

# Vehicle Wiring Products

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## Trade & DIY Mail Order Catalogue UK & Export

Prices exclude VAT.

VAT No GB 118 4824 65

2023/24

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**Welcome to our trade & DIY mail order catalogue.** We try to ensure that the products we sell are of the highest quality, and we appreciate any comments or suggestions. 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. For the latest prices please see our website or call us on 01159305454.

# How To Order

## **BY PHONE: 0115 9305454.**

Orders can be phoned at any time.

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. Calls before 9.00am or after 5.00pm and at weekends can be left on our answer machine. Please speak clearly & leave your phone number & your customer number (found on the address label on the back page).
3. Please provide card details with every order because **we do not retain customers card details.**

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

Secure online ordering. Easy to use website. Order anytime day or night.

**BY POST:** Remove and complete the order form from page 95 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, Maestro, Visa electron.

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.

## **EMAIL:**

Our email address is:

**[sales@vehicleproducts.co.uk](mailto:sales@vehicleproducts.co.uk)**

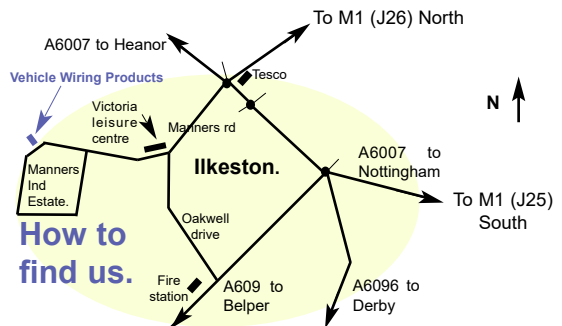
## **PAYPAL:**

We accept PayPal as a method of payment. Our PayPal email address is:

**[salespg@vehicleproducts.co.uk](mailto:salespg@vehicleproducts.co.uk)**

## **COUNTER SALES:**

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



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 U.K

### UK Mainland

**Orders under £100 Goods Total (ex-vat).....£3.95**

**Orders over £100 Goods Total (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,IV1-39, IV52-54, IV63, KW1-14, PA21-40, PH19-26, PH30-41, PH49-50, Scotland Islands HS1-9, IV40-51, IV55-56, KA27-28, KW15-17, PA20, PA41-49, PA60-78, PH42-44, ZE1-3**

**Orders under 2kg (Royal Mail 2-3 day delivery).....£3.95**

**Orders over 2kg (Courier, usually DPD).....£15.00**

**Next Day / Saturday Deliveries.....Not Available**

## Overseas Orders

The easiest way to order is online but you can also pay by credit card, Visa, Visa Electron, Maestro, Mastercard. We can also accept bank transfers. Please contact us for our bank details.

If paying by bank transfer, please ensure that any charges made by your bank for this service are charged to yourself, ie not deducted from the amount to be paid for the order value.

If paying by bank transfer, please incorporate any fees with your payment.

We also accept PayPal, please see opposite page for details. Carriage is charged at cost (minimum charge is £7). Goods are normally sent by air.

**EU Countries,** All EU countries are now zero VAT but may need to pay any local import taxes due.



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**Cable fixing & sleeving**

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**Battery terminals, leads & isolators**

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## Single core PVC thinwall cable

A high performance cable which, as the name suggests, has thinner insulation. 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 old type cable. Gives savings in weight and volume when used in large harnesses. This cable is now original equipment on most new vehicles.

**Ref 11. 16/0.20mm, 0.5mm<sup>2</sup>, 11amp. 1.6mm O/D**

**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. 1.95mm O/D**

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

REF: 16 cable continues above

**32/0.20 thinwall continued.**

Yellow/Slate	Yellow/White
Yellow/Orange	
Yellow/Pink	
Yellow/Purple	
Yellow/Red	

**Ref 25. 28/0.30mm, 2mm<sup>2</sup>, 25amps. 2.55mm O/D**

**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.**

**£1.03 per M. £24.72 per 30M reel, 3.2mm O/D**

**£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.**

**£1.22 per M. £27.45 per 30M reel. 3.5mm O/D**

**£85.40 per 100M reel.**

Typical applications: Charging cable for battery feed & ammeter.

