

# Vehicle Wiring Products

9 BUXTON COURT, MANNERS INDUSTRIAL ESTATE, ILKESTON,  
DERBYSHIRE, DE7 8EF.

Tel:0115 9305454 Fax:0115 9440101  
**[www.vehicleproducts.co.uk](http://www.vehicleproducts.co.uk)**  
E-mail:[sales@vehicleproducts.co.uk](mailto:sales@vehicleproducts.co.uk)



## Catalogue 2024/25

**Prices exclude VAT.**

VAT No GB 118 4824 65

© Vehicle Wiring Products Ltd 2024

No part of this publication may be reproduced without the prior permission of Vehicle Wiring Products Ltd.

**Welcome to 2024/25 catalogue.** We try to ensure that the products that we sell are of the highest quality. If you are not satisfied with a product purchased from us, a refund will be given, or the goods exchanged, if they are returned to us in the condition received within 14 days of purchase. All specifications & recommendations are given to the best of our knowledge. It is the responsibility of the user to ensure that the materials chosen are suitable for the application to which they are put. No liability is accepted for their application. All prices shown are valid at the time of printing, however we do reserve the right to increase the prices if necessary.

## How To Order

**BY INTERNET:** [www.vehicleproducts.co.uk](http://www.vehicleproducts.co.uk).

Secure online ordering. Easy to use website. Order anytime day or night.  
Payment by Credit card, Debit card, Paypal.

**BY PHONE:** **0115 9305454.** 9.00am to 4.30pm. Monday-Friday.

1. Please have your customer number ready (**found on the address label on back page**).
2. Please quote the **reference numbers** of the items being ordered where listed.
3. Please provide card details with every order because **we do not retain customers card details**.

**BY POST:** Remove and complete the order form from page 79 of the catalogue with the items required. Post it with payment or card details to: **Vehicle Wiring Products Ltd, 9 Buxton Court, Manners Industrial Estate, Ilkeston, Derbyshire, DE7 8EF.**  
Please make cheques or postal orders payable to **Vehicle Wiring Products Ltd.**  
We accept Visa & Mastercard.  
Please provide card details with every order because **we do not retain customers card details**.

**BY FAX:** **0115 9440101**

Please print clearly & include your delivery address, card details, your customer number, item reference numbers & quantities required.

## Delivery

We will normally dispatch your goods within 24 hours of receipt of your order. Goods over 2kg are usually sent by carrier (mainland) on 1 to 2 day delivery. Orders under 2Kg are sent by standard Royal Mail 2-3 day delivery.

## Delivery charges.

**UK Mainland**  
Orders under £100 (ex-vat).....**£3.95**  
Orders over £100 (ex-vat). ....**CARRIAGE FREE**

### Next Day Delivery.

Goods can be sent for next day delivery if ordered before 1pm, Monday to Thursday, for delivery Tuesday to Friday. Cost is **£9.75**

### Saturday Delivery.

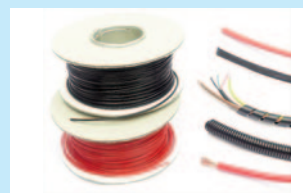
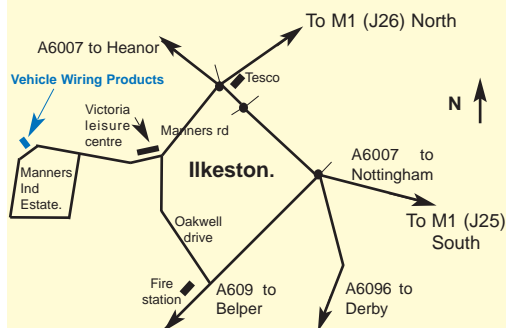
Goods can be sent via DPD on a Saturday delivery if ordered before 1pm on Friday. Cost is **£15**

**Isle of Man (IM) , Northern Ireland (BT), Channel Islands (JE and GY), Scotland Highlands AB36-AB38, AB55-56, FK17-21, HS1-9, IV1-39, IV40-51, IV55-56, IV52-54, IV63, KA27-28, KW15-17, KW1-14, PA20, PA21-40, PA41-49, PA60-78, PH19-26, PH30-41, PH42-44, PH49-50, ZE1-3**  
Orders under 2kg (Royal Mail 2-3 day delivery).....**£3.95**  
Orders over 2kg (Courier, usually DPD).....**£20.00**  
Next Day / Saturday Deliveries.....**Not Available**

## COUNTER SALES:

We can serve customers between 9am & 4.30pm  
Monday to Friday.  
Closed weekends & bank holidays.

## How to find us.



## Contents.

Full index on page 76.

**Battery terminals, leads & isolators** P12-15

**Brake parts** P62-63

**Cables** P4-6

**Cable fixings** P10,11

**Fasteners** P66-67

**Fuel pipe & fittings** P60-61

**Fuse holders & fuses** P36-42

**Lighting & bulbs** P49-55

**Motorcycle parts** P70-73

**Multi-connectors** P28-31

**Relays & sockets** P34-35

**Sleeving, tape** P7-9

**Switches & warning lamps** P44-49

**Terminals non-Insulated & crimp tools** P22-27

**Terminals pre-Insulated & crimp tools** P18-21

**Test meters** P68

# Cables

Please note, cables cut to lengths cannot be returned for refund or exchange.  
Cables cannot be supplied in fractions of a metre unless otherwise stated.



## Single Core PVC Thinwall Cable

A high performance cable. It is multi-strand copper cable which is insulated with thinner high performance hard grade PVC, which offers good resistance to abrasion and cut through. The cable also carries a higher load compared to the older type cable. Gives savings in weight and volume. Used on most new vehicles for many years.

**Ref 11. 16/0.20mm, 0.5mm<sup>2</sup>, 11amp.** <sup>1.6mm O/D</sup>  
**26p per Metre, £6.00 per 30M reel.**  
**£17.50 per 100M reel.**

Typical applications: Side & tail lights, alarms, reversing & rear fog lamps, electric aerial, horns, general wiring.

Black	Slate	Purple
Blue	Lt.Green	Red
Brown	Orange	White
Green	Pink	Yellow

**Ref 16. 32/0.20mm, 1mm<sup>2</sup>, 16.5amp.** <sup>1.95mm O/D</sup>  
**36p per Metre, £8.64 per 30M reel,**  
**£25.20 per 100M reel.**

Typical applications: Side & tail lights, alarms, reversing & rear fog lamps, electric aerial, horns, general wiring.

Black	Brown/Pink	Purple/Blue
Blue	Brown/Purple	Purple/Brown
Brown	Brown/Red	Purple/Green
Green	Brown/White	Purple/Orange
Slate	Brown/Yellow	Purple/Pink
Lt.Green	Green/Black	Purple/Red
Orange	Green/Blue	Purple/White
Pink	Green/Brown	Purple/Yellow
Purple	Green/Slate	Red/Black
Red	Green/Orange	Red/Brown
White	Green/Pink	Red/Green
Yellow	Green/Purple	Red/Slate
Azure(Lt Blue)	Green/Red	Red/Orange
Black/Blue	Green/White	Red/Pink
Black/Brown	Green/Yellow	Red/Purple
Black/Green	Slate/Black	Red/White
Black/Slate	Slate/Blue	Red/Yellow
Black/Orange	Slate/Brown	White/Black
Black/Pink	Slate/Green	White/Blue
Black/Purple	Slate/Red	White/Brown
Black/Red	Slate/White	White/Green
Black/White	Slate/Yellow	White/Slate
Black/Yellow	Lt.Green/Black	White/Orange
Blue/Black	Orange/Black	White/Pink
Blue/Brown	Orange/Blue	White/Purple
Blue/Green	Orange/Brown	White/Red
Blue/Slate	Orange/Green	White/Yellow
Blue/Orange	Orange/Slate	Yellow/Black
Blue/Pink	Orange/Pink	Yellow/Blue
Blue/Purple	Orange/Red	Yellow/Brown
Blue/Red	Orange/White	Yellow/Green
Blue/White	Orange/Yellow	Yellow/Slate
Blue/Yellow	Pink/Black	Yellow/Orange
Brown/Black	Pink/Blue	Yellow/Pink
Brown/Blue	Pink/Brown	Yellow/Purple
Brown/Green	Pink/Green	Yellow/Red
Brown/Slate	Pink/White	Yellow/White
Brown/Orange	Purple/Black	

**Ref 25. 28/0.30mm, 2mm<sup>2</sup>, 25amps.** <sup>2.55mm O/D</sup>  
**68p per Metre, £16.32 per 30M reel,**  
**£47.60 per 100M reel.**

Typical applications: Headlamps, fog & driving lamps, rear screen heater, windscreen wiper motor.

Black	Blue/Yellow	Purple/Orange
Blue	Brown/Black	Purple/Pink
Brown	Brown/Blue	Purple/Red
Green	Brown/Green	Purple/White
Slate	Brown/Pink	Red/Black
Orange	Brown/Purple	Red/Blue
Pink	Brown/Red	Red/Brown
Purple	Brown/White	Red/Green
Red	Brown/Yellow	Red/White
White	Green/Black	Red/Yellow
Yellow	Green/Brown	White/Black
Black/Blue	Green/Purple	White/Blue
Black/Slate	Green/Red	White/Brown
Black/Pink	Green/White	White/Green
Black/Purple	Green/Yellow	White/Slate
Black/Red	Slate/Blue	White/Orange
Black/White	Orange/Black	White/Purple
Black/Yellow	Pink/Black	White/Red
Blue/Green	Purple/Black	White/Yellow
Blue/Red	Purple/Brown	Yellow/Red
Blue/White	Purple/Slate	Yellow/White

**Ref 33. 44/0.30mm, 3mm<sup>2</sup>, 33amps.** <sup>3.2mm O/D</sup>  
**£1.03 per M. £24.72 per 30M reel,**  
**£72.10 per 100M reel.**

Typical applications: Charging cable for battery feed & ammeter.

Black	Purple	Brown/Green
Blue	Red	Red/Yellow
Brown	White	White/Blue
Green	Yellow	White/Green
Orange	Brown/Blue	White/Red

**Ref 39. 56/0.30mm, 4mm<sup>2</sup>, 39amps.** <sup>3.5mm O/D</sup>  
**£1.22 per M. £27.45 per 30M reel.**  
**£85.40 per 100M reel.**

Typical applications: Charging cable for battery feed & ammeter.

Black	Red	Yellow
Brown	White	

**Ref 50. 84/0.30mm, 6mm<sup>2</sup>, 50amps.** <sup>4.1mm O/D</sup>  
**£1.84 per M. £41.40 per 30M reel.**

Typical applications: For dynamo, alternator & ammeter circuits.

Black	Brown	Red
-------	-------	-----

# Cables

Thinwall cable continued.

**Ref 57. 97/0.30mm, 7mm<sup>2</sup>, 57amp.** <sup>5.05mm O/D</sup>  
**£2.24 per M. £50.40 per 30M reel.**

Typical applications: For heavy duty alternator & ammeter circuits.

Black	Brown	Red
-------	-------	-----

**Ref 63. 120/0.30mm, 8.5mm<sup>2</sup>, 63amp.** <sup>5.5mm O/D</sup>  
**£2.64 per M. £59.40 per 30M reel.**

Typical applications: Charging cable for heavy duty alternator & ammeter circuits.

Black	Brown	Red
-------	-------	-----

**Ref 70. 80/0.40mm, 10mm<sup>2</sup>, 70amp.** <sup>5.6mm O/D</sup>  
**£3.01 per M. £67.73 per 30M reel.**

Typical applications: Charging cable for heavy duty alternator & ammeter circuits.

Black	Brown	Red
-------	-------	-----

## Tinned Single Core PVC thin-wall Cable



The tinned copper conductors make this cable more resistant to corrosion. Use in the automotive, marine and other harsh environments.

**Ref CM1.5 21/0.30mm, 1.5mm<sup>2</sup>, 21amps.** <sup>2.4mm O/D</sup>  
**65p per M. £24.38 per 50M reel.**

Black	Brown	Blue
Green	Red	Yellow

**Ref CM2.5 35/0.30mm, 2.5mm<sup>2</sup>, 29amps.** <sup>3mm O/D</sup>  
**99p per M. £37.13 per 50M reel.**

Black	Brown	Blue
Green	Red	Yellow

**Ref CM4 56/0.30mm, 4mm<sup>2</sup>, 39amps.** <sup>3.7mm O/D</sup>  
**£1.48 per M. £33.30 per 30M reel.**

Black	Red
-------	-----

**Ref CM6 84/0.30mm, 6mm<sup>2</sup>, 50amps.** <sup>4.3mm O/D</sup>  
**£2.23 per M. £50.18 per 30M reel.**

Black	Red
-------	-----

**Ref CM10 80/0.40mm, 10mm<sup>2</sup>, 70amps.** <sup>6mm O/D</sup>  
**£3.67 per M. £82.58 per 30M reel.**

Black	Red
-------	-----

## Single Core PVC Cable



Conductors of stranded copper wire, insulated with PVC. This type of cable was used on older vehicles but is superseded by the higher performance thinwall cable.

**Ref 14. 14/0.30mm, 1mm<sup>2</sup>, 8.75amp.** <sup>2.7mm O/D</sup>  
**44p per M. £17.60 per 50M reel.**

Typical applications: Side & tail lights, alarms, reversing & rear fog lamps, electric aerial, horns, general wiring.

Black	Slate	Purple
Blue	Light Green	Red
Brown	Orange	White
Green	Pink	Yellow

**Ref 28. 28/0.30mm, 2mm<sup>2</sup>, 17.5amp.** <sup>3.4mm O/D</sup>  
**77p per M. £30.80 per 50M reel.**

Typical applications: Headlamps, fog & driving lamps, rear screen heater, windscreen wiper motor.

Black	Brown	Slate
Blue	Green	

**Ref 44. 44/0.30mm, 3mm<sup>2</sup>, 27.5amp.** <sup>4.2mm O/D</sup>  
**£1.20 per M. £48.00 per 50M reel.**

Typical applications: Charging cable for battery feed & ammeter.

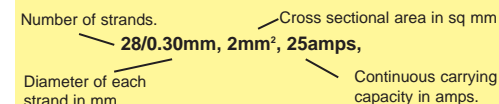
Black	Brown
Blue	Red

**Ref 65. 65/0.30mm, 4.5mm<sup>2</sup>, 35amp.** <sup>5.1mm O/D</sup>  
**£1.78 per M. £42.72 per 30M reel.**

Typical applications: Charging cable for alternator & ammeter.

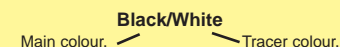
Black	Brown	Red
-------	-------	-----

**General notes on cables.** All cables are made up of a number of strands. Generally these strands are 0.20mm or 0.30mm diameter. In our list for each cable we also give the cross sectional area in sq mm, and the continuous carrying capacity in amps. The breakdown of a cable specification is as follows:



The following equation may prove useful to work out a cable size required. Watts /Volts = Amps

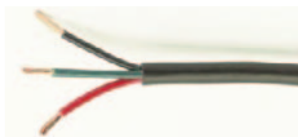
**Coloured cables.** When two colours are given, the first colour is the main colour, the second colour is the 'tracer' (usually two thin traces of colour which run straight down the cable).





# Cables multicore & battery.

## Multicore Cable



Comprise a number of single thinwall cables sheathed in black PVC sleeving.

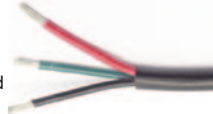
Ref.	Cable spec	Amps	O/D	M.	30M
CM211	2 x 0.5mm <sup>2</sup>	11	5mm	93p	£20.93
CM216	2 x 1.0mm <sup>2</sup>	16	5.5mm	£1.14	£25.65
CM225	2 x 2.0mm <sup>2</sup>	25	7mm	£1.75	£42.00
CM233	2 x 3.0mm <sup>2</sup>	33	4x7mm	£2.53	£60.72
CM242	2 x 4.5mm <sup>2</sup>	42	6x9mm	£3.24	£72.90
CM316	3 x 1.0mm <sup>2</sup>	16	5.5mm	£1.55	£37.20
CM325	3 x 2.0mm <sup>2</sup>	25	7.5mm	£2.66	£63.84
CM414	4 x 1.0mm <sup>2</sup>	16	6mm	£1.94	£46.56
CM514	5 x 0.75mm <sup>2</sup>	14	7mm	£1.91	£45.84

Note: inner colours cannot be selected.

All cables are round except CM233 & CM242. These are flat.

## Tinned multicore cable

Available in 2 core & 3 core, with black outer sleeving (round). 2 core has black and red inner cables, 3 core has black, red and green inner cables.



Ref.	Cable spec	Amps	O/D	M.	30M
TM221	2 x 1.5mm <sup>2</sup>	21	6.4mm	£1.53	£34.43
TM229	2 x 2.5mm <sup>2</sup>	29	6.7mm	£2.23	£50.18
TM321	3 x 1.5mm <sup>2</sup>	21	6.1mm	£2.18	£49.05
TM329	3 x 2.5mm <sup>2</sup>	29	7.4mm	£3.30	£74.25

## Speaker Cable



Twin flat cables suitable for wiring speaker systems in vehicles and in the home.

Ref.	Cable spec	Amps	O/D	M.	100M
SF6	2 x 0.75mm <sup>2</sup>	6	4.3 X 2.1	83p	£62.25
SF10	2 x 1mm <sup>2</sup>	10	4.7 X 2.3	96p	£72.00

## Trailer Cable

Note: inner colours are standard trailer colours.



Ref.	Cable.	O/D	M.
TC7	7-core, 6 x 1mm <sup>2</sup> + 1 x 2mm <sup>2</sup>	8.3mm	£2.92
TC8	8-core, 7 x 1mm <sup>2</sup> + 1 x 2mm <sup>2</sup>	8.8mm	£4.79
TC10	10-core, 9 x 1mm <sup>2</sup> + 1 x 2mm <sup>2</sup>	11mm	£5.86
TC13	13-core, 8 x 1.5mm <sup>2</sup> + 5 x 2.5mm <sup>2</sup>	13mm	£12.07

## Battery & Starter Cable



Black or Red

Note: o/d includes insulation.

Single insulated battery/starter cables. Plain copper conductors. PVC insulated -15°C to 70°C

Ref.	Cable.	mm <sup>2</sup> .	O/D	Amps	M.
126	126/0.40	16	7.3mm	110	£4.22
196	196/0.40	25	9.7mm	170	£6.12
315	315/0.40	40	12.2mm	300	£10.18
475	475/0.40	60	14.6mm	415	£16.39

## Tinned Battery & Starter Cable

The tinned copper conductors make this cable more resistant to corrosion. Use in the automotive, marine and other harsh environments.



Black or Red

Ref.	Cable.	mm <sup>2</sup> .	O/D	Amps	M.
CM16	203/0.30	16	8.3mm	110	£5.85
CM25	322/0.30	25	10.1mm	170	£8.90
CM35	455/0.30	35	11.8mm	240	£12.57
CM50	637/0.30	50	13.3mm	345	£17.81

## Earthing Braid

Tinned copper conductors



Ref.	Cable.	mm <sup>2</sup> .	O/D	Amps	M.
1616	16x16x0.30	19	7.2mm	130	£10.81
1632	32x16x0.30	37	11.1mm	260	£20.39

## Welding Cable



Very high flexibility cables. Made from hundreds of copper strands. Max 600 Volt. Sheathed with soft Black PVC.

Ref.	Cable.	mm <sup>2</sup> .	Amps.	O/D	M.
306	204/0.30	16	110	8.0mm	£4.01
680	444/0.30	35	240	12.0mm	£7.87

## HT Cable

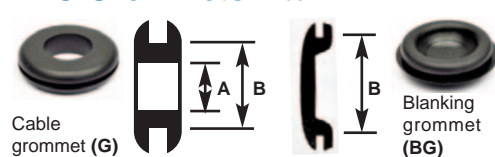
7mm O/D



Ref.	Core & insulation.	Colour.	M.	30M.
HTCB	Copper, PVC	Black	£1.46	£35.04
HTCR	Copper, PVC	Red	£1.46	£35.04
CHTC	Copper, PVC/Cloth	Yellow	£3.75	
HTSILB	Carbon, Silicone	Black	£2.58	£61.92

# Grommets, tape & cable markers

## PVC Grommets Black.



Cable grommet (G)

Blanking grommet (BG)

Ref.	A.	B.	Price/qty	(50)
G6	4mm	6.4mm	£1.00(10)	£3.00
G8	5.6mm	7.9mm	£1.00(10)	£3.00
G10	8mm	9.5mm	£1.00(10)	£3.38
G12	8mm	12.7mm	£1.20(10)	£4.50
G16	11mm	14mm	£1.70(10)	£6.38
G20	12mm	19mm	£2.90(10)	£10.88
G25	19mm	25mm	26p(ea)	£9.75
G32	24mm	32mm	42p(ea)	£15.75
G38	32mm	38mm	49p(ea)	£18.38
G50	44mm	50mm	£1.05(ea)	£39.38
BG6		6.4mm	£1.00(10)	£3.50
BG8		8mm	£1.00(10)	£3.50
BG10		9.5mm	£1.00(10)	£3.50
BG12		12.7mm	15p ea	£5.25
BG16		16mm	15p ea	£5.63
BG20		20mm	23p ea	£8.63
BG25		25mm	27p ea	£10.13
BG32		32mm	54p(ea)	£20.25
BG38		38mm	53p(ea)	£19.88
BG50		50mm	62p(ea)	£23.25

\*25% off 1000 grommets in one size\*

## Cable Grommet Pack.

Contains 25 cable grommets.

4mm-11mm (dim A)

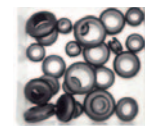
Ref: MCS312 £2.43

## Blanking Grommet Pack.

Contains 25 blanking grommets.

6.4mm-16mm (dim B)

Ref: MCS314 £2.91



**Cable Grommet Kit** 250 assorted black PVC cable grommets in

8 sizes G6-G32

Ref: CGK £28.32

**Cable & Blanking Grommet kit.** 250 assorted black PVC cable & blanking grommets in sizes

G6-G32 & BG6-BG32 Ref: CBK £29.74

## Tape



### PVC Tape, Adhesive

19mm x 20M.

Ref: TAB Black, TAU Blue, TAR Red,

£1.36 ea, £10.20(10)

### PVC Tape, Non-Adhesive

Colour: Black.

Used in the manufacture of harnesses. Stretch slightly as it is wrapped around the cables & the tape will grip on itself.

Ref: TNA19 19mm x 40M £2.84 ea, £21.26(10)



### Cloth Tape, Adhesive

Colour: Black.

Rayon cloth harnessing tape.

Not self extinguishing. 19mm x 25M

Ref: 3370 £4.44 ea, £39.96(10)



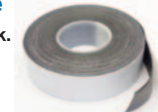
### PIB Self Amalgamating Tape (Polyisobutylene). Colour Black.

Used for waterproofing cable joints, connections and many other waterproofing applications.

PIB tape when wrapped onto itself will amalgamate to create a complete water seal. Conformable, easy to apply.

Good electrical properties. 25mm x 10M.

Ref: PIB £8.10 ea, £72.90(10)



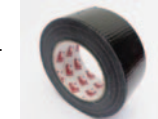
### Tank Tape Colour: Black

Extremely strong waterproof cloth tape.

Excellent waterproofing properties.

Many uses. 50mm x 50M

Ref: 1745B £4.46 ea, £40.14(10)



## Thread on Plastic Cable Markers

For cable identification.

To fit cables 0.65mm<sup>2</sup> - 3mm<sup>2</sup>

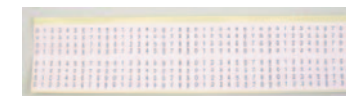
Cable o/d 2-5mm. Pack of 200

assorted numbers 0-9.

Ref: CM £6.84



## Self Adhesive Cable Markers



Sheet of 80 assorted self adhesive wrap around cable markers (numbers 0-9).

Ref: WM1J £1.54



## Cable Puller

5 metre long flexible nylon cord for pulling cables through lengths of sleeving.

Ref: GPN3 £10.04





# Sleeving.

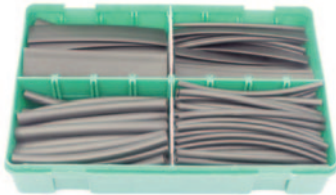
## Heat Shrink Sleeving Polyolefin.

Can be used to provide permanent insulation over terminals, connections and wiring. Will shrink down to half its original diameter. Shrink temperature 110°C-200°C.

Good resistance against chemicals.  
Operating temperature range -50°C to +125°C.  
Supplied in 1 metre lengths.  
**Colours:Black,Red.**

Ref.	Bore.	1M.
HS2	2.4mm	<b>62p</b>
HS3	3.2mm	<b>62p</b>
HS4	4.8mm	<b>71p</b>
HS6	6.4mm	<b>81p</b>
HS9	9.5mm	<b>£1.00</b>
HS12	12.7mm	<b>£1.27</b>
HS19	19.0mm	<b>£1.99</b>
HS25	25.4mm	<b>£2.51</b>
HS38	38.0mm	<b>£4.60</b>

## Heat Shrink Sleeving Kits.



Contains approx 10M of black heat shrink sleeving, supplied in 100mm lengths in six sizes (2, 3, 4, 6, 9, 12mm). All in a tough plastic case.

**Ref:HSKB £16.34**



### Heat Shrink Kit with Gas Shrink Tool.

Kit contains 65 x 100mm pieces of heat shrink in sizes 2 - 9mm. Gas powered shrink tool with variable output. Uses standard butane gas (not supplied).

Contained in a tough storage box. **Ref: HSGTK £27.40**

## Adhesive Lined Polyolefin heat shrink sleeving

Heat shrink sleeving with an adhesive liner that melts when heated to fill crevices. When cooled the tube forms a tough rigid homogeneous covering. Gives a permanent waterproof encapsulation. Shrinks down to 1/3 its original diameter. Self extinguishing. Supplied in 1220mm lengths only. **Colour: Black**

Ref.	Bore.	1220mm.
LHS3	3.2mm	<b>£2.56</b>
LHS6	6.4mm	<b>£3.53</b>
LHS9	9.5mm	<b>£4.45</b>
LHS12	12.7mm	<b>£5.20</b>
LHS19	19mm	<b>£7.05</b>

## PVC Sleeving



For covering and protecting cables. Good resistance to oil, water and diluted acid. Temperature rating -20 to +70 °C. 'Cables' in the table refers to the approx number of 1mm² thinwall cables that will fit into the sleeve. **Colour: Black**

Ref.	Bore	Wall	Cables	M.	£(QTY)
S4	4mm	0.5mm	2	<b>26p</b>	<b>£19.50 (100)</b>
S6	6mm	0.5mm	4	<b>31p</b>	<b>£23.25 (100)</b>
S8	8mm	0.5mm	8	<b>37p</b>	<b>£27.75 (100)</b>
S10	10mm	0.5mm	12	<b>45p</b>	<b>£33.75 (100)</b>
S12	12mm	0.5mm	16	<b>73p</b>	<b>£54.75 (100)</b>
S14	14mm	0.75mm	20	<b>82p</b>	<b>£61.50 (100)</b>
S16	16mm	0.75mm	25	<b>92p</b>	<b>£69.00 (100)</b>
S20	20mm	1mm	32	<b>£1.35</b>	<b>£50.63 (50)</b>
S25	25mm	1mm	40	<b>£1.52</b>	<b>£57.00 (50)</b>

## Woven Heat Shrink Sleeving



Flexible heatshrinkable fabric. Designed to provide mechanical abrasion protection plus noise and rattle suppression. Will shrink down to half its original diameter. **Colour: Black.**

Ref.	Bore.	1M
FFRS12	12mm	<b>£3.10</b>
FFRS20	20mm	<b>£3.84</b>
FFRS30	30mm	<b>£4.14</b>

## Butane Blow Torch

Butane blow torch for low temperature soldering & for use on heat shrink sleeving & heat-seal terminals. Refillable from standard butane gas lighter filler (not supplied).

**Ref: 45099 £22.98**



# Sleeving.

## Spiral Binding



Rapid method of bundling cables 'in situ'. Grips firmly by spring memory of the plastic. **Colour: Black.**

Ref.	Bore.	Bundle dia.	M.	25M.
SB3B	3mm	3-8mm	<b>73p</b>	<b>£13.69</b>
SB6B	6mm	5-25mm	<b>87p</b>	<b>£16.31</b>
SB12B	12mm	10-50mm	<b>£1.06</b>	<b>£19.88</b>

## Braided Sleeving



Offers superior protection against abrasion. Ends should be melted with a hot iron or covered with a piece of heat shrink sleeving to prevent unravelling. **Black Polyester**

Ref.	Bore.	Fits.	M.	100M
BS6B	6mm	5-7mm	<b>£1.03</b>	<b>£77.25</b>
BS8B	8mm	6-9mm	<b>£1.04</b>	<b>£78.00</b>
BS10B	10mm	8-12mm	<b>£1.22</b>	<b>£91.50</b>
BS12B	12mm	10-14mm	<b>£1.47</b>	<b>£110.25</b>

## Twistwrap Sleeving



Black polyester woven braid, with a memory which makes the material wrap around on itself. Can be opened out to fit around cables then will spring back to its original circular form to cover the cables. Very flexible and easy to use. To cover harness cables with easy access for cables along route. Wraps around approx 1 1/2 times the diameter.

