



# **E-Textiles Catalogue 2013**

Electron Electronics

11 Kiln Lane

Brockham

Betchworth

Surrey

RH3 7LX

TEL 01737 841568

FAX 01737 841608

EMAIL [sales@electronelec.co.uk](mailto:sales@electronelec.co.uk)

WEB [www.electronelec.co.uk](http://www.electronelec.co.uk)

# E TEXTILES

## **PRICES:**

All prices are exclusive of V.A.T. which will be charged at the current rate. We reserve the right to effect changes without prior notice. Prices will be those ruling on the day of despatch.

## **ORDERING:**

All orders are executed to customers exact instructions. To assist in the prompt despatch of your order please use the order code for the product, and quote your account number. All orders under £30.00 in value will be subject to a handling charge of £4.95 unless previously agreed in writing. Orders are accepted by telephone, fax, e-mail and on-line at [www.electronelec.co.uk](http://www.electronelec.co.uk)

## **DELIVERY:**

Our large stocks offer prompt despatch of many of the products listed in this catalogue. Delivery will be made by first class post, or by an overnight courier offering next day UK delivery.

## **ORDER CANCELLATION:**

Cancellation of an order can only be accepted after prior negotiation and agreement. On no account can cancellation be accepted for items specially ordered on a customers behalf.

## **PAYMENT:**

1. Cash with order. Please add V.A.T. to the total including any handling charges. Please ensure that all cheques are made payable to ELECTRON ELECTRONICS.
2. By credit/debit card with online orders only.
3. Credit terms are available to trade customers. Please supply a bankers reference and two trade references. Educational establishments have automatic account facilities. Payment is strictly nett due on the last day of the month following the month of invoice.
4. The property in the goods sold does not pass to the buyer until ELECTRON ELECTRONICS has received payment in full for the goods.

## **GUARANTEE:**

All goods supplied by ELECTRON ELECTRONICS are brand new and are fully guaranteed by the manufacturer whose conditions shall prevail. Goods which can be proved to be faulty may be returned for inspection provided our sales desk has been notified first for authorisation. Please enclose with the goods a returns note stating the invoice no. , the date of purchase and the nature of the fault. All faulty goods must be returned in their original packaging, and sent securely packed, as no responsibility can be accepted for damage to goods that have been badly packed. All returns must be sent carriage paid. Unless stated all goods are guaranteed for twelve months from date of invoice. All software programs are supplied on the strict understanding that ELECTRON ELECTRONICS does not guarantee the intellectual contents to be free from any errors or omissions. The software manufacturer must be contacted if any problems occur. At all times it is the customers responsibility to register any enclosed guarantee documentation with the manufacturer concerned so as to benefit from service and technical help.

## **RETURNS:**

No returns except "under guarantee" items accepted.

## **DOCUMENTATION:**

Single invoices are supplied with the goods. A charge will be made for additional copies.

## **SHORTAGES AND DAMAGES:**

All claims for shortages and damages to goods must be notified to ELECTRON ELECTRONICS within ten days from date of invoice. Full details must be given and packaging etc retained. Any parcel delivered damaged to you should be returned.

## **LIABILITY:**

ELECTRON ELECTRONICS will not be under any liability resulting from our negligence, in respect of defects in goods supplied or for any damage or loss resulting from such defects: or for lack of information or incorrect information or from loss of revenue or any other loss.

## **CATALOGUE:**

Products offered in this catalogue may be subject to patents or other protection. Reproduction of this catalogue in part or whole without prior consent is strictly prohibited.

## **TECHNICAL ADVICE;**

All information supplied is correct to the best of our knowledge. Manufacturers data sheets are available upon request or from our web site [www.electronelec.co.uk](http://www.electronelec.co.uk) . All guarantees will not be affected by and no obligation or liability shall result from providing technical advice on any product or service offered by ELECTRON ELECTRONICS.

## **CONFIRMATION ORDERS:**

We do not require written confirmation of telephone orders. If you do send written confirmation orders, please ensure that the order is clearly marked confirmation, otherwise your order will be duplicated. You will then be responsible for settlement of the duplicated order in full.

## **LAW:**

This agreement shall be determined in all respects by the laws of England.

## **Export Orders:**

Orders placed by overseas purchasers are subject to the following additional conditions:

1. Payment must be made in advance by either credit card, bank draft or telegraphic transfer. All associated charges must be paid by the purchaser.
2. Freight and insurance is charged at cost

If placing an order from overseas please indicate method of payment. If you are E.U based please advise full VAT number when placing your order.

E and OE

# E TEXTILES

## DaisyPIC08

DaisyPIC08 is a carrier for an 8pin surface mount PIC with a 3 pin programming connector. Optional limiting resistors can be fitted to the PCB for connection to stand-alone LEDs sewn into the textiles.

