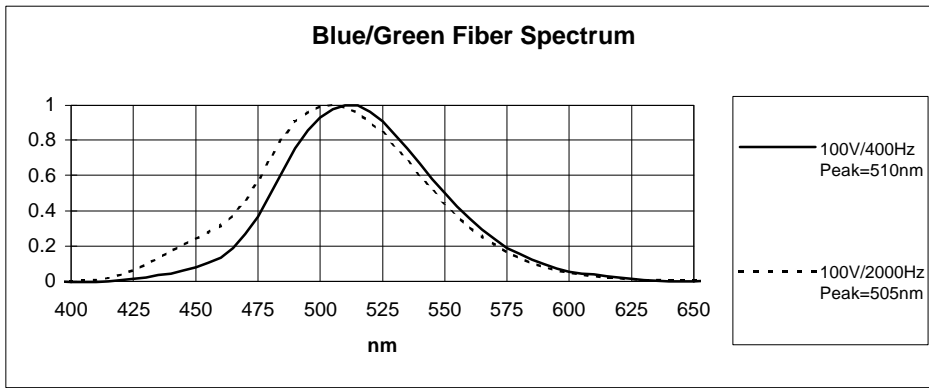


Blue/Green LiveWire
for Indoors and Outdoors* Use

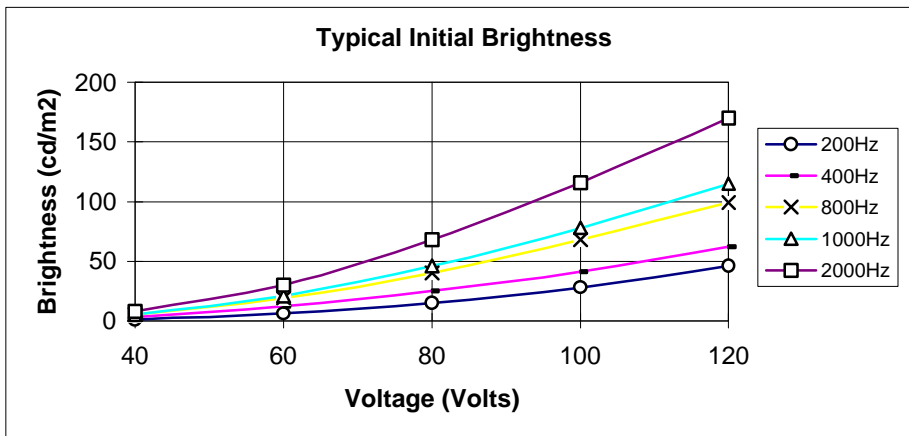
Product Specifications(Model **01S BG)**

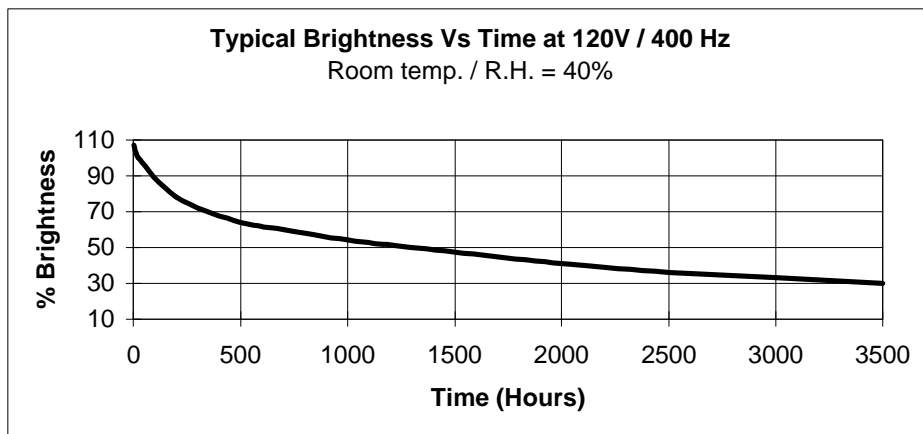
Overall Diameter	2.1 - 2.6 mm (0.083" - 0.123")
Absolute Maximum Ratings	
Power Supply Voltage	130 Volts (RMS)
Storage Temperature	-20 to +65 deg. C (-4 to +149 deg.F)
Operating Temperature	-20 to +55 deg. C (-4 to +131 deg.F)
Stretching Force	1 Kg
Bending Diameter	at least 5 times the fiber diameter
Twisting Angle	30 degrees per meter
Average AC current	100 mAmp
Insulation Breakdown Voltage	4000 Volts per IEC 335-1
Flammability	850 deg C per IEC 335 -1
Electro-Optical Characteristics	
	Typical** Initial Performance
Brightness at 100 Volts / 400Hz	41 cd/m²
Peak Wavelength at 100V/400 Hz	510 nm
Chromaticity Coordinates at 100V/400 Hz	X = 0.194, Y = 0.546
Brightness at 100 Volts / 800Hz	68 cd/m²
Peak Wavelength at 100 Volts / 800Hz	510 nm
Chromaticity Coordinates at 100 Volts / 800Hz	X = 0.185, Y = 0.515
Brightness at 100 Volts / 2000Hz	116 cd/m²
Peak Wavelength 100V / 2000 Hz	505 nm
Chromaticity Coordinates at 100 Volts / 2000Hz	X = 0.176, Y = 0.449
Dynamic Capacitance at 5 VAC in darkness	5.3 nF +/- 0.8 nF



