Low Voltage Cable Calculator

Suite 3 Faraday House, King William Street, Amblecote,
Stourbridge, West Midlands, England DY8 4HD
T: 01384 377378 F: 01384 377387
E: info@lightideas.co.uk W: lightideas.co.uk

Light ideas

Instructions.

The cable must be of a multi strand type to achieve the figures quoted on the HUNZA Cable Calculator (Refer to cable strand chart). The HUNZA Cable Calculator includes 4 colour coded zones that each represent a different cable size.

First determine the distance (e.g. 25 mtrs. / 81 ft.) of the cable run and the combined load in watts. Select the wattage (e.g. 220 watt) required by turning the YELLOW triangle to 220w position on the outer circle of the HUNZA Cable Calculator . If your required distance (e.g. 25 mtrs. / 81 ft.) is greater than that shown in the read out window you must either select a higher voltage from the transformer (see Warning on cable calculator dial) or increase the cable size.

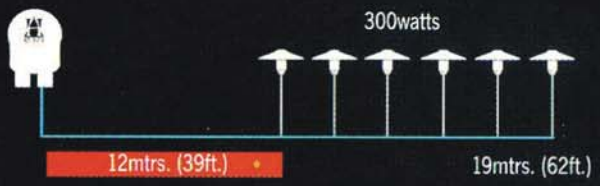
Please Note:

The HUNZA Cable Calculator has been designed as an aid only and should be used in conjunction with local electrical authority regulations and should not contravene such regulations.

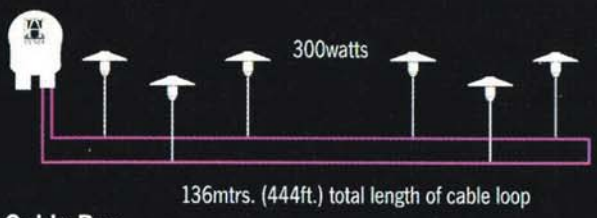
HUNZA WALL MOUNT TRANSFORMERS

CABLE STRAND CHART	
mm^2	stranding
2.5	47/0.25
4.0	84/0.25
6.0	128/0.20
10.0	348/0.20

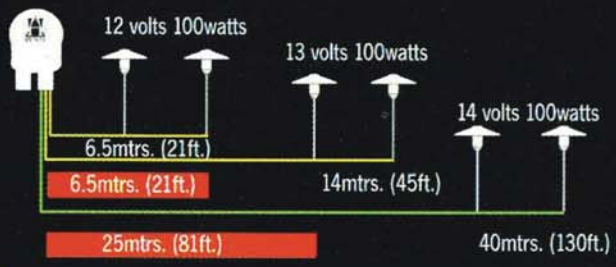
HUNZA®



Example 1. Single Cable Run
19mtrs.(62ft.) x 6mm sq (10AWG) cable supplied at 14 volts. Fixtures must not be connected closer than 12 mtrs. (39ft.) from the transformer due to over volting. (see right hand side of read out window next to Min. distance to first fixture @ 14v)