Paul Gardiner

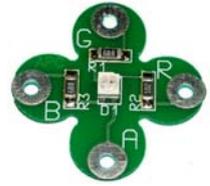


Type	Order code	Price each
DaisyPIC08 kit	525-164	£2.95
DaisyPIC08 assembled	525-164A	£3.95

## DaisyPIC Tri LED

Carrier for surface mount Tri colour (red, green and blue) LEDs and their limiting resistors. Different colours can be produced by switching on different combinations of LED.

Paul Gardiner



Type	Order code	Price each
DaisyPIC Tri LED kit	525-172	£1.15
DaisyPIC Tri LED assembled	525-172A	£1.75

## DaisyPIC20

DaisyPIC20 is a carrier for a 20pin surface mount PIC with a 3 pin programming connector. 8 output pins are buffered with darlington transistors. There is provision for 4 inputs

Paul Gardiner



Type	Order code	Price each
DaisyPIC20 kit	525-186	£3.89

## Daisy Light sensor

Carrier for surface mount light sensor

Paul Gardiner



Type	Order code	Price each
Daisy light sensor kit	525-184	£1.49
Daisy light sensor assembled	525-184A	£2.09

## Daisy push button

Carrier for surface mount tactile switch (push button).

Paul Gardiner



Type	Order code	Price each
DaisyPIC push button kit	525-174	£0.95
DaisyPIC push button assembled	525-174A	£1.45

## DaisyPIC Programming connector

To save space on PIC based projects e.g. the Digital Dice and DaisyPIC, programming connections are made with a 3 way turned pin socket. The programming connector converts the 3.5mm jack plug on the PICAXE programming



Type	Order code	Price each
DaisyPIC programming conn kit	525-168	£1.05
DaisyPIC programming conn assembled	525-168A	£1.85

## DaisyPIC LED

Carrier for surface mount 1206 style LEDs. Depending on the required options, the LED can be fitted with or without a limiting resistor.

Paul Gardiner



Type	Order code	Price each
DaisyPIC LED kit	525-170	£0.45
DaisyPIC LED assembled	525-170A	£0.95

## Daisy 3V power supply

3V power supply with on/off switch. Uses a single CR2032 coin cell supplied.

Paul Gardiner



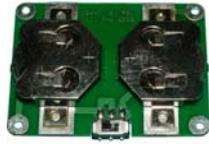
Type	Order code	Price each
Daisy 3V power supply kit	525-166	£1.15
Daisy 3V power supply assembled	525-166A	£1.75

# E TEXTILES

## Daisy 6V power supply

6V power supply with on/off switch. Uses two CR2032 coin cells.

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Type	Order code	Price each
Daisy 6V power supply kit	525-188	£1.59
Daisy 6V power supply assembled	525-188A	£2.19

## Daisy Piezo

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Type	Order code	Price each
Daisy Piezo kit	£POA	

## Conductive thread

Electrical Characteristics

The thread has a resistance of approximately 0.65 ohm / cm, or 20 ohm / foot. This is quite sufficient for, say, powering LEDs over quite large distances. Resistance does not vary significantly from one length of thread to the next as some are reported to do, so you should be able to use this thread without concern for "dead" sections.



Physical Characteristics

The thread has a breaking strain of around 9.3 pounds (4.2 kilos). It comprises roughly 96 individual filaments, each coated with a micron-thick layer of natural silver. In construction, 16 of these filaments are wound together to form an initial twist; two of these twists are then twisted together, and finally three of these twists are combined to form the finished thread.

In thread terms, it's around 18 denier. In terms understandable to me, it's a little heavier than a regular sewing thread, but not as heavy as an upholstery thread. It can be sewn on most domestic sewing machines using either a regular needle or the next size up.

This thread does not fray. As far as I can tell, there are no loose ends of filaments except where they have been cut. The filaments are very smooth, so there are no fine tendrils as you will find with a cotton thread. This used to result in a lack of cohesion in the thread, resulting in "bunching" at the needle when machine sewing; this is no longer the case.

Type	Order code	Price each
Conductive thread	525-290	£22.90

## 5mm standard LED's



Kingbright

A range of standard LED's for PCB and panel mounting. Kingbright L53 series.

### Technical specification

Type	If max.	Vf typ.	Int at Iv mcd	View angle
Red	20mA	1.7	3.2@10mA	60 deg
Green	25mA	2.2	32@10mA	60 deg
Yellow	30mA	2.1	32@10mA	60 deg
Orange	30mA	2.1	30@10mA	60 deg

Type	Order code	Price each
Red L-53HD 5mm led	530-005	£0.03
Red L-53ID 5mm Hi bright led	530-038	£0.03
Green L-53GD 5mm led	530-006	£0.03
Yellow L-53YD 5mm led	530-007	£0.03
Orange L-53ND 5mm led	530-039	£0.035

## 5mm Clear LED

Kingbright

A range of 5mm high efficiency LEDs in a water clear package. All types are colour and intensity matched.