Ref.	Bore.	M.	£(qty)
TW5	5mm	<b>£1.38</b>	<b>£51.75(50M)</b>
TW8	8mm	<b>£1.63</b>	<b>£61.13(50M)</b>
TW13	13mm	<b>£1.67</b>	<b>£62.63(50M)</b>
TW16	16mm	<b>£2.75</b>	<b>£65.63(25M)</b>

## Heat Resistant Sleeving

Manufactured in fibreglass with acrylic coating.

Protects cables against heat up to 155°C and against abrasion to class F. Unaffected by oil or petrol. **Colour: Black.**



Ref.	Bore.	M.
33440	4mm	<b>£1.34</b>
33460	6mm	<b>£1.53</b>
33480	8mm	<b>£1.97</b>
33520	12mm	<b>£2.50</b>

## Flexible Convuluted Tubing



**Colour: Black**

Manufactured from nylon, offering high strength and flexibility. Good abrasion resistance. Available with or without a slit down the length which enables fitting in-situ, the 'spring' in the material closes the slit after fitting, protecting the cables. (Ref 'F' for not slit, ref 'SF' for slit).

Ref.	Bore.	O/D.	M.	£(QTY)
F7	7mm	11mm	<b>71p</b>	<b>£53.25 (100)</b>
F11	11.5mm	15mm	<b>96p</b>	<b>£72.00 (100)</b>
F16	16.5mm	21mm	<b>£1.41</b>	<b>£105.75 (100)</b>
F23	23.5mm	28mm	<b>£1.96</b>	<b>£73.50 (50)</b>
Ref(slit)	Bore.	O/D.	M.	£(QTY)
SF7	7mm	11mm	<b>83p</b>	<b>£62.25 (100)</b>
SF11	11.5mm	15mm	<b>£1.02</b>	<b>£76.50 (100)</b>
SF16	16.5mm	21mm	<b>£1.50</b>	<b>£112.57 (100)</b>
SF19	19.5mm	24mm	<b>£1.63</b>	<b>£61.13 (50)</b>
SF23	23.5mm	28mm	<b>£2.11</b>	<b>£82.00 (50)</b>

## Fittings for Convuluted Tube

Enable complete protection of the vehicle wiring system. Temperature range -40 to +120°C.

End fittings are for fixing to bulkheads.

**Material: black nylon.**

Not suitable for slit tube.



	End fitting.		Tee piece.	
To fit.	Ref.	Ea.	Ref.	Ea.
F7	CA07	<b>£3.72</b>	T07	<b>£6.60</b>
F11	CA13	<b>£3.72</b>	T13	<b>£11.46</b>
F16	CA16	<b>£3.72</b>	T16	<b>£10.38</b>
F23	CA23	<b>£5.44</b>	T23	<b>£14.46</b>

## Edge Protection Beading.



1. Fits panel thickness 0.8mm-1.6mm O/D 5mm.  
**Ref: PSI 94p per M. £52.88 per 75M.**

2. Fits panel thickness 2.0mm-3.0mm. O/D 7x6mm  
**Ref: RA1 £1.53 per M.**

# Cable ties & fixings.

## Cable Tie Mounts

Self adhesive cable tie bases, with a hole for screw fixing if required. **Material: Black Nylon.**

Ref.	Max tie.	(10)	(50)
SABSB	3.6mm	15p	£3.75
SABLB	4.8mm	15p	£5.63

Screw Fixing Cable tie bases. **Material: Black Nylon.**

Ref.	Max tie.	(10)	(50)
CTEB	4.8mm	15p	£4.47
CTCB	7.8mm	16p	£5.64

Pushfit Cable Tie Mount.

Fits 6mm hole. **Material: white Nylon.**

Ref.	Max tie.	(10)	(100)
PUM1	7.8mm	31p	£23.25

## Cable Tie and Fitting Kit



Kit containing 100 each of 100, 140 & 200mm cable ties and a selection of 160 cable tie mountings in screw, push fit and self adhesive types. Handy for all wiring loom assemblies, supplied in a tough storage case. **Ref: CTFK £23.12**

## Foam Rubber Strip

Closed cell, self adhesive, black. Ideal for isolating from vibration, or where extra padding is required.

Note: closed cell foam rubber will not absorb water.

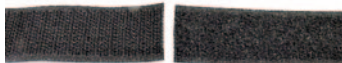
Ref.	Width.	Thick.	M.	Reel.
FRS	50mm	3mm	£2.88	£55.20(25M)
FRS6	50mm	6mm	£4.10	£38.24(12M)

## Self Adhesive Velcro Tape

Hook tape. **Ref:VC441 £1.73(M)**

Loop tape. **Ref:VC442 £1.65(M)**

25mm wide.



## Cable Ties Black Nylon



**25% discount when you buy 1000 in one size.**

Ref.	Length.	Width.	(10)	£(qty)
CT100B	100mm	2.5mm	-	£1.00 (100)
CT140B	140mm	3.6mm	-	£2.25 (100)
CT160B	160mm	2.5mm	-	£2.25 (100)
CT200B	200mm	4.8mm	-	£3.00 (100)
CT20076B	200mm	7.6mm	-	£10.50 (100)
CT300B	300mm	4.8mm	-	£3.75 (100)
CT30076B	300mm	7.6mm	-	£13.50 (100)
CT360B	360mm	4.8mm	-	£6.00 (100)
CT370B	370mm	7.6mm	£1.50	£11.25 (100)
CT430B	430mm	4.8mm	£1.50	£11.25 (100)
CT530B	530mm	9mm	£3.20	£24.00 (100)

**Releasable ties.** These ties have a releasing latch to unfasten the tie. Colour:Black.

CT200RB	200mm	7.6mm	£1.50	£11.25 (100)
CT300RB	300mm	4.8mm	£2.50	£18.75 (100)

## Coloured Cable Tie Pack

350 assorted cable ties in White, Black, Blue, Red & Yellow in sizes 100x2.5, 200x3.2 & 280x4.8mm

**Ref:DB350 £9.68**



## Cable Tie Pack

Contains 75 assorted black cable ties, in sizes: (mm) 100x2.5, 140x3.6, 200x4.8.

**Ref:BP75 £6.91**



## Stainless Steel Cable Ties

Secure fixing. Ideal for cv joint boot



Ref.	Length.	Width.	Ea.	(50)
E407	210mm	4.6mm	48p	£20.00
E408	360mm	4.6mm	54p	£22.50

## Rubber Cable Ties

As used on classic British motorcycles. 100mm long. Supplied in a pack of 5.

**Ref: RCT4 £2.20**



## Double Sided Adhesive Foam Tape

General purpose industrial standard. Suitable for interior or exterior use. 12mm wide x 10 metre roll.

**Ref: VC402 £6.78**



# Cable clips.

## 'P' Clips Black Nylon



Ref.	Dia.	(10)	(50)
X1	4.8mm	£1.00	£2.25
X2	6.4mm	£1.00	£3.00
X3	8mm	£1.00	£3.00
X4	10mm	£1.00	£3.75
X6	12.7mm	£1.20	£4.50
X8	14-16mm	£1.96	£7.35
X11	17-20mm	£1.52	£5.70
X14	22-25mm	£1.82	£6.84

## 'P'Clip Kit

**Black nylon.**

An assortment of 230 black nylon cable clips in sizes X1-X8. In a handy plastic partitioned case.

**Ref:XK £23.66**



## 'P'Clips Solid brass

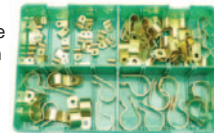
Ref.	Dia.	Hole	Ea.	(25)
00266	5mm	3.2mm	69p	£14.32
00267	10mm	4.2mm	88p	£18.26
00263	15mm	5.0mm	£1.14	£23.66
00264	20mm	6.4mm	£1.11	£23.05



**Solid Brass P-Clip Kit.**

Contains 80 assorted clips in the sizes as listed above. In a tough partitioned case with removable compartments.

**Ref: BPCK £55.14**



## 'P'Clips Steel



Bright zinc plated mild steel. Lined with synthetic rubber. Provides firm support with protection from vibration & chafing. Stud hole is 6mm.

Ref.	Dia.	Ea.	(10)
191667	5mm	32p	£2.63
190899	6mm	38p	£3.16
190900	8mm	38p	£3.16
190901	10mm	40p	£3.38
190902	11mm	40p	£3.38
190903	13mm	64p	£5.31
190904	14mm	54p	£4.48
190905	16mm	56p	£4.70
190906	18mm	66p	£5.48
190907	19mm	82p	£6.81
191668	21mm	69p	£5.73
190908	22mm	69p	£5.73
191669	24mm	82p	£6.85
190909	25mm	82p	£6.85
191417	29mm	98p	£8.15

## P'Clip Kit Steel

An assortment of 100 steel cable clips as above in sizes 5mm-18mm, plus 25mm dia. Contained in a tough partitioned plastic case with carry handle.

**Ref:SPCK £39.84**



## 'P'Clips Stainless Steel

Ref.	Dia.	Ea.	(10)
RSG5	5mm	69p	£6.22
RSG6	6mm	71p	£6.41
RSG8	8mm	71p	£6.41
RSG10	10mm	77p	£6.97
RSG12	12mm	78p	£7.02
RSG16	16mm	79p	£7.07
RSG18	18mm	82p	£7.38
RSG22	22mm	87p	£7.83
RSG25	25mm	89p	£8.01



Stainless steel, lined with synthetic rubber. Provides firm support with protection from vibration & chafing. Stud hole is 6.4mm.

## 'P' Clip Kit

**Stainless steel**

100 assorted stainless steel cable clips in all sizes, in tough partitioned case with carry handle.

**Ref:SSPK £65.00**



## Ally Sticky Clips

Self adhesive base. **Aluminium**

Ref.	Max dia.	(10)	(50)
SCS	6mm	£1.80	£6.75
SCL	10mm	£2.30	£8.63



## Mounting Clips

Self adhesive. Enable cables to be rapidly fixed or removed. **Nylon.**

Ref.	B.	(10)	(100)
MCS	5mm	19p	£14.25
MCM	8mm	25p	£18.75



## Cable Clamps

Self adhesive with releasable snap locks & a 4mm mounting hole.

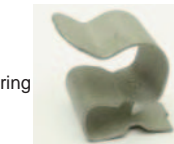
Ref.	Dia.	(10)	(100)
4J	6mm	30p	£24.90
6J	9mm	31p	£25.73
8J	12mm	35p	£29.05
11J	16mm	43p	£35.69



## Chassis Clips

Plated steel clips suitable for securing cables or conduit along chassis members or steel support frames.

Ref.	Fits panel.	Dia.	Ea.	(25)
CC20	4-7mm	6-7mm	83p	£17.22
CC21	4-7mm	8-9mm	83p	£17.22
CC22	4-7mm	10-11mm	89p	£18.47
CC23	4-7mm	12-14mm	89p	£18.47
CC30	2-4mm	6-7mm	83p	£17.22
CC31	2-4mm	8-9mm	83p	£17.22
CC32	2-4mm	10-11mm	89p	£18.47
CC33	2-4mm	12-14mm	89p	£18.47





# Battery connectors & clamps

## Copper Tube Terminals

Tin plated copper tube terminals. Can be crimped/soldered.



Ref.	Hole.	Cable size.*	Ea.	Ten.
CTT10/6	6mm	10mm <sup>2</sup>	57p	£4.28
CTT10/8	8mm	10mm <sup>2</sup>	57p	£4.28
CTT10/10	10mm	10mm <sup>2</sup>	57p	£4.28
CTT10/12	12mm	10mm <sup>2</sup>	57p	£4.28
CTT16/6	6mm	16mm <sup>2</sup>	70p	£5.25
CTT16/8	8mm	16mm <sup>2</sup>	70p	£5.25
CTT16/10	10mm	16mm <sup>2</sup>	70p	£5.25
CTT16/12	12mm	16mm <sup>2</sup>	70p	£5.25
CTT25/6	6mm	25mm <sup>2</sup>	£1	£7.50
CTT25/8	8mm	25mm <sup>2</sup>	£1	£7.50
CTT25/10	10mm	25mm <sup>2</sup>	£1	£7.50
CTT25/12	12mm	25mm <sup>2</sup>	£1	£7.50
CTT35/6	6mm	35mm <sup>2</sup>	£1.07	£8.03
CTT35/8	8mm	35mm <sup>2</sup>	£1.07	£8.03
CTT35/10	10mm	35mm <sup>2</sup>	£1.07	£8.03
CTT35/12	12mm	35mm <sup>2</sup>	£1.07	£8.03
CTT50/6	6mm	40-50mm <sup>2</sup>	£1.25	£9.38
CTT50/8	8mm	40-50mm <sup>2</sup>	£1.25	£9.38
CTT50/10	10mm	40-50mm <sup>2</sup>	£1.25	£9.38
CTT50/12	12mm	40-50mm <sup>2</sup>	£1.25	£9.38
CTT70/8	8mm	60-70mm <sup>2</sup>	£1.52	£11.40
CTT70/10	10mm	60-70mm <sup>2</sup>	£1.52	£11.40
CTT70/12	12mm	60-70mm <sup>2</sup>	£1.52	£11.40

Cable size refers to the cable conductor size that will fit into the terminal, e.g. CTT16 will fit 16mm battery cable<sup>2</sup>. (See page 8 for battery and starter cable)

## PVC Cover for copper tube terminals.

### Covers for CTT16-25

Black: AC4B Red: AC4R  
£2.45 ea, £122.12 (10)



### Covers for CTT35-50

Black: AC5B Red: AC5R  
£1.78 ea, £16.02 (10)



### Covers for CTT70

Black: RS312B Red: RS312R  
89p ea, £7.40 (10)



## Copper Tube Ring Terminals

Ref.	Hole.	Cable .	Ea. (25).
T14-6	6mm	10-16mm <sup>2</sup>	54p £10.13
T14-8	8mm	10-16mm <sup>2</sup>	64p £12.00
T14-10	10mm	10-16mm <sup>2</sup>	69p £12.94
T22-6	6mm	16-25mm <sup>2</sup>	73p £13.69
T22-8	8mm	16-25mm <sup>2</sup>	88p £16.50
T22-10	10mm	16-25mm <sup>2</sup>	93p £17.44

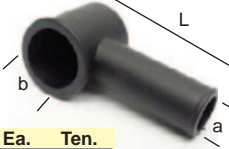


## Rubber Covers

for above rings

All rubber covers are Black apart from AC2R (Red)

Dimensions: a,b and L are mm



Ref.	a	b	L	To fit.	Ea.	Ten.
AC1	6	11	36	-	59p	£4.90
AC2	7.5	15	43	T14-6,8	42p	£3.52
AC3	9	15	60	T14-10	69p	£3.52
RS126	11	15	42	T22	£1.38	£11.45

## Right Angled Terminals

Tin plated copper tube terminals. Can be crimped/soldered.



Ref.	Hole.	Cable size.	Ea.	Ten.
FTT16/6	6mm	16mm <sup>2</sup>	67p	£5.94
FTT16/8	8mm	16mm <sup>2</sup>	71p	£6.30
FTT25/8	8mm	25mm <sup>2</sup>	82p	£7.38
FTT25/10	10mm	25mm <sup>2</sup>	84p	£7.56
FTT50/8	8mm	50mm <sup>2</sup>	£1.26	£11.34

## Battery Flag Terminal

Ford type brass, 6.3mm hole. Conductor dia 9.5mm.



Ref.	Hole.	Cable.	Ea. (25)
F353	6.3mm	40mm <sup>2</sup>	£1.62 £30.38

## Butt Connectors

Tinned copper for crimp or soldering

Ref	mm <sup>2</sup>	Ea	(10)
CTB16	16	89p	£6.68
CTB25	25	£1.34	£10.05
CTB50	50	£1.43	£10.73
CTB70	70	£2.23	£16.73



## Copper Tube Terminal Kits

45 Pieces. Contains a variety of different ring sizes suitable for 10, 16, & 25mm<sup>2</sup> cable. Ref: CTTKS £25.80

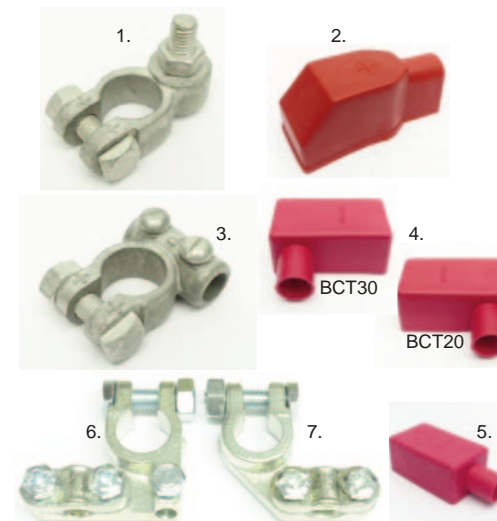
35 Pieces. Contains a variety of different ring sizes suitable for 35, 50, & 70mm<sup>2</sup> cable. Ref: CTTKL £36.24



# Battery clamps & pre made leads

## Battery Clamps & Covers

Clamps: tin plated brass or copper.



Item.	Pole.	Ref.	mm <sup>2</sup>	Ea
1. Stud/nut clamp	+	BT461P		£2.65
stud size 8mm	-	BT461N		£2.65
2. PVC cover for 1.	Red	BTC50R		£1.43
	Black	BTC50U		£1.43
3. Angle clamp	+	BT450P	40	£2.24
screw type	-	BT450N	40	£2.24
	+	BT451P	60	£2.75
	-	BT451N	60	£2.75
4. PVC Cover for 3	Red	BTC20R		£1.25
	Black	BTC20B		£1.25
	Red	BTC30R		£1.25
	Black	BTC30B		£1.25
5. PVC Straight cover	Red	BTC10R		£1.28
(not for these clamps)	Black	BTC10B		£1.28
6. Saddle clamp	-	BT526		£4.98
7. Saddle clamp	+	BT527		£4.98

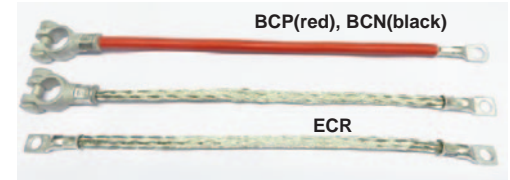
## Disconnect Battery Clamp



Fits on negative battery post. Turn the plastic wheel to quickly isolate the battery. Ref:02100 £6.95  
As above but fitted with a bridging fuseholder with 5A glass fuse for clock & alarm feeds etc. Ref: 02101 £8.50

## Battery & Starter Cables

With crimped on clamps & 8mm rings.



Cable on BCP/N is 16mm<sup>2</sup> (224/0.30).

Braid on BER & ECR is round 19mm<sup>2</sup> (16x16/0.30).

Length	BCP/N	BER	ECR
150mm	-	-	£3.36
300mm	£5.67	£7.25	£4.72
450mm	£6.39	£8.79	£6.18
600mm	£7.11	-	-
760mm	£7.87	-	£9.17



With crimped on 8mm ring terminal each end.

Ref	Cable Size	Length	Price.
SSP/N225	16mm <sup>2</sup>	225mm	£1.90
SSP/N375	16mm <sup>2</sup>	375mm	£2.38
SSP/N600	16mm <sup>2</sup>	600mm	£3.23
SSP/N915	16mm <sup>2</sup>	915mm	£4.39

Ref	Cable Size	Length	Price.
SSPL/N225L	25mm <sup>2</sup>	225mm	£3.64
SSPL/N375L	25mm <sup>2</sup>	375mm	£4.18
SSPL/N600L	25mm <sup>2</sup>	600mm	£4.96
SSPL/N915L	25mm <sup>2</sup>	915mm	£6.65

## Quick Release Clamps



Quick release clamp mechanism to easily attach or detach the terminals from a vehicle battery. Manufactured from copper-zinc alloy, stainless steel & polypropylene. Rated max 500amps. Max cable 40mm<sup>2</sup>  
Ref: B166P red(+), Ref: B167N blue(-) £5.50 Ea

## Battery connector crimp tools & cutters

### Battery/Starter Terminal Crimp Tools

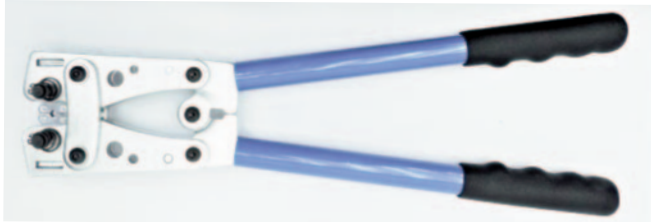
Heavy duty tool for indent crimping battery terminals on to cables 10-120mm<sup>2</sup>. Screw adjustment to suit the size of cable and terminal. Length: 570mm.

Ref: **TN70 £112.80**



For crimping ring terminals on cables from 6-50mm<sup>2</sup>. Hexagonal crimping with revolving dies to suit the size of cable and terminal. Length: 390mm.

Ref: **TN76 £86.12**



Ratchet crimping tool for indent crimping ring terminals onto 10mm<sup>2</sup> and 16mm<sup>2</sup> cable. Length 240mm.

Ref: **TN1016 £31.48**



Ratchet crimping tool for indent crimping ring terminals on to cables 1.5-10mm<sup>2</sup>. Length: 255mm.

Ref: **TT75 £43.72**



### Wire Cutters

Heavy duty cable cutter for cutting cables up to 70mm<sup>2</sup>. Length: 236mm.

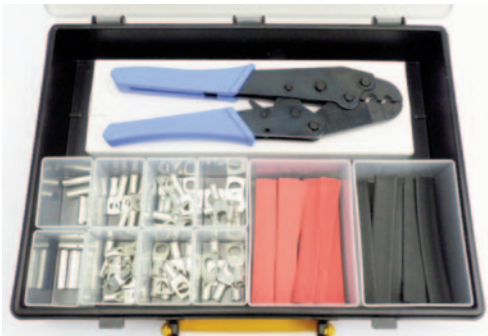
Ref: **TT50 £20.46**



### Battery terminal crimp kit

Kit comprising of a selection of copper tube terminals suitable for 10mm<sup>2</sup> & 16mm<sup>2</sup> cable, quality ratchet crimp tool plus lengths of black & red heat shrink sleeving. All contained in a tough storage box.

Ref: **BTCK £63.40**



## Battery isolator switches



**BIS.** Usefull when the main battery current needs to be cut off. Removable key. Rated at 100A continuous @ 12 volt 500A for 5 seconds.

Ref: **BIS.** 10mm terminal studs. **£5.78**

Ref: **BIS8** 8mm terminal studs **£13.02**

Spare Key Ref: **KEY £1**

Cover for BIS. Ref: **BISC 99p**

**BISALP.** Designed to prevent damage to alternator & electrical systems when isolating the battery. Isolates main battery feed as well as the ignition feed, thus preventing engine run on, (obligatory in competition). 10mm terminal studs. Includes resistor to avoid damage through load dumping and splashproof cover. Ref: **BISALP £21.69**

Spare resistor for BISALP. Ref: **ALPR £4.34**



#### Battery Isolator Switch

100Amps @ 12v

Fixed key, 10mm studs.

Fits a 19mm round hole.

Ref: **MBS4 £17.30**



#### Security Battery Isolator Switch

Removable key in the 'on'; and 'off' positions. Includes 2 keys. 100Amps @ 24v, 500A for 5 secs. 10mm studs.

Ref: **60520 £57.72**

Blank Spare Key (Requires cutting) Ref: **60519 £9.20**

#### Heavy Duty Battery Isolator Switch

Phenolic moulding with steel fixing plate and removable key.

250Amps @ 24v, 2500A for 5 secs.

10mm terminal studs.

Splashproof cover IP65.

Requires a 24mm hole.

Ref: **60550 £26.50**

Spare Key Ref: **60555 £5.10**



#### Heavy Duty Battery Isolator Switch

Phenolic moulding with aluminium fixing plate and fixed key.

250Amps @ 24v, 2500A for 5 secs.

10mm terminal studs.

Requires a 30.5mm hole.

Ref: **60560.....£61.52**



#### Replica of Lucas SSB103

Suitable for panel mounting.

Has 2 main terminal studs and a 3rd small terminal for low tension.

12v/100amp.

Ref: **SSAB103 £23.12**



## Marine battery isolator switches

Removable control knob in the OFF position.

300A continuous (1 hour) @ 48v.DC.

1000 amps for 5 seconds.

M10 studs E-Approved.

Dims: 70mm x 70mm x 78mm(h).

Ref: **60511 £30.70**



#### Marine double pole battery isolator

Fixed handle.

250A @ 24V, 2500A for 5 secs.

M10 studs.

Switches both poles simultaneously.

Ref: **60526...£119.00**





# Solenoids, junction box, clamps.

## Junction boxes



Suitable for joining together several large cables. Tough plastic construction with hinged lid to cover the connections. Single pole. 120A Max rating. Mounting lug at rear. 2 x 8mm studs. Size 35x61x40 (HxWxD)

Ref: **PJ1 £7.33**

As above but with 3 x 8mm studs. Size 45x70x57mm(h)

Ref: **PJ2 £12.78**

## Starter solenoids 12v



Ref: **33509 £27.42**. With rubber covered manual button. Replaces Lucas 76145, 76417, 76425, 7642, 76445, 76450, 76460, 76464, 76465, 76470, 76471, 76485, 76486, 76703.

Ref: **33502 £22.76** Replaces Lucas 76795, 76789, 4ST, SRB335.,

Ref: **33500 £13.50** Replaces Lucas 76766, 76772, 4ST, SRB325

## Battery Boxes

Black plastic battery box with webbing tie down strap and two base fixing clamps. The removable lid has cable entry openings underneath.



Ref:	Internal dims (WxLxH)	Price.
<b>8740</b>	180 x 275 x 200 mm	<b>£20.32</b>
<b>8745</b>	185 x 325 x 200 mm	<b>£21.12</b>

## Battery Fixing Clamp

Plated and punched angle bracket with two threaded hold-down 'U' bolts with wing nuts.

For most popular sizes of battery.

Ref: **8775 £3.29**



## Anti-Corrode Compound

An anti-corrosive compound that kills corrosion and inhibits future deterioration of terminals and metal parts on or near lead acid batteries. Ref: **13999 £4.52**



## Booster cables



High quality leads manufactured from the finest high grade copper and sheathed with the latest PVC elastomeric compound to ensure complete flexibility down to a temperature of -25°C. The clips on all the leads are fully insulated, the insulation reaches over the nose of the clip, avoids accidental shorting. Suitable for petrol engines up to 6000cc & diesel engines up to 4000cc.

Ref.	Length.	Amps.	Cable.	Price.
<b>JL620</b>	5M	170	25mm <sup>2</sup>	<b>£70.64</b>

## Battery clips, or welding clamps

### Black or Red

Ref: **BC180FR (Red) £3.59 Ea**

Ref: **BC180FB (Black) £3.59 Ea**

Rating 170 amps. Fully insulated.

Takes up to 50mm<sup>2</sup> cable.



Ref: **BC300R (Red) £6.05 Ea**

Ref: **BC300B (Black) £6.05 Ea**

Rated 300 Amps. Fully insulated. Takes up to 50mm<sup>2</sup> cable. Has a length of copper braid linking the two jaws (see picture on right). It eliminates pivot pin and spring overheating giving a longer more effective life.



## Crocodile clips

Ref.	Amps.	Ea.	(10 Pack)
<b>CC5</b>	5	<b>42p</b>	<b>£3.15</b>
<b>CC25</b>	25	<b>93p</b>	<b>£7.72</b>
<b>CC50</b>	50	<b>£1.10</b>	<b>£8.25</b>



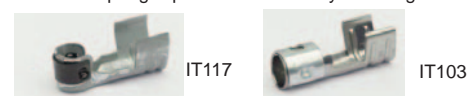
# H.T. terminals & tools

## HT Terminals & Insulations

Suitable for standard 7mm HT cable.

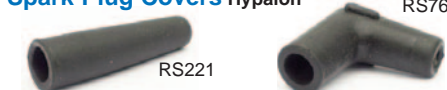
### Spark Plug Terminals Tinned steel.

Fitted with spring clip for added security and longer life.



Ref.	To fit.	Each.	(50)
<b>IT117</b> (Angled)	<b>RS76</b>	<b>69p</b>	<b>£12.94</b>
<b>IT103</b> (Straight)	<b>RS221</b>	<b>70p</b>	<b>£25.50</b>

### Spark Plug Covers Hypalon



Ref.	To fit.	Each.	(25)
<b>RS76</b>	<b>IT117</b>	<b>£1.21</b>	<b>£22.69</b>
<b>RS221</b>	<b>IT103</b>	<b>£1.16</b>	<b>£21.75</b>

### Distributor & Coil Terminals Plain Brass



Ref.	To fit.	Each.	(25)
<b>IT35</b> (Angled)	<b>RS215</b>	<b>99p</b>	<b>£18.56</b>
<b>IT111</b> (Straight)	<b>RS20 or RS218</b>	<b>60p</b>	<b>£12.75</b>

### Distributor & Coil Covers PVC



Ref.	Int dia.	Each.	(25)
<b>RS215</b>	14mm	<b>85p</b>	<b>£16.12</b>
<b>RS20</b>	15mm	<b>45p</b>	<b>£8.44</b>
<b>RS218</b>	11mm	<b>29p</b>	<b>£5.44</b>

### Acorn Nut and Washers

Genuine Lucas acorn nut and split brass washer. Used on classic Lucas pick ups.

Brass Washer Ref: **W19056 £1.19 each**  
Acorn Nut Ref: **W19057 £3.55 each**



## Spark Plug Cover

Replica of Lodge R90, rubber cover. None suppressed  
Ref: **W76020 £2.08**



## Ignition Terminal Crimp Kit



Contains a selection of H.T. terminals and covers. Includes all the terminals and covers for spark plug, distributor and coil shown on left. (RS76, RS221, IT117, IT103, RS20, RS215, IT35, IT111) plus H.T. terminal crimping tool ICT7.

