

## TABLE

Chart showing the distance upto which different sizes of U.G. Aluminium conductor cables can be used for different current rating for 8 volts drop when laid in ground ( PVC insulated, PVC sheet, 3 Core 3<sup>1/2</sup> Core/4 Core) when cable grading is 1-1 KV.

**(Maximum Conductor Temperature – 70<sup>0</sup>C)**

Current (Amp)	Distance in Meters for the following Cable sizes in Sq. mm												
	6	10	16	25	35	50	70	95	120	150	185	240	300
5	165	260	415	725	895	1300	1925	2360	3065	3555	4300	5770	6460
10	80	130	205	360	450	650	960	1180	1530	1775	2150	2885	3230
15	55	85	140	240	300	430	640	785	1020	1185	1430	1920	2155
20	40	65	100	180	225	325	480	590	765	890	1075	1445	1615
25	30	50	80	145	180	260	385	470	610	710	860	1150	1290
30	25	40	70	120	150	215	320	390	570	590	715	960	1075
40	20	30	50	90	110	160	240	295	380	445	535	720	805
50	-	25	40	70	90	130	190	235	305	355	430	575	645
60	-	-	35	60	75	110	160	195	255	295	355	480	535
70	-	-	30	50	65	90	135	165	215	255	305	410	460
80	-	-	-	45	55	80	120	145	190	220	265	360	405
90	-	-	-	40	50	70	105	130	17	195	235	320	360
100	-	-	-	35	45	65	95	115	150	175	215	290	320
110	-	-	-	-	40	60	85	105	140	160	195	260	290
120	-	-	-	-	35	55	80	95	125	145	180	240	270

130	-	-	-	-	-	50	75	90	115	135	165	220	250
140	-	-	-	-	-	45	70	80	110	125	150	205	230
150	-	-	-	-	-	-	65	75	100	115	140	190	215
160	-	-	-	-	-	-	60	70	95	110	130	180	200
170	-	-	-	-	-	-	55	70	90	105	125	170	190
180	-	-	-	-	-	-	50	65	85	100	120	160	180
190	-	-	-	-	-	-	-	60	80	90	110	150	170
200	-	-	-	-	-	-	-	60	75	90	105	145	160
225	-	-	-	-	-	-	-	-	65	80	95	125	145
250	-	-	-	-	-	-	-	-	-	70	85	115	130
275	-	-	-	-	-	-	-	-	-	-	80	105	115
300	-	-	-	-	-	-	-	-	-	-	70	95	105

Note: PVC Insulated electrical cable for voltage grade up to 1.1 KV is 1.

### SELECTION OF LUMINAIRE

Lamp Type	Range	Luminous Flux	Efficacy Lm/W	Life Hours	Color Rendering
GLS (Incandescent)	25W-1000W	230-18000	9-18	1000	Excellent
Halogen	300W-1000W	5100-22000	17-22	2000	Excellent
CFL	9W-25W	450-1200	59-78	8000	Good
	5W-11W	250-900	50-82	8000	Good
Fluorescent	18W-65W	970-4000	49-77	5000	Moderate
ML	160W	2900	18	5000	Moderate
HP MV	80W-1000W	3500-58000	44-58	5000	Moderate
HP SV	70W-400W	5800-47500	83-119	12000-15000	Moderate
LP SV	18W-35W	1800-4500	100-129	10000	Fair

Metal Halide					
HPI-T	250W	17000W		10000	Poor
HPI-T	400W	31500W		10000	Good
HPI-T	1000W	81000W		10000	Good
HPI-T	2000W	189000W		10000	Good
HPI-BU	250W	17500W		10000	Good
HPI-BU	400W	27600W		10000	Good
MHNTD	70W	5500W		6000	Excellent
MHNTD	150W	11250W		6000	Excellent