

Coaxial Drop Cable, 75 Ohm, Series 50, black PE jacket, flooded for underground



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

Electrical Specifications

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

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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	1.2 ohms/kft 3.937 ohms/km
dc Resistance, Loop, nominal	4 ohms/kft 13.123 ohms/km
dc Resistance, Outer Conductor, nominal	2.8 ohms/kft 9.186 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	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
1794.0	11.88	3.62

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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	PE
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)

Environmental Specifications

Corrosion Protection	Migraheal®
Environmental Space	Buried

Packaging and Weights

Packaging Type	Reel
Weight, gross	97 lb/kft 144.352 kg/km

Regulatory Compliance/Certifications

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

