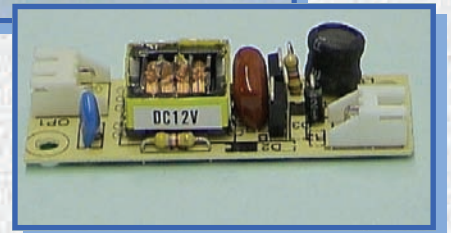
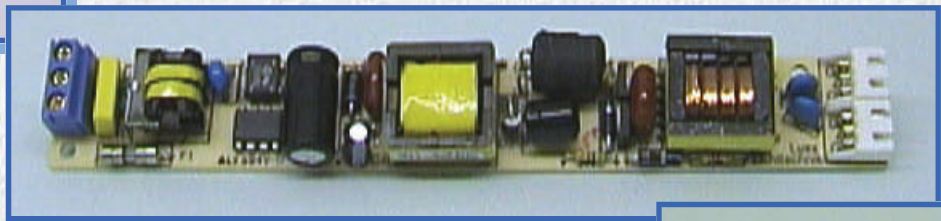
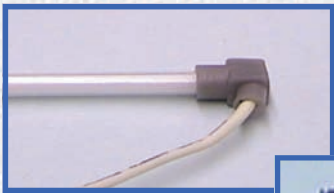


Product Information for CCFL & EEFL Products

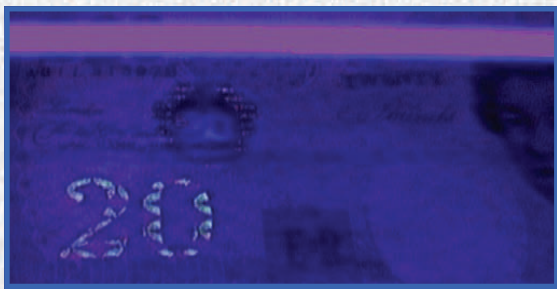
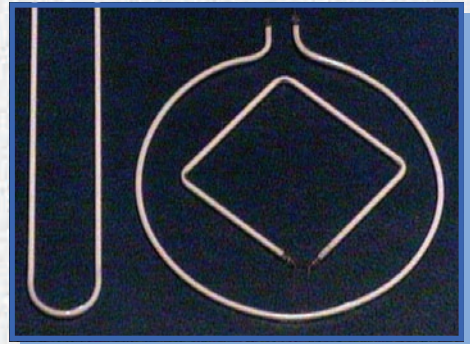


CCFL styles and UV lamps

Visualux are able to supply CCFLs in diameters of 1.8, 2.0, 2.3, 2.6, 3.0 and 4.1. Lengths available are: 1.8mm diameter from 50 to 150mm long. 2.0/2.3mm are available in lengths of 50 to 300mm. 2.6dia. from 50 to 800mm long and 3.0/4.1dia. 50 to 1000mm long. Our CCFLs are supplied, as standard, with Wire Ends. High Voltage silicon cable can be supplied connected to your CCFLs or supplied separately with a suitable inverter connector. Reels of High Voltage cable are also available.

Shaped CCFLs

Shaped CCFLs are a speciality of Visualux. Minimum order quantities for shaped CCFLs is usually only 100 pcs. and deliveries are normally within 4/6 weeks.



Ultra Violet Lamps

UV-A lamps, as used in currency authentication equipment, are available at 365Nm and can detect the fluorescing inks and UV sensitive bands as used in many currencies. These UV lamps are available in 3.0 and 4.1Ø and in lengths from 40 to 500mm. Minimum order quantities on non stock sizes are 100 pcs. only.

General Advice

- ◆ **Very high voltages** are generated by the CCFL inverter - all safety precautions must be observed.
- ◆ Avoid having the High Voltage leads crossing over each other or too close together - this can cause capacitance problems that can result in the CCFL looking less bright.
- ◆ Keep the High Voltage leads, that connect the inverter to the CCFL, to a minimum length.
- ◆ Keep metalwork away from the CCFL and Inverter circuit as much as possible, as this can cause capacitance problems that can result in the CCFL looking less bright.
- ◆ In the interests of safety, fit a suitable insulating end cap or sleeving to the connection between the CCFL and High Voltage leads.