Ref: **ITK £108.06**

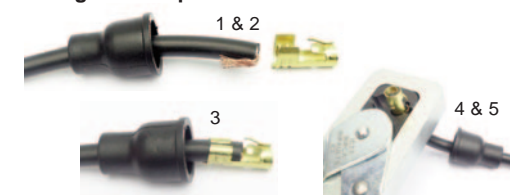
## HT Terminal Crimping Tool



Professional tool, enables the user to produce ignition cables comparable to factory produced leads. Solid construction, spring return handles. One die curves the terminal around the cable, the other die crimps the terminal.

Ref: **ICT7 £69.48**

### Using the crimp tool ICT7



1. Fit the terminal cover over the cable.
2. Strip the cable insulation and fold back the conductor.
3. Insert the cable into rear terminal lugs ensuring the cable covers the holding spike on the terminal.
4. Roll rear lugs of terminal using roll section of crimp tool.
5. Crimp lugs using the crimp section of tool.

## Pre insulated terminals

Terminals are tin plated brass, insulation is vinyl. Most terminals have a collar within the insulation for extra grip on the cable. Terminals not priced are not available. The colour of the insulation denotes the cable size it will fit.

All terminals can be supplied in bulk packs of 1000 at 25% discount.

Red. 0.65-1.5mm <sup>2</sup>					Blue. 1.5-2.5mm <sup>2</sup>					Yellow. 3-6mm <sup>2</sup>				
<b>Ring</b>					<b>Ring</b>					<b>Ring</b>				
Hole dia.	Ref.	(10)	(50)		Hole dia.	Ref.	(10)	(50)		Hole dia.	Ref.	(10)	(50)	
3.2mm	RR32	£1.00	£2.50		3.2mm	BR32	£1.00	£2.50		4.3mm	YR4	£1.10	£4.13	
4.3mm	RR4	£1.00	£2.50		4.3mm	BR4	£1.00	£2.50		5.3mm	YR5	£1.10	£4.13	
5.3mm	RR5	£1.00	£2.50		5.3mm	BR5	£1.00	£2.50		6.4mm	YR6	£1.10	£4.13	
6.4mm	RR6	£1.00	£3.00		6.4mm	BR6	£1.00	£3.00		8.4mm	YR8	£1.60	£6.00	
8.4mm	RR8	£1.00	£3.00		8.4mm	BR8	£1.00	£3.00		10.5mm	YR10	£1.50	£5.63	
10.5mm	RR10	£1.00	£3.50		10.5mm	BR10	£1.00	£3.50		13mm	YR13	£2.80	£10.50	
<b>Butt Connector</b>					<b>Butt Connector</b>					<b>Butt Connector</b>				
Standard	Ref.	(10)	(50)		Standard	Ref.	(10)	(50)		Standard	Ref.	(10)	(50)	
	RB	£1.00	£2.50			BB	£1.00	£3.00			YB	£1.42	£5.34	
<b>Male Blade*</b>					<b>Male Blade*</b>					<b>Male Blade*</b>				
Blade.	Ref.	(10)	(50)		Blade.	Ref.	(10)	(50)		Blade.	Ref.	(10)	(50)	
2.8mm	RM2	£1.00	£3.00		4.8mm	BM4	£1.00	£3.00		6.3mm	YM6	£1.30	£4.88	
4.8mm	RM4	£1.00	£3.00		6.3mm	BM6	£1.00	£3.00						
6.3mm	RM6	£1.00	£3.00											
<b>Female Blade*</b>					<b>Female Blade*</b>					<b>Female Blade*</b>				
Blade.	Ref.	(10)	(50)		Blade.	Ref.	(10)	(50)		Blade.	Ref.	(10)	(50)	
2.8mm	RF2	£1.00	£3.50		4.8mm	BF4	£1.00	£2.50		6.3mm	YF6	£1.20	£4.50	
4.8mm	RF4	£1.00	£3.00		6.3mm	BF6	£1.00	£3.00		9.5mm	YF9	£1.70	£6.38	
6.3mm	RF6	£1.00	£3.00		8.3mm	BF8	£2.15	£8.07						
<b>Piggyback.</b>					<b>Piggyback.</b>					<b>Piggyback.</b>				
6.3mm	Ref.	(10)	(50)		6.3mm	Ref.	(10)	(50)		6.3mm	Ref.	(10)	(50)	
	RPG	£1.01	£3.78			BPG	£1.00	£3.75			YPG	£1.98	£7.44	
<b>Fully Insulated Female Blade*</b>					<b>Fully Insulated Female Blade*</b>					<b>Fully Insulated Female Blade*</b>				
Blade.	Ref.	(10)	(50)		Blade.	Ref.	(10)	(50)		Blade.	Ref.	(10)	(50)	
4.8mm	RFF4	£1.00	£3.50		4.8mm	BFF4	£1.00	£3.50		6.3mm	YFF6	£1.39	£5.22	
6.3mm	RFF6	£1.00	£3.50		6.3mm	BFF6	£1.00	£3.50		9.5mm	YFF9	£3.10	£11.63	

\* Note; 6.3mm is the most commonly used size of blade terminals.

## Pre insulated terminals

Red. 0.65-1.5mm <sup>2</sup>					Blue. 1.5-2.5mm <sup>2</sup>					Yellow. 3-6mm <sup>2</sup>				
<b>Bullet</b>					<b>Bullet</b>					<b>Bullet</b>				
Dia.	Ref.	(10)	(50)		Dia.	Ref.	(10)	(50)		Dia.	Ref.	(10)	(50)	
4mm	RB4	£1.00	£3.00		4mm	BB4	£1.00	£3.50		5mm	YB5	£1.13	£4.25	
					5mm	BB5	£1.00	£3.50						
<b>Socket</b>					<b>Socket</b>					<b>Socket</b>				
Dia.	Ref.	(10)	(50)		Dia.	Ref.	(10)	(50)		Dia.	Ref.	(10)	(50)	
4mm	RS4	£1.14	£4.29		4mm	BS4	£1.15	£4.30		5mm	YS5	£1.19	£4.46	
					5mm	BS5	£1.00	£3.50						
<b>Pin</b>					<b>Pin</b>					<b>Pin</b>				
Dia.	Ref.	(10)	(50)		Dia.	Ref.	(10)	(50)		Dia.	Ref.	(10)	(50)	
1.9mm dia	RP	£1.00	£3.00		1.9mm dia	BP	£1.00	£3.50		1.9mm dia	YP	£1.58	£5.93	
<b>Fork</b>					<b>Fork</b>					<b>Closed End Connector</b>				
Int width.	Ref.	(10)	(50)		Int width.	Ref.	(10)	(50)		Coloured white. 1.5-2.5mm <sup>2</sup>				
6.4mm	BK6	£1.00	£3.50		6.4mm	BK6	£1.00	£3.50		Ref.	(10)	(50)		
										BCE	£1.00	£3.12		

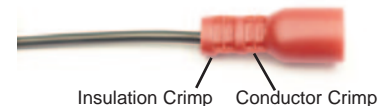
## Crimp Tools For Pre Insulated Terminals



Features long handles for comfort and cable cutter at nose for easy cable cutting. Includes insulation stripper and indent crimp for non insulated ring terminals. Length: 230mm  
Ref:AM2 **£5.98**

A professional tool for crimping pre-insulated terminals. Robustly constructed with spring return ratchet action. Features simultaneous crimping of both the conductor and the insulation. Length: 225mm. Ref:DV5 **£18.56**

Pre-insulated terminal crimped with a DV5 crimp tool. Crimps both the conductor and PVC insulation sleeve together





## Pre insulated terminal kits

The cases used in our kits are made from tough polypropylene to withstand the rough treatment encountered in workshop environments. The tools used in the kits are described on page 23.



Contains a selection of 200 **pre-insulated** terminals and insulations of the type on pages 18 & 19. Includes male & female blades, piggybacks, rings, 4mm bullets & sockets.  
Note: **No** tool in this kit.

Ref: P18 £19.82



A comprehensive kit comprising 500 **pre-insulated** terminals in red, blue, yellow, of the type shown on pages 18 & 19. Includes male & female blades, forks, piggyback, rings, 4mm bullets & sockets, butts.  
Plus tool DV5 (see page 17)

Ref: P27DV £57.60



General purpose wiring kit comprising 218 **pre-insulated** terminals in red, blue, yellow, of the type shown on pages 18 & 19. Includes male & female blades, piggybacks, rings, bullets & sockets, butts. Also includes cable ties sizes 200mm, 140mm & 100mm. Adhesive harness tape, 2 blade fuse holders & assorted blade fuses & cable grommets  
Plus tool DV5 (see page 19)

Ref: P27WK £45.14

## Heatshrink pre insulated terminals

These terminals offer outstanding mechanical and weather resistance due to the use of a tough heat shrinkable polyamide sleeve, lined with a special hot melt adhesive around the crimp metal barrel. After crimping, the terminal sleeve is heated until adhesive melts and flows filling voids and providing excellent sealing with the cable.

Temperature rating -55°C to +125°C. Splashproof & humidity protected connections. Excellent mechanical resistance to vibration, bending etc. Electrical properties remain excellent after fluid immersion tests in diesel, fuel, brake fluid, antifreeze, 5% salt water, motor oil. Fully visible inspection through transparent tube.

### Heatshrink Pre-Insulated Kit.



Contains **80** assorted heatseal rings, butt connectors, and male & female connectors in a tough storage box.

Ref: K700 £30.24

Red. 0.65-1.5mm<sup>2</sup> Blue. 1.5-2.5mm<sup>2</sup> Yellow. 3-6mm<sup>2</sup>

Male Blade	Ref.	Ea.	(50)	Ref.	Ea.	(50)	Ref.	Ea.	(50)
6.3mm	RM6H	44p	£18.41	BM6H	44p	£18.41	YM6H	57p	£25.90

Female Blade	Ref.	Ea.	(50)	Ref.	Ea.	(50)	Ref.	Ea.	(50)
6.3mm	RFF6H	92p	£38.18	BFF6H	95p	£39.43	YF6H	72p	£27.00

Bullet	Ref.	Ea.	(50)	Ref.	Ea.	(50)
4mm	RB4H	52p	£21.49	BB5H	55p	£22.99
5mm						

Socket	Ref.	Ea.	(50)	Ref.	Ea.	(50)
4mm	RS4H	61p	£25.50	BS5H	64p	£26.51
5mm						

Ring	Ref.	Ea.	(50)	Ref.	Ea.	(50)	Ref.	Ea.	(10)
4mm	RR4H	36p	£14.59	BR4H	44p	£18.19			
5mm	RR5H	39p	£16.05	BR5H	49p	£20.21			
6mm	RR6H	42 p	£16.50	BR6H	45p	£18.62	YR6H	64p	£26.47
8mm	RR8H	47p	£17.63	BR8H	74p	£30.71	YR8H	70p	£29.35

In-line splice	Ref.	Ea.	(50)	Ref.	Ea.	(50)	Ref.	Ea.	(50)
	RHS	44p	£16.58	BHS	49p	£1.24	YHS	84p	£34.86

### Heatshrink Terminal Crimping Tool

Ratchet crimp tool designed specifically for heat shrink pre-insulated terminals. Crimps Red, Blue and Yellow Size terminals 0.5mm<sup>2</sup> - 6.00mm<sup>2</sup>.

Ref: TT320 £37.90



### Solder Sleeve Butt Splices

with solder in the connection.

Fit the cables, apply heat to splice until solder melts & adhesive flows.

Ref.	Ea.	(50)	Ref.	Ea.	(50)	Ref.	Ea.	(50)
RHSS	68p	£27.61	BHSS	70p	£26.31	YHSS	90p	£34.86

## Non insulated terminals & connectors

Our terminals are mostly tin plated brass for protection against corrosion. Where tin plated terminals are not available plain brass is used. The maximum cable size that will fit each terminal is stated. Terminals on this page can be either crimped or soldered. For crimping use one of the following tools described on page 26: PR4, MP71, D1.

**Bulk buying. All terminals can be supplied in packs of 1000 at 25% discount.**

### Blade Connectors

'Width' is blade size. Most commonly used is 6.3mm



Ref.	Width.	Cable.	(10)	(50)
FB2	2.8mm	1mm <sup>2</sup>	<b>£1.08</b>	<b>£4.04</b>
FB4.8	4.8mm	1mm <sup>2</sup>	<b>£1.20</b>	<b>£4.50</b>
FB6S	6.3mm	0.5-1mm <sup>2</sup>	<b>£1.70</b>	<b>£6.39</b>
FB6	6.3mm	1-3mm <sup>2</sup>	<b>£1.50</b>	<b>£5.63</b>
FB66	6.3mm	3-5.5mm <sup>2</sup>	<b>£1.30</b>	<b>£4.88</b>
FB9	9.5mm	3-5.5mm <sup>2</sup>	<b>£1.54</b>	<b>£5.76</b>
MB2	2.8mm	.5-1mm <sup>2</sup>	<b>£1.00</b>	<b>£3.00</b>
MB4	4.8mm	1mm <sup>2</sup>	<b>£1.00</b>	<b>£3.50</b>
MB6	6.3mm	1-2.5mm <sup>2</sup>	<b>£1.51</b>	<b>£5.67</b>
MB66	6.3mm	2.5-6mm <sup>2</sup>	<b>£1.30</b>	<b>£4.88</b>



Female blade (FBL) with latch, fits into mouldings.  
Male blade (MBL)

Ref.	Width.	Cable.	(10)	(50)
FBL2	2.8mm	1mm <sup>2</sup>	<b>£1.00</b>	<b>£3.00</b>
FBL4	4.8mm	1-2.5mm <sup>2</sup>	<b>£2.18</b>	<b>£8.16</b>
FBL6	6.3mm	1-2.5mm <sup>2</sup>	<b>£1.50</b>	<b>£5.63</b>
FBL66	6.3mm	2.5-6mm <sup>2</sup>	<b>£1.90</b>	<b>£7.13</b>
FBL8	7.7mm	1-2.5mm <sup>2</sup>	<b>£3.80</b>	<b>£14.25</b>
FBL9	9.5mm	6-10mm <sup>2</sup>	<b>£6.90</b>	<b>£25.88</b>
MBL2	2.8mm	1mm <sup>2</sup>	<b>£1.00</b>	<b>£3.00</b>
MBL6	6.3mm	1-2.5mm <sup>2</sup>	<b>£1.00</b>	<b>£3.75</b>
MBL66	6.3mm	2.5-6mm <sup>2</sup>	<b>£2.50</b>	<b>£9.38</b>



Ref.	Width.	Cable.	(10)	(50)
F6	6.3mm	1-2mm <sup>2</sup>	<b>£1.97</b>	<b>£7.40</b>
00513	8mm	1-2mm <sup>2</sup>	<b>£3.80</b>	<b>£14.25</b>
PG	6.3mm	1-2mm <sup>2</sup>	<b>£2.50</b>	<b>£9.38</b>

### Blade Insulations

Insulation for female blade.

Colour is clear.

Material is soft PVC .



Ref.	Width.	Cable.	(10)	(50)
FBI2	2.8mm	1mm <sup>2</sup>	<b>£1.50</b>	<b>£5.63</b>
FBI4	4.8mm	1mm <sup>2</sup>	<b>£1.50</b>	<b>£5.63</b>
FBI6	6.3mm	1-3mm <sup>2</sup>	<b>£1.20</b>	<b>£4.50</b>
FBI66	6.3mm	3-5.5mm <sup>2</sup>	<b>£1.20</b>	<b>£4.50</b>
FBI9	9.5mm	3-5.5mm <sup>2</sup>	<b>£1.60</b>	<b>£6.00</b>

Insulation for male blade.

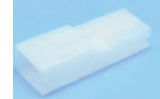
Mates with female insulation for in-line connection.



Ref.	Width.	Cable.	(10)	(50)
MBI	6.3mm	1-3mm <sup>2</sup>	<b>£1.90</b>	<b>£7.13</b>

Insulation FOR female blade 6.3mm

(FB6 or FB66). White, hard nylon.



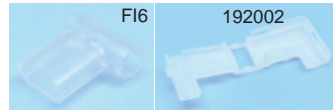
Ref.	Width.	Cable.	(10)	(50)
191007	6.3mm	1-5.5mm <sup>2</sup>	<b>£1.00</b>	<b>£2.50</b>

Flag insulations.

FI6 is soft PVC.

192002 is

hinged type.



Ref.	Width.	Cable.	Each.	(50)
FI6	6.3mm	1-2mm <sup>2</sup>	<b>£1.40</b>	<b>£5.25</b>
192002	6.3mm	1-2mm <sup>2</sup>	<b>£1.71</b>	<b>£6.42</b>

### Japanese Connectors

3.9mm (dia of bullet). For cables up to 2mm<sup>2</sup>.



Ref.	(10)	(50)
Bullet.		
JB	<b>£1.00</b>	<b>£3.00</b>
Insulation for bullet.		
JBI	<b>£1.00</b>	<b>£2.00</b>

Ref.	(10)	(50)
Socket for bullet.		
JS	<b>£1.00</b>	<b>£3.00</b>
Insulation for socket.		
JSI	<b>£1.00</b>	<b>£2.00</b>

Ref.	(10)	(50)
Double socket for bullet.		
JDS	<b>£2.40</b>	<b>£9.00</b>
Insulation for double socket.		
JDSI	<b>£1.10</b>	<b>£4.13</b>

## Non insulated terminals & connectors

### Stationary Blades



A & F	B	D	G	H	
Illus.	Item.	Ref.	Blade.	(Ea)	(50)
A	Single	SBA	6.3	15p	£4.13
B	2-blade	SBB	6.3	26p	£9.75
D	3 into 1	SBD	6.3	21p	£8.06
F	Single	SBF	9	51p	£19.15
G	Single	SBG	6.3	15p	£4.13
H	6 into 1	SBH	6.3	£1.06	£39.75

### Ring Terminals



Single crimp (R) Double crimp (RD)

Single crimp rings.

Ref.	Cable.	Hole.	(10)	(50)
R4	1-3mm <sup>2</sup>	4.3mm	<b>£1.00</b>	<b>£2.50</b>
R5	1-3mm <sup>2</sup>	5.3mm	<b>£1.00</b>	<b>£2.50</b>
R6	1-3mm <sup>2</sup>	6.4mm	<b>£1.00</b>	<b>£3.50</b>
R8	1-3mm <sup>2</sup>	8.4mm	<b>£1.00</b>	<b>£3.50</b>
R5L	3-7mm <sup>2</sup>	5.3mm	<b>£1.70</b>	<b>£6.38</b>
R6L	3-7mm <sup>2</sup>	6.4mm	<b>£1.60</b>	<b>£6.00</b>
R8L	3-7mm <sup>2</sup>	8.4mm	<b>£1.26</b>	<b>£4.74</b>
R10L	3-7mm <sup>2</sup>	10.5mm	<b>£2.70</b>	<b>£10.13</b>

Ref.	Cable.	Hole.	(Ea)	(50)
R6XL	7-10mm <sup>2</sup>	6.4mm	<b>37p</b>	<b>£13.88</b>
R8XL	7-10mm <sup>2</sup>	8.4mm	<b>45p</b>	<b>£16.88</b>
R10XL	7-10mm <sup>2</sup>	10.5mm	<b>43p</b>	<b>£16.13</b>

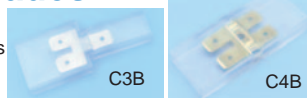
Double crimp rings.

Ref.	Cable.	Hole.	(Ea)	(50)
RD4	1-3mm <sup>2</sup>	4.3mm	<b>18p</b>	<b>£6.75</b>
RD5	1-3mm <sup>2</sup>	5.3mm	<b>18p</b>	<b>£6.75</b>
RD6	1-3mm <sup>2</sup>	6.4mm	<b>20p</b>	<b>£7.50</b>
RD8	1-3mm <sup>2</sup>	8.4mm	<b>30p</b>	<b>£11.00</b>

### Connectors for 6.3mm Female Blades

The insulation on these two connectors covers the whole female terminal.

Common contact.



Ref.	Description.	Each.	(25)
C3B	3-blade	<b>71p</b>	<b>£13.31</b>
C4B	4-Blade	<b>71p</b>	<b>£13.31</b>

On this connector the

insulation covers only

the blade part of the

female terminal.

Best to use with half-insulated female blade on page 18 (refs RF6 or FB6).

Ref.	Description.	Each.	(10)
C12	Strip of 12x2-Blade	<b>£2.70</b>	<b>£22.50</b>

### 4.7mm Bullets & Snap Connectors

Bullet, solder type. Tinned brass

Ref.	Cable	(10)	(50)
BS2	1-2mm <sup>2</sup>	<b>£4.10</b>	<b>£15.38</b>
BS3	2-3mm <sup>2</sup>	<b>£4.10</b>	<b>£15.38</b>



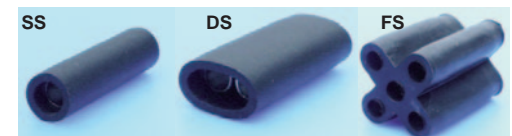
Bullet, crimp or solder type.

For crimping use tool SSCT on page 29.

Ref.	Cable Size	(10)	(50)
CB0	0.5mm <sup>2</sup>	<b>£4.10</b>	<b>£15.38</b>
CB1	1mm <sup>2</sup>	<b>£1.60</b>	<b>£6.00</b>
CB2	2mm <sup>2</sup>	<b>£1.70</b>	<b>£6.38</b>



Snap connectors, for the 4.7mm bullets listed above.



Ref.	Description.	Ea	(10)	(50)
SS	Single.	-	<b>£2.50</b>	<b>£9.38</b>
DS	Double(common).	-	<b>£3.10</b>	<b>£11.63</b>
FS	5 way (5x1)	<b>£5.61</b>	<b>£50.45</b>	

Socket & insulation.

For 4.7mm bullets listed above. Crimps with any non-insulated crimp tool on page 28.



Ref.	Cable.	Type	(10)	(50)
SB47	1-2mm <sup>2</sup>	Socket	<b>£1.92</b>	<b>£7.19</b>
JSI	1-2mm <sup>2</sup>	Insulation	<b>£1.00</b>	<b>£2.00</b>

### Hollow Bullet 4.6mm

Hollow brass bullet which requires no crimping or soldering. 4.6mm o/d. Fits classic vehicle bulb holders & spring clip earth points.

Ref.	Cable.	(10).
NCB2	1-2mm <sup>2</sup>	<b>£2.56</b>



### Butt Splices

For 1.5 to 10mm<sup>2</sup> cable. Solder or crimp.

Ref.	Description.	(10).	(50)
C1	1.5mm <sup>2</sup> butt splice	<b>£1.20</b>	<b>£4.50</b>
C2	2.5mm <sup>2</sup> butt splice	<b>£1.30</b>	<b>£4.88</b>
CTB06	6mm <sup>2</sup> butt splice	<b>£2.50</b>	<b>£9.38</b>
CTB10	10mm <sup>2</sup> butt splice	<b>£3.50</b>	<b>£13.13</b>





## Non insulated terminal kits

The cases used in our kits are made from tough polypropylene to withstand the rough treatment encountered in workshop environments. Full descriptions of the cases can be found on page 25.  
The crimp tools used in the kits are described fully on page 26.



### Ref: N18

Contains a selection of 200 **non-insulated** terminals & insulations of the type on pages 22-23. Includes male & female blades, flags, insulations piggy-backs, rings, 4.7mm bullets & snap connectors, 3.9mm Japanese type bullets, sockets & insulations.  
Note: No tool in this kit. **£25.28**



### Ref: JTK

#### Japanese terminal kit

Contains 336 Japanese 3.9mm bullets, sockets, insulations, double sockets and insulations and a small selection of 6.3mm female blades and covers, rings, and 4.8mm female blades.  
Comes with MP71 crimping tool. **£35.54**



### Ref: N27M1

A comprehensive kit comprising 600 **non-insulated** terminals & insulations of the type shown on pages 22-23. Includes male & female blades, flags, in-line blade connectors, piggyback, insulations, rings, 4.7mm bullets & snap connectors, 3.9mm Japanese type bullets, sockets & insulations.  
Plus tool MP71 (shown on p26 ) **£54.62**



### Ref: N9M

Contains 150 **non-insulated** terminals & insulations of the type on pages 22-23. Includes male & female blades, piggybacks, rings, 4.7mm bullets & snap connectors. Plus tool MP71. **£33.92**

## Terminal kits & terminals to fit mouldings



### Ref: N27MC

#### Multiconnector & non-insulated terminal kit.

Contains components to make up a selection of multiconnectors and mini connectors (shown on page 28) and a selection of **non-insulated** terminals of the type on pages 22-23. Includes :  
2, 3, 4, 6 & 8 way Multiconnectors,  
2, 3, 4, 6 & 9 way Miniconnectors,  
3.9mm Japanese type bullets, sockets & insulations, and a selection of female blades, insulations and rings.  
Plus tool MP71. **£68.60**

### Compartment Box

Made from tough polypropylene, including the see through lids. These are tough, top quality partitioned boxes, ideal for workshop environments.



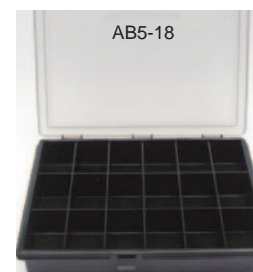
Case with compartments which can be re-arranged or removed. Case dims:-340x265x57mm. With carry handle.  
Ref: **CASE13**. With 13 varied size compartments **£10.62**

18 equal fixed compartments.  
Dims: 240x195x42mm.

Ref: **AB5-18** **£9.32**

9 Varied size compartments.  
Dims.: 240x195x42mm.

Ref: **AB5-9** **£8.00**



The terminals listed here are some of the most common types used in various mouldings. Terminals used in mouldings we supply are listed with those items elsewhere in the catalogue. Pictures not to scale. 'Length' is overall terminal length.

### Female Blade

Ref: 3-7650, 3-7660, 3-7670, 3-7671



Ref.	Cable.	Tab size.	Length.	ea.	(10)
3-7650	2.5mm <sup>2</sup>	8.1mm	35.5mm	66p	£4.96
3-7660	6mm <sup>2</sup>	8.1mm	35.5mm	80p	£5.99
3-7670	8-16mm <sup>2</sup>	8.1mm	35.5mm	68p	£5.48
3-7671	16mm <sup>2</sup>	8.1mm	35.5mm	£1.31	£10.90

Ref: 3-2050



Ref: 3-7212



Ref.	Cable.	Tab size.	Length.	ea.	(10)
3-2050	4mm <sup>2</sup>	4.8mm	20mm	84p	£6.30
3-7212	2.5mm <sup>2</sup>	2.8mm	19mm	57p	£4.28

### Round Pin Male & Female

Ref: 00510



Ref: 00514



Ref: 00515



Ref: 3-1200

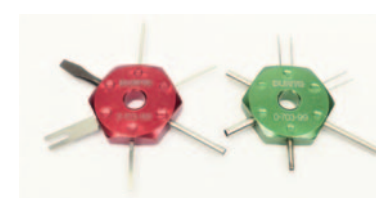


Ref: 3-1210



Ref.	Cable.	Dia.	Type	Length.	Ea.	(10)
00510	2.5mm <sup>2</sup>	3mm	Male	23mm	95p	£7.13
00514	2.5mm <sup>2</sup>	3mm	Female	23mm	82p	£6.15
00515	2.5mm <sup>2</sup>	2mm	Female	18mm	£1.01	£7.58
3-1200	2.5mm <sup>2</sup>	2mm	Female	19.5mm	22p	£1.65
3-1210	2.5mm <sup>2</sup>	2mm	Male	20mm	18p	£1.35

### Terminal Extraction Set.



Set of 2 tools for removing latched terminals mouldings. Ref: **70399** **£31.32**

Crimping tools for non-insulated terminals

For crimping non-insulated terminals shown on pages 22-23.

Heavy duty ratchet action crimp tool for prolonged use. Three forming dies for rapid crimping of male & female blades & Japanese connectors. Crimps both the conductor & the insulation in one operation. Produces an excellent rapid crimp with ease. Spring return handles with ratchet release. (Note; will not crimp flags). Length 225mm

Ref: PR4 £38.70



A very good quality versatile tool. The accurate jawplates with three forming sections produce an excellent crimp on the non-insulated terminals (p26-27). Spring return handles and cable cutter. Length 184mm

Ref: MP71 £11.16



DIY tool for crimping non-insulated terminals. Includes wire stripper, cable cutter, ignition terminal crimp. Length 205mm.

Ref: D1 £5.12



	PR4.	MP71.	D1.
Ease of use.	****	****	***
Blade terminals.	*****	****	**
Japanese type.	*****	****	**
Flags.	No	No	*
'W' bullet.	**	**	****
Rings R4-R10.	****	****	*
Other rings.	No	some	No
Ignition.	No	No	*
Cutter.	No	Yes	Yes
Stripper.	No	No	Yes
Spring return.	Yes	Yes	No

Performance table.

We are often asked by customers 'which is the best tool to use'. The answer depends on which terminals you will be using the most, how much you are prepared to spend, and how skilled you are. As with all hand tools the results obtained depend to a degree on the skill of the user, but these tools will do a good or perfect crimp on the most common terminals used. There isn't a crimp tool made that will crimp every type and size of terminal on all cables, so the table above is offered as a very rough guide to how the three tools perform on the different terminals. The more stars the better.