### Technical specification

Type	If max.	Vf typ.	Int mcd	View angle
Clear Red	30mA	2.0	200@20mA	30 deg
Clr Green	25mA	2.2	150@20mA	30 deg

Type	Order code	Price each
L-53SRC-C Clear red	530-014	£0.03
L-53SGC Clear green	530-044	£0.03

# E TEXTILES

## 5mm flashing LED's



A range of 5mm diffused round LED's with an inbuilt IC to produce a continuous flash at a frequency of 3Hz. Supply voltage 9 to 12V. No series resistor required. Kingbright L-56 series.

### Technical specification

Type	If max.	Vf typ.	Int at 9v mcd	View angle
Red	38-56mA	9-12V	8	60
Green	38-56mA	9-12V	32	60
Yellow	38-56mA	9-12V	32	60
Type			Order code	Price each
L-56BHD Red 5mm F-LED			530-009	£0.14
L-56BGD Green 5mm LED			530-011	£0.14
L-56BYD Yellow 5mm LED			530-012	£0.14

## 5mm White 8000mcd LED

A white high intensity LED for PCB and panel mounting. LWH-510CWH.



### Technical specification

Type	If max.	Vf typ.	Int at lv mcd	View angle
White	20mA	3.6	8000@20mA	20 deg
Type			Order code	Price each
LWH-510CWH White 5mm led			530-022	£0.52

## 5mm Blue 2500mcd LED

A blue high intensity LED for PCB and panel mounting. Kingbright L53 series.



### Technical specification

Type	If max.	Vf typ.	Int at lv mcd	View angle
Blue	20mA	3.6	2500@20mA	20 deg
Type			Order code	Price each
Blue 5mm led			530-023	£0.21

## Kingbright

## 5mm Pink 3200mcd LED



### Technical specification

Type	If max.	Vf typ.	Int at lv mcd	View angle
Pink	20mA	3.1	3200@20mA	15 deg
Type			Order code	Price each
YCZ-513PKC 5mm pink led			530-046	£0.09

## 5mm Colour changing LED



### Technical specification

Type	If max.	Vf typ.	Int at lv mcd	View angle
Colour	30mA	4.5	R= 3000 B=2500 G=8400	30 deg
Type			Order code	Price each
5mm Colour changing/flashing led			530-048	£0.24

## Lithium coin cells



Type	Capacity	Dimensions	Volts
CR2032	210mAh	3.2 x 20mm dia	3.0

Type	Capacity	Order code	Price per battery
CR2032 GP	210mAh	100-148	£0.32
CR2032 ATC		100-144	£0.15

# E TEXTILES

## Toaster oven

A toaster oven that can be used for the soldering of surface mount components. Ideal for use in schools. The temperature can be set up to 250 deg C. Dimensions L 27.7 x W 42.5 x H 73.5 cm. Weight 9.2kg, 230 V, 50 Hz, 800 Watts.



Type	Order code	Price each
Toaster oven	170-075	£28.50

## Tweezer set

A set of 4 high quality stainless steel tweezers in a soft plastic wallet. Set consists of 1 pair straight nosed, 1 pair straight nosed-reverse action, 1 pair bent nosed and 1 pair flat nosed. All 110mm long.



Type	order code	Price each
Tweezer set	590-037	£3.39

## Solder paste

Microprint P2004 No clean solder paste for use with surface mount components. Microprint P2004 no clean is tested in accordance with J-STD-004 (Type ROL1). Type L1 (Halide 0.48%). Alloy: Sn62 Sn61.5-62.5, Ag1.8-2.2 Pb Remainder Metal %: 87% Particle Size: 20-38 Melting Point: 179 Degrees C. Packaged: 0.040Kg syringe (40g)



Type	Order code	Price each
Solder paste 40g lead free	170-180	£13.75

## Warton

## Illuminated magnifying lamp

3x magnification lens which is scratch resistant. Integral circular 22W neon tube. Mounted on a strong, flexible 32" reach extension arm with removeable table fixing clamp. On/off rocker switch fitted.



Power supply 230V AC

Type	Order code	Price each
Magnifying lamp	590-045	£37.00
Replacement bulb	590-060	£1.80

## Syringe

Disposable 3cc luer lock manual syringe is fully assembled and has calibrations to help the user gauge how much material is being dispensed



Type	Order code	Price each
3ml Syringe	170-186	£0.20

## Tapered nozzle

## Jensen



Type	Order code	Price each
24swg tapered nozzle 1.25N	170-185	£0.21