A few of our standard CCFLs

Part No.	Description	Termination	Colour Temp.	Availability
VLXF-50-RGD/3.0	3.0dia. x 50mm long CCFL	Wire Ends	8,000k	Stock
VLXF-86-RGD/3.0	3.0dia. x 86mm long CCFL	Wire Ends	8,000k	Stock
VLXF-100-RGD/4.1	4.1dia. x 100mm long CCFL	Wire Ends	8,000k	Stock
VLXF-100-SYN/4.0	4.0dia. x 100mm long CCFL	End caps, leads, connector	6,000k	Stock
VLXF-120-RGD/4.1	4.1dia. x 120mm long CCFL	Wire Ends	8,000k	Stock
VLXF-150-RGD/4.1	4.1dia. x 150mm long CCFL	Wire Ends	8,000k	Stock
VLXF-160-RGD/4.1	4.1dia. x 160mm long CCFL	Wire Ends	8,000k	MOQ if no stock
VLXF-188-RGD/2.4	2.3dia. x 188mm long CCFL	Wire Ends	8,000k	Stock
VLXF-200-RGD/3.0	3.0dia. x 200mm long CCFL	Wire Ends	8,000k	Stock
VLXF-200-RGD/4.1	4.1dia. x 200mm long CCFL	Wire Ends	8,000k	Stock
VLXF-210-SYN/4.0	4.0dia. x 210mm long CCFL	End caps, leads, connector	6,000k	MOQ if no stock
VLXF-216-RGD/2.6	2.6dia. x 216mm long CCFL	Wire Ends	8,000k	Stock
VLXF-216-RGD/3.0	3.0dia. x 216mm long CCFL	Wire Ends	8,000k	Stock
VLXF-216-SYN/4.0	4.0dia. x 216mm long CCFL	End caps, leads, connector	6,000k	Stock
VLXF-218-RGD/3.0	3.0dia. x 218mm long CCFL	Wire Ends	8,000k	MOQ if no stock
VLXF-220-RGD/2.4	2.3dia. x 220mm long CCFL	Wire Ends	8,000k	Stock
VLXF-220-RGD/4.1	4.1dia. x 220mm long CCFL	Wire Ends	8,000k	Stock
VLXF-220-SYN/4.0	4.0dia. x 220mm long CCFL	End caps, leads, connector	6,000k	Stock
VLXF-232-RGD/4.1	4.1dia. x 232mm long CCFL	Wire Ends	8,000k	MOQ if no stock
VLXF-240-RGD/2.4	2.3dia. x 240mm long CCFL	Wire Ends	8,000k	MOQ if no stock
VLXF-240-RGD/3.0	3.0dia. x 240mm long CCFL	Wire Ends	8,000k	Stock
VLXF-246-RGD/3.0	3.0dia. x 246mm long CCFL	Wire Ends	8,000k	MOQ if no stock
VLXF-250-RGD/2.6	2.6dia. x 250mm long CCFL	Wire Ends	8,000k	Stock
VLXF-250-RGD/3.0	3.0dia. x 250mm long CCFL	Wire Ends	8,000k	Stock
VLXF-252-RGD/4.1	4.1dia. x 252mm long CCFL	Wire Ends	8,000k	Stock
VLXF-254-RGD/2.3	2.3dia. x 254mm long CCFL	Wire Ends	8,000k	Stock
VLXF-258-RGD/2.4	2.3dia. x 258mm long CCFL	Wire Ends	8,000k	Stock
VLXF-266-SYN/4.0	4.0dia. x 266mm long CCFL	End caps, leads, connector	6,000k	Stock
VLXF-300-RGD/2.6	2.6dia. x 300mm long CCFL	Wire Ends	8,000k	Stock
VLXF-300-RGD/3.0	3.0dia. x 300mm long CCFL	Wire Ends	8,000k	Stock
VLXF-300-RGD/3.0/Blue/ELC	3.0dia. x 300mm long CCFL	End caps, leads, connector	Blue	Stock
VLXF-300-RGD/3.0/Green/ELC	3.0dia. x 300mm long CCFL	End caps, leads, connector	Green	Stock
VLXF-300-RGD/3.0/Red/ELC	3.0dia. x 300mm long CCFL	End caps, leads, connector	Red	Stock
VLXF-300-SYN/4.0	4.0dia. x 300mm long CCFL	End caps, leads, connector	6,000k	Stock
VLXF-315-RGD/2.6	2.6dia. X 315mm long CCFL	Wire Ends	8,000k	Stock
VLXF-360-RGD/3.0	3.0dia. x 360mm long CCFL	Wire Ends	8,000k	Stock
VLXF-360-SYN/3.0	3.0dia. x 360mm long CCFL	End caps, leads, connector	8,000k	Stock
VLXF-420-RGD/3.0	3.0dia. x 420mm long CCFL	Wire Ends	8,000k	Stock
VLXF-420-RGD/4.1	4.1dia. x 420mm long CCFL	Wire Ends	8,000k	MOQ if no stock

Colour temperature (k) is +/- 10%

MOQ if no stock = If no stock is available Minimum Order Quantities apply (usually 100 pcs.)