Instructions for using crimp tools,  
for non-insulated terminals on pages 26-27.  
Note: The crimp die layout differs from tool to  
tool, but the crimping method is the same.

Crimping flags.

Crimping other terminals.

Crimping tools, wire cutters, strippers

Ref: BKT

Bullet crimp kit.

Contains the bullet crimp tool SSCT and the closing tool 0400 (described below), plus 350 bullets for cables 0.5-2mm<sup>2</sup>, and 150 assorted single and double snap connectors.

£115.67

Closing Tool

Useful fitting tool for frequent users of 4.7mm bullets and snap connectors (see page 23). Pushes the bullets fully into the snap connector. Length 145mm

Ref: 0400 £35.43



4.7mm Bullet Crimping Tool



For crimping the CB range of plain brass bullets (see page 23 for details). Gives a secure solderless connection in seconds. The crimp produces two flats at the narrow crimp section of the bullet.

Length: 205mm.

Ref: SSCT £35.14

Cable Stripper Tool

Strips the insulation from the cables in all sizes from 0.65-6mm<sup>2</sup> without the need for adjustment. T Tool also includes cable cutter. Length : 212mm. Ref: TT45 £18.14



Wire Cutters

Heavy duty cable cutter for cutting cables up to 70mm<sup>2</sup>. Length: 236mm.

Ref: TT50 £20.46

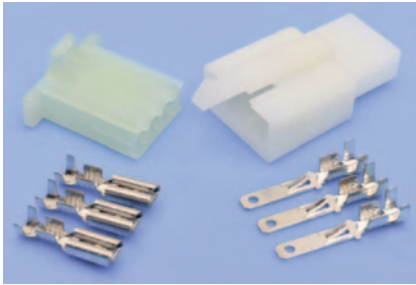




## Multi-connectors

Terminals can be either crimped or soldered onto the cable.  
To crimp use one of the tools on page 26zzz. (PR4, MP71 or D1).

### Mini-Connectors 2.8mm.



These connectors use 2.8mm blade terminals with latch. Supplied in sets of male & female housing plus terminals. The terminals are first crimped or soldered onto the wire and then pushed into the housing. A tab on each terminal locates it.

**Overall dims:** (6-way) 35x21x17mm.

For cables up to 1.5mm<sup>2</sup>

Prices shown for connectors are for complete sets, including both halves and terminals.

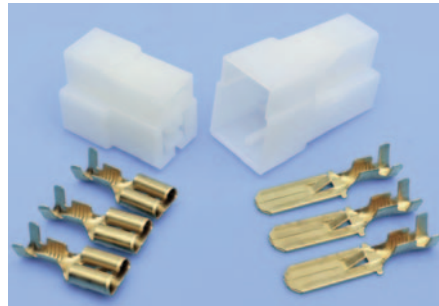
Type.	Ref.	Each.	(10)z.
2-way	MNC2	87p	£7.22
3-way	MNC3	£1.17	£9.71
4-way	MNC4	£1.12	£9.32
6-way	MNC6	£1.56	£13.03
9-way	MNC9	£2.26	£18.85
<b>Spare terminals.</b>			
Male	16405	£1.90	£7.13
Female	14303	£1.60	£6.00

### Mini-Connector Kit

Containing components to make up to 45 assorted connectors as above, 2,3,4,6 & 9 way. Includes spare terminals. All contained in a tough plastic partitioned case. (Includes crimp tool D1). **Ref:MNCK £63.54**



### Multi-Connectors 6.3mm



These connectors use 6.3mm blade terminals with latch. Supplied in sets of male & female housing plus terminals. The terminals are first crimped or soldered onto the wire and then pushed into the housing. A tab on each terminal locates it. **Overall dims:** (6-way) 44x31x18mm.

For cables up to 2.5mm<sup>2</sup>

Prices shown for connectors are for complete sets, including both halves and terminals.

Type.	Ref.	Each.	(10)
1-way	MC1	60p	£5.00
2-way	MC2	69p	£5.75
2-way	MC2T (T shape)	80p	£6.00
3-way	MC3	84p	£6.97
4-way	MC4	£1.08	£8.96
6-way	MC6	£1.56	£12.95
8-way	MC8	£2.07	£17.18
11-way	MC11	£4.77	£39.59
<b>Spare terminals.</b>			
Male	MBL6	£1.00	£3.38
Female	FBL6	£1.50	£5.63

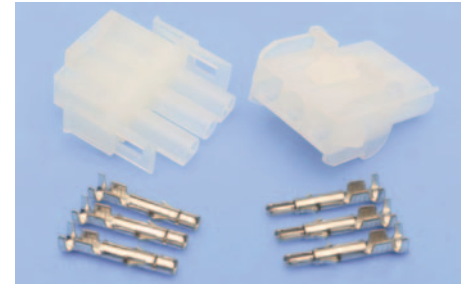
### Multi-Connector Kit

Containing components to make up to 37 assorted connectors as above, 1,2,3,4,6,8 & 11 way. Includes spare terminals. All contained in a tough plastic partitioned case. (Includes crimp tool D1). **Ref:MCK £44.30**



## Multi-connectors

### Mate-N-Lock Connectors



Supplied in sets of male and female housings and terminals. The terminals are first crimped or soldered onto the wire and then pushed into the housing. Tabs on the terminals locate them. The mouldings have latches for mounting into bulkhead if required.

**Overall dims:** (6 way) 22x29x44mm.

For cables up to 2.5mm<sup>2</sup>.

Prices shown for connectors are for complete sets, including both halves and terminals.

Type	Ref.	Each.	Ten.
1-way	MNL1	£1.53	£12.22
2-way	MNL2	£1.14	£9.22
3-way	MNL3	£1.50	£12.05
6-way	MNL6	£2.72	£21.76
9-way	MNL9	£3.65	£29.16
12-way	MNL12	£5.04	£40.34
15-way	MNL15	£6.52	£52.18
<b>Spare terminals.</b>			
		(10)	(50)
Male	3-1210	£2.00	£7.50
Female	3-1200	£2.40	£9.00

### Mate-N-Lock Connector Kit

Containing components to make up to 41 assorted connectors as above, 1,2,3,6,9 & 12 way. Includes spare terminals. All contained in a tough plastic partitioned case. (Includes crimp tool D1).

**Ref:MNLK £80.42**



### Weatherproof Connectors



Supplied in sets of male and female housing, seals and terminals. Rated at 14 amp. Suitable for cables up to 1mm<sup>2</sup>. Weatherproof to IP67.

Type	Ref.	Each.	(10).
1-way	SWP1	£2.34	£19.46
2-way	SWP2	£3.35	£26.78
3-way	SWP3	£3.93	£31.46
4-way	SWP4	£5.52	£44.20
5-way	SWP5	£6.92	£55.38
6-way	SWP6	£8.03	£64.22
<b>Spare terminals.</b>			
Male	3-5550	£1.81	£13.56
Female	3-5560	£1.81	£13.56
Spare seal	3-7740	£1.60	£13.34
Blanking plug	3-7750	30p	£24.90

### Large Superseal Weatherproof Connectors



Larger version of the Superseal Weatherproof connectors, designed for cables 1.00mm<sup>2</sup> to 2.5mm<sup>2</sup>. Rated at 30 amp. Supplied in sets of male and female housing with terminals and cable seals. Weatherproof to IP67.

Type	Ref.	Each.	(10)
1-way	WP1L	£4.30	£38.70
2-way	WP2L	£4.82	£43.38
3-way	WP3L	£9.08	£81.72
<b>Spare terminals.</b>			
Male	3-4500	£0.42	£31.50
Female	3-4510	£0.47	£35.25
Spare seal	3-07510	£0.39	£2.93

# Connectors

## Weatherproof Connector Kit

Containing components to make up to 28 assorted connectors, 1,2,3,4,5 & 6 way (SWP1-6). Includes spare terminals, blanking plugs and D1 crimping tool. All contained in a tough plastic partitioned case.

Ref:SWPK £88.30



**Weatherproof connector kit with ratchet crimping tool.** Contains the same components as above, but with ratchet crimp tool TT77.

Ref:SWPK7 £117.00



## Superseal Crimping Tool



Ratchet crimping tool for weatherproof connector. Spring handle return with ratchet release. Produces an excellent crimp. Length 225mm

Ref:TT77 £44.94

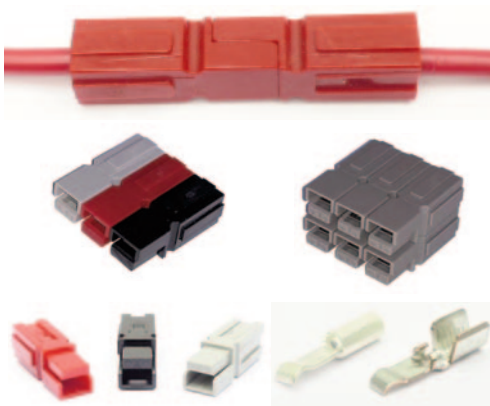
## Terminal Extraction Set

Set of 2 tools for removing latched terminals from mouldings.

Ref: 70399 £31.32



## Modular Interlocking Connectors



These modular connectors are single way connectors that can be interlocked together to form a multiway unit, as shown above.

Both the housings and terminals are genderless (the two halves of a single way connector are identical). Coloured housings provide visual identification for mating connectors. The polarized housings can be interlocked together in different orientations to prevent incorrect connection into similar assemblies. Silver plated terminals.

**Order two housings and two terminals per way.**

Dims of one housing: 25x8x8mm

Standard housings suitable for:

Cable size 1-3mm<sup>2</sup> with 30Amp terminals

Cable size 2-5mm<sup>2</sup> with 45Amp terminals

ZRef	Description	Each	(10)
THR	Red Powerpole housing	83p	£6.23
THB	Black Powerpole housing	81p	£6.08
THG	Grey Powerpole housing	81p	£6.08
TC030	30A Powerpole terminal	66p	£4.95
TC045	45A Powerpole terminal	97p	£7.28



Similar to the above but larger housings suitable for cables size 6mm<sup>2</sup> with 50Amp terminals, and cables size 10mm<sup>2</sup> with 70Amp terminals.

Dims of one housing: 48x17x17mm

Ref	Description	Each	(10)
TH60B	Black housing	£2.14	£16.05
TH60R	Red housing	£2.14	£16.05
TC060S	50A Powerpole terminal	£1.96	£14.70
TC060M	70A Powerpole terminal	£1.92	£14.40

# Connectors & weatherproof junction boxes

## Anderson connectors



For quick and safe connecting and disconnecting of battery or welding cables. Note that two of the same connectors are required to form a connection, see illustration.

Supplied as one connector plus 2 terminals, Colours for connector; Red or grey. Handle is red. (Red and grey connectors are not compatible).

## 50 amp connectors.

Ref.	Description.	Price.
PP50R	Red connector with 16mm <sup>2</sup> terminals	£6.49
PP50S	Grey connector with 16mm <sup>2</sup> terminals	£6.49
180535	Terminals for 6mm <sup>2</sup> cable. (Pair)	£2.62
180390	Terminals for 16mm <sup>2</sup> cable. (Pair)	£2.72
PPHS	Handle. Includes screws & nuts	£4.46
43195	Cover for power contacts when not in use.	£3.43
SB50L	Long dust/moisture PVC protection sleeve	£2.88
SB50S	Short dust/moisture PVC protection sleeve	£2.72

## 175 amp connectors.

Ref.	Description.	Price.
PP175R	Red connector with 50mm <sup>2</sup> terminals	£10.42
PP175S	Grey connector with 50mm <sup>2</sup> terminals	£10.42
180536	Terminals for 35mm <sup>2</sup> cable.	£6.00
PPH1	Handle. Includes screws & nuts	£7.79
PPP1	Cover for power contacts when not in use.	£7.83
SB175	Dust/moisture PVC protection cover	£5.64

## 350 amp connector.

Ref.	Description.	Price.
PP350S	Grey connector with 60mm <sup>2</sup> terminals	£17.31

## Weatherproof Junction Boxes

### Rubber housing with clear plastic lid.

Two mounting studs through base. 8-pole, 16 screw connection block. Dims:127x41x108mm.

Ref:CB8. £19.02



### Universal junction box with o-ring sealed lid.

Weatherproof to IP56. Material: grey ABS



Dims. 150x110x70mm.

REF: 69715 £9.46



Dims: 100x100x60mm.

REF: 69710 £7.24



# Connectors

## Junior Timer Housings

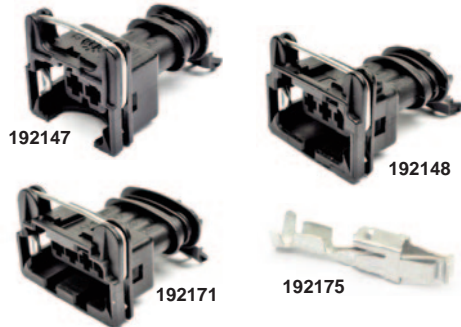
Terminals & boots are not included, please order separately.



Ref.	Part.	Each.	£	(qty).
4145	2 pole female housing	<b>£1.68</b>	<b>£14.00</b>	<b>(10)</b>
192150	Boot for 4145 (57mm)	<b>£1.17</b>	<b>£10.53</b>	<b>(10)</b>
5962	Female terminal	<b>29p</b>	<b>£2.18</b>	<b>(10)</b>

## Junior Power Timer Housings

Terminals & cable seals are not included, please order separately.



Ref.	Part.	Each.	£	(qty).
192147	2 pole female housing	<b>£1.34</b>	<b>£12.06</b>	<b>(10)</b>
192148	3 pole female housing	<b>£2.42</b>	<b>£21.78</b>	<b>(10)</b>
192171	4 pole female housing	<b>£3.15</b>	<b>£28.35</b>	<b>(10)</b>
192175	Female terminal	<b>55p</b>	<b>£4.62</b>	<b>(10)</b>
192177	Cable seal 0.5-1mm²	<b>34p</b>	<b>£2.55</b>	<b>(10)</b>
192178	Cable seal 1.5-2.5mm²	<b>32p</b>	<b>£2.40</b>	<b>(10)</b>
192179	Blanking plug	<b>51p</b>	<b>£3.83</b>	<b>(10)</b>

## Alternator Plug

Includes 2 x 9.5mm terminals (suitable for 3-6mm² cable) and 1 x 6.3mm terminal (suitable for upto 2.5mm² cable)

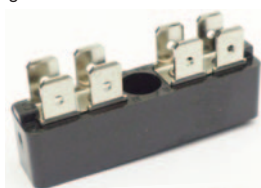
Ref:AP **£3.72**



## Terminal Blocks

Comprising comon banks of plated brass 6.3mm blades on pehnolic base. 4mm fixing hole. 25A rated.

2 banks of 4 way.  
Dims: 50x12mm.  
Height 22mm.  
Ref: 00552 **£4.70 ea**



3 banks of 6 way.  
Dims: 50x28mm.  
Height 22mm.  
Ref: 00553 **£7.20 ea**



## Single Pole Terminal Block.

7 cable screw fix holes.  
Plastic base with mounting lug.  
60x26x23mm (LxWxH)  
Ref: 538 **£8.36 ea**



## Plastic Connector Strip 12 pole, screw terminals



Ref.	Max cable.	Ea.	£(qty)
CB2.5	2.5mm²	<b>69p</b>	<b>£5.18(10)</b>
CB6	6mm²	<b>£1.20</b>	<b>£10.00(10)</b>

## Tap Connectors



C952 takes PRU1211 6.3mm male blade PRU1211.

Ref.	Cable mm².	Ea.	£(qty)
C560	1.5-2.5	<b>15p</b>	<b>£3.12 (50)</b>
C952	1.5-2.5	<b>18p</b>	<b>£6.75 (50)</b>
PRU1211	1.5-2.5	<b>28p</b>	<b>£10.50 (50)</b>

## Tap Connector kit

A selection of 120 tap connectors, plus 5 x C972 fuse holders.  
Supplied in a tough partitioned box with clear hinged lid.

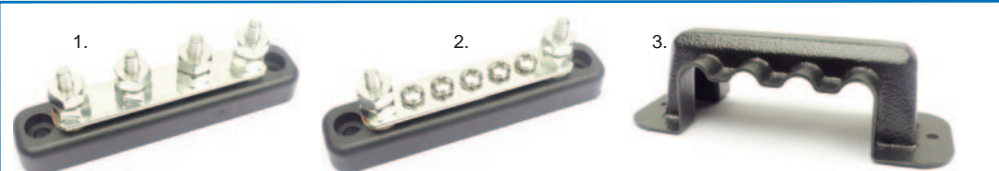
Ref: TCK **£19.85**



# Connectors & busbars

## Busbars & Covers

Dimensions: HxWxD mm



1. Heavy duty busbar with 4x5mm studs. 5mm mounting holes in base.100A rated. 36x104x23mm **Ref: BB104 £11.56**

2. Heavy duty busbar with 2x5mm studs & 5x4mm screw connections. 5mm holes in mounting base. 100A Rated, 36x104x23mm. **Ref: BB105 £10.28 each**

3. Plastic cover to suit BB104 & BB105 heavy duty busbars. 38x143x54mm. **Ref: BBC1 £8.38 each**



Heavy duty busbar with 2x6mm studs & 10x4mm screw connections. 5mm holes in mounting base.150A rated, 36x150x30mm **Ref: BB1510 £17.02 each**



Plastic cover to suit BB1510 heavy duty busbar. 40x190x64mm **Ref: BBC2 £8.56 each**



Heavy duty busbar with 4x8mm studs. 5mm mounting holes in base.250A rated. 42x200x38mm **Ref: BB254 £41.86 each**



Plastic cover to suit BB254 heavy duty busbar. 45x235x70mm **Ref: BBC3 £9.80 each**

## Power Distribution Posts



Single power distribution post, Rated @ 150 amps. Stud size 8mm with 2 x 4mm fixing holes. Glass fibre reinforced nylon base. Stainless steel stud with nickel plated brass nut.

**Ref: BB151R(Red) BB151B(Black)**  
**£4.80 each £43.20 (10)**

## Through Panel Power Post

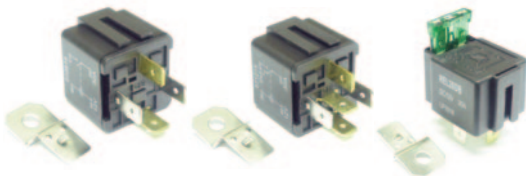
Power post designed to carry heavy duty cable current through panels (max 9.5mm panel thickness). Manufactured from marine grade nickel plated posts and stainless steel nuts. Thread 5/16" Whitworth Voltage 0-48V, Max Amp 250A@12 Vdc. Requires 25mm hole in panel for mounting. Use with PVC boot ref AC3 (page 16)



**Ref: 772R (Red), 772B (Black) £19.70 each**

# Relays

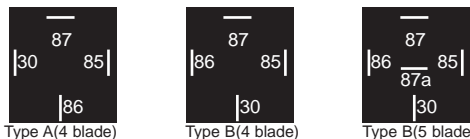
## Relays 12v unless stated.



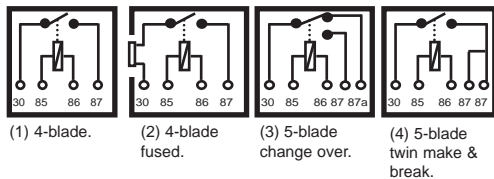
4 Blade relay      5 Blade relay      4 Blade fused relay

Relays with 4 or 5 blade connections. They allow a heavy amp current to be controlled by a light current switch at the facia. Also reduces voltage drop due to long cables & connections. There are two types of terminal layout. We state the type against each relay as it is important if replacing a relay in an existing application.

### Pin layout.



### Relay diagrams.



- (1) 4-blade, this is the most common relay. Use for single circuit on/off applications such as spot lamps, horns, rear screen heater etc.  
 (2) 4-blade fused, similar applications to (1) but these have a replaceable fuse in the accessory circuit.  
 (3) 5-blade changeover, use for applications to change between two circuits, eg, electric aeralis.  
 (4) 5-blade twin make and break. Similar to (1) but with two blades at 87 feed.

'Loose' means the bracket is supplied loose.

'Yes' means the bracket is a fixed part of the relay case moulding.

### 4 blade relays.

Dia.	Ref.	Amp.	Type.	Brkt.	Ea.	(10)
1	R30A	30	A	Loose	£6.60	£49.50
1	R40B	40	B	Loose	£2.23	£16.73
2	R30AF	30-fused	B	Loose	£7.25	£65.21

### 5 blade relays.

Dia.	Ref.	Amp.	Type.	Brkt.	Ea.	(10)
3	R20BC	40/30	B	Loose	£3.13	£28.16
4	R30BT	40	B	Loose	£7.48	£56.10

### 24 volt relay. 4 blade.

Dia.	Ref.	Amp.	Type.	Brkt.	Ea.	(10)
1	72724	20	B	yes	£7.08	£63.72

### 24 volt relay. 5 blade.

3	4251080	20	B	yes	£3.52	£31.68
---	---------	----	---	-----	-------	--------

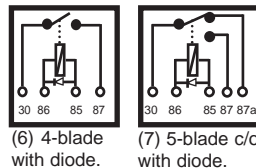
### 6 Volt Relay. 4 Blade

1	160652	20	B	Loose	£5.00	£47.00
---	--------	----	---	-------	-------	--------

## Relays with Diode

### Relay diagrams.

These relays have a diode in the coil circuit to protect against voltage spikes in sensitive circuits. Supplied with loose bracket.



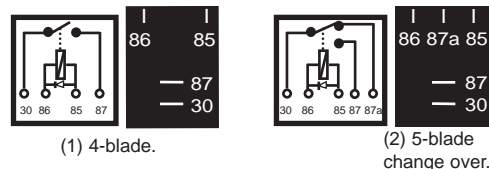
### Relays with diode.

Dia.	Ref.	Blade.	Amp.	Type.	Ea.	(10)
6	72714	4	30	B	£7.10	£53.25
7	72814	5	30/40	B	£6.40	£57.60

## Micro Relays.

These are smaller than the standard relays and have a different pin layout. Pins 30 & 87 are 6.3mm and pins 85, 86 & 87a are 4.8mm blade. With diode protection for sensitive circuits. No brackets on these relays. MR25 dims: 23x15x26mm (excl pins).

### Relay and pin layout diagrams.



### Micro relays.

Diag.	Ref.	Blade.	Amp.	Ea.	(10)
1	MR25	4	25	£4.16	£37.44
2	MR15	5	15/25*	£5.04	£45.36

\*On MR15 terminal 87a is 15A, terminal 87 is 25A.

## High Current Relays.



R70 has 2 x 9mm blade & 2 x 6.3mm blade contacts, if fitting into a socket use RSI9 socket (Page 39)  
 R100R & R200R have 2 x 6.3mm blade contacts and 2 x 6mm stud contacts. These will not fit into sockets.

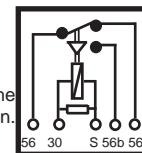
### 12 volt 4 blade high current relays.

Diag.	Ref.	Amp.	Type.	Bracket.	Ea.	(10)
1	R70	70	B	Loose	£6.33	£47.48
1	R100R	100	n/a	Yes	£23.06	£207.54
1	R200R	200	n/a	Yes	£18.83	£169.47

# Relays & relay sockets

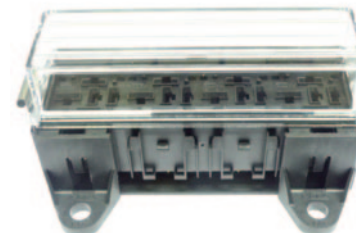
## Latching Relay

This relay has a mechanical latch. When the coil is momentarily energised the contacts operate and 'latch' in that position. To unlatch the contacts, the coil is momentarily energised again. Coil should only be operated momentarily (not continuously) on a **switched earth** circuit. Note: These relays do not fit into sockets. Mounting is by an integral spring clip. 12V 25amps. Ref: 72802 £32.02



Ref.	Voltage	Cuts In	Cuts Out	Ea.
161059	12	13.3V	12.8V	£44.66
161060	24	26.6V	25.6V	£44.66

## Relay Box



Takes up to 4 relays, (4 or 5 blade type). Transparent cover with 'O' ring seal. Can be interlocked with same or with 16-way fuse box (FBB16U on p36) to form a single module of unlimited size. Cables enter under the side or underneath through a hole in the bulkhead. Includes terminals.

Dimensions 122x45x63mm high

Ref:RB4U £19.36 ea.

Note, Not suitable for flasher relays, relays with fixed bracket or relays with fuse (R30AF & 72606)

Spare terminals

For 1-2.5mm<sup>2</sup> cable.

Ref:FBL6 £1.50(10) £5.63(50)

For 2.5-6mm<sup>2</sup> cable.

Ref:FBL66 £1.90(10) £7.13(50)

## Micro Relay Box

Similar to RB4U (above), but for up to 7 **micro** relays.

Ref: RELH705.  
£21.53 ea.



Spare 6.3mm terminals

Ref: FBL6 £1.50(10) £5.63(50)

Spare 4.8mm terminals.

Ref: FBL4 £2.18(10) £8.16(50)

## Sockets For Relays/Flashers

Will fit all of the relays or flasher units from 2-pin to 5-pin. They are supplied with terminals, 'female blade with latch'.

### Trailing Relay Socket.

Suitable where the relay or flasher unit is itself fixed to the bulkhead.

Dims: 22x24x30mm

Ref: RS £1.50 ea, £11.25(10)



Spare terminals.

Ref:FBL6 £1.50(10) £5.63(50)



### Interlocking Relay Socket.

These can be interlocked to form a neat housing for the vehicle relays and flasher units. They also have an integral bracket for fixing to the bulkhead. Dims:(exc bracket) 24x30x36mm.

Ref:RSI. £1.52 ea, £12.70(10)



Spare terminals.

Ref:FBL6 £1.50(10) £5.63(50)



### High Current Relay Socket.

This is similar to RSI but for larger amp relays (R70) & (72706).

Ref:RSI9 £2.20 ea, £18.33(10)



Spare 6.3mm terminals

Ref:FBL6 £1.50(10) £5.63(50)

Spare 9mm terminals

Ref:FBL9 £6.90(10) £25.88(50)

### Micro relay socket.

Similar to RSI but for micro relays MR25 & MR15.

Ref:RSIM. £1.46 ea, £12.19(10)



Spare 6.3mm terminals

Ref:FBL6 £1.50(10) £5.63(50)

Spare 4.8mm terminals.

Ref:FBL4 £2.18(10) £8.16(50)

### Fuse & relay socket.

Takes one standard relay and three standard blade fuses. Includes terminals.

Ref:RS3F. £2.43 each £20.26 (10)



Spare terminals for relay.

FBL6 £1.50(10), £5.63(50)

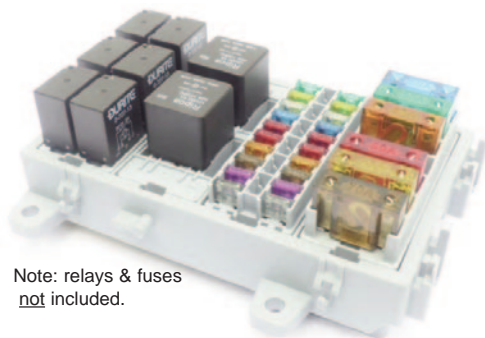
Spare terminals for fuse.

BFT1. (1-2.5mm<sup>2</sup>) 16p ea

BFT4. (4-6mm<sup>2</sup>) 19p ea



# Modular fuse & relay housing system



Note: relays & fuses not included.

A modular system for mounting combinations of fuses and relays. Available to take 1,2,4 or 5 modules. Seven types of modules are available which accept various combinations of maxi blade fuses (FBX), mini blade fuses (FBM), micro relays (MR15,MR25), standard relays (R40B,R30A etc) and Maxi-relays (high current relay R70). The modules are wired from underneath. Terminals are crimped or soldered onto cables then pushed into place. Tabs on the terminals latch them into place.

**Order all parts separately.**  
**(Housing+cover+modules+terminals)**

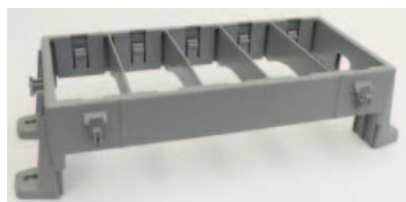
## Four module housing & cover



Accepts any 4 modules. Mounts flush to the bulkhead and is wired through a cutout in the bulkhead.  
Dims. 165x100mm exc lugs. Height incl cover 66mm.

**Housing. Ref:1520X £8.61** **Cover. Ref:1530X £5.76**

## Five module housing & cover



Accepts any 5 modules. Has stand-off mounting lugs that allows for wiring from under sides.  
Dims. 200x100mm exc lugs. Height incl cover 96mm

**Housing. Ref:1450X £12.18** **Cover. Ref:1540X £6.89**

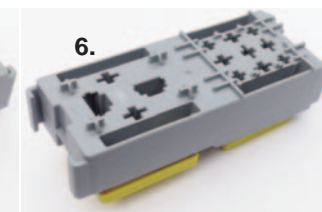
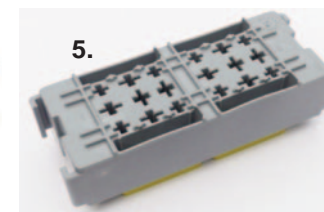
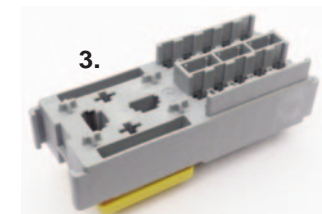
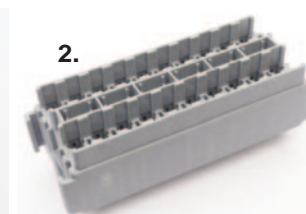
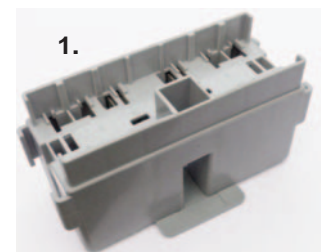
## One & two module mounting brackets & covers

For mounting one or two modules instead of using a 4 or 5 module housings shown opposite.  
Accepts any module. Mounts flush to the bulkhead and is wired through a cutout in the bulkhead.

