

Coaxial Drop Cable, 75 Ohm, Series 50, black PVC jacket with messenger



Product Classification

Product Type	Coaxial drop cable
Product Series	50 Series
Warranty	One year

General Specifications

Cable Type	Series 50
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	Trishield

Dimensions

Diameter Over Center Conductor, nominal	2.769 mm 0.109 in
Diameter Over Dielectric, nominal	11.557 mm 0.455 in
Diameter Over Inner Shield (Tape), nominal	11.76 mm 0.463 in
Diameter Over Jacket, nominal	14.986 mm 0.59 in
Diameter Over Messenger Wire, nominal	2.769 mm 0.109 in
Jacket Thickness, nominal	1.194 mm 0.047 in
Center Conductor Gauge	9 AWG
Inner Shield (Braid) Gauge	33 AWG

Electrical Specifications

450310003 | F5077TSVM109 SM FM

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	3.937 ohms/km 1.2 ohms/kft
dc Resistance, Loop, nominal	13.123 ohms/km 4 ohms/kft
dc Resistance, Outer Conductor, nominal	9.186 ohms/km 2.8 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	0.69	0.21
55.0	1.97	0.6
83.0	2.4	0.73
85.0	2.43	0.74
187.0	3.58	1.09
204.0	4.63	1.14
211.0	3.81	1.16
250.0	4.17	1.27
300.0	4.56	1.39
350.0	4.92	1.5
400.0	5.28	1.61
450.0	5.61	1.71
500.0	5.91	1.8
550.0	6.2	1.89
600.0	6.5	1.98
750.0	7.32	2.23
865.0	7.87	2.4
1000.0	8.5	2.59
1218.0	9.42	2.87
1300.0	9.81	2.99
1400.0	10.27	3.13
1500.0	10.7	3.26
1600.0	11.09	3.38

450310003 | F5077TSVM109 SM FM

1700.0	11.52	3.51
1794.0	11.88	3.62
1800.0	11.91	3.63
2000.0	12.7	3.87
2200.0	13.45	4.1
2500.0	14.53	4.43
2800.0	15.59	4.75
3000.0	16.24	4.95

Material Specifications

Center Conductor Material	Copper-clad aluminum
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	816.466 kg 1800 lb
--	----------------------

Environmental Specifications

Environmental Space	Aerial
----------------------------	--------

Packaging and Weights

Packaging Type	Reel
Weight, gross	224.713 kg/km 151 lb/kft

Regulatory Compliance/Certifications

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