Typical Initial Brightness (cd/m²)

Voltage (VRMS)	200Hz	400Hz	800H	1000H	2000Hz
40	1	3	5	5	8
60	6	12	19	21	30
80	15	25	40	46	68
100	28	41	68	78	116
120	46	62	99	115	170





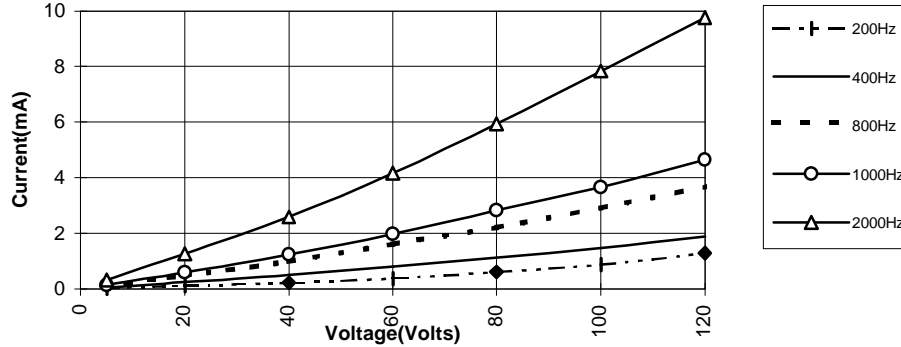
*** Remark: Product operation under direct sunlight is not recommended!**
For Outdoors system design, please, contact LiveWire Enterprises.
**** Remark: Actual parameters of each lot may vary from typical values within +/-20%.**

Common Characteristics for All Color

Current Consumption(mAmp) of 1meter

Voltage(VRMS)	200Hz	400Hz	800Hz	1000Hz	2000Hz
5	0.03	0.06	0.12	0.16	0.33
20	0.12	0.24	0.48	0.61	1.27
40	0.23	0.50	1.00	1.24	2.59
60	0.38	0.80	1.62	1.98	4.17
80	0.62	1.12	2.22	2.83	5.94
100	0.88	1.47	2.92	3.66	7.84
120	1.29	1.90	3.68	4.64	9.76

Current Consumption
(1 meter of Fiber)

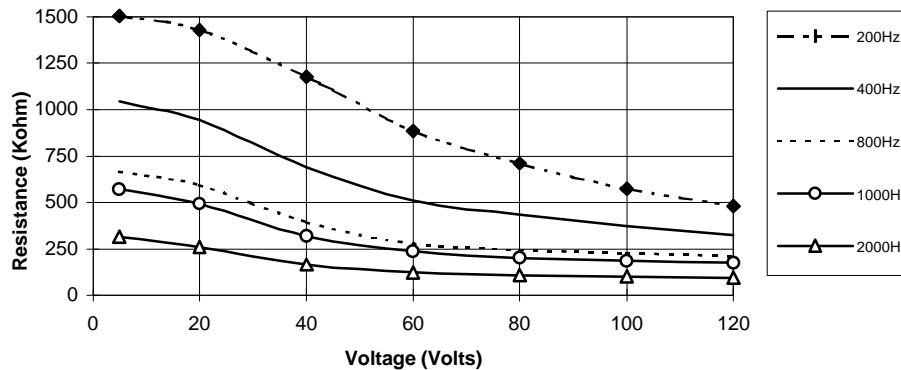


Equivalent Ohmic Resistance(kOhm) of 1 meter

(Ohmic Component of the Parallel RC Circuit)