Ref.	Description.	Each.
1580X	Single bracket (pair)	£7.38
1590X	Single module cover	£14.50
0699X	Double bracket (pair)	£8.60
1550X	Double module cover	£8.72



## Modules



1. Accepts 6 maxi-blade fuses. Integral busbar links fuses. Common feed by M8 stud. ....Ref: 1470X **£17.93**
  2. Accepts 20 mini-blade fuses.....Ref: 1460X **£7.71**
  3. Accepts 10 mini-blade fuses and 1 Maxi-relay. .... Ref: 1510X **£9.58**
  4. Accepts 6 micro relays.....Ref: 1480X **£10.14**
  5. Accepts 2 standard relays..... Ref: 1500X **£12.06**
  6. Accepts 1 standard and 1 Maxi-relay.....Ref:1490X **£9.12**
- Mini-blade fuses can either be fed individually or adjacent fuses linked by a busbar.  
Standard relays use 4 or 5 x 3-2050 terminals. (see below).  
Micro relays require 2 x FH940 terminals and 2 or 3 x FH321 terminals.(see below).

## Terminals for micro and standard relays



Ref	Cable.	Ea.
FH321	1.5-2.5mm <sup>2</sup>	<b>28p</b>
FH940	2.0-2.5mm <sup>2</sup>	<b>36p</b>
3-2050	2.5-4mm <sup>2</sup>	<b>84p</b>

## Terminals for maxi-blade fuses



Ref	Cable.	Ea.
3-7650	1.5-2.5mm <sup>2</sup>	<b>66p</b>
3-7660	4-6mm <sup>2</sup>	<b>80p</b>
3-7670	8-16mm <sup>2</sup>	<b>68p</b>
3-7671	16mm <sup>2</sup>	<b>£1.31</b>

## Terminals for mini-blade fuses

Order 2 terminals per fuse unless using busbar.



Ref	Cable.	Ea.
3-8331	1-2mm <sup>2</sup>	<b>22p</b>
3-8332	2.5-4mm <sup>2</sup>	<b>25p</b>
Busbar terminals, strip of 10		
3-8335	1-2mm <sup>2</sup>	<b>£2.80</b>

## Terminals for power circuit on Maxi-relays

(For coil circuit use same as standard relay (Ref: 3-2050).

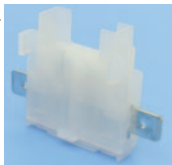


Ref	Cable.	Ea.
3-07740	2.5-5mm <sup>2</sup>	<b>81p</b>
3-07741	6-8mm <sup>2</sup>	<b>63p</b>

## Fuse holders *Fuses not included.*

### Standard blade fuse holders

**Ref:220.** Interlocking fuse holder.  
6.3mm male blade contacts.  
**£1.25 ea, £9.38(10)**



**Ref:210P.**  
Mounting plate & screw.  
**26p ea, £2.16(10)**

**Ref:210.**  
Interlocking fuse holder. 6.3mm  
male blade contacts underneath.  
**98p ea, £8.13(10)**



**Ref:210P.**  
Mounting plate & screw.  
**26p ea, £2.16(10)**

**Ref:210C.**  
Clear cover.  
**19p ea, £1.60(10)**

**Ref:FHA16.**  
Interlocking fuse holder. Screw fixing lugs.  
Insulated 6.3mm male blade contacts.  
**98p ea, £8.13(10)**



**Ref: FH450**  
Add a circuit blade fuse holder.  
Fits all of our standard blade fuse  
holders and boxes. Cable size  
1.5mm<sup>2</sup>, 10 Amp max  
**£2.40 ea, £21.60(10)**



**Ref:FH570.**  
Snap fits into a panel to give a flush fit.  
6.3mm male blade contacts at back.  
Aperture size is 11x23mm.  
**£1.06 ea, £8.80(10)**



#### FH430 & FH440

Wired standard blade fuse  
holder, with splashproof  
hood.



**Ref:FH430** 20 amp. **£2.43 ea, £21.89(10)**  
**Ref:FH440** 30 amp. **£2.75 ea, £24.71(10)**

### Tap Connector Blade Fuse Holder

Snaps onto the cable ends without  
the need for terminals or cable strip-  
ping. Uses a similar method to  
'scotchloks'. Takes a standard blade  
fuse. Fits cables up to 2mm<sup>2</sup>.

**Ref: C972** **59p ea, £22.122(50)**



6.3mm male blade contacts  
underneath. Clip on transpar-  
ent lid.  
Dims: W:26mm, H:58mm



Ref	Ways	Length	Ea	(10)
FHA40	4	65mm	£2.31	£17.33
FHA60	6	85mm	£3.11	£23.33

### Surface mount fuse boxes

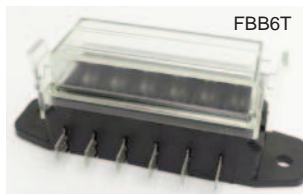
Side entry 6.3mm male  
blade connectors.

Screw-on transparent  
cover.  
2, 4 & 6 way have a single  
cover, 8 way has a two-  
piece cover.  
Dims:W:52mm, H:52mm  
(including cover nut)



Ref	Ways	Length	Ea	(10)
LFB04	4	87mm	£4.76	£42.84
LFB06	6	117mm	£6.00	£54.00
LFB08	8	152mm	£7.70	£69.30

Clip on transparent  
cover.  
Rubber 'O' ring seal in  
lid  
Dims:  
W:29mm, H:36mm



Ref	Ways	Length	Ea	(10)
FBB4T	4	80mm	£4.30	£32.25
FBB6T	6	100mm	£4.97	£41.75
FBB8T	8	120mm	£6.41	£55.13

### Splashproof fuseholders

Comprises of fuse holder, lid,  
silicone seal, 2 terminals & locking  
bar. Can be clipped together.

Ref	Cable size	Ea	(10)
FH241	1-2mm <sup>2</sup>	£2.46	£22.14
FH242	2.5-6mm <sup>2</sup>	£2.35	£21.15

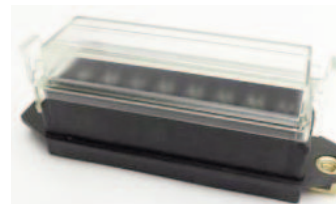
Spare terminals for:  
FH241- Ref: 3-7900 **£2.70 (10)**  
FH242- Ref: 3-7901 **£2.91 (10)**

**Mounting plate.** For FH241 & FH242  
**Ref:FH500P. 58p ea, £5.29(10)**



## Fuse holders *Fuses not included.*

### 16-way fuse box



**Ref:FBB8U**, 8-way fuse box. Fits into an aperture  
27x88mm. Male 6.3mm blade contacts underneath.  
Rubber 'O' ring seal in lid. **£5.29 ea, £47.61(10)**



Dims: (mm)  
45W(exc feet)x63Hx122L

### 12 way fuse block. With negative busbar & clear cover



Consists of two separate banks of 6 fuses, each bank has  
a common feed for main connection via a 5mm stud.  
Outputs are via 4mm screw connections. A common nega-  
tive (5mm stud) provides 12 x 4mm screw connections for  
negative connections. Fuses not included.

Ratings:- 30A per fuse 100A per bank.  
Dims (LxWxH) 164 x 84 x 57mm **Ref: 5026B £29.00**

### 6 way fuse block With negative busbar & clear cover

6 Way fuse box with screw  
down transparent lid.  
Contains 2 positive circuits  
and 1 negative circuit via a  
5mm stud connection.  
Fuse outputs and negative  
connections are via 4mm  
screw type connections.  
Rated @ 30A per circuit  
and maximum 100A per  
box.

Dims:123x94x57mm  
(LxWxH)  
**Ref: 5025A £31.24**



### LED Fuse box

Fuse box with common feed and blade connectors. 5 mm.  
stud for common feed, and 6.3mm blade terminals.  
LED lights up next to the fuse in the event of a blown fuse.  
4 mounting holes and clear plastic lid. Takes standard blade  
fuses. 30 Amp maximum per circuit.

**Ref:FHAL104**  
4 way. **£10.36**

**Ref: FHAL106**  
6 way. **£15.52**

**Ref:FHAL110**  
10 way. **£22.84**



### Weatherproof 10 way LED Fuse Box

Surface mounted LED fuse  
box for 10 standard blade  
fuses. Fully weatherproof  
with a silicone sealed lid &  
rubber seal on base.  
Dims: 125x 90 x 30mm(h).  
Ratings 32 VDC max, 25A  
max per circuit. 6.3mm  
blade connections to rear.  
**Ref: FHAWP10 £26.12**





## Fuse holders *Fuses not included.*

### Mini blade fuse holders

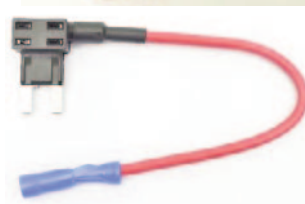
Wired mini-blade fuse holder, with splashproof hood.

Ref: FH580 20 amp.  
£2.00 ea, £18.00(10)  
Ref: FH590 30 amp.  
£2.02 ea, £18.20(10)



Add a circuit mini blade fuse holder. Fits all of our mini blade fuse holders and boxes.

Cable size 1.5mm<sup>2</sup>, 10A Max  
Ref: FH597 2.75ea,  
£24.75(10)



### Maxi blade fuse holders

Splashproof maxi-blade fuseholder.



Comprises maxi-blade fuse holder, lid & seal, bottom cover, 2 terminals & locking bar. Can be clipped together.

Ref.	Fit cable.	Ea.	10
FH602	4-6mm <sup>2</sup>	£5.02	£41.85
FH603	6-10mm <sup>2</sup>	£5.04	£42.01

Mounting plate, for the above fuseholders, FH602/3

Ref: FH500P. 58p ea, £5.29(10)



Wired maxi-blade fuse holder, with splashproof hood.

60Amp Max  
Ref: FHA22  
£6.70 ea, £55.80(10)



### Midi & Mega fuse holders

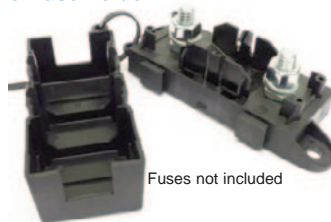
#### Strip/midi fuse holder

Suitable where a larger amp fuse is required. Takes strip or midi fuses. Snap shut lid. Mounting lugs. Use 5mm rings on the cable ends. Max cable 16mm<sup>2</sup>

Ref: FH560  
£2.76 ea, £24.84(10)



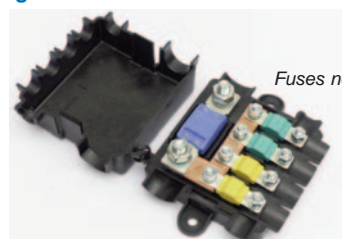
#### Mega power fuse holder



Fuses not included

Suitable where a very large amp fuse is required. Snap shut lid. Mounting lugs. Use 8mm rings on the cable ends. Fuse not included. Ref: 37685 £7.22 ea

#### Midi/Mega fuse holder



Fuses not included.

Takes 1 x Mega fuse and 4 x midi fuses. Busbar link. Left or right cable entry. With cover. Ref: MFB1 £25.00

### Continental fuse holders

Spring loaded. Cable held by screw fixing. Fitted with a 16 amp fuse.

Ref: FHA8  
£1.56 ea, £14.04 (10)



Fuse boxes for continental fuses. Screw connections for the cable. Clear see through lid, held on with single knurled screw. Supplied with 8A fuses



CL1352

Ref.	Type.	Ea.	(10)
CL1351	4-way	£6.72	£50.40
CL1352	6-way	£9.56	£86.04

## Fuse holders & fuse kits.

### Glass cartridge fuse holders

Spring loaded, nylon. Takes glass or ceramic fuses. 20-32mm Max. 20 amps.  
Ref: INF £1.33 ea,  
£11.05(10)



#### Splash-proof.

Moulded in polybutene with PVC grommets, nitrile 'O' ring and screw terminal of nickel plated brass. Takes glass fuses 30-32mm.  
Ref: 58490. £7.84 ea.

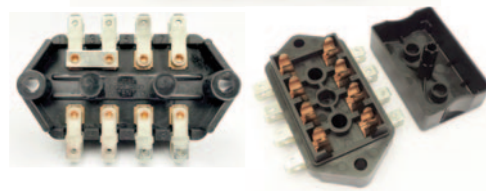


Panel mounted. Takes 30-32mm glass fuse held within removeable cap. Fits 14.5mm panel hole. Overall length 58mm.  
Ref: 59150 £4.25 ea.



### 4 way glass fuse holder

Lucas



Takes 30mm glass fuses as listed on page 40. Note: terminals 1 & 3 are linked, see image. Surface mounting.  
Ref: 23707 £21.57 ea.

### Blade, glass, ceramic Fuse Kit



200 assorted fuses in all sizes of standard blade, continental & 30mm glass. All in a tough shatterproof plastic partitioned case. Ref: FK. £25.92

### Standard blade fuse kit



100 assorted standard blade fuses in all sizes. Contained in a see through partitioned case. Ref: 5005230 £14.40

### Mini blade fuse kit.

As above but with 100 assorted mini blade fuses in all sizes. Contained in a see through partitioned case.  
Ref: 5005240 £18.10

### Fuse puller

For easy removal of blade fuses.  
Ref: BFP 58p ea, £4.35 (10)



# Fuses

## Mini-Blade Fuses

20p ea, £7.44 (50 in one size)

Ref.	Continuous.	Fusing.	Colour.
FBM2	2 amps	4 amps	Grey
FBM3	3 amps	6 amps	Violet
FBM5	5 amps	10 amps	Tan
FBM7.5	7.5 amps	15 amps	Brown
FBM10	10 amps	20 amps	Red
FBM15	15 amps	30 amps	Lt.Blue
FBM20	20 amps	40 amps	Yellow
FBM25	25 amps	50 amps	White
FBM30	30 amps	60 amps	Lt.green

## Standard Blade Fuses

15p ea, £3.96 (50 in one size)

Ref.	Continuous.	Fusing.	Colour.
FB3	3 amps	6 amps	Violet
FB4	4 amps	8 amps	Pink
FB5	5 amps	10 amps	Tan
FB7.5	7.5 amps	15 amps	Brown
FB10	10 amps	20 amps	Red
FB15	15 amps	30 amps	Lt.Blue
FB20	20 amps	40 amps	Yellow
FB25	25 amps	50 amps	White
FB30	30 amps	60 amps	Lt.green

## Automatic indicating glow fuses

These are standard blade fuses with a tiny LED built into the fuse. This lights up if the fuse blows, giving a clearly visible indication of which fuse has blown.

87p ea, £6.53 (10 in one size)

Ref.	Continuous.	Fusing.	Colour.
FBG3	3 amps	6 amps	Violet
FBG5	5 amps	10 amps	Tan
FBG7.5	7.5 amps	15 amps	Brown
FBG10	10 amps	20 amps	Red
FBG15	15 amps	30 amps	Lt.Blue
FBG20	20 amps	40 amps	Yellow
FBG25	25 amps	50 amps	White
FBG30	30 amps	60 amps	Lt.green

## Maxi-blade fuses

85p ea, £7.12 (10 in one size)

Ref.	Continuous.	Fusing.	Colour.
FBX20	20 amps	40 amps	Yellow
FBX30	30 amps	60 amps	Green
FBX40	40 amps	80 amps	Orange
FBX50	50 amps	100 amps	Red
FBX60	60 amps	120 amps	Blue
FBX70	70 amps	140 amps	Tan
FBX80	80 amps	160 amps	Natural

Prices ex-vat.

Glass cartridge 25mm			
60p ea, £4.50 (10 in one size)			
Ref.	Continuous.	Ref.	Continuous.
F25G10	10 amps	F25G25	25 amps
F25G15	15 amps	F25G30	30 amps
F25G20	20 amps		

Glass cartridge 30mm			
20p ea, £7.50 (50 in one size)			
Ref.	Continuous.	Fusing.	
FG2	1 amps	2 amps	
FG5	2.5 amps	5 amps	
FG10	5 amps	10 amps	
FG15	7.5 amps	15 amps	
FG25	12.5 amps	25 amps	
FG35	17.5 amps	35 amps	

Continental fuses			
15p ea, £3.75 (50 in one size)			
Ref.	Continuous.	Fusing.	Colour.
FC5	5 amps	10 amps	Yellow
FC8	8 amps	16 amps	White
FC16	16 amps	32 amps	Red
FC25	25 amps	50 amps	Blue

Strip fuse			
41p ea, £3.08 (10 in one size)			
Ref.	Continuous.	Fusing.	
FS30	30 amps	60 amps	
FS40	40 amps	80 amps	
FS50	50 amps	100 amps	
FS80	80 amps	160 amps	

Midi fuse			
£2.48 ea, £22.32 (10 in one size)			
Ref.	Continuous.	Ref.	Continuous.
MIDI 30	30 amps	MIDI 70	70 amps
MIDI 40	40 amps	MIDI 80	80 amps
MIDI 50	50 amps	MIDI 100	100 amps
MIDI 60	60 amps		

Mega fuse			
£3.46 ea, £31.18 (10 in one size)			
Ref.	Continuous.	Ref.	Continuous.
MEGA100	100 amps	MEGA200	200 amps
MEGA125	125 amps	MEGA225	225 amps
MEGA150	150 amps	MEGA250	250 amps
MEGA175	175 amps	MEGA300	300 amps

Blade circuit breakers 12-24v			
Standard blade size circuit breaker. Features a manual reset only button. Due to the height will not fit into fuse boxes with covers apart from 5025A & 5026B.			
Ref.	Trips at.	£6.23 each	
SCB10	10A		
SCB15	15A		
SCB20	20A		
SCB30	30A		

# Flasher units

## Flasher units 12v

RFL1	RFL2H	RFL3 RFL3/24
RFL5	RFL6	RFL7
RFL9	SFB115	W10061

Electro-mechanical flasher relays.				
Ref.	Indicators.	Hazards.	Towing.	Ea.
RFL1	2x21w(+5w)	NO	NO	£2.63
RFL2H	NO	4x21w	NO	£3.78
Electronic flasher relays.				
Ref.	Indicators.	Hazards.	Towing.	Ea.
RFL3	2x21w(+5w)	4x21w+(5w)	NO	£6.93
RFL5	2x21w(+5w)	4x21w+(5w)	NO	£7.60
RFL6	2x21w(+5w)	4x21w+(5w)	3-6x21w+(5w)	£13.80
RFL7	2x21w(+5w)	4x21w+(5w)	3-6x21w+(5w)	£16.59
RFL9	2x21w(+5w)	4x21w+(5w)	NO	£9.48

Lucas 12V 2pin flasher relay(Positive & Negative earth systems)				
Ref.	Indicators.	Hazards.	Towing.	Ea.
SFB115	2x21w(+5w)	4x21w+(5w)	NO	£7.00
W10061	Housing for SFB115 flasher relay			£7.90

24 volt Electronic flasher relay			
Ref.	Indicators.	Hazards.	Towing.
RFL3/24	2x21w(+5w)	4x21w+(5w)	NO

Terminal reference guide.				
	U.K/USA	Germany.	France.	Japan
Supply	X,B,+	49,15	+	B
Earth	-,E	31	-	E
Ind switch	L	49a	C,COMM	L
Vehicle w/lamp	P	C	R,Rep	
Trailer w/lamp	L1	C2	R2	

Prices ex-vat.

## Motorcycle flasher units

Indicator relay with rubber holder. All 2 pin flasher units are suitable for Positive & Negative earth systems. On WRE05 & 6 the 3rd pin is for warning lamp

Ref.	Volts.	Pins	Bulbs	EA.
WRE01	6V	2	2 x 8-10W	£6.98
WRE02	12V	2	2 x 8-10W	£6.98
WRE03	6V	2	2 x 18-23W	£6.98
WRE04	12V	2	2 x 18-23W	£6.98
WRE05	6V	3	2 x 18-23W	£6.98
WRE06	12V	3	2 x 18-23W	£6.98

## Flasher units for LED indicators

LEDs use less power than bulbs, so if bulbs are replaced by LED's a special LED flasher unit may be needed to operate correctly. 12V 10W max. 2 pin

Ref: LED01 £11.98

## Self adjusting 12V LED Flasher unit.

Enables a mix of LED & bulb indicators on the vehicle to flash at the correct rate.

Ref: WFL7LED £13.34

## Smart load resistor

Use with LED indicator lamps where original flasher unit is retained. Supplied as a pair.

Ref: LEDNAS £15.38 (Pair)

## Timing & warning relays & buzzer 12v

1	2	3	4
---	---	---	---

### 1. Lights on relay buzzer.

Buzzes if the door is opened with the lights on. (Fits Neg earth only) Ref:GLR3. £14.32

### 2. Cab buzzer.

Small compact unit, 34x38mm dia. Can be used for an audible warning. operates without arcing. Ref:5807 £7.86

### 3. Windscreen wiper intermittent timer.

Switches on every 5 seconds. Ref:GLR8. £23.96

### 4. Heated rear window timer.

Switches the rear window heater off after 10 minutes. Rated at 20A Ref:GLR10. £22.72

Page 43

Sales Tel: 0115 9305454

Page 42

Sales Tel: 0115 9305454



## Lever switches

**Notes:** 'MOM' in a switch specification means momentary, ie only on whilst pressed, suitable uses are head-lamp flash, windscreen wash, starter button, horn.

**Double Pole** switches can be used to switch two separate circuits, eg, hazard warning switch. Can also be used for single circuit applications, eg spotlights.

**On/On** is a change over switch suitable for dip, or two speed fan, or two speed wipers etc.

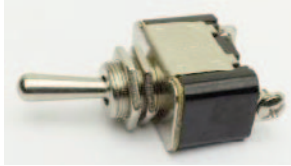
Where a heavy current is to be switched, such as a starter solenoid, heated screen, horns etc, we suggest that you include a relay to protect the cable and switch.

### Heavy Duty Metal Lever Switch with Screw Connections

Toggle switches with silver contacts and screw connections. Fit 12mm hole. 25amps @ 12volt.

£2.72 ea

Ref	Description
E891	Off/on
E893	On/off/on



### Heavy Duty Metal Lever Switch with 6.3mm Spade Connections

Toggle switches with silver contacts and 6.3mm male blade connections. Fit 12mm hole. 25amps @ 12volt.

£2.68 ea

Ref	Description
E895	Off/on
E898	On/on
E899	On/off/on



### Double Pole Metal Lever Switch

Fits 12mm dia hole.  
6.3mm male terminals.  
10A@12vdc.

Ref.	Detail.	Ea.
JK26	Off/On	£5.56
JK29	On/on	£5.78
JK30	On/Off/On	£6.00



### Toggle Switches with LED

Toggle switch with LED in toggle.  
6.3mm connections. Fits 12mm hole.  
**Off/On**  
20amps @ 12volt.

Ref: E894 Red  
Ref: GE35LG Green  
Ref: GE35LB Blue  
Ref: GE35LA Amber  
£4.00 ea



### Metal Lever Switch

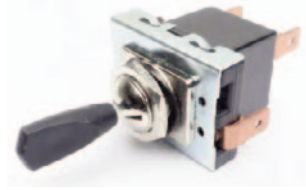
Fits 13mm dia hole.  
20A. @12v.



Ref.	Detail.	Ea.
60300	Off/On.	£7.52
68701	Off/Mom.	£10.96
49600	Mom/Off/Mom.	£8.98
64500	Lights, Off/side/head.	£10.70

### Lucas Type Toggle Switches

Heavy duty with metal body and plastic toggle lever.  
Off/Sidelights/Headlights Fits 14mm hole.  
Switch body dims:  
37x27x31mm deep.  
10A@12V, 5A@24V.  
Ref: SW42 £13.90



Lucas type heavy duty switches with metal body and plastic toggle lever.  
Fit 13mm hole.  
10A@12V,  
5A@24V

Ref.	Detail.	Ea.
SW45	Off/On (Replaces Lucas SPB200)	£8.50
68711	Off/mom	£12.92



### Splashproof metal lever switch Fitted with rubber gaiter.

Fits 13mm dia hole.  
Single pole. 20A. @12v



Ref.	Detail.	Ea.
60350	Off/On.	£10.62

## Lever switches

### Switch with flip up cover



25A On/Off toggle switch with red flip-up aircraft cover.  
Silver contacts. Brass screw connections.  
Fits 12mm dia hole. Ref: GE345 £6.72

### Plastic lever switch

Fit 12.5mm dia hole.  
Single pole with 27mm lever.

Ref	Description	Ea.
FSL90	Off/on	£1.24



### Illuminated indicator switch

On/off/on switch with green light in toggle.  
Fits 18.5mm dia hole.  
Toggle length 36mm.  
Screw terminals. 6A@12V  
Ref:325302 £18.34



### Metal Lever Switch Accessories



Waterproof screw on hood. Will fit all the above metal lever switches. Ref: LHD £2.00

Steel off/on facia plate. Will fit all the above metal lever switches. Ref: 60306 £1.12

### Flip up aircraft toggle cover



Fits onto toggle switch by 12mm Dia hole. £3.36 ea  
Ref: E889 Red Ref: E889U Blue Ref: E889G Green

### Carbon Fibre Style Panels



Carbon fibre style automotive starter switch panel incorporating red LED on/off toggle switch with flip up cover, red warning light and illuminating engine start push switch. Ref: SW601 £21.72



Red LED toggle switch with flip up cover and a red LED warning light in a carbon fibre style panel. Dims: 36mm x 95mm.  
25A @ 12v  
Ref: SW602 £10.56

### Indicator stalk switch



On/off/on switch. Fits around 35-40mm dia steering column. Stalk length 121mm. 6A@12V.  
Ref:61200 £23.43

As above but with green illuminating stalk end.  
Ref:180039 £28.80

# Switches

## Momentary Push Button Switches

Only on whilst pressed

Fits 12.5mm dia hole. 10A@12vdc



Ref.	Detail.	Ea.
24DB	Off/Mom. Black button.	£6.20
24DR	Off/Mom. Red button.	£7.06
29F	Chrome bezel nut.	£4.50
PHD	Waterproof hood, with nut & sealing washer.	£4.72

Metal body, chromed bezel screw connections. Fits 22mm hole. Use as starter button. 8 Amp rated

Ref: T721 £8.10



Red button, aluminium bezel. Fits 22mm dia hole. 6.3mm blade connections. 8 Amp rated

Ref: 63230 £8.72



Red illumination, chromed plastic bezel. Fits 20mm.hole. Screw terminals. 50A @12V.

Ref: GE338 £10.40



Plastic body and bezel, blade connections. Fits 22mm hole. Includes optional weatherproof rubber hood. 8 Amp rated

Ref: T720 £7.46



Plastic body and bezel, screw connections. Fits 25mm hole. 16 Amp rated

Ref: PBS002 £1.93



30 amp push button starter switch with rubber button cover. On whilst pressed. Screw connections. 27mm dia bezel, fits 16mm hole.

Ref: GE34 £5.04



Stainless steel pushbutton. 22mm dia bezel, 19mm dia fixing hole. Screw connections. 20 Amp rated

Ref:48503 £6.66



## Push-on, push-off

Momentary push-on switch. Snap fits into 20mm dia hole. 4.8mm blade terminals. 10A@12V.

Ref: 69050 £4.02



## Splashproof Push Switch

12A@12vdc. Switch fits into 22mm dia hole. Only on whilst pressed. Two moulded rubber boots. Screw terminals.

Ref:48550 £14.70



## Horn Push Switch

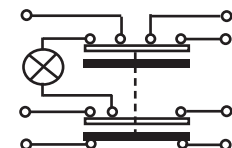


Surface mounting horn push switch. Lucas SPB160. 38mm diameter. Screw connections.

Ref: 48575 £10.92



## Hazard Warning Switch



Push on, push off, illuminated hazard warning button. Bezel 38mm dia. Fixing hole 30mm dia. 6.3mm blade connections. Supplied with full instructions.

Ref:517202 £29.11

Connector housing for hazard switch. Supplied with terminals

Ref: CONHOUS £2.20 ea



# Switches

## Rotary Switches.

### Rotary light switch.

German made 29v amp . Moulded in black plastic. Splashproof. Positions marked on the face of knob. Fits 12mm dia hole. Off/Side/Headlight

Ref:65604 £19.54



Switches 1 & 2 fit 26.5mm hole. Screw connections at rear.

### 1. Indicator switch.

3-position on/off/on Green illumination when on. Suitable for bulb indicators only-not LED

Ref:48400. £24.00



### 2. Indicator switch.

3-position. on/off/on.

Ref:48300. £14.70



Rotary wiper switch for 2 speed motors with self park function. 6.3mm blade terminals. Rated 10A @ 12V Fits a 11mm hole.

