

# SZ5000703 | F677TSVM SM MT

Coaxial Drop Cable, 75 Ohm, Series 6, black PVC jacket with messenger



**OBSOLETE**

## Product Classification

<b>Product Type</b>	Coaxial drop cable
<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
<b>Center Conductor Gauge</b>	18 AWG

# SZ5000703 | F677TSVM SM MT

**Inner Shield (Braid) Gauge** 34 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

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

# SZ5000703 | F677TSVM SM MT

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)

## Mechanical Specifications

<b>Messenger Wire Breaking Strength, minimum</b>	81.647 kg   180 lb
--	--------------------

## Environmental Specifications

<b>Environmental Space</b>	Aerial
----------------------------	--------

## Packaging and Weights

<b>Packaging Type</b>	Reel
-----------------------	------

# SZ5000703 | F677TSVM SM MT

---

**Weight, gross**

68.456 kg/km | 46 lb/kft