

# CA900DB-TW Outdoor Watertight 900-Series Coax Cable

CA900DB-TW series cable is watertight and designed for easy underground installation. With maximum flexibility where curves, bends and twists exist, our cable eliminates the need for hard-line transmission cables. Assembled with a reliable weatherproofing compound in and around the cable braid, it is ideal for any outdoor application requiring high-quality, flexible cabling such as WLL, GPS, WLAN, WISP, WiMax, SCADA and mobile applications.

Construction Specifications		
	Material	Diameter
Inner Conductor	Copper Tube	0.26"
Dielectric	Physical Foam Polyethylene	0.68"
Outer Conductor	Bonded Aluminum Foil + Tinned Copper Braid	Nominal 0.73"
Jacket	Flooding + Black Polyethylene	0.87"

Electrical Characteristics	
Capacitance	23.4 pF/ft
Impedance	50 Ω
Velocity	87%
Inner Conductor DC Resistance	< 0.54 (Ω/1000 ft)
Outer Conductor DC Resistance	< .57 (Ω/1000 ft)
Shielding Effectiveness	> 90 dB
Inductance	0.058 μH/ft
Jacket Spark	8000 VAC
Cut off Frequency	6.9 GHz
Peak Power	62 kW
Return Loss	≤ -18 dB (0.03-3000 MHz)

Mechanical and Environmental Characteristics	
Installation Bend Radius	3.0"
Repeated Bend Radius	9.0"
Weight	0.266 lb/ft
Operating Temperature	-40° F to +185° F
Installation Temperature	-40° F to +185° F
Storage Temperature	-94° F to +185° F

General Information	
Life Expectancy	20 Years (Outdoor Use)



Attenuation (68° F) and Avg. Power (104°F) At Sea Level			
Frequency MHz	Typical Attenuation dB/100 ft	Max Attenuation dB/100 ft	Average Power kW
30	0.3	0.4	8.89
50	0.4	0.5	6.85
150	0.7	0.75	3.89
220	0.84	0.90	3.19
450	1.24	1.3	2.19
700	1.6	1.65	1.75
750	1.68	1.75	1.69
800	1.76	1.81	1.59
900	1.83	1.9	1.51
1500	2.44	2.56	1.14
1800	2.69	2.82	1.03
2000	2.83	2.97	0.97
2500	3.23	3.4	0.86
5800	5.60	5.8	0.52