Ref: 64650 £21.40



Large rotary light switch with off/side/dip & main beam positions horn push. Ideally suited to plant & agricultural operations. Switch rating 20A lights/4A horn @ 12V. Fits 14mm panel hole.

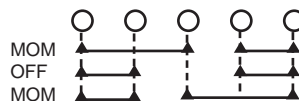
Ref: 64570 £10.28



## Up/down switch

Mom/off/mom rocker switch with arrow markings. Suitable for electric aerial, windows etc. Connections 4.8mm blade. 20 Amp rated. Bezel 21x41.5mm, fits aperture 18x36.5mm.

Ref: E697 £5.74



## Chunky Rocker switches

Switch dims: 22mm x 37mm. Fits aperture: 20mm x 34mm. 10A@12vdc.



1. Double pole. Off/On

Ref:841.£2.57

2. LED in rocker. Single pole. Off/On

Ref:E611 Amber, E614 Red, E613 Green. £6.34

## Hazard switch

Hazard warning rocker switch. Bezel 21x40mm. 4.8mm blade connections.

Ref: 0635 £9.16



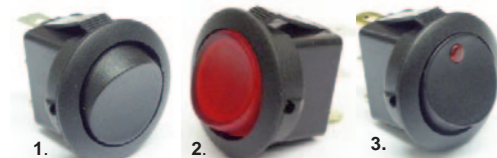
## Oval Rocker Switches with LED

Dims 32x20mm. Surface mount, secured through a 12mm dia hole with rear locknut. 6.3mm connections. 16amp @ 12volt. Off/On

Ref: E471 Amber  
Ref: E473 Green  
Ref: E474 Red  
£2.00 ea



## Mini Round Rocker Switches



Round body 23mm dia bezel. Fits 20mm dia hole. 4.8mm connections. 16amp @ 12volt. (unless stated)

Illus.	Ref	Description	£(ea)
1	E725	On/on (can be used as off/on)	£2.18
2	E724	Off/on illuminating red	£2.63
3	E732	Off/on with blue LED	£2.55
3	E734	Off/on with red LED	£2.55
4	734R	Rear fog with LED	£5.52
5	735F	2 speed fan, amber LED	£5.06
6	53101	Off/on (10 amp)	£2.10



# Switches

## Ignition Switches Includes 2 Keys.

**4-Position**  
(1-0-1+2-start)  
With chromed bezel,  
fits 19.5mm hole.  
**Ref T773 £15.75**



Splashproof cover for T773  
**ref:T773C.....£0.99**

**2-Position**  
(0-1) Off/On,  
fits 17.5mm hole.  
**Ref: 35101 £30.58**



**4-Position**  
0-1-1+2-start),  
fits 22mm hole.  
**Ref: 35105 £40.00**

Replacement key for 35101 & 35105 **Ref: 35109 £6.70**

## Diesel Start Switches



**4-Position.** Off, Ignition, Pre-heat, Start.  
Includes 2 simple keys. 16mm fixing hole  
**Ref: 35106 £16.94**

**5-Position.** Off, Accessory, Ignition, Pre-heat, Start.  
Includes 2 simple keys. 19mm fixing hole  
**Ref: 35108 £18.20**

Spare Key for 35106 and 35108 **Ref: 35110 £3.10**

## Hydraulic brake light switches

Normally open contact. Switch operates at 65psi.  
Need 6.3mm female blades for wiring connection.



Imperial thread 3/8 UNF  
**Ref:LMA488U £13.00**



Metric thread M10 x 1.0mm  
**Ref:LMA488M £12.44**

## Pull switch for lights

**Off/side/main.**  
Fits 10.5mm hole. 10Amps.  
Screw connections.  
**Ref:64550 £11.14**



## Illuminated pull switch

Pull on, push off.  
Fits 12.5mm hole.  
6.3mm blade connections.  
Off/On. Rated 10 Amp

**£9.54**  
Amber - Ref. 59710  
Green - Ref. 59704  
Red - Ref. 59705  
Replacement bulb ref:281 53p ea



## Door Switch

Cut plunger to length required  
Metal body,  
**Ref: D465 £1.51**



## Floor Mounted Dip Switch

Click on, click off.  
6.3mm blade connections  
**Ref: LMA727 £13.82**

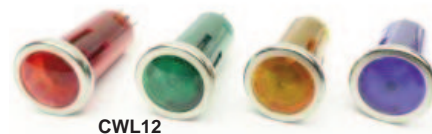


## Symbol Sheet



**White** switch and function identification symbols and words printed on a self adhesive **transparent plastic sheet**. Simply cut out the symbols or words required, peel off the backing paper and fix to the switch or fascia etc. Result looks neat and professional.  
Each sheet contains 149 symbols / words.  
**Ref:SYM £1.62 each**

# Warning lights



CWL12

CWL12. with chromed bezel.  
Non-replacement bulb. 12 volt only.  
Fits 12.5mm hole, with 6.3mm blade terminals.  
**Red, Green, Blue, Amber. £1.52 ea**



WL609

WL609. Has a brushed steel metal rim & uses a replaceable BA7 bulb. Fits 12.5mm hole, with 6.3mm blade terminals. **Red, Green, Blue, Amber. £3.62 ea**  
Fitted with a 12 volt 2w bulb (Ref 281).

## Warning Lights with Symbol



Chrome bezel. Non replacement bulb.  
Fits 12.7mm dia hole. 12 Volt. **£3.50 ea**

Symbol.	Ref	Symbol.	Ref
1 Oil	L1252	7 Rear Fog	L1244
2 Headlights	L1250	8 Indicators	L1242
3 Direction	L1251	9 Front Fog	L1243
4 Battery	L1248	10 Hazard	L1245
5 Brakes	L1249	11 Lights	L1241
6 F/Screen demist	L1260	12 Fan	L1246

## LED Warning Lights



Illus.	Ref.	Colour.	Fit hole.	Volt.	Ea.
1	LED607R	Red.	8.2mm	12v	£5.02
1	LED607G	Green.	8.2mm	12v	£5.02
1	LED607A	Amber.	8.2mm	12v	£5.02
1	LED607RF	Red flashing.	8.2mm	12v	£6.00
2	LED607U	Blue.	8.2mm	12v	£4.04
3	LEDGWLR	Red.	13mm	12v	£10.18
3	LEDGWLG	Green.	13mm	12v	£10.18
3	LEDGWLA	Amber.	13mm	12v	£10.18
4	60735	Red.	20mm	12/24v	£4.72
4	60734	Green.	20mm	12/24v	£4.72
4	60740	Amber	20mm	12/24v	£4.72
4	60732	Blue.	20mm	12/24v	£4.72

Notes; Items 1 & 2 have leads, item 3 has 2.8mm blades, item 4 has 4.8mm blades. All LED's are polarity sensitive.

## Large Warning Lights

Black bezel 24mm dia.  
Fits 17mm dia hole. Screw terminals  
Fitted with a BA9s 12V 2W bulb  
Amber **Ref:GE39A.** Red **Ref:GE39R**  
**£1.93 ea.**



## Large Warning Lights with Symbols



Fits 24mm hole.  
**£7.56 ea**

Takes BA9s 2w bulb, not included.  
12V 2W ref 288 **50p** 6V 2W ref 287 **62p**

Colour.	Symbol.	Ref.
1 Red	Battery.	60951
2 Red	Oil.	60953
3 Red	Brakes.	60956
4 Green	Indicators.	60957
5 Orange	Heater.	60959

# Bulbs

## Xenon

### H1&H4 Premium Headlight Bulbs

Up to 100% brighter than conventional halogen bulbs. Longer range. Uses no extra power. No need to alter wiring or switches. UV filter, so safe to use with plastic headlamps, reflectors or lenses. Easiest way to upgrade your lighting, simply take out the old and replace with these **Xenon** bulbs.



### 12V Halogen Bulbs

Ref.	Watts.	Type	Replaces	(Pair)
R872	60/55	H4 P43t	472	<b>£13.48</b>
R848	55	H1	448	<b>£12.60</b>

## Headlight, Driving & Front Fog Bulbs



Ref.	Type.	Volts.	Watts.	Ea.
472	P43t H4 Halogen	12	60/55	<b>£2.45</b>
475	P43t H4 Halogen	24	75/70	<b>£4.62</b>
473	P43t H4 Halogen	6	35/35	<b>£7.30</b>
HB12	P45t H4 Halogen	12	60/55	<b>£4.37</b>
410	P45t Asymmetric	12	45/40	<b>£2.00</b>
396	BA20d Bosch	12	45/40	<b>£2.00</b>
414	P36d BPF	12	50/40	<b>£3.78</b>
312	P36d BPF	6	30/24	<b>£3.78</b>
447	Halogen H7	12	55	<b>£4.20</b>
448	Halogen H1	12	55	<b>£2.35</b>
453	Halogen H3	12	55	<b>£2.35</b>

Lucas LED Headlamp Bulb. For BPF lamps. Suitable for positive or negative earth 6 & 12V systems.  
Ref: BFPLED **£15.90**

## Bayonet Type. Sidelight, Tail, Stop, Indicator & Panel Bulbs



### BAY15d (offset pins)

Ref.	Volts	Watts	Dims(AxBxC)	Ea.	(10)
380	12	21/5	25x47x15	<b>69p</b>	<b>£5.18</b>
384	6	21/5	25x47x15	<b>£1.17</b>	<b>£8.78</b>
380R (Red)	12	21/5	25x47x15	<b>£1.42</b>	<b>£10.76</b>
BLB02	12	21/5	18x34x15	<b>£1.40</b>	<b>£12.60</b>
13047	6	21/3	18x34x15	<b>90p</b>	<b>£7.20</b>
294	24	21/5	25x47x15	<b>£1.24</b>	<b>£9.30</b>

### BAY15d (level pins)

Ref.	Volts	Watts	Dims(AxBxC)	Ea.	(10)
381	12	21/5	25x47x15	<b>£1.21</b>	<b>£9.08</b>
335	12	21	25x47x15	<b>85p</b>	<b>£6.38</b>

### BAY15S (level pins)

Ref.	Volts	Watts	Dims(AxBxC)	Ea.	(10)
382	12	21	25x47x15	<b>66p</b>	<b>£4.95</b>
245	12	10	16x37.5x15	<b>66p</b>	<b>£4.95</b>
343(Amber)	12	21	25x47x15	<b>£1.59</b>	<b>£11.93</b>
207	12	5	16x37.5x15	<b>58p</b>	<b>£4.35</b>
149	24	5	16x37.5x15	<b>59p</b>	<b>£4.43</b>
241	24	21	25x47x15	<b>75p</b>	<b>£5.63</b>
317	6	21	25x47x15	<b>£1.11</b>	<b>£8.33</b>
244	6	10	16x37.5x15	<b>85p</b>	<b>£6.38</b>
205	6	5	16x37.5x15	<b>88p</b>	<b>£6.60</b>
382R(Red)	12	21	25x47x15	<b>£1.36</b>	<b>£10.46</b>
BLB04	12	23	18x34x15	<b>£1.57</b>	<b>£11.78</b>

### BAZ15d (Double offset pins)

Ref.	Volts	Watts	Dims(AxBxC)	Ea.	(10)
566	12	21/4	25x47x15	<b>£1.88</b>	<b>£14.13</b>

### BAU15s (Double offset pins)

Ref.	Volts	Watts	Dims(AxBxC)	Ea.	(10)
581(Amber)	12	21	25x47x15	<b>£2.36</b>	<b>£17.70</b>

### BA9S (level pins)

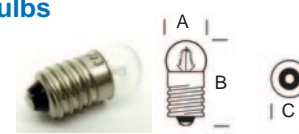
Ref.	Volts	Watts	Dims(AxBxC)	Ea.	(10)
989	12	5	15x26x9	<b>86p</b>	<b>£6.45</b>
433	12	20	9x30x9	<b>£3.97</b>	<b>£29.78</b>
233	12	4	8.5x26x9	<b>56p</b>	<b>£4.20</b>
288	12	2	8.5x23x9	<b>92p</b>	<b>£6.90</b>
293	6	4	8.5x26x9	<b>£1.05</b>	<b>£7.88</b>
287	6	2	8.5x23x9	<b>94p</b>	<b>£7.05</b>
BLB03	12	23	9x29x9	<b>£1.50</b>	<b>£11.25</b>
BLB07 Amber	12	23	9x27x9	<b>£1.57</b>	<b>£11.78</b>
249	24	4	8.5x26x9	<b>68p</b>	<b>£5.10</b>
289	24	2	8.5x23x9	<b>92p</b>	<b>£6.90</b>

### BA7S (level pins)

Ref.	Volts	Watts	Dims(AxBxC)	Ea.	(10)
281	12	2	7x20x7	<b>82p</b>	<b>£6.15</b>
282	6	1.2	7x20x7	<b>83p</b>	<b>£6.23</b>

# Bulbs

## Screw Cap Bulbs



### E10 (MES Panel)

Ref.	Volts	Watts	Dims(AxBxC)	Ea.	(10)
987	12	2.2	11x23x10	<b>99p</b>	<b>£7.43</b>
990	6	3	11x23x10	<b>96p</b>	<b>£7.20</b>

### E5 (LES Panel)

Ref.	Volts	Watts	Dims(AxBxC)	Ea.	(10)
280	12	1.5	6x16x5	<b>85p</b>	<b>£6.38</b>

## Wedge Type Bulbs



### W2.1 x 9.5d

Ref.	Volts	Watts	Dims(AxBxC)	Ea.	(10)
501	12	5	10x28x10	<b>61p</b>	<b>£4.58</b>
504	12	3	10x28x10	<b>71p</b>	<b>£5.33</b>

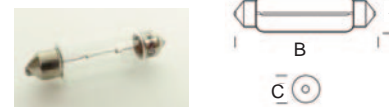
### W2 x 4.6d

Ref.	Volts	Watts	Dims(AxBxC)	Ea.	(10)
286	12	1.2	5x20x5	<b>57p</b>	<b>£4.28</b>
508	24	1.2	5x20x5	<b>74p</b>	<b>£5.55</b>

### W5 x 16d

Ref.	Volts	Watts	Dims(AxBxC)	Ea.	(10)
380C	12	21/5	25x42x20	<b>£2.49</b>	<b>£19.96</b>
382C	12	21	25x42x20	<b>£2.43</b>	<b>£19.46</b>

## Festoon Bulbs



### SV8.5 (Festoon)

Ref.	Volts	Watts	Dims(AxBxC)	Ea.	(10)
265	12	10	11x42x8.5	<b>£1</b>	<b>£7.50</b>
273	12	21	15x42x8.5	<b>£1</b>	<b>£7.50</b>
239	12	5	11x36x8.5	<b>96p</b>	<b>£7.20</b>
266	6	15	15x42x8.5	<b>£1.07</b>	<b>£8.03</b>
253	6	6	11x36x8.5	<b>91p</b>	<b>£6.83</b>

### SV7 (Festoon)

Ref.	Volts	Watts	Dims(AxBxC)	Ea.	(10)
256	12	3	7.5x36x7	<b>99p</b>	<b>£7.43</b>

## White LED 12V Off road use only



Ref.	Type.	(pair)
380LED	BA15d	<b>£17.36</b>
382LED	BA15s	<b>£17.06</b>
207LED	BA15s	<b>£9.52</b>
233LED	BA9s	<b>£7.22</b>
501LED	W2.1x9.5d	<b>£2.66</b>

## Bulb Holders.



Ref.	Type.	Ea.
1	170135 BAY 15d (offset pins)	<b>£3.66</b>
2	170136 BA 9s	<b>£4.42</b>
3	170137 BA 7s	<b>£2.87</b>
4	170138 BA 15s	<b>£3.48</b>
5	170596 BA 15d (level pins)	<b>£3.55</b>
6	FBH Festoon 36-42mm	<b>£1.25</b>

## Bulb connectors

1.Main bulb connector H4 bulb (Flag terminals).  
Ref: 5736 **£1.83**

2.Main bulb connector H4 bulb (straight terminals)  
Ref: MBC **£1.83**

3.Pilot bulb holder, for 9.5mm wedgebulbs  
Ref: 4276 **£4.44**

Genuine Lucas Main bulb holder for British pre-focus light units.  
Takes a P36d BPF bulb

Ref: W13120 **£10.90**

Pilot bulb holder for British pre-focus light units. Takes a BA9 bulb

Ref: W13121 **£3.90**

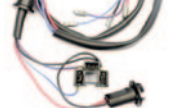
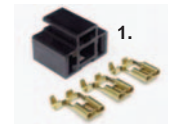
Genuine Lucas steel pilot bulb holder. Suitable for BPF beam units, speedometers and tachometers. Fits a 16mm hole.Takes a BA9 bulb

Ref: W13124 **£10.90**

**Headlamp harness.** Main bulb connector fitted 1M length cables & sleeving, bullet connectors & grommet. Ref:5823. **£11.12**

Use with Quadoptic lamps or other lens/reflector that have a pilot hole instead of pilot window.

Ref:5829. **£12.44**



5829



## Lighting

### Lamp mounting sets

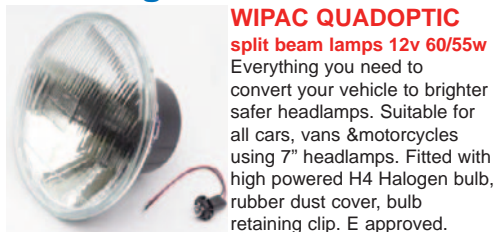
7" Contains all the parts for installation of 7" headlamps. A tough plastic shell for replacing damaged or rusty lamp housings. Also for mounting headlamps on kit cars or motorcycle fairings. Set comprises; lamp retaining rim, shell, rubber seal (shell to body), screws, tapered grommet.

Ref:5400. £20.96 ea

Ref:5538. As above but for 5 3/4" /lamps. £33.10 ea



### 7" Halogen conversion kits



#### WIPAC QUADOPTIC split beam lamps 12v 60/55w

Everything you need to convert your vehicle to brighter safer headlamps. Suitable for all cars, vans & motorcycles using 7" headlamps. Fitted with high powered H4 Halogen bulb, rubber dust cover, bulb retaining clip. E approved.

#### Left hand dip (UK).

Without pilot. Ref:4694 £62.20(pair), £31.10(ea)  
With pilot. Ref:4698 £72.08(pair), £36.04(ea)

Also available in right hand dip (Europe):

Without pilot Ref:4695 £84.82 (pair) £42.41(ea)  
With pilot Ref:4699 £78.38 (pair) £39.19(ea)

### Complete Wipac headlamp unit

Standard UK headlamp unit, 7" diameter.. Includes plastic shell with rubber seal and chrome bezel, lens/reflector, main bulb (H4 12V 60/55W), sidelight and wiring harness. E approved.

Ref:5812B £56.64



### 7" Standard halogen conversion kit

Converts to Halogen bulbs for brighter safer headlamps. For replacing 7" headlamps. Supplied with Halogen H4 P43t 12v 60/55W main bulb, rubber dust cover and 4W pilot bulb and holder.

E approved. Left hand dip with pilot.

Ref: S8000 £19.52(each) £39.04(pair)



### 7" Tripod Headlight

Metal reflector, glass lens, fitted with 12V 60/55W H4 headlight bulb and 5W wedge type side light. Sold as a pair, suitable for right and left hand driving due to the symmetrical lens and reflector design. P700 Lucas replica replacement lamp. Not E marked. Ref: P700 £55.00 (pair)



### British pre-focus headlamp unit.

5 3/4" British pre-focus Miller pattern headlamp. Supplied with main & pilot bulb holders shown below. (Bulbs not included)  
Ref :W10160 £25.90



### Wipac 5" stainless steel classic style driving lamps

High power 5" classic style driving lamps Complete stainless steel body and bracket. Universal fixing. H3 12V 55W bulbs included.  
E approved.  
Ref: S6066 £63.08 per pair



### Classic driving lamps

Classic style chrome metal driving lamp with protective plastic cover and H3 12V 55W bulb. 138mm diameter.  
E approved.  
Ref: S6007 £56.26 per pair



## Lighting

### Mini lamps



Mini style lamps. Overall dims 72mm dia x 107mm depth. Lens dia 53 mm x 50mm depth. Complete with 12V bulbs.

Ref.	Description	Colour.	Bulb.	Ea.
WSL49	Stop & tail lamp	Red	21/5W	£10.70
WRL48E	Indicator	Amber	21W	£10.70
WRL47E	Front side lamp	Clear	5W	£10.70

Spare bulbs (See page 48)

12 Volt - 21/5W (380), 21W (382), 5W (207)

6 Volt - 21/5W (384), 21W (317), 5W (205)

### LED Signal lamps 12/24 Volt



16 LED's. Flush base. Waterproof to IP67, E-Marked, SAE approved, Each lamp comes with a male AMP connector fitted. Stainless steel fixing screws supplied.

Dims: 73mm dia x 45mm deep

#### LED Lamp units

Ref.	Description.	Colour.	Ea.
S6060LED	Front sidelight	Clear	£21.96
S6061LED	Front&rear indicator	Amber	£21.96
S6062LED	Rear stop & tail	Red	£21.96
01252	2-way connector		£3.80
01253	3-way connector (for stop & tail)		£6.22

Female connectors for above lamps.



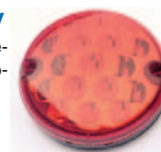
### LED rear fog lamp 12/24v

17 LED's. Flush base. Lamp is pre-wired. Stainless steel fixing screws supplied.

Dims: 95mm dia x 36mm deep.

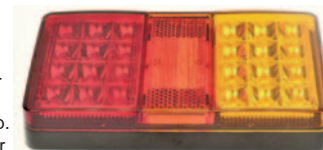
Ref S6079LED.

£20.95



### LED Multifunction Rear Lamp 12/24V

Incorporating stop, tail, indicator, reflector. Dims: 150x80x25mm deep. 2 fixing studs at rear. 280mm cable tails.



Ref: 171667 £31.66 ea

With clear lens.

Ref: 171668

£36.76 ea



### 5 Function Tail Lamp Units

5 function tail lamp units. Both units incorporate tail light, reflector, brake light and direction indicator. 4xM6 fixing studs. Overall dimensions: 303x130x109mm. Bulbs not included. Requires 3x21W (382), 2x5W (207) (Tail light uses two 5W bulbs)



R/H unit (rear fog, tail, brake, reflector, indicator):

Ref: RCV3202 £34.66 ea

Spare lens for RCV3202:

Ref: 7698 £12.00 ea

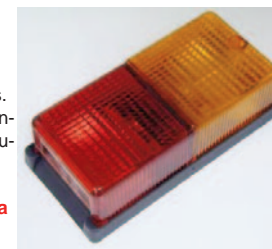


L/H unit (indicator, brake, tail, reflector, reversing):

Ref: RCV3203 £34.66 ea

Spare lens for RCV3203:

Ref: 7699 £13.44 ea



Trailer lamp 12v bulbs.

Rear/stop/indicator & window for number plate illumination.

Dims:167x84x50mm.

Ref:RCT400 £7.78 ea

# Lighting

## Number Plate Lamps

Black plastic 12v.  
Dims: 68x32x338  
**RCT785 £7.50**



## Chrome plated brass number plate lamp.

86mm fixing centres,  
L116 x W38 x H51 mm  
Supplied with 12V Bulbs  
**Ref: 45303 £48.40**



## LED Number Plate Lamps



1. Black polycarbonate body. . Acrylic lens. 12 white LEDs.  
12/24v. Dims: 120x46x40mm.  
**Ref: RL5 £16.90**

2. Black polycarbonate body,  
4 White LEDs. 12/24v.  
2 mounting holes.  
Dims: 72x42x42mm.  
**Ref: RCT786 £7.78**



## LED Side Repeater Lamps 12v.



1. Square lamp, 6 x LED's. Cable length 130mm. Size 42 x 30 x 40mm.  
**Ref: SSR £8.48**

2. Waterproof round amber lamp complete with fixing  
grommet for push fitting. Requires 20mm fixing hole.  
Incorporates 3 x LED's. 28mm diameter include grommet.  
Cable length 180mm.  
**Ref: RSR £6.28**

## Rear Guard Lamps



Can be flush mounted, or fitted using the steel mounting  
bracket included. Plastic body. Dims: 120x80hx55d  
Reversing: **RL015. £7.80 ea.** Rear Fog: **RL014. £6.28 ea**

## Marker Lamps.

Surface mounting, LED outline  
marker lamp with built in  
reflector. 4 LED's.  
Lens dims: 100x50x22mm  
**Amber Ref: RCV4300 £18.10**  
**Red Ref: RCV4101 £17.60**



Moulded rubber outline marker lamp  
with red and clear lenses.  
Body dims: 95x85x35mm.  
Lens 50mm dia.  
12 Volt 5W bulb included.  
**Ref: RCV4022 £15.02 ea**



## Reflectors

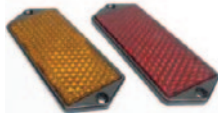
### Self adhesive.

Dims: 95x45mm  
**Ref: RR (Red) RA (Amber)**  
**RC (Clear) £1.70 ea.**



### Screw fixing.

Overall dims: 125x50mm  
**Ref: 50505 (Red)**  
**50510 (Amber)**  
**£2.49 ea, £22.41 (10)**



### Red reflective triangle.

152mm with 2 x 6mm fixing holes.  
**Ref: RT £1.81 ea.**



## Classic Reflector.

Chrome bezel 52mm dia.  
Rear stud fixing.  
**Ref: W19102 £9.50 ea**



# Lighting

## LED Interior/Exterior Lights



1. Round LED lamp. 12 Volt,  
22 white LEDs. Touch on/off  
switch incorporated in lens.  
White ABS with acrylic lens.  
Dims: 118x104x15mm  
**Ref: INT22 £15.06**



2. Square LED lamp. 12 Volt,  
22 white LEDs.  
Touch on/off switch incorpo-  
rated in lens.  
White ABS with acrylic lens.  
Dims 94x94x17mm.  
**Ref: INT23 £13.36**



3 Surface mounted. 10-30 Volt, 36 white LEDs, clear lens  
and on/off switch. Aluminium body.  
Dims: 160x40x21mm.  
**Ref: INT10 £29.68**



4. Surface mounted. 12-30 Volt, 84 white LEDs, clear lens  
and on/off switch. Aluminium body.  
Dims: 260x40x21mm.  
**Ref: INT11 £46.46**



5. Slimline LED interior strip light 12/24V. 360 Lumens  
Integrated on/off switch. ECE R10 Approved.  
18 LED. Dimensions 400x16x25mm (LxHxW)  
**Ref: INT30 £41.46**

## LED Worklamps

Robust LED work lamps. Low current draw, 1.5Amp at 12  
volt dc. Black powder coated die cast aluminium case,  
polycarbonate lens, supplied with stainless steel bracket  
and 300mm flying lead. Protected to IP67



12/24 Volt, **Square** (LxWxD) 135x108x40  
975 lumens (Approx 65 Watt incandescent bulb)  
**Ref 42044 £16.50**



12/24 Volt, **Round** (LxWxD) 135x114x43,  
1170 Lumens (Approx 75 Watt incandescent bulb)  
**Ref 42045 £16.50**

## Mini LED Inspection Lamp



COB LED 2W, 220 lumen mini inspection lamp with  
integrated hook and magnet.  
Rechargeable li-ion 3.7V 2200mAh battery which charges  
via a USB plug. Protected to IP20  
Dimensions: 48 x 36 x 160mm  
**Ref: 69974 £24.22**



# Towing accessories

See page 6 for trailer cable.

## 7 Pin Towing Plugs & Sockets



### 7-Pin Towing Plugs & Sockets

Ref.	Item.	Each.
1. A0013	12N Standard plug, plastic.	£2.37
2. A0012	12N Standard socket, plastic.	£3.68
3. TP740	12N Standard plug, metal.	£4.00
4. TP750	12N Standard socket, metal.	£5.92
5. TSG1	PVC gasket for socket.	71p
6. TP156	Fixing nuts & bolts for socket, pack of three 35mm x 5mm.	90p
7. RCT600	Socket bracket single.	£1.98

## 13 Pin Towing Plugs & Sockets



Ref.	Item.	Ea.
1. A0033	Standard plug,	£5.75
2. A0032	Standard socket. (includes gasket)	£6.62

### Socket Adaptor

enables 12N plug (7 pin) on trailer or caravan to fit 13 pin socket on car

Ref: A0035 £6.87



## Reverse Alarms

Intermittent sound. 105dB(A). Connect one wire to reverse, the other wire to earth.

12V Ref: 56112 £17.98

### Silent Night Type

As above but with a third wire which connects to the light circuit, disabling the alarm at night. 12v

Ref: 56162 £19.74



## Split Charge Relays

12v 70A. Intelligent split charge relay. Connects between vehicles main (starting) battery and auxilliary battery. Switches when alternator is charging to also charge auxilliary battery. Fits 12v negative earth vehicles. Ref: AVSPC10 £42.20



12v 140A Voltage sensitive relay for charging auxilliary battery. Fits negative earth vehicles. Cuts in at 13.3v, cuts out at 12.8v. Dimensions (mm) 68 x 68 x 52. Two 6mm stud connections.

Ref: 161059 £44.66



### 12S Smart Combination 22A Relay

Designed to cut off power from towing vehicle to caravan battery & fridge when no charge is available. Suitable for vehicles with multiplex & canbus wiring systems.

Ref: RCT465 £18.96



### 12N Smart Logic Bypass Relay

Enables 12N towing electrics to be wired to towing vehicles with multiplex and canbus wiring systems. Includes an audible warning buzzer.