Voltage	200Hz	400Hz	800Hz	1000Hz	2000Hz
5	1504	1043	663	569	314
20	1428	942	592	494	259
40	1175	691	393	316	165
60	886	510	280	235	123
80	709	435	243	200	107
100	572	374	226	184	101
120	480	323	210	174	94

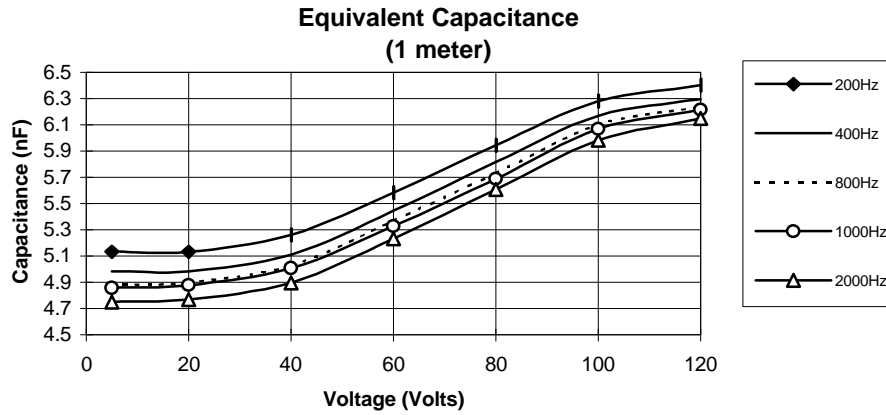
Equivalent Ohmic Resistance
(1 meter)



Equivalent Capacitance(nF) of 1 meter

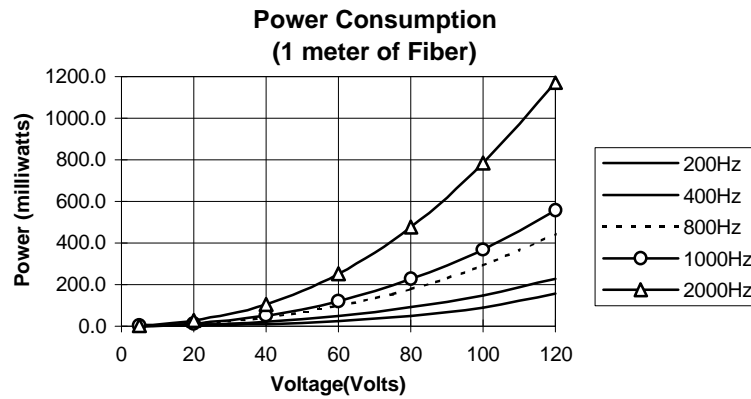
(Capacitive Component of the Parallel RC Circuit)

Voltage (VRMS)	200Hz	400Hz	800Hz	1000Hz	2000Hz
5	5.1	5.0	4.9	4.9	4.7
20	5.1	5.0	4.9	4.9	4.8
40	5.3	5.1	5.0	5.0	4.9
60	5.6	5.4	5.4	5.3	5.2
80	5.9	5.8	5.7	5.7	5.6
100	6.3	6.2	6.1	6.1	6.0
120	6.4	6.3	6.2	6.2	6.1



Power Consumption (milliWatt/meter)

Voltage(VRMS)	200Hz	400Hz	800Hz	1000Hz	2000Hz
5	0.2	0.3	0.6	0.8	1.7
20	2.5	4.9	9.7	12.2	25.5
40	9.1	20.2	39.9	49.7	103.6
60	22.8	47.8	97.1	118.9	250.5
80	49.6	89.8	177.2	226.6	475.4
100	88.0	147.0	291.8	366.4	783.8
120	154.4	227.5	442.2	557.2	1170.6



Relative Efficiency					
Voltage(VRMS)	200Hz	400Hz	800Hz	1000Hz	2000Hz
40	164.0	144.5	115.6	105.9	72.6
60	276.3	243.4	190.6	174.1	118.8
80	310.5	277.1	223.2	203.3	142.2
100	318.2	282.2	231.6	212.8	147.5
120	301.0	271.8	224.9	206.7	145.0