Stock = Parts usually available from stock depending on quantity required

Custom lengths available – normal MOQ = 100pcs. ONLY!

Shaped CCFLs are a speciality of Visualux

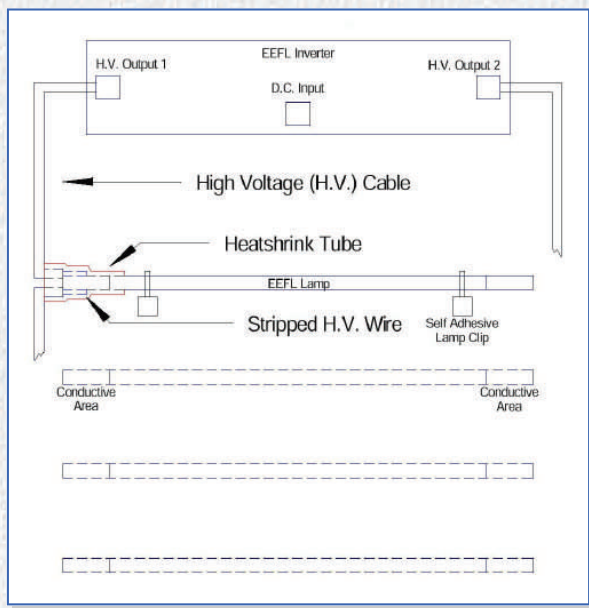
Drive Inverters for CCFLs

Custom designs welcome – please enquire!

Inverter	Lamps	Input	L x W x H (mm)	CCFL Length(mm)	Minimum Order	Notes	
VLXINV-4152	1	9vDC	58.5 x 21 x 11.5	50-150	100		
VLXINV-4252	1	9vDC	58.5 x 21 x 11.5	151-250	100		
VLXINV-4352	1	9vDC	58.5 x 21 x 11.5	251-350	100		
VLXINV-4452	1	9vDC	58.5 x 21 x 11.5	351-420	100		
VLXINV-41022	2	9vDC	70 X 21 X 12.5	50-150	100		
VLXINV-42022	2	9vDC	70 X 21 X 12.5	151-250	100		
VLXINV-43022	2	9vDC	70 X 21 X 12.5	251-350	100		
VLXINV-8002	1	8-20vDC	80 x 20 x 9.0	50 - 300	1	Dimming	
VLXINV-4151	1	5vDC	58.5 x 21 x 11.5	50-150	100		
VLXINV-4251	1	5vDC	58.5 x 21 x 11.5	151-250	100		
VLXINV-4351	1	5vDC	58.5 x 21 x 11.5	251-350	100		
VLXINV-4451	1	5vDC	70 X 21 X 12.5	351-420	100		
VLXINV-41012	2	5vDC	70 X 21 X 12.5	50-150	100		
VLXINV-42012	2	5vDC	70 X 21 X 12.5	151-250	100		
VLXINV-43012	2	5vDC	70 X 21 X 12.5	251-350	100		
VLXINV-44012	2	5vDC	70 X 21 X 12.5	351-420	100		
VLXINV-4154	1	24vDC	58.5 x 21 x 11.5	50-150	100		
VLXINV-4254	1	24vDC	58.5 x 21 x 11.5	151-250	100		
VLXINV-4354	1	24vDC	58.5 x 21 x 11.5	251-350	100		
VLXINV-4454	1	24vDC	70 X 21 X 12.5	351-420	100		
VLXINV-41042	2	24vDC	70 X 21 X 12.5	50-150	100		
VLXINV-42042	2	24vDC	70 X 21 X 12.5	151-250	100		
VLXINV-43042	2	24vDC	70 X 21 X 12.5	251-350	100		
VLXINV-44042	2	24vDC	70 X 21 X 12.5	351-420	100		
VLXINV-4153	1	12vDC	58.5 x 21 x 11.5	50-150	1		
VLXINV-4253	1	12vDC	58.5 x 21 x 11.5	151-250	1		
VLXINV-4353	1	12vDC	58.5 x 21 x 11.5	251-350	1		
VLXINV-4453	1	12vDC	70 X 21 X 12.5	351-420	1		
VLXINV-4603	2	12vDC		420-600	1		
VLXINV-41032	2	12vDC	70 X 21 X 12.5	50-150	1		
VLXINV-42032	2	12vDC	70 X 21 X 12.5	151-250	1		
VLXINV-43032	2	12vDC	70 X 21 X 12.5	251-350	1		
VLXINV-44032	2	12vDC	70 X 21 X 12.5	351-420	1		
VLXINV-4035	2	12vDC		420-680	1		
VLXINV-4036	2	12vDC		680-800	1		
VLXINV-1502U	2	115/230VAC	160 x 22 x 17	50-150	1	VAC Input !	
VLXINV-3002U	2	115/230VAC	160 x 22 x 17	151-300	1	VAC Input !	
VLXINV-4202U	2	115/230VAC	160 x 22 x 17	301-420	1	VAC Input !	
VLXINV-LT-4202U-10mA	2	115/230VAC	160 x 22 x 17	301-420	1	VAC Input ! 10mA Output w ith Pre-Heat Circuit	
VACINV-363	2	115/230VAC	262 x 35 x 19	<363mm long	1	VAC Input ! and in Aluminium Case	
VACINV-458	2	115/230VAC	262 x 35 x 19	<458mm long	1	VAC Input ! and in Aluminium Case	
VACINV-558	2	115/230VAC	262 x 35 x 19	<558mm long	1	VAC Input ! and in Aluminium Case	
VACINV-608	2	115/230VAC	262 x 35 x 19	<608mm long	1	VAC Input ! and in Aluminium Case	
VACINV-658	2	115/230VAC	262 x 35 x 19	<658mm long	1	VAC Input ! and in Aluminium Case	
VACINV-758	2	115/230VAC	262 x 35 x 19	<758mm long	1	VAC Input ! and in Aluminium Case	

