

SZ4971203 | F677TSVM SM MT

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



Product Classification

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

General Specifications

Cable Type	Series 6
Center Conductor Type	Solid
Jacket Color	Black
Jacket Marking	Meters
Messenger Wire Type	Solid
Shield Construction Type	Trishield

Dimensions

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

Electrical Specifications

Capacitance	16.2 pF/ft 53.15 pF/m
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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	30.5 ohms/kft 100.066 ohms/km
dc Resistance, Loop, nominal	36.9 ohms/kft 121.063 ohms/km
dc Resistance, Outer Conductor, nominal	6.4 ohms/kft 20.997 ohms/km
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
1500.0	26.68	8.13
1600.0	27.63	8.42
1700.0	28.54	8.7

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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)

Mechanical Specifications

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

EN50575 CPR Cable EuroClass	Eca
Environmental Space	Aerial
Flame Test Listing	IEC 60332-1-2

Packaging and Weights

Packaging Type	Reel
Weight, gross	46 lb/kft 6.36 kg/km

Regulatory Compliance/Certifications

Agency	Classification
CENELEC	EN 50575 compliant, Declaration of Performance (DoP) available
CHINA-ROHS	Below maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system

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REACH-SVHC

Compliant as per SVHC revision on www.commscope.com/ProductCompliance

ROHS

Compliant

