SZ4901804 | F6SSVM SM MT

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

OBSOLETE

Product Classification

Product Type	Coaxial drop cable
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
Performance Note	Attenuation listed represents maximum values at standard condition of 20 °C (68 °F)
Shield Construction Type	Quad shield

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	7.544 mm | 0.297 in
Diameter Over Messenger Wire, nominal	1.295 mm | 0.051 in
Jacket Thickness, nominal	0.838 mm | 0.033 in
Center Conductor Gauge	18 AWG

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Inner Shield (Braid) Gauge	34 AWG
Outer Shield (Braid) Gauge	34 AWG

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	117.126 ohms/km | 35.7 ohms/kft
dc Resistance, Outer Conductor, nominal	17.06 ohms/km | 5.2 ohms/kft
Nominal Velocity of Propagation (NVP)	85 %
Operating Frequency Band	5–3000 MHz
Structural Return Loss, Grade A	=15 dB @ 1801–3000 MHz | =20 dB @ 5–1800 MHz
Structural Return Loss, Grade C	=15 dB @ 1801–3000 MHz | =20 dB @ 1002–1800 MHz | =23 dB @ 5–1002 MHz
Structural Return Loss, Grade G	=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

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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

Center Conductor Material	Copper-clad steel
Dielectric Material	Foam PE
Jacket Material	PVC
Messenger Wire Material	Zinc-coated steel
Inner Shield (Braid) Coverage	60 %
Inner Shield (Braid) Material	Aluminum
Inner Shield (Tape) Material	Aluminum/Polymer/Aluminum (APA) bonded
Outer Shield (Braid) Coverage	40 %
Outer Shield (Braid) Material	Aluminum
Outer Shield (Tape) Material	Aluminum/Polymer/Aluminum (APA)

Mechanical Specifications

Messenger Wire Breaking Strength, minimum	81.647 kg | 180 lb

Environmental Specifications

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Environmental Space	Aerial

Packaging and Weights

Packaging Type	Reel
Weight, gross	77.385 kg/km | 52 lb/kft

Regulatory Compliance/Certifications

Agency	Classification
CHINA-ROHS	Below maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
REACH-SVHC	Compliant as per SVHC revision on www.commscope.com/ProductCompliance
ROHS	Compliant

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