



Light by Wire  
Elam - EL Industries Ltd

### Product Specification, Preliminary General Purpose EL Wire 01S Series

Overall Diameter	2.1 to 2.6 mm
Operating Temperature	-20 to +50 °C
<b>Absolute Maximum Ratings:</b>	
Power Supply Voltage	130 V <sub>rms</sub> ( V <sub>eff</sub> ) +/- 20%
Dynamic Capacitance at 5 VAC in darkness	5.3 nF +/- 0.8 nF
Stretching Force	1 Kg
Bending Diameter	at least 5 times the fiber diameter
Twisting Angle	30 degrees per meter
Average AC current	100 mA
Insulation Breakdown	4000 Volts per IEC 335-1
Voltage Flammability	850 °C per IEC 335 -1

### Current Consumption (mA) per Meter

Voltage [Vrms]	200 Hz	400 Hz	800 Hz	1000 Hz	2000 Hz
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	2.40
60	0.38	0.80	1.52	1.83	3.82
80	0.62	1.12	2.10	2.65	5.24
100	0.88	1.47	2.81	3.47	6.80
120	1.29	1.90	3.50	4.44	8.61