Black	Red	Yellow
Brown	White	



# Cables

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

## Tinned single core PVC thinwall 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.**

**65p per M. £24.38 per 50M reel.** 2.4mm  
O/D

Black	Brown	Blue
Green	Red	Yellow

**Ref CM2.5 35/0.30mm, 2.5mm<sup>2</sup>, 29amps.**

**99p per M. £37.13 per 50M reel.** 3mm  
O/D

Black	Brown	Blue
Green	Red	Yellow

**Ref CM4 56/0.30mm, 4mm<sup>2</sup>, 39amps.**

**£1.48 per M. £33.30 per 30M reel.** 3.7mm  
O/D

Black	Brown
Green	Red

**Ref CM6 84/0.30mm, 6mm<sup>2</sup>, 50amps.**

**£2.23 per M. £50.18 per 30M reel.** 4.3mm  
O/D

Black	Green	Red
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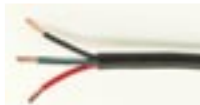
**Ref CM10 80/0.40mm, 10mm<sup>2</sup>, 70amps.**

**£3.67 per M. £82.58 per 30M reel.** 6mm  
O/D

Black	Green	Red
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## 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	73p	£17.52
CM216	2 x 1.0mm <sup>2</sup>	16	5.5mm	97p	£23.28
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

## Battery & starter cable

**Black or Red.**

Note: old 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

**Black or Red.**

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

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

Battery/starter cables are also suitable for making your own jump leads if our standard stock doesn't meet your requirements. See page 19 for jump lead set & battery clips.

## 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	£16.25

## 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

## Trailer cable



Ref.	Cable.	O/D	M.
TC7	7-core, 6 x 1mm <sup>2</sup> + 1 x 2mm <sup>2</sup>	8.3mm	£2.92
TC7	Used for 12N wiring on caravans (Black sheath)		

TC7G	7-core 6 x 1.5mm <sup>2</sup> + 1 x 2.5mm <sup>2</sup>	10.1mm	£3.23
TC7G	Used for 12S wiring on caravans (Grey sheath)		

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

Note: inner colours are standard trailer colours.



# Speaker Cable, Grommets & Cable Markers

## 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	73p	£58.40
SF10	2 x 1mm <sup>2</sup>	10	4.7 X 2.3	91p	£72.80

## 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 £7.89



## Edge protection Beading

Black PVC. For fitting over the edges of panels and to protect cables through sharp edged cut out sections.



Fits panel thickness 0.8mm-1.6mm O/D 5mm.

Ref: PSI

57p per M. £33.97 per 75M. coil.



Fits panel thickness 2.0mm-3.0mm. O/D 7.0mmx6.0mm

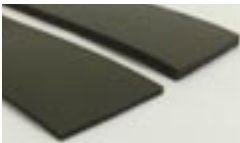
Ref: RA1

£1.04 per M. £64.06 per 75M coil.

## 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.

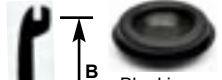
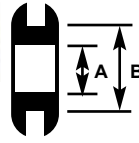


Ref.	Width.	Thick.	M.	Reel.
FRS	50mm	3mm	£2.88	£55.20(25M)
FRS6	50mm	6mm	£4.10	£38.24(12M)

## PVC grommets Black.



Cable grommet (G)



Blanking grommet (BG)

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

Ref.	A.	B.	p(qty)	(50)
G6	4mm	6.4mm	£1.00(10)	£2.63
G8	5.6mm	7.9mm	£1.00(10)	£2.63
G10	8mm	9.5mm	£1.00(10)	£3.38
G12	8mm	12.7mm	£1.20(10)	£4.50
G16	11mm	14mm	£1.50(10)	£5.63
G20	12mm	19mm	£2.10(10)	£7.88
G25	19mm	25mm	26p(ea)	£9.75
G32	24mm	32mm	42p(ea)	£15.75
G38	32mm	38mm	49p(ea)	£18.38
G50	44mm	50mm	89p(ea)	£33.38
BG6		6.4mm	£1.00(10)	£2.63
BG8		8mm	£1.00(10)	£3.38
BG10		9.5mm	£1.00(10)	£3.00
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

## Grommet packs

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



## Grommet kits



Cable grommet kit. Ref:CGK. 250 assorted black PVC cable grommets in 8 sizes G6-G32.....£28.32

Blanking grommet kit. Ref:BGK. 250 assorted black PVC blanking grommets in 8 sizes BG6-BG32.....£29.64

Cable & blanking grommet kit. Ref:CBK. 250 assorted black PVC cable & blanking grommets in sizes G6-G32 & BG6-BG32.....£29.74

# Cable Protection

## Tape

### PVC tape, adhesive

Colours: Black, Red, Blue.

Ref:TA 19mm x 20M **£1.05 ea, £9.45(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 20M **£1.74 ea, £15.30(10)**

Ref:TNA25 25mm x 20M **£2.22 ea, £18.50(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)**



## Heat resistant tape

Aluminium covered fibreglass

adhesive tape. Protects against heat up to 815°C & abrasion. 37mm x 4.5M roll.