Ref: RCT485R £39.16



## Weatherproof Junction Boxes

Rubber housing with clear plastic lid. Two mounting studs through base. 8-pole, 16 screw connection block. Dims:127x41x108mm.

Ref:CB8. £19.02



Junction boxes with o-ring sealed lid. IP56 Material: grey ABS Dims.

150x110x70mm.

Ref: 69715 £9.46

Dims: 100x100x60mm.

Ref: 69710 £7.24



# Accessory plugs & sockets

Use as in-car 12volt power point to feed inspection lamp, beacon etc.

## USB Power Sockets 12/24V

Supplied with mounting facia & screws. 6.3mm blade terminals on rear. USB output 5VDC, 2.1A. USB facia has a blue illumination.

Double USB/Single power, socket for flush mounting.

Socket rating 20A max

Ref: USB142 £17.22



Double USB/Single power socket for surface mounting.

Socket rating 20A max

Ref: USB142SM £19.80



Double USB accessory socket for flush mounting.

Ref: USB194 £12.63



Double USB accessory socket for surface mounting.

Ref: USB194SM £14.43



### Cigarette lighter plug socket.

To take lighter plugs such as universal plug. Does not include cigarette lighter or illumination. Fits a 28mm hole.

Ref:160409 £6.00



Flush mounted socket. Takes cigarette lighter plug, with splash-proof rubber cap. 16A Rated.

Ref: ASF £6.89



### Pre-wired socket

Socket, takes cigarette lighter plug. Fitted with 300mm, 1mm² wire

Ref: 181575 £3.68



Surface mount bracket for 28mm cigarette lighter socket. Dims 80x55x50mm (LxWxH)

Ref:60161 £4.22



## 12V DIN Plug

Fits into standard DIN sockets. connections are screw terminals. Ref: PLG £3.20

DIN Socket, takes standard DIN plug. Fits 18mm dia hole in panel. Blade terminals. Ref:AS £5.24



DIN Socket, with 1 screw terminal. Fits into a 18.5mm hole and is secured via a locknut. Takes standard DIN plug.

Ref:180038 £6.30



DIN Socket, surface mounting by two screws. Takes standard DIN plug.

Ref:60169 £13.26



DIN Socket, surface mounting. Die cast aluminium body. Takes standard DIN plug. Ref:180115 £4.58



## DIN Socket

DIN socket with 6.3mm blade connections. Ref:180354 £9.16



## Retractable 2-core extension cables

A twin 24/0.20mm cable sheathed in black polyethylene. 6 amps max. Extends to 2.4M.

Ref:60106. £12.98



A twin extension cable with a cigarette lighter plug at one end & socket at the other.

5 amps max. Extends to 2.45M.

Ref: 60155. £19.08



## Universal Plug

Fits most cigarette lighter sockets and, by removing end cap, fits into DIN sockets. Fitted with 8 amp ceramic fuse.

Ref: 60116 £5.84



Cigarette Lighter 12v. Illuminated. Fixing hole 28mm dia. Ref: AS2 £7.88



## Socket & clips

Socket connected to two battery crocodile clips. Takes cigarette lighter plug. Ref:42248 £9.62





# Horns & regulators

## Generator regulators

Mechanical regulator for 12volt 25amp generator.

**Ref:83306 £39.00**

Replaces Lucas. RB106, 37066, 139, 179, 183, LRC 105, NCB 101.

Replaces Ford. 105E-10505B



Mechanical regulator for 12volt 22amp generator.

**Ref: 83300 £25.50**

Replaces Lucas. RB340, 37207, 279, 292, 297, 299, 304, 330, 334, 336, 342, 344, 346, 452, 367, 368, 391, 392, 451, 471, 472, 477, 528, 529, 542, 543, 544, 547, 559, 562, 563, 568, 569, 570, 571, 572, 573, 574, NCB 130, 131, 132.

Replaces Ford. 622E-10505A,B, 3004R-10505A,B, C5NF-10505B.



## 12V electronic regulator

Replaces mechanical regulator.

**Ref: 130675 £12.16**

Terminals viewed from rear.



Please note: Not suitable for vehicles with a dynamo charging system.

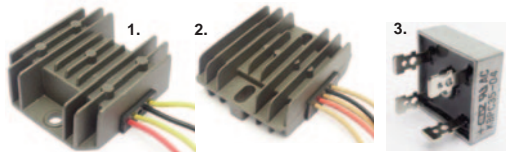
## Dynamo/regulator split bullets

Pack of 6 split bullets to fit Lucas dynamo & regulator units.

**Ref: W10405 £6.20**



## Rectifier/regulators



**1 & 2.** Solid state rectifier/regulators. Replaces rectifier/zenodiode. Pre-wired with 300mm cable. Single phase (2 wires from alternator). 160 watt

**Ref: W10123w £30.45**

Three phase (3 wires from alternator). 200 watt

**Ref: W10124w £30.45**

**3. Rectifier.** Solid state. 6 or 12V. Fits positive or negative earth. Diagram supplied. 35A rated. **Ref: W10134 £6.85**

## Replacement horns

A compact powerful horn for its size. Suitable for cars and motorcycles where space is limited.

Body dia: 90mm. 12 Volt, 335 Hz Low

Two x 6.3mm blade terminals.

**Ref:5446 £10.74 ea**



12 Volt Coiled trumpet horn. Available in high (510 Hz) or low (410 Hz) note.

Can be fitted singularly or in a pair. Body dia 95mm.

Two x 6.3mm blade terminals.

**£11.95 ea**

**Ref:5786 (high note).**

**Ref:5787 (low note)**

Note: Colours may be Black or silver, depending on availability

## Chrome horn

95mm diameter, chrome grille. Two x 6.3mm blade terminals 105db.

6V **Ref: WHELO03 £11.90**

12V **Ref: WHELO04 £11.90**



## Compact trumpet horn

Diaphragm type with moulded black body and red plastic cover. 80mm dia 112dB(A).

Mounting strap and earth return wire included. 12V.

490Hz high tone: **Ref: 64210 £16.06**

410Hz low tone: **Ref: 64211 £16.06**



## Motorcycle horn

70mm dia. 100db, Two x 6.3mm blade terminals.

12V **Ref: HORS12V £7.90**

6V **Ref: HORS6V £7.90**



## Twin air horns

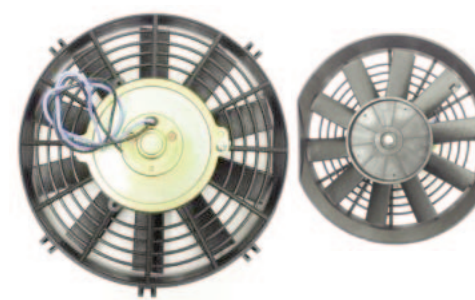
Consists of 2 trumpets 15 & 19cm long, compact electric air compressor 6cm dia x 10cm, plus air pipe, relay, brackets, nuts/bolts & fitting instructions.



**Ref:RAH122 £31.58**

# Radiator fans & screenwash parts

## Radiator fans 12v



Universal fitting.

Ref	Ea
<b>RFA109</b>	<b>£75.92</b>
<b>RFA110</b>	<b>£78.92</b>
<b>RFA112</b>	<b>£84.48</b>

Includes four sets of fitting brackets to suit most applications. Fans listed are **pull** airflow (ie, RFA109), for **push** type add PH to the ref (ie, RFA109PH)

Pull fans fit behind radiator, push fans fit in front.

Ref.	Size.	CM/S.	Amps.	WxDxH(mm)	For engines*
<b>RFA109</b>	9"	2.95	5	267x56x240	upto 1200cc
<b>RFA110</b>	10"	3.56	6	293x56x276	upto 2000cc
<b>RFA112</b>	11"	4.83	7	312x60x298	+ 2000cc

Note: CM/S means cubic metres per second.

\*For guidance only, use largest fan that will fit your radiator.

## Spare fitting kit

for radiator fan.

**Ref: 38001 £10.70**



## Radiator thermostat kit



Switch unit with integral capillary temperature sensor. Adjusts 60-120°C. Includes cable, terminals and mounting bracket.

**Ref:CF305 £39.20**

## Screenwash pump 12v

A tough powerful pump for replacement or for introducing an extra circuit into a vehicle. Internally the pump is devoid of metal parts so that water or screenwash solvents cannot cause seizure or sluggish performance due to metal corrosion. Self priming and provides a continuous jet. Black plastic body with integral mounting lugs.



**Ref:WP12 £9.45**

## Washer pump & bag 12v

Can be used as a direct replacement for existing washer pump in bag or bottle. Supplied with fitting brackets. Bag capacity 1.5 Ltr.

Approx size when full

210x285x100mm

**Ref:GWP14 £19.90**



## Washer bottle & pump 12v.

1.2Ltr plastic bottle with washer pump and fitting bracket. includes wiring, connectors, switch with bracket, 2 twin washer jets, T-Piece, straight connector, 1.75m PVC pipe & pipe clips.

Bottle dims(mm):

200h x 125w x 100d

**Ref: 160186 £15.16**



## Washer jets & pipe



Ref.	Disc.	Ea.
1. <b>160192</b>	4mm Double jet. Plastic	<b>£3.16</b>
2. <b>SWP</b>	4mm screen wash pipe	<b>£3.66 per Metre</b>

## Vandal resistant aerial



Single section flexible mast. Universal mounting through a 10mm hole, 40cm high. Fitted with 1.27M high efficiency co-axial screened cable with jack plug.

**Ref: AE702 £16.62**



## Fuel pumps, fuel filters, hose clips.

### Facet Fuel Pumps

Universal pressure fuel pump. Designed to replace original equipment on carburetor equipped vehicles. Suitable for E10 petrol. Solid state design ensures reliable long life, 12V 1.5-4 psi, 0.3m lift, 94 ltr per hour, 6mm tube connection. Fitting instructions included. **Ref: 70187 £62.82**



Filter for 70187 **Ref: FPA906 £5.64**



Universal pressure fuel pump (interrupter pump) 12V 4-5 PSI. 113.5 Litres/hour. Self priming. 0.6 Metre fuel lift. 6mm tube connection. Built in pressure relief when ignition is turned off. Vertical mounting near tank preferred. Built in fuel filter. Suitable for E10 petrol. Fitting instructions included. **Ref: 070003 £113.93**



### Facet Fuel Pump Mounting Kit

Mounting kit suitable for both Facet fuel pumps. Reduces vibration and noise when running. Also includes earth cable. **Ref: FPA905 £7.04**



### Pipeline Fuel Filters

High quality filters for most makes of petrol engined cars, motorcycles and commercial vehicles, see through body. Stepped pipe connection for 6 or 8mm bore pipe.

1. Dims (of body) 31x46mm

**Ref:FF100**

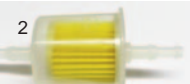
**£1.54 ea, £11.55 (10)**



2. Dims (of body) 47x51mm.

**Ref:AFF105**

**£1.59 ea, £13.25(10)**



3. Square MRC type fuel filter.

Fits 6mm fuel hose.

Dims 33x23x16mm.

**Ref:FFTSQ**

**£2.00 ea, £18.00(10)**



### Glass Fuel Filter

Chrome finish for 1/4" bore fuel pipe. Supplied with two metal spring clips & replacement gauze filter.

Dims - 80x27mm dia

**Ref: GFF £17.90 each**



### Metal hose connectors

**Material:** Brass or plated steel depending on availability. Sizes: 6mm(1/4"), 8mm(5/16), 10mm(3/8"), 12mm(1/2"), Size refers to the bore size of pipe that connector fits into.

#### Straight connectors.



Ref	Size	Each
J0404	6mm	<b>£3.08</b>
J0606	8mm	<b>£3.68</b>
J0808	10mm	<b>£4.40</b>
J1010	12mm	<b>£5.26</b>

#### Reducers.



Ref	Size	Each
J0604	8-6mm	<b>£3.68</b>
J0806	10-8mm	<b>£3.82</b>
J1006	12-8mm	<b>£5.64</b>
J1008	12-10mm	<b>£3.96</b>

#### T-piece.



Ref	Size	Each
MTP001	6mm	<b>£5.90</b>
MTP002	8mm	<b>£5.98</b>
MTP003	10mm	<b>£4.86</b>

### O Clip double ear

These clips are crimped to secure them onto the pipe/hose using the O Clip Crimping tool (below), making a permanent joint. Material zinc plated steel.



Ref	Size	Each	(10)
OC1A	8-11mm	<b>50p</b>	<b>£3.75</b>
OC2A	9-11mm	<b>51p</b>	<b>£3.83</b>
OC3A	11-13mm	<b>53p</b>	<b>£3.98</b>
OC4A	13-15mm	<b>52p</b>	<b>£3.90</b>
OC5A	15-18mm	<b>54p</b>	<b>£4.05</b>
OC6A	17-20mm	<b>64p</b>	<b>£4.80</b>
OC7A	20-23mm	<b>92p</b>	<b>£6.90</b>

### O Clip crimp tool

Crimp tool specially designed for crimping all sizes of O clips.



**Ref: OCPLIER £18.98**

## Fuel/oil Pipe, hoses, hose clips.

### Ethanol Resistant Fuel Hose



High pressure, high temperature Ethanol fuel hose. Suitable for petrol (E10 rated) diesel, bio diesel and oil. Working temperature -40°C to +150°C. Brand: Codan, Specification SAE J30 R9. 10 Bar working pressure.

Ref.	Bore.	O/D	Per metre
PHE10/6	5.6mm	12mm	<b>£15.28</b>
PHE10/8	7.9mm	14.5mm	<b>£16.22</b>

### Rubber Fuel Hose With Cotton Overbraid

Low pressure petrol and diesel fuel hose. 10 Bar working pressure. Working temp -30°C to +90°C



Ref.	Bore.	O/D	Per metre
PH6	6mm	11.7mm	<b>£3.80</b>
PH8	8mm	13.7mm	<b>£4.20</b>

### Rubber Fuel Injection Hose

High pressure unleaded fuel hose. 20 Bar working pressure, Working temp -20°C to +80°C



Ref.	Bore.	O/D	Per metre
PHINJ6	6mm	13mm	<b>£5.75</b>
PHINJ8	8mm	15mm	<b>£6.70</b>
PHINJ10	10mm	17mm	<b>£7.92</b>

### Pipe & Hose



Description.	Ref.	Bore.	O.D.	M.
Clear PVC pipe	PVC6	6mm	9mm	<b>£1.21</b>
Vacuum pipe	VP4	4mm	9.5mm	<b>£4.32</b>
Vacuum servo hose	VSH9	9.5mm	19mm	<b>£4.44</b>
Heater hose	AHH921	16mm	23mm	<b>£3.96</b>

### Petrol pipe clips Zinc plated mild steel.

Hex slotted head drive & shoulder. 9mm band width. Non perforated band means no chance of damage to hose. Uniform circular pressure gives maximum sealing efficiency. 7mm head.



Ref.	Pipe mm.	Ea.	(10)
PPC9	8-10	<b>50p</b>	<b>£4.15</b>
PPC11	10-12	<b>64p</b>	<b>£5.35</b>
PPC12	11-13	<b>64p</b>	<b>£5.35</b>
PPC13	12-14	<b>64p</b>	<b>£5.35</b>
PPC15	14-16	<b>64p</b>	<b>£5.35</b>
PPC17	16-18	<b>75p</b>	<b>£6.25</b>

### Petrol Pipe Clip Kit

55 piece petrol pipe clip kit. Zinc plated mild steel.

Size range: 8-10mm, 10-12mm, 11-13mm, 12-14mm, 14-16mm and 16-18mm.

**Ref: PPCK £26.50**



### Stainless Steel Hose Clips

Hex head with slot/cross head drive & shoulder to ease tightening. 9mm band width. 7mm head

Ref.	Pipe mm.	Ea.	(10)
HC0816	8-16	<b>68p</b>	<b>£5.10</b>
HC1220	12-20	<b>73p</b>	<b>£6.05</b>
HC1625	16-25	<b>76p</b>	<b>£6.30</b>
HC2032	20-32	<b>76p</b>	<b>£6.30</b>
HC2540	25-40	<b>86p</b>	<b>£6.45</b>
HC3250	32-50	<b>£1.01</b>	<b>£7.58</b>
HC4060	40-60	<b>£1.02</b>	<b>£7.65</b>
HC6080	60-80	<b>£1.11</b>	<b>£8.33</b>



### Stainless Steel Hose Clips Kit



Contains 40 assorted hose clips. Sizes: 8-16mm, 12-20mm, 16-25mm, 20-32mm, 25-40mm, & 32-50mm. All contained in a tough partitioned box with see through lid.

**Ref: SCK £34.13**

### Flexidriver

For use with hose clips. 7mm Hex socket, avoids slipping off the screw head. Stem flexes for screwdriving hose clip where access is difficult. Fits all the above clips.

**Ref:WNF7 £9.45**



## Brake pipe & fittings

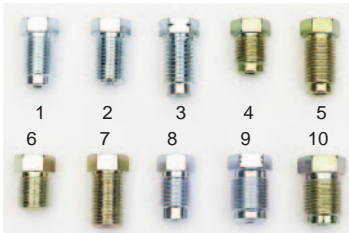
### Brake pipe tubing 3/16"



Copper-nickel 90/30 seamless brake tubing. 3/16" o/d.  
Max pressure 3100psi. Conforms to BS2871.  
Supplied in 25 ft.(7.6metre) length.

Ref: T14M £20.48

### Brake nuts male



#### Male brake nuts for 3/16" pipe

Ref	Thread	Ea	£(Qty)
1. B574	3/8"unf x 24 tpi (Mini, Escort)	62p	£11.63 (25)
2. B690	3/8"unf x 24 tpi TTE	75p	£14.06 (25)
3. B573	3/8" BSF x 20 tpi	83p	£15.56 (25)
4. B620	10mm x 1mm short	58p	£10.88 (25)
5. B678	10mm x 1mm long	77p	£14.44 (25)
6. B687	10mmx1mm short TTE	55p	£10.31 (25)
7. B689	10mmx1mm long TTE	69p	£12.94 (25)
8. B626	10mm x 1.25mm long	44p	£9.13 (25)
9. B571	12mm x 1mm	90p	£7.47 (10)

Note: TTE = Threaded to end

### Brake nuts female



#### Female brake nuts for 3/16" pipe

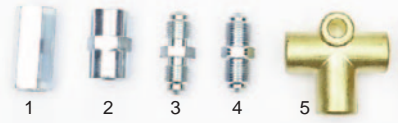
Ref	Thread	Ea	£(25)
1. B576	3/8"unf x 24 tpi	77p	£14.44
2. B627	10mm x 1mm	72p	£13.50

### Brake pipe clips



Ref.	To suit	Hole	Material	Each
1. BPC1	1x 3/16"	6mm	Plastic	84p
2. BPC2	2x 3/16"	1/4"	Plastic	£1.56
3. BPC3	3x 3/16"	8mm	Plastic	£1.83
4. BPC	3/16&5/16	6mm	Metal	96p

### Brake tube connectors



#### Brake tube connectors 3/8"unf x 24 tpi

Ref	Type	Use with	Ea	£(10)
1. B579	Female	B574	£2.06	£17.20
3. B628	Male	B576	£1.37	£11.42
5. B543	3 way		£10.66	

#### Brake tube connectors 10mm x 1mm thread

Ref	Type	Use with	Ea	£(10)
2. B598	Female	B620	£1.91	£15.95
4. B599	Male	B627	£1.15	£9.60
5. B544	3 way		£8.92	

### Brake bleed screws



Ref	Thread	Ea	£(25)
1. B618	1/4"unf x 28 tpi	£1.21	£25.11
2. B619	3/8"unf x 24 tpi	£1.22	£25.50
3. B581	3/8"unf x 24 tpi long	£1.55	£32.16
4. B580	6mm x 1mm short	£1.50	£31.32
5. B578	6mm x 1mm long	£2.02	£42.07
6. B682	7mm x 1mm	£1.22	£22.88
7. B671	8mm x 1.25mm	£1.01	£20.96
8. B679	10mm x 1mm	£1.01	£20.96

### Bleed nipple dust cap.

Ref: 4720500 £1.20 ea, £9.00(10)



### Brake pipe fittings kit



Contains 135 pieces. 3/8"UNF male & female nuts, 10mm male & female nuts & female connectors, 12mm male nuts. All for 3/16" pipe fitting.

Ref: 5006150 £54.50

### Pipe bending tool



Bends copper and steel tubing without kinking.  
Suitable for 6mm, 8mm and 10mm dia tube.  
Will bend 3/16" pipe using the 6mm die.

Ref: 400098 £13.64

### Mini tube cutter

Ideal for use in tight spaces.  
Hardened steel cutter cuts copper, brass and aluminium. Capacity 3-16mm dia.

Ref : 400088 £3.95



### Brake bleed tube



Automatic bleed tube for one person operation.

Ref : 104051A 96p each

### Brake bleeder valve kit



One way valve and connecting hose. Prevents old fluid from re-entering brake system without repeatedly opening and closing bleed nipple.

Ref BRK01 £9.98

### Brake bleed/vacuum pump



A comprehensive kit including reservoir, nipple adaptor and vacuum pump with pressure gauge for brake bleeding. The hand operated pump pulls the fluid through the bleed nipple without the need to use the brake pedal or lever. The manual pump with pressure gauge can also be used to test many vacuum operated systems, fuel pumps carburetors etc. Ref BRK07 £49.98



## Dashboard gauges (not suitable for motorcycles)

All gauges are to fit a 52mm diameter hole.  
Outside bezel diameter of 58mm unless stated otherwise.  
All gauges are supplied complete with the fittings including hook type clamps, instructions & wiring diagram where appropriate. Designed for negative earth systems.  
All gauges are internally illuminated unless stated otherwise.

### Voltmeters

White figures  
52mm body diameter  
58mm bezel OD  
8-16 Volts  
Ref: 160695 £17.94



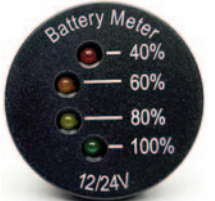
### Digital Voltmeter

Mounting hole 29mm  
ID 26.4mm  
OD 36.8mm  
6.3mm terminals  
0-36 Volts  
Ref: 161714 £17.76



### Battery Meter

Mounting hole 29mm  
ID 26.4mm  
OD 36.8mm  
Measuring range 11-32  
6.3mm terminals  
12/24 Volts  
Ref: 161715 £16.90



### Fuel Gauge

White figures  
52mm body diameter  
58mm bezel OD



Sender:  
Tank depth max 25"/635mm  
Ohm 10-104-180  
Diameter 71mm



12 Volt Fuel gauge and sender Ref: 160701 £37.44  
12 Volt gauge ONLY Ref: 160895 £16.52  
12/24 Volt sender ONLY Ref: 160873 £27.30

### Water Temp Gauge

Electrically operated  
Measuring range 40-120°C  
Transmitter 1/8" NPTF thread  
12 Volt Water temperature gauge and sender  
Ref: 160699 £30.14



### Oil Pressure Gauge.

Electrically operated. Measuring range 0-10 Bar  
Transmitter 1/8" NPTF thread  
12 Volt Oil Pressure gauge and sender  
Ref: 160700 £24.92



### Ammeter

Digital Ammeter  
Mounting hole 29mm  
ID 26.4mm. OD 36.8mm  
6.3mm terminals  
0-20 Amps  
Ref: 161716 £26.58



### Mounting pod for 52mm gauges



For gauges with a 52mm body diameter.  
Black ABS plastic with fixing screws and adhesive pad.  
Ref: 24304 £7.52

### Brass adaptor kits, & 'T' piece.

kits containing either 3 or 4 adaptors to fit unions or senders into alternative threads.



1. To fit 1/8"NPTF into :-  
M14x1.5, M16x1.5, M18x1.5 .....Ref: 52398. £9.74  
1. To fit 1/8"NPTF into:-  
5/8UNF, 3/8NPTF; 1/2NPTF; 1/8BSP .....Ref: 52399. £9.74  
2. Aluminium 'T' Piece adaptor 1/8" NPTF  
For oil or air pressure gauges. ....Ref: 52397 £28.40

## Soldering equipment

### Electric Soldering Kit



9 piece kit containing a 100W soldering gun for work on cables & sheet metal, a 30W soldering iron with fine point tip for precision work, plus stand, positioning tool, resin flux, solder, de-soldering tool, spare tip for gun and fully adjustable clamping work stand with magnifying glass. All supplied in a robust case.  
Ref: 845318 £55.88

### Soldering Iron



240v Available in 40W or 100W .  
The 100w has larger tip than the 40W so more suited for soldering battery lugs etc, see image.  
Overall length: 217mm

Ref.	Wattage	Each
6210	40W	£11.20
6211	100W	£17.18

### Butane Blow Torch

Butane blow torch for low temperature soldering & for use on heat shrink sleeving & heatseal terminals.  
Refillable from standard butane gas lighter filler can, (not included).  
Ref: 45099 £22.98



### Solder Multicore

Electricians top grade resin cored solder, needs no separate flux. Supplied in 18swg wire form. 1.2mm dia. 40% tin, 60% lead  
Pack of 5M Ref: SOL5 £3.50

Reel of 1/2kg (approx 61M)  
Ref: SOL50 £29.68



### Soldering Flux

Fluxite soldering paste. Contains zinc and ammonium chlorides in petroleum grease. 100 grams.  
Ref: 61300 £24.86



### Tinmans Solder

BS219, grade D. 30% tin, 70% lead.  
Approx 9 x 9 x 350mm. Ref: 46800 £13.96 Ea



### Soldering Iron Stand

Suitable for most types of electric soldering iron. Heavy duty metal base, Reinforced spring holder to help prevent flex tangling. Cleaning sponge for bit cleaning.  
Ref: SOL12 £6.16





## Workshop fixings

### Trim button kit



Trim buttons, 220 pieces, 8 types  
Ref: AB151 **£28.64**

**Snap rivet.** Black plastic. Push fits into 6.2mm dia hole, then push the stem down flush with the head to lock. To release, push the stem through. Body length 12.3mm. Head dia 10.8mm  
Ref: SR612 **29p ea, £10.88 (50)**

**Fir tree trim panel clip**  
Black plastic.  
Head dia 18mm  
Length 28mm  
Hole size 6mm  
Ref: FIX29 **53p ea, £19.88(50)**

**Nylon nut & bolt**  
M6 x 22mm

Ref: B375 **21p ea, £7.88(50)**

### Split pin kit



Contains 175 assorted zinc plated split pins.  
Sizes from 1/16" x 1/2" through to 1/8" x 1 1/2"  
Ref: 13547 **£6.74**

### Speed fastener kit



Approx 200 pieces in zinc plated steel. Sizes: No.4, 6, 8, 10, 12 & 14  
Ref: AB166 **£18.74**

### Self tapping screw kits



**No.4-No.10 Pozidrive pan head.**  
Zinc plated. 600 piece.  
Ref: 5001010 **£18.26**



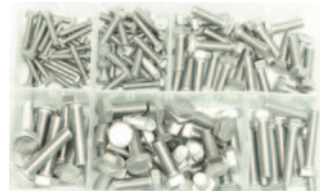
**(No.6-No.10pozidrive flanged head.)**  
Black. 600 pieces.  
Ref: 5001050 **£21.94**



Stainless steel self tapping screws. 450 pieces. Pan hd, pozi. n°6x1/2", n°6x3/4", n°6x1", n°8x1/2", n°8x3/4", n°8x1", n°10x1/2", n°10x3/4", n°10x1",  
Ref: AB141 **£41.06**

Set screws and nuts are metric coarse thread, Set screws are measured from under the head to the end of the shank. Thread pitch details: M5=0.8mm, M6=1mm, M8=1.25mm M10=1.5mm

### Setscrew kit



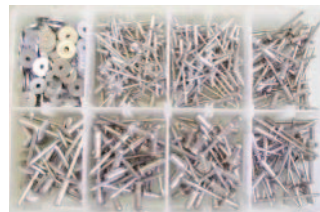
Stainless steel set screws 120 pieces. M5x25, M6x25, M8x25, M8x40, M10x25, M10x40  
Ref: AB154 **£52.02**

### M6. Set screw, full nut, nyloc nut, washer kit



400 pieces. M6x25 sets, M6x40 sets, M6 full nuts, M6 nyloc nuts, M6 flat washers.  
Ref: 5001440 **£14.94**

### Aluminium rivet kit



Contains 440 pieces. standard flange: 3.2x10mm, 3.2x13mm, 4.0x12mm, 4.0x15mm, 4.8x13mm, 4.8x19mm, Large flange: 4.8x19mm  
Washers: M3X13mm.  
Ref: AB48 **£23.38**

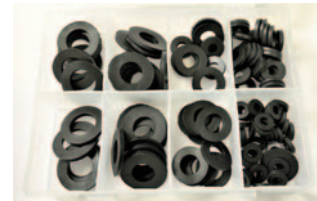
## Workshop fixings

### Exhaust mount bobbin



Studs size: 5/16" UNF x 15mm.  
Bobbin size: 34mm dia x 18mm.  
Includes nuts and spring washers.  
Ref: AMB001 **£4.80 ea, £39.84(10)**  
Spare nut Ref B982 **15p ea, £1.20(10)**

### Rubber washer kit



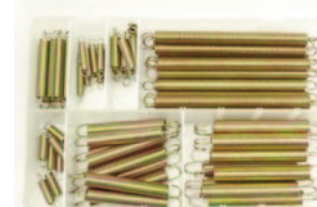
120 piece rubber washer kit.  
Contains 5 sizes from 10mm O/D x 5mm hole to 24.5mm O/D x 14.5 hole  
Ref: RWP **£6.68**

### Fibre washer kit



110 piece fibre washer. Contains 8 sizes from 10mm O/D x 3mm hole to 30mm x 16mm hole.  
Ref: FWP **£6.96**

### Expansion spring kit



Contains 70 springs in 7 sizes.  
(Free length x O.D) 29.5 x 6.4mm, 31.5 x 5.0mm, 33.3 x 6.8mm, 56.5 x 7.8mm, 74 x 10.3mm, 90 x 11.4mm, 126 x 9.4mm  
Ref: 5006120 **£35.36**

### Circlip kit



**255 Piece circlip kit**  
Sprung steel, includes internal sizes 6-23mm, external sizes 7-29mm.  
Supplied in a clear plastic case.