EEFL (Exterior Electrode Fluorescent Lamp)

EEFLs (Exterior electrode fluorescent lamps) have been designed primarily for use in multi lamp configurations (normally greater than 5 lamps per inverter). Unlike CCFL (Cold cathode fluorescent lamps) which normally require a separate output circuit for each lamp, EEFLs are configured in a 'parallel' design. It is therefore possible to power many EEFLs from a single suitable inverter.



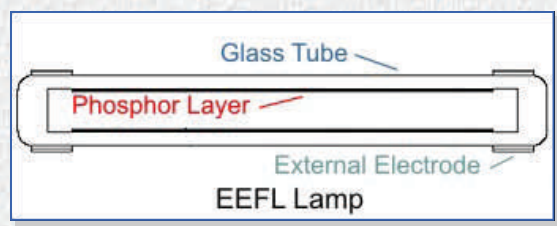
Many POS equipment manufacturers are keen to change from conventional 'T' series fluorescent lamps to EEFLs because of their low profile, durability and relative long life — it is almost a 'fit and forget' situation as the necessity to replace lamps on a regular basis will not occur.

We can currently supply EEFLs in the following sizes:

- 2.6dia. Up to 800mm long
- 3.0dia. Up to 1000mm long
- 4.0dia. Up to 1000mm long
- 8.0dia. Up to 1200mm long

If you require a diameter/length that is not a stock item the Minimum Order Quantity (MOQ) is usually only 100 pcs.

Due to the construction of the EEFL it is possible to achieve an operating life in excess of 50,000 hrs. EEFL development kits using 5, 10 or 15 EEFLs are available from Visualux — please contact us for more details.



12vDC and VAC inverters are available for powering EEFLs.

Accessories

High quality Silicon Rubber coated High Voltage Wire for CCFLs

Rated up to 3KV DC at 150° C.
22 AWG (22/0.14).
Nominal O/D 1.65mm.
50m and 610m rolls available.
Standard colour: White - Others colours available to order.

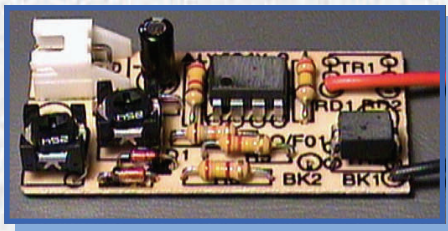
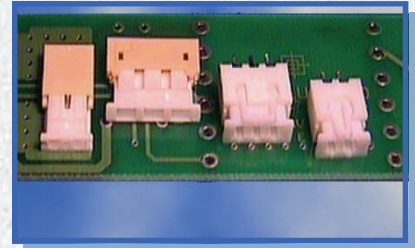


End Caps (for CCFLs)

Silicon Rubber protective end caps available for 2.6, 3.0, 4.0mm Ø CCFLs.
Others sizes to special order. We also have 'heat shrink' tubing available.

Cable and PCB connectors

A variety of connectors are available for the H.V. cable and we can also supply the matching female housing for your PCBs. If you have special termination requirements please enquire !



Flashing Unit

Our 12vDC 'flasher' units have adjustments for both 'On' and 'Off', variable from approx. 0.3 - 3 seconds. These are available as single or double output models and were primarily designed for use with our CCFLs where a flashing lamp would be particularly effect on a 'point of sale' display. Our 'flasher' units can also be used on other devices that use a 12vDC input power source.