Ref: 55738 **£43.18**



## 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)
<b>TW5</b>	5mm	<b>£1.26</b>	<b>£50.40(50M)</b>
<b>TW8</b>	8mm	<b>£1.48</b>	<b>£60.00(50M)</b>
<b>TW13</b>	13mm	<b>£1.68</b>	<b>£68.76(50M)</b>
<b>TW16</b>	16mm	<b>£2.75</b>	<b>£65.63(25M)</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 1mm<sup>2</sup> thinwall cables that will fit into the sleeve.

Colour: Black available in all sizes.

4mm & 6mm also available in Grey



Ref.	Bore	Wall	Cables	M.	£(QTY)
<b>S4</b>	4mm	0.5mm	2	<b>26p</b>	<b>£12.00 (100)</b>
<b>S4G (Grey)</b>	4mm	0.5mm	2	<b>26p</b>	<b>£18.02 (100)</b>
<b>S6</b>	6mm	0.5mm	4	<b>31p</b>	<b>£14.40 (100)</b>
<b>S6G (Grey)</b>	6mm	0.5mm	4	<b>31p</b>	<b>£23.39 (100)</b>
<b>S8</b>	8mm	0.5mm	8	<b>37p</b>	<b>£18.40 (100)</b>
<b>S10</b>	10mm	0.5mm	12	<b>44p</b>	<b>£23.20 (100)</b>
<b>S12</b>	12mm	0.5mm	16	<b>73p</b>	<b>£27.20 (100)</b>
<b>S14</b>	14mm	0.75mm	20	<b>82p</b>	<b>£32.00 (100)</b>
<b>S16</b>	16mm	0.75mm	25	<b>92p</b>	<b>£36.00 (100)</b>
<b>S20</b>	20mm	1mm	32	<b>£1.75</b>	<b>£44.80 (50)</b>
<b>S25</b>	25mm	1mm	40	<b>£2.30</b>	<b>£55.20 (50)</b>

## 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.
<b>SB3B</b>	3mm	3-8mm	<b>33p</b>	<b>£6.40</b>
<b>SB6B</b>	6mm	5-25mm	<b>41p</b>	<b>£8.20</b>
<b>SB12B</b>	12mm	10-50mm	<b>72p</b>	<b>£14.28</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
<b>BS6B</b>	6mm	5-7mm	<b>72p</b>	<b>£60.42</b>
<b>BS8B</b>	8mm	6-9mm	<b>80p</b>	<b>£68.40</b>
<b>BS10B</b>	10mm	8-12mm	<b>94p</b>	<b>£82.93</b>
<b>BS12B</b>	12mm	10-14mm	<b>£1.13</b>	<b>£101.00</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.
<b>33440</b>	4mm	<b>£1.34</b>
<b>33460</b>	6mm	<b>£1.53</b>
<b>33480</b>	8mm	<b>£1.97</b>
<b>33520</b>	12mm	<b>£2.50</b>

# Cable Protection

## Heat shrink sleeving Polyolefin.

Can be used to provide permanent insulation over terminals, connections and wiring or for identification. 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, Blue, Yellow, Clear.**

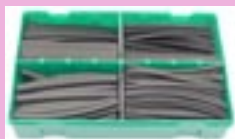
Ref.	Bore.	1M.
HS2	2.4mm	<b>62p</b>
HS3	3.2mm	<b>62p</b>
HS4	4.8mm	<b>62p</b>
HS6	6.4mm	<b>72p</b>
HS9	9.5mm	<b>82p</b>
HS12	12.7mm	<b>£1.07</b>
HS19*	19.0mm	<b>£1.45</b>
HS25*	25.4mm	<b>£2.50</b>
HS38*	38.0mm	<b>£3.04</b>
HS50*	50.0mm	<b>£5.72</b>

\*Note; ref HS19,25,38,&50 only available in black or red.

## Polyolefin heat shrink sleeving kits

### Black kit,

Contains approx 10M of heat shrink sleeving, supplied in 100mm lengths in Black and six sizes (2, 3, 4, 6, 9, 12mm). All in a tough plastic case. **Ref:HSKB £16.34**



### Coloured kit,

Contains approx 9.5M of heat shrink sleeving in five colours (black, red, yellow, blue and white) and four sizes (3,4, 9, 12mm) in 50mm lengths in a plastic case. **Ref:HS172 £15.76**



### Coloured pack,

Contains approx 6M of heat shrink sleeving in five colours (black, red, yellow, blue, white) and four sizes (3, 4, 6, 12mm) in 200mm lengths. **Ref:HS30 £6.30**