Ref: CCP **£7.04**

### Metric 'O' Ring kit



Nitrile rubber to BS4518 Contains 404 'O' rings in 30 sizes. Internal dia x thickness in mm.  
3x2, 4x2, 5x2, 6x2, 7x2, 8x2, 10x2, 10x2.5, 11x2.5, 12x2.5, 14x2.5, 16x2.5, 17x2.5, 19x2.5, 19x3, 20x3, 22x3, 24x3, 25x3, 27x3, 28x3, 30x3, 32x3, 33x3, 35x3, 36x3, 38x3, 38x4, 42x4, 45x4.  
Ref: 5035500 **£25.58**

### 'O' Ring splicing kit



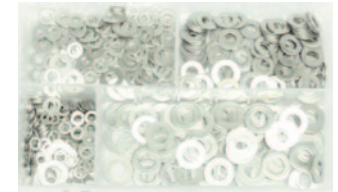
For making 'o' rings to size. Includes Nitril cord, 1 metre of each 1/16", 3/32", 1/8", 3/16", 1/4", 1.6, 2, 3, 4, 5, 5.7mm. plus trimming knife, block and super-glue.  
Ref: AB126 **£38.62**

### Repair washer kit M3-M10



220 pieces, mudguard type. M3x12, M4x20, M6x25, M8x25, M8x40, M8x50, M10x50.  
Ref: 5004250 **£21.94**

### Flat washer kit



Stainless steel flat washers. 650 pieces, M5, M6, M8, M10  
Ref: AB157 **£17.90**

### Copper washer pack



110 Pieces, sizes 6x12x1mm, 8x14x1mm, 10x16x1mm, 12x16x1.5mm, 14x18x1.5mm, 16x20x1.5mm  
Ref: CWP **£10.20**

### Copper washers



10 x 14 X 1mm copper washers to suit banjo bolts.  
Ref: W163  
**23p ea, £4.31 per 25 pack**



# Battery chargers & multimeters.

## Pocket Multimeters



DC volts	0-250V
AC volts	0-250V
DC amps	2mA-10A
Resistance(ohm)	200-20M
Temperature °C	-40 to 1000
Diode test	Yes
Continuity buzzer	Yes
Low battery sign	Yes
Display	<1999
Auto Off	15 mins
Ranging	Manual
LCD size mm	48 x 15mm
Dims mm	133x77x36mm

Hand held digital multimeter. LCD display for basic functions. Powered by 2 x AAA batteries. CE approved.

**Ref:79800 £31.18**

Spare leads **Ref: 79896 £12.08**



Digital multimeter with built-in transistor test socket and diode test position.

**Ref: 589681 £9.12**

DC volts	200mV-500V
AC volts	200V-500V
DC amps	200uA-5A
Resistance	200-2000k
Diode test	Yes
Transistor test	Yes
Ranging	Manual
LCD size mm	15x47
Dims mm	125x69x22

## Optimate 2. Automatic maintenance battery charger



12 Volt automatic battery charger for lead acid, EFB, AGM and gel & Li-ion (made with LiFePO4/LFP technology) batteries from 6-96Ah. Ideal for motorcycles. Constant 2A output current for safe recharging. Safe for months long connection during over-winter battery maintenance. Features automatic 5 stage charge cycle. Supplied with two connection leads. One fused lead with ring terminals for permanent connection to the battery and one with crocodile clips.

**Ref: OPT2 £66.92**

## Weatherproof connector/lead.

Allows for quick connection to Optimate by plug and socket, Includes weatherproof fuseholder on positive lead.

**Ref: SAE71 £12.90**



## 6V/12V Battery charger maintainer.



6V/12V battery charger for lead-acid batteries only. Features 3 stage charging cycle. Input AC 100-240V, current rating 1A.

**Ref: 64731 £31.86**

# Tools

## Digital LCD vernier gauge

Four way measurement, internal, external, depth & step.



Stainless steel digital LCD vernier gauge. 150mm range. Select Metric/imperial display at any position. Manual on/off switch. Zero setting at any position. Bright LCD display. Fine adjustment roller and locking screw. Supplied in a padded case. Shockproof.

**Ref: DIG01 £25.18**

## Circuit Tester

Checks 6, 12 & 24v circuits. Bulb lights when circuit is complete.

Has a 1.5M rubber cable. Tester length 190mm.

**Ref: 53426 £16.70**



## Tyre pressure gauge



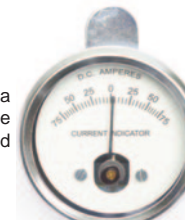
Very accurate professional tyre pressure gauge. Metal cased. Shockproof and vibration resistant. Bleed button to release inner pressure after use. Easy to read 0-60 psi and 0-4 bar dial markings. Supplied in polycarbonate case.

**Ref: GE92 £17.56**

## Induction Ammeter

Clip on to outside of cable giving a 'hands free' operation. A scale shows approximate current and direction of flow.

**Ref: 53430 30amp £33.10**



## Magnetic pick-up tool

Powerful magnet. Telescopic shaft. Length ; 490mm extended, 115mm retracted.

**Ref: 5537 £3.39**



## Locking wire pliers

9" safety locking wire pliers.

**Ref: LSWPLIER £19.98**



## Stainless steel locking wire.

0.7mm dia x 30 metres.

**Ref: GPRWIRE £8.38 (30metres)**



## Feeler gauge

Imperial feeler gauges. 10 blade. 0.002"-0.025".

**Ref: 101002A £4.82**



## Mechanics Stethoscope

2 piece 320mm probe for pinpointing worn bearings, engine faults, and other mechanical noises.

**Ref:STETH £10.68**



## Car trim remover kit



Set of 5 tools for removing upholstery clips, trims & mouldings without damage to panels. Tools are made of fibreglass and nylon.

**Ref: TRT £15.36**

## Third hand tool

"Third hand tool" with 60mm dia magnifying glass. Features adjustable joints, strong crocodile clamps and cast iron base.

**Ref: 8605 £6.72**



## Timing disc

Timing disc in PVC marked in degrees for accurate timing. Dia 190mm

**Ref:W29046 £6.50**





## Motorcycle parts

### Supergrips Black.

Positive control and grip with these grips, they have a 'tacky' feel when warmed, the ultimate sports bike grips. Includes end plugs. 125mm long. Fits 7/8" bars. **Ref:GRPSUPBK £7.98 pr.**

### Replica Amal grips 7/8"

**Ref:W84042 £7.90 pair**

### Standard twistgrip 7/8"

Twistgrip complete with both amal grips.

**Ref:W83124 £19.90**

Use ferrule F35 and BN57555 nipple

Alloy levers with mirror boss.

**Ref: LVR2LNG £29.98 pair**

Use nipple BN89L. Use ferrule F100

**British type levers.** Chromed steel.brake.

Brake lever. **Ref: LVR5BR £13.90 ea**

Clutch lever. **Ref: LVR5CL £13.90 ea**

Use nipple BN1010L Use ferrule F100

### Air/magneto levers

Right hand. 7/8" **Ref:W83005 £19.90**

Left hand. 7/8" **Ref:W83007 £19.90**

Use ferrule F1

### Decompressor lever

7/8" ball ended. **Ref:W83011 £13.90**

Use nipple BA5 & ferrule F1

**Magneto advance cable grommet,**

fits Triumph/BSA. **Ref: W61146 £2.14**

### Motorcycle fuel tap & spigots

1. **Chrome flat lever fuel tap.** On/off with filter.

Fits 1/4" x 1/4". Ethanol resistant. **Ref: W73091 £15.90**

2. **Nut/spigot** for W73091 fuel tap 1/4"

**Ref: W73022/27 £4.00**

3. **Angled Nut/spigot** for W73091 fuel tap1/4"

**Ref: W73051 £8.50**

### Motorcycle tax disc holder

Stainless steel licence holder.

**Ref:W85053 £13.90**

## Genuine Lucas Motorcycle Ignition coils

6V ignition coil.

**Ref: W19375**

**£31.90**

12V ignition coil.

**Ref: W19376**

**£31.90**

## 12V Twin ignition lead coil

As fitted OEM on early Japanese motorcycles with points ignition. Black lead: Neg. Yellow lead: Pos. Fixing nuts are 90mm apart. Can be used with the W61495 Electronic ignition kit below.

**Ref: W19371 £49.90**

## Electronic ignition kit, for classic motorcycles



For classic british motorcycles. Twins and single cylinder. BSA and Triumph twins. Norton Commando, Norton Atlas BSA C15/B40, B25, B44, B50, Triumph T20 cub.

Positive or negative ground. 12V only

**Ref: W61495 £119.90**

## Motorcycle carburettor synchronizers

Contain vacuum gauges, mounting plate, valves, hoses and extension probes. For twin carburettors.

**Ref: VGA2 £31.98**

## Motorcycle spring tool

Universal tool for spring removal. Length 170mm. Plated finish.

**Ref: MSH £6.82**

## Motorcycle switches

### Handlebar Switches fit 22mm (7/8") bars.



1. Chromed horn push or cut-out, earths the contact.

2. Chromed dip or on/off.

3. Chromed dip & horn.

4. Chromed lights/horn/cutout or indicators/horn/cutout.

**Ref: SW1014R £7.50**

**Ref: SW1035 £8.85**

**Ref: SW1049 £11.25**

**Ref: SW1036 £20.97**

5. Black on/off switch. Cable length approx 60cm. Connections are 3.9mm Japanese bullet and socket.

**Ref: ESS £19.98**

6. Chromed, indicators, or on/off/on. **Ref:SW1169 £13.90**

### Lucas Ignition Switch

Ignition switch body, lock/key and rubber boot sold separately.



Lucas ignition switch body. 1968-70. BSA, Norton, Triumph.

**Ref: W10163 £17.90**

Lucas ignition lock with 2 keys.

**Ref: W10145 £9.50**

Rubber boot for Lucas ignition switch

**Ref: W10169 £5.90**

### Universal folding pillion footrest

Bolt length 50mm.

**Ref:W70004 £21.90 pair**

### Footrest rubbers

As fitted to British motorcycles. 1/2" bore x 4" length.

**Ref: W71015 £5.50 pair**

### Universal gear lever rubber

13mm bore x 60mm length.

**Ref: W71025 £1.95**

### Replica Switches

Replica of Lucas chrome horn push switch. 7/8" Type 4A

**Ref: W16006 £11.90**

Replica of Lucas chrome horn/dip switch complete with harness. Type 255A

**Ref: W19231 £27.90**

Replica of Miller 157HV. Chrome horn/dip switch complete with harness. 7/8"

**Ref: W86004 £23.90**

Replica of Wipac Ducon switch. Dip/main beam and horn switching. Fit 7/8" bars.

**Ref: W10128 £21.90**

### Stop Lamp Switches

Honda type rear stop switch, pull for on type operation.

**Ref: SSHR01 £11.97**

Universal, with spring & clamp, pull for on type operation.

**Ref: SW1039 £8.85**

Universal, with spring & hook. Gives contact when spring is pulled

**Ref: 180008 £14.16**

Rubber cover for 180008 stop lamp switches above.

**Ref: 54049 £2.28**

Lucas replica stop lamp switch. Fits BSA, Triumph triples, Norton commando & Triumph 750 twins.

**Ref: W10141 £9.90**



## Motorcycle lights

### Lucas Chrome 7" headlamp shell & rim

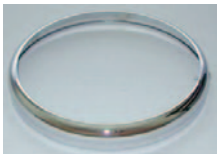
Genuine Lucas chrome 7" headlamp shell and rim for side mounting. Apertures for ammeter, wiring grommet (see HWG below), two 13mm warning lights and one toggle switch.

**Ref: W10158 £39.90**  
Use with 0887 rim clips and W19016 fixing bolt see below.



### Chromed steel outer rims

7" headlight rim, depth 1"  
Large radius curve o/d 8 1/2"  
**Ref: 5435 £25.32**  
Small radius curve, o/d 8".  
**Ref: 5445 £18.78**



**Lucas** Outer rim for 7" motorcycle lamps, 1" deep (lens/reflector holder). o/d 7 1/2".  
**Ref:0925. £15.80**

### Lucas 5 3/4" Chrome headlamp rim

As fitted to BSA C15/B40, Triumph Tiger Cub etc.

Note: Only suitable for fitment to a motorcycle headlamp bowl. Not suitable for vehicles with a recessed headlamp mounting bowl. Depth 7/8" **Ref: W19018 £11.90**



**1. Rubber grommet**, for wiring on British Lucas type headlamp shell. Fits a 40mm hole in headlamp shell. Has a 13mm hole through centre. **Ref: HWG £3.00**

**2. Headlamp rim fixing clamp and screw.**

Fits Lucas motorcycle headlamp. **Ref: W19016 £2.50**  
**3. Reflector clips** (pack of 4). Holds lens/reflector into motorcycle rim. **Ref:0887. £1.14**

### Bates type chrome headlamp

Side mounted 5 3/4" chromed steel headlight assembly. Includes lens, reflector, main bulb H4 halogen 12V 60/55W and pilot bulb. E marked.  
**SB534E £45.98**



### Bates type 5 3/4" headlight visor

High chrome visor peak, simple locate between the housing rim and glass deflector. Fits Bates 5 3/4" headlamp above.  
**Ref: HLV534B £9.98**



Replica of Wipac type S446. 12V. Double contact, stop & tail light.  
**Ref: W19031 £23.90**



Replaces British pre 1963. Fitted with 12V 21/5W bulb  
**Ref: RL011 £9.90**

Replica of original Miller stop/tail lamp as fitted to Vincent B & C models. Fitted with 12V bulbs, 23 & 5w  
**Ref: W19233 £23.90**



### Classic Round Reflector

Chrome bezel 52mm diameter. Rear 5mm stud fixing with nut and washer.  
**Ref: W19102 £9.50**



### Ammeters

Motorcycle ammeter 12-0-12 amps. Body dia 40mm, bezel 46mm.  
**Ref: 19019 £24.50**



Motorcycle 8 Amp ammeter with black face and metal casing. Common on various models from 1936-1968. Body dia 40mm, bezel 46mm.  
**Ref: W19010 £15.90**



### Headlight brackets

Chrome. Supplied with rubbers to fit 31mm forks.  
**Ref: HLBDCB £27.28 pair**



**Headlight bracket rubbers** for above.  
to fit: 35mm **Ref: HLB RUB35 £9.98 pair**  
to fit: 38mm **Ref: HLB RUB38 £9.98 pair**

## Motorcycle indicators

### Motorcycle Indicator Kit.



Complete kit for replacing, modifying or installing a motorcycle or moped. Available with round or square lens lamps. The kit comprises of : 2 x pairs of flexi-stem indicators with 10mm mounting bolt & nut. E-Marked. Handlebar switch, flasher unit, cable, sleeving, terminals, fuse & fuse holder, and full instructions.  
**Oval** lens measures 50mm x 42mm  
12v - **Ref: FLOVK12 £74.60** 6v - **Ref: FLOVK6 £75.04**  
**Square** lens 60mm x 44mm  
12v - **Ref: FLBOK12 £74.60.** 6v - **Ref: FLBOK6 £75.04**

### British type chrome indicators



Lens dia 65mm. Fitted with 12V 21W bulb and one nut.  
Stem length 80mm. **Ref: WL149**  
Stem length 125mm. **Ref: WL148**

7/16" unf nut, required if fitting in clearance hole. **Ref: B161 15p (ea)**  
Spare bulbs. 12V - **Ref: 382 66p.** 6V - **Ref: 317 £1.11**  
Spare lens for WL148 or WL149. **Ref: WLE018 £3.90 (ea)**

### Fairing indicators

Black flush mounting fairing indicators. Dimensions: 90x55x32mm.  
12V 23W bulbs fitted. E marked.  
**Ref: INDFBLK £14.98 (pair)**  
12v 23w (BA15) **Ref: BLB04 £1.40 ea.**



### LED Indicators 12V



**£19.98 per pair**

No bulb needed. Lens dimensions 50 x 28mm. 8mm fixing hole. (Use with LED flasher unit Ref: LED01, on p41).  
Long stem 38mm. (illus) **Ref: INDLED18.**  
Short stem 20mm. **Ref: INDLED19.**

### Flexi-Stem Indicators



10mm mounting bolt (includes nut). E marked.  
12V 10W bulbs fitted (for 6V use bulb ref 244).  
**Square**, Lens 60x44mm. **Ref: INDUFLBO. £24.98 per pair**  
**Oval**, Lens 50x42mm **Ref: INDUFLOV £24.98 per pair**  
Spare bulbs. 12V - **Ref 245 42p.** 6V - **Ref 244 57p**

### Rubber Stem Mini Indicators



**£11.90 per pair**

Black rubber stems. Lens 58x38mm. 8mm fixing stud.  
Long stem 40mm (illus) **Ref: WE35071**  
Short stem 19mm **Ref: WE35070**  
Spare bulbs 12v 23w **Ref: BLB03 £1.20 ea**

### Indicator wiring kit

Kit includes: handlebar switch, flasher unit, cable, sleeving, terminals, fuse and wiring instructions. (indicators not included). **£28.26**  
6V pack **Ref: INDWP6,**  
12V pack **Ref: INDWP12**



### 12V USB Handlebar Outlet

USB socket kit for motorcycle fitment. 12V input, 5V output. Features weatherproof cap & cable seals to rear. Pre-wired with fuse holder and 15A fuse. Also includes quick connector allowing unit to be disconnected from battery when not in use.  
**Ref: POWSUP12 £31.98**





# Control cable parts

## Control cables and nipples



### Inner wire.

Ref.	Dia.	Metre
GWS0	1.25mm	<b>88p</b>
GWS1	1.50mm	<b>88p</b>
GWS2	2.00mm	<b>£1.06</b>
GWS3	2.50mm	<b>£1.38</b>

Galvanised steel 19 core stranded inner wire. Steel spiral casing with a commercial PVC sheath and Teflon lined outer casing.

### Outer casing.

Ref.	To suit	I.D.	O.D.	Metre
LB1NS	GWS0/1	2.4mm	5mm	<b>£6.50</b>
LB2NS	GWS1/2	2.8mm	6mm	<b>£6.66</b>
LB3NS	GWS2/2A	3.75mm	7mm	<b>£7.34</b>

### Ferrules.

Ref.	To Suit	Ea.	10
F1	LB1NS	<b>83p</b>	<b>£6.23</b>
F35	LB2NS	<b>65p</b>	<b>£4.88</b>
F100	LB3NS	<b>£1.23</b>	<b>£9.23</b>



## Control cable cutters

Wire cutters for all inner control cable as listed above.

Ref: WC6 **£25.30**



## Control cable inner wire bird caging tool

Tool for forming a 'birdcage' when soldering nipples to control cable inner wires. Suitable for 1.5, 2 and 2.5mm dia wire. You will need a vice to hold the jaws and clamp the cable. Then use a hammer to stamp the supplied punch to form the 'birdcage'.

Ref: VT13 **£132.53**



## Barrel nipples



Ref.	Dia.	Length.	Max wire	Ea.	10
1. BN6	4.5mm	4.5mm	GWS1	<b>52p</b>	<b>£3.90</b>
2. BN610	6mm	9.5mm	GWS2	<b>54p</b>	<b>£4.05</b>
3. BN575	5mm	7.5mm	GWS1	<b>75p</b>	<b>£5.63</b>
4. BN57555	5.75mm	5.5mm	GWS1	<b>52p</b>	<b>£3.90</b>
5. BN89L	8mm	9mm	GWS4	<b>£1.14</b>	<b>£8.55</b>
6. BN1010L	10mm	10mm	GWS4	<b>£1.01</b>	<b>£7.58</b>
7. BN1013L	9.5mm	13mm	GWS4	<b>91p</b>	<b>£6.83</b>

## Solderless nipples



Ref.	Size(DxL)	Fixing type	Max wire	Ea.	10
1. BNS575	5.5x7.2mm	Screw	GWS2	<b>£1.17</b>	<b>£8.78</b>
2. BNS6	6x10mm	Screw	GWS2	<b>£1.55</b>	<b>£11.63</b>
3. BNS8	8x13mm	Hex nut	GWS3	<b>£1.38</b>	<b>£10.35</b>

## Nipple for air/magneto levers

Ref.	Type	Dia.	Length	Max wire	Ea.	25
W81620	Drum	1/4"	1/8"	GWS1	<b>£1.67</b>	<b>£31.31</b>

## Nipple for exhaust lifter handlebar levers etc

Ref.	Type	Dia.	Max wire	Ea.	10
BA5	Ball	5mm	GWS1	<b>39p</b>	<b>£2.70</b>

## Nipple for carburettor air & throttle slides

Ref.	Type	Dia.	Length.	Max Wire	Ea.	10
EE7	Tube	3mm	3mm	GWS1	<b>24p</b>	<b>£1.80</b>

## Nipples, pear



Ref.	Max wire	Length	Ea.	10
1. W81625	GWS1	8mm	<b>£1.18</b>	<b>£8.85</b>
2. TN24	GWS2	10mm	<b>71p</b>	<b>£5.33</b>
3. TN17	GWS2A	12mm	<b>94p</b>	<b>£7.05</b>

## Control cable junction box

Used to link 2 carburettors to twistgrip or air lever. Material: Nylon. (Each cable end in junction box also needs one nipple EE7 & one ferrule F1)

Ref: W88003 **£8.75**



## Cable adjusters

1. Pair of alloy cable adjusters. M8 thread, 9mm dia ferrule recess. Use ferrule F100. Ref: CABASTD **£9.98 pair**
2. Control cable mid-adjuster. 32mm long. Suitable for F35 ferrule. Ref: A61B **£3.88**
3. Control cable adjuster screw M6 1.0mm x 32mm length. Suitable for F35 ferrule Ref: A632 **£2.05**
4. Midway control cable adjuster. 20mm long. Suitable for F35 ferrule. Ref: A675B **£2.90**
5. Control cable adjuster screw. M6 1.0mm x 25mm length. Suitable for F35 ferrule. Ref: A625 **£2.44**
6. Cable adjuster locknut. M6 x 1.0mm fits adjusters as listed above. Ref: LN610 **38p each**



## Control cable adjuster boot

Neoprene boot for protecting cable adjusters. 8mm bore, 47mm long. Ref: ADJB **£3.14**



## Control cable separator

Chrome control cable separator. 8mm holes. Ref: CBSTCH **£6.98**



# Control cable kits & manuals

## Universal Motorcycle Clutch Cable Kits

### Clutch Cable

Outer (teflon lined) cable length 1.35m, Inner cable length 1.6m. Supplied with a selection of nipples & fittings. One end of inner cable has 6mm x 10mm nipple fitted and one end of outer has crimped ferrule.

Ref: UCCK **£20.16**



### Clutch Cable Kit

Conduit is supplied with 5M of low friction black PVC liner and 5M of 2mm dia inner wire. A range of nipples, ferrules and high quality fittings included. Fittings can be adapted for a range of models. There are enough fittings in the kit to make at least 5 lines.

Ref: VWK002 **£55.86**



## Universal Motorcycle Throttle Cable Kits

### Throttle cable

Outer (teflon lined) cable length 1.35m, Inner cable 1.6m. Supplied with a selection of nipples, adjusters & ferrules. One end of inner cable has carburettor nipple fitted & one end of outer cable has ferrule fitted.

Ref: UTCK **£15.98**



### Workshop Throttle Cable Kit

Conduit is supplied with 5M of low friction black PVC liner and 5M of 1.5mm dia inner wire. A range of nipples, ferrules and high quality fittings included. Fittings can be adapted for a range of models. There are enough fittings in the kit to make at least 5 lines.

Ref: VWK003 **£42.70**



### Cable lubricator

Ref: CLBLK **£7.98**



## Universal cables

### Universal choke cable

Locking Bowden cable. 1.52 metres. Multi strand.

Ref: A420 **£18.40**



### 'T' Pull cable

3 metre competition 'T' pull cable. Suitable for use with fire extinguishers, bonnet catches etc. Multi strand.

Ref: GE61B (Black) **£18.36**



### Universal Throttle Cable

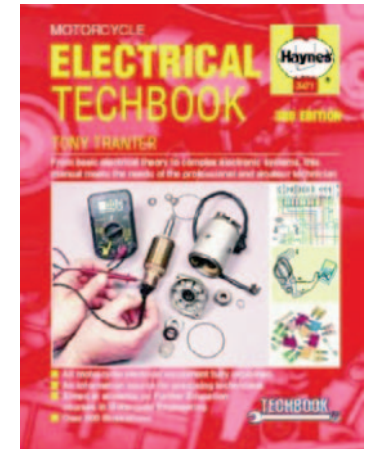
3 metres long, Inner 1.5mm, outer 5.6mm, 6.5mm ferrule. Blue outer sleeving with bulk head grommet on one end, fits 8mm hole. Multi strand.

Ref: TLK **£12.00**



## Haynes Manual.

No VAT charged on Manuals



## Motorcycle Electrical Techbook

From basic electrical theory to complex electronic systems. All motorcycle electrical equipment fully explained. Includes information on ABS, fuel injection and engine management. Covers practical electrical testing and electrical fault finding. Supplied in paperback. Ref: 3471 **£33.00**



## Index

accessory plug & socket	57	heat resistant sleeve	9	timing disc	69
aerial	59	heatseal terminals	21	timing relays	43
alternator plug	32	heatshrink tubing	8	towing accessories	56
ammeters	64,69,72	headlights	52	trailer cable	6
battery box	16	horns	58	trim buttons	66
battery cable	6	hose clips,hose clip driver	61	trim remover kit	69
battery chargers	68	hose connectors	60	tyre pressure gauge	69
battery clamp	16	HT terminals & tools	17	USB / power sockets	50
battery connectors	12,13	ignition coil (m/c)	70	velcro strip	10
battery switches	15	ignition terminals	17	vernier gauge	69
battery terminals	12,13	indicator lamps m/c	73	voltmeters	64
beading	9	indicator kits m/c	73	warning lights	49
birdcage tool	74	junction box 120amp	16	windscreen wash parts	59
booster cable	16	junction box w/proof	56,31	worklamps	55
boxes	25	junior/power/timer housings	32		
brackets, for gauges	74	lamp mounting set	52		
braided sleeving	9	lamp parts	51		
brake pipes,fittings	62,63	lights	52-55		
bulbs	50,51	lights (m/cycle)	72,73		
bulb holders	51	LED warning lights	49		
busbars	33	locking wire, pliers	69		
butane blow torch	8,65	mechanics stethoscope	69		
buzzers	43	modular fuse/relay housings	36,37		
cable	4-6	motorcycle parts	70-73		
cable clips	11	multimeters	68		
cable cutters	14	multi-way connectors	28-31		
cable fixing	10,11	nuts,bolts,screws,washers	66,67		
cable markers	7	O rings, rubber	67		
cable protection, sleeving	9	O clips & crimp tool	60		
cable strippers	27	P clips	11		
cable ties & mounts	10	PIB tape	7		
carburettor synchronizer	70	pipes & hoses, pipe clips	61		
choke cable	75	plug & socket (acc'y 12V)	57		
cigarette lighter	57	power connectors	30,31		
circuit breakers	42	powerpole connectors	30		
circuit testers	69	radiator fans, thermostat	59		
closing tool	27	rechargeable inspection lamps	55		
connector blocks	32	reflectors	54		
control cable & nipples	74	regulators (generator)	58		
control cable kits	75	relays & sockets	34,35		
convoluted tube	9	relays - split charge	56		
copper tube terminals	12	reverse alarm	56		
copper washers	67	sleeving	8,9		
crimping tools	14,19,21,26,27	smart logic towing relays	56		
crocodile clips	16	solar battery maintainer	68		
electronic ignition kit (m/c)	70	solder, solder iron,solder gun	65		
exhaust mount bobbin	67	spiral binding	9		
fans (radiator)	59	starter solenoid	16		
flasher units	43	starter terminals	12		
foam rubber strip	10	switches	44-48		
fuel filter, pipe, valve, tap	60,70	switches (battery)	15		
fuel pipe	61	switches (m/cycle)	71		
fuel pump	60	symbol sheet	48		
fuel tap	70	tap connectors	32		
fuse boxes, holders	38-41	tape	7		
fuse puller	41	terminal extractor tool	25,36		
fuses	41,42	terminal kits, non-insulated	24		
gas powered solder tool	8,65	terminal kits, pre-insulated	20		
gauges	64	terminals, non-insulated	22,23		
grommets	7	terminals, pre-insulated	18-21		
Haynes manuals	75	third hand tool	69		

## Notes

[illegible]

[illegible]**ORDER FORM.**

**Order by PHONE, POST or FAX at any time day or night. Tel:0115 9305454, Fax:0115 9440101**

**Pay by CREDIT or DEBIT CARD or CHEQUE or P.O.**

CHEQUE/PO value £.....

[illegible]

	TOTAL	
--	-------	--



When placing an order please state your customer number

If the name or address is not correct please advise us.

**Customer number**