

740220003 | F50TSVV SM FM

Coaxial Drop Cable, 75 Ohm, Series 50, black flame retardant PVC jacket



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 Meters
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
Jacket Thickness, nominal	1.194 mm 0.047 in
Center Conductor Gauge	9 AWG
Inner Shield (Braid) Gauge	33 AWG

Electrical Specifications

Capacitance	53.15 pF/m 16.2 pF/ft
Characteristic Impedance	75 ohm

740220003 | F50TSVV SM FM

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	15.092 ohms/km 4.6 ohms/kft
dc Resistance, Outer Conductor, nominal	11.155 ohms/km 3.4 ohms/kft
Nominal Velocity of Propagation (NVP)	85 %
Operating Frequency Band	5–3000 MHz
Structural Return Loss, Grade A	=20 dB @ 5–1600 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
1700.0	11.52	3.51

740220003 | F50TSVV SM FM

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	Fire retardant PVC
Inner Shield (Braid) Coverage	60 %
Inner Shield (Braid) Material	Aluminum
Inner Shield (Tape) Material	Aluminum/Polymer/Aluminum (APA) bonded
Outer Shield (Tape) Material	Aluminum/Polymer/Aluminum (APA)

Environmental Specifications

EN50575 CPR Cable EuroClass Fire Performance	Dca
EN50575 CPR Cable EuroClass Smoke Rating	s2
EN50575 CPR Cable EuroClass Droplets Rating	d0
Environmental Space	Indoor
Flame Test Listing	CATV CM IEC 60332-1-2 NEC Article 800 NEC Article 820 UL 1685

Packaging and Weights

Packaging Type	Reel
Weight, gross	160.722 kg/km 108 lb/kft

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

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ROHS

Compliant