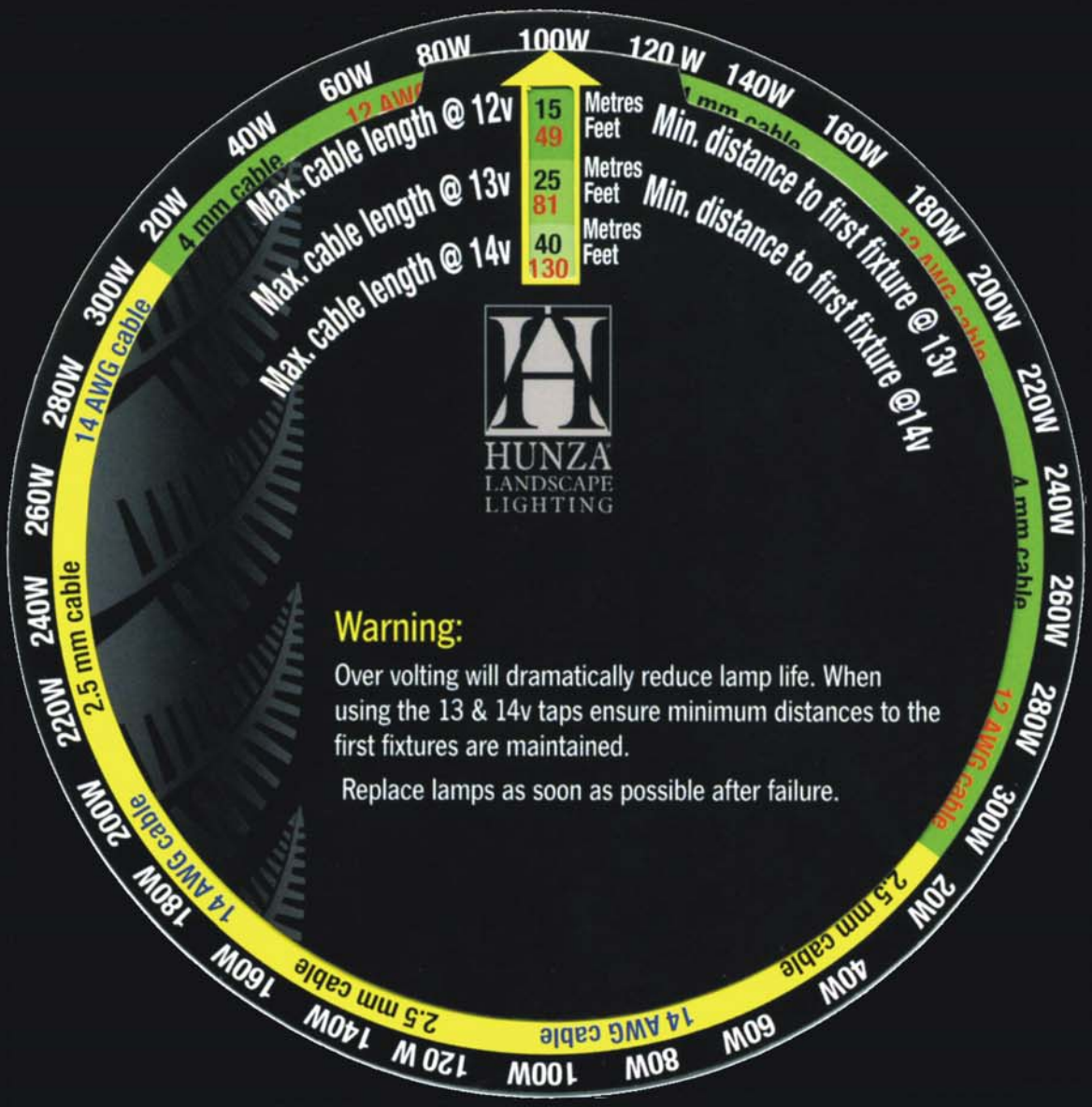


Example 2. Looped Single Cable Run
136mtrs.(444ft.) x 10mm sq (8AWG) cable supplied at 14 volts from the transformer. Looping the cable back to the transformer allows the indicated distances on the calculator to be multiplied by 4. In this example the calculator indicated 34 mtrs (111ft.) x 4 = 136mtrs (444 ft.). This is the total length of the cable loop.



Example 3. Multi Cable Run
Supplied at 12 volts max. 6.5mtrs. (21ft.) x 2.5mm sq. (14AWG) cable.
Supplied at 13 volts 14mtrs. (45ft.) x 2.5mm sq. (14AWG) cable. Fixtures must not be connected closer than 6.5mtrs. (21ft.) from the transformer due to over volting.
Supplied at 14 volts 40mtrs. (130ft.) x 4mm sq. (12AWG) cable. Fixtures must not be connected closer than 25mtrs. (81ft.) from the transformer due to over volting.
Connect each of the three different cable lengths to the 12, 13, 14 volt outputs of the transformer to achieve the correct voltage for the cable length and load.

HUNZA®


20W
40W
60W
80W
100W
120 W
140W
160W
180W
200W
220W
240W
260W
280W
300W
Max. cable length @ 12v
15
49
Metres
Feet
Min. distance to first fixture @ 13v
Max. cable length @ 13v
25
81
Metres
Feet
Min. distance to first fixture @14v
Max. cable length @ 14v
40
130
Metres
Feet
4 mm cable
14 AWG cable
2.5 mm cable
HUNZA
LANDSCAPE
LIGHTING
Warning:
Over volting will dramatically reduce lamp life. When using the 13 & 14v taps ensure minimum distances to the first fixtures are maintained.
Replace lamps as soon as possible after failure.

HUNZA®