## Product Classification

<b>Product Type</b>	Coaxial drop cable
<b>Product Brand</b>	XPRESSPREP®
<b>Product Series</b>	6 Series
<b>Warranty</b>	One year

## General Specifications

<b>Cable Type</b>	Series 6
<b>Center Conductor Type</b>	Solid
<b>Jacket Color</b>	Black
<b>Jacket Marking</b>	Meters
<b>Messenger Wire Type</b>	Solid
<b>Performance Note</b>	Attenuation listed represents maximum values at standard condition of 20 °C (68 °F)
<b>Shield Construction Type</b>	Trishield

## Dimensions

<b>Diameter Over Center Conductor, nominal</b>	1.016 mm   0.04 in
<b>Diameter Over Dielectric, nominal</b>	4.572 mm   0.18 in
<b>Diameter Over Inner Shield (Tape), nominal</b>	4.75 mm   0.187 in
<b>Diameter Over Jacket, nominal</b>	7.061 mm   0.278 in
<b>Diameter Over Messenger Wire, nominal</b>	1.295 mm   0.051 in
<b>Jacket Thickness, nominal</b>	0.762 mm   0.03 in

# SZ4997903 | F677TSVM XP APD SM MT

<b>Center Conductor Gauge</b>	18 AWG
<b>Inner Shield (Braid) Gauge</b>	34 AWG
<b>Messenger Wire Gauge</b>	16 AWG

## Electrical Specifications

<b>Capacitance</b>	53.15 pF/m   16.2 pF/ft
<b>Characteristic Impedance</b>	75 ohm
<b>Characteristic Impedance Tolerance</b>	±3 ohm
<b>dc Resistance Note</b>	Nominal values based on a standard condition of 20 °C (68 °F)
<b>dc Resistance, Inner Conductor, nominal</b>	100.066 ohms/km   30.5 ohms/kft
<b>dc Resistance, Loop, nominal</b>	121.063 ohms/km   36.9 ohms/kft
<b>dc Resistance, Outer Conductor, nominal</b>	20.997 ohms/km   6.4 ohms/kft
<b>Nominal Velocity of Propagation (NVP)</b>	85 %
<b>Operating Frequency Band</b>	5–3000 MHz
<b>Structural Return Loss, Grade A</b>	≥15 dB @ 1801–3000 MHz   ≥20 dB @ 5–1800 MHz
<b>Structural Return Loss, Grade C</b>	≥15 dB @ 1801–3000 MHz   ≥20 dB @ 1002–1800 MHz   ≥23 dB @ 5–1002 MHz
<b>Structural Return Loss, Grade G</b>	≥15 dB @ 1801–3000 MHz   ≥20 dB @ 1002–1800 MHz   ≥26 dB @ 5–1002 MHz

## Attenuation

<b>Frequency (MHz)</b>	<b>Attenuation (dB/100 m)</b>	<b>Attenuation (dB/100 ft)</b>
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

# SZ4997903 | F677TSVM XP APD SM MT

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
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

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

## Mechanical Specifications

<b>Messenger Wire Breaking Strength, minimum</b>	81.647 kg   180 lb
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## Environmental Specifications

<b>Corrosion Protection</b>	APD®
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**Environmental Space**

Aerial

Packaging and Weights

**Packaging Type**

Reel

**Weight, gross**

63.991 kg/km | 43 lb/kft