

Using a 3 way connection box (series for Luxeon, Parallel for Standard Led) installed in the ground before paving is laid. Cable pair from the box is passed through the paving cutout as it is laid. Later on this cable is cut back to a usable length, connected to the paver flying leads via suitable insulated crimp (Scotchlok ?) & heat shrink over sleeve. The paver is then lowered down into the cutout hole We stock 3M medium walled adhesive sleeve for wet locations. NOT SUITABLE FOR IMMERSION

CRE1208/1210/2210/2212, Could be installed into ABS plastic pipe of nominal 32mm/1.25" I.D. BS5255:1989, with silicone adhesive or similar

CRE1209/2211, As above but with ABS plastic pipe of 38mm/1.5" I.D.

ADHESIVE MATERIAL, PERMANENT FIX

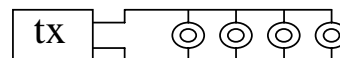
Chemifix EA epoxyvinyl is recommended and is available from Chemifix Products, Unit 3 The Mews, Wrotham Rd, Gravesend, Kent DA13 0QB T, 01474816400, f, 01474816401. E-mail .enquiries@chemfix.co.uk

PLEASE BE ADVISED THE ABOVE IS PERMANENT

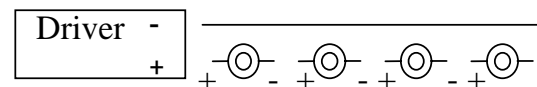
If some degree of "removability" is required then Bostik "Matrix" or EvoStick silicone frame sealant could be tried. We can supply silicone as FS136

CRESCENT 5mm Led's or LUXEON LED Pavers & Fittings

STANDARD LED (5mm) wire in parallel with 24v A/c transformer



LUXEON LED wire in series with Special Drivers



Damage will occur if the above is not adhered to.

Attention must be paid to correct selection of driver & minimum / maximum led's per driver.

Do not be tempted to test just one led when the driver says minimum 3. Please be aware that the Luxeon are generally 1 watt types, but 2 watts are now being made, & require special drivers.

PAVERS, these units are supplied with a 1.5m flying lead, via a black gland, which ensures that it remains sealed against dust and moisture. **DO NOT** loosen the gland nut or try to dismantle the unit. The body of these units is 27 or (38)mm diameter. You should drill a hole in the mounting surface as close to this as possible - say 28 - 30mm or (40), so that it is a snug fit.

Check dimensions before drilling. You will need about 100mm depth to allow for the cable.

Fixing, use a good quality clear silicone adhesive such as one suitable for bathrooms. Weatherproof type if being installed outside. If the units are being installed facing downwards e.g. in a ceiling, then we recommend using a proprietary 2-part epoxy adhesive. There is a spring kit for some fittings & some of our range have 3 screw fixing holes in the bezel, (screws not supplied).

INTERNAL fittings are generally IP20 rating, they are supplied with a 1.5m flying lead, usually have a legged springs for fitting into ceiling / MDF etc.. Please **Check** dimensions before drilling.

Ensure the mains supply is switched off before connecting the led to the transformer/driver. The cable should be run in ducting or similar to protect it from accidental damage. If in doubt, please seek professional help.

Power Supplies for Led's

Part No	Led's to be powered		Watts 1 or 2	Type	Input voltage	Output wattage v/a	Dimensions L.W.H.mm	IP rating	How Dimmed	Typically used for
	Min	Max								
CRE2777	1	8	1	CCD	230v	350mA - 8/10w-dc	115x40x20	IP20	Not poss	1w Luxeon stars & MR16 module ONLY
CRE2778	1	3	1	CCD	230v	350mA - 3w-dc	55dia x 20h	IP64	Not poss	1w Luxeon stars & MR16 module ONLY
CRE2779				DCPs	95-240v	24v dc - 10w	120x35x20	IP20	Not poss	Must be used for CRE2754/65/66/67
CRE2780				DCPs	95 - 240v	24v dc - 40w	120x35x20	IP20	Not poss	For standard 5mm led's
CRE2783	1	2	1	CCD	230				Not poss	
CRE2784	1	4	2	CCD	230v	700mA, 2w - 8w	115x40x20	IP20	Not poss	Fow 2w Luxeon, one - four leds
CRE2785				DCPs	95 - 240v	10v dc - 10va	120x35x20	IP20		CRE2764 Bricklight
CRE2801	4	12	1	CCD	195 -265v	350mA - 36w	315x63x45	IP20	via dmx	CL & Luxeon only. Min load 4w per channel (3). Max 12w
CRE2802/9w	4	9	1	CCD	230	350mA - 4w-9w	110x55x25	IP20	Via remote	Colourline (<900mm) & Luxeon only. Min load 4w
CRE2802/12	6	12	1	CCD	230	350ma 6w-12w	140x40x30		Not poss	
CRE2802/16	2x1	2x8	1	CCD						2 Circuits of 8, 1 watt Luxeon
TSO20/24	1	33	0.6	ACWWt	220/240	24v 50Hz ac - 20VA	90x64 dia	IP20	"	For Crescent 4 led module
TSO50/24	1	83	0.6	ACWWt	220/240	24v 50Hz ac - 50VA	90x64 dia	IP20	"	For Crescent 4 led module
CRE2292				ACWWt	220/240	24v 50Hz ac - 15VA	120x120x55	IP65	"	
CRE2309				ACWWt	220/240	24v 50Hz ac - 80VA	188x188x68	IP65	"	
CRE2332				ACWWt	220/240	24v 50Hz ac - 120V,	188x188x68	IP65	"	

CCD = CONSTANT CURRENT DRIVER....DCPs= DC POWER SUPPLY....ACWWt = AC WIRE WOUND TRANSFORMER

NOTES:
 Luxeon Constant Current Drivers provide the optimum current for the led. The actual voltage across each led is about 3.4v,
 CCDs must be used with Luxeon leds and cannot be used for standard 5mm leds
 Generally volt drop is not a problem, Led's consume very little power. As a guide when extending up to 15mtrs use .75mm², to 25 mtrs use 1.5mm², over use 2.5mm²
 Control systems & dimmers must be adapted to match the requirements of the transformer/CCD/power supply