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



## Butane blow torch

Butane blow torch ideal for heat shrink sleeving up to 6.4mm bore & for use on heatseal terminals. Refillable from standard butane gas lighter filler can. **Ref: 45099 £20.64**



## Adhesive lined Polyolefin

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. **Colours: Black, Red.**

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>

## 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>



## Flexible convoluted 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>65p</b>	<b>£52.00 (100)</b>
F11	11.5mm	15mm	<b>83p</b>	<b>£67.42 (100)</b>
F16	16.5mm	21mm	<b>£1.35</b>	<b>£114.00 (100)</b>
F23	23.5mm	28mm	<b>£1.92</b>	<b>£90.17 (50)</b>

Ref(slit)	Bore.	O/D.	M.	£(QTY)
SF7	7mm	11mm	<b>65p</b>	<b>£52.00 (100)</b>
SF11	11.5mm	15mm	<b>82p</b>	<b>£60.00 (100)</b>
SF16	16.5mm	21mm	<b>£1.35</b>	<b>£109.80 (100)</b>
SF19	19.5mm	24mm	<b>£1.22</b>	<b>£54.90 (50)</b>
SF23	23.5mm	28mm	<b>£2.11</b>	<b>£82.00 (50)</b>

## Fittings for Convoluted tube

Enable complete protection of the vehicle wiring system.



End fitting

Tee piece

Temperature range -40 to +120°C. End fittings are for fixing to bulkheads.

**Material: black nylon.** Not suitable for slit tube.

To fit.	End fitting.		Tee piece.	
	Ref.	Ea.	Ref.	Ea.
F7	CA07	<b>£3.54</b>	T07	<b>£6.04</b>
F11	CA13	<b>£3.54</b>	T13	<b>£10.22</b>
F16	CA16	<b>£3.54</b>	T16	<b>£9.50</b>
F23	CA23	<b>£5.18</b>	T23	<b>£14.46</b>

# Cable Fixings

## 'P' clips Black nylon



5mm fixing hole

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

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

## 'P' clip kit

### Black nylon.

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

Ref:XX **£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



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

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

## '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

Material: aluminium.

Self adhesive base.

Ref.	Max dia.	(10)	(50)
SCS	6mm	£1.80	£6.75
SCL	10mm	£2.30	£8.63
SC4	19mm	£6.20	£23.25



## Mounting clips

Material: White nylon.

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

Ref.	B.	Ea.	(100)
MCS	5mm	19p	£14.25
MCM	8mm	25p	£18.75
MCL	15mm	28p	£21.00



## Cable clamps

Black self adhesive with releasable snap locks & a 4mm mounting hole

Ref.	Dia.	Ea.	(100)
4J	6mm	30p	£24.90
6J	9mm	31p	£25.73
8J	12mm	35p	£29.05
10J	14mm	31p	£26.12
11J	16mm	43p	£35.69
12J	18mm	34p	£27.92



## 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



# Cable Ties

## Cable tie tensioning tool

**TT20.** For cable ties 2.2-4.8mm wide. Pistol grip style. Rapidly tensions cable tie then automatically cuts off the excess at the preset tension. Adjustable with knurled thumb screw. Ideal tool when using a lot of ties. All metal construction. Length: 160mm.



Ref: TT20 £30.84

## 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.

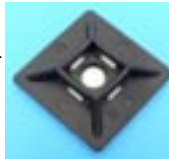
Ref:BP75 £6.91



## Cable tie mounts

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

Ref.	Max tie.	Ea.	(50)
SABS B	3.6mm	15p	£3.75
SABL B	4.8mm	15p	£5.63



**Screw fixing cable tie bases.** Material: Black Nylon.

Ref.	Max tie.	Ea.	(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.	Ea.	(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



## 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	£1.40	£10.50 (100)
CT300B	300mm	4.8mm	£1.00	£3.75 (100)
CT30076B	300mm	7.6mm	£1.80	£13.50 (100)
CT360B	360mm	4.8mm	£1.00	£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)

## Push mount cable ties

These cable ties have a moulding at the head that snap fits into a hole. The tie is then used in the usual way but is fixed to the panel. Fits panels up to 3mm thick.

Colour: **white.**

AT155 fits a 4.5mm hole. AT215 fits a 6mm hole.



Ref.	Length.	Width.	(10)	(100)
AT155	155mm	3.5mm	£1.00	£6.00
AT215	215mm	4.6mm	£1.00	£6.54

## Screw mount cable ties

These cable ties have a 5.3mm hole moulded at the head allowing the tie to be fixed by screw or bolt to a panel. The tie is then used in the usual way but is fixed to the panel. Available in white only.



Ref.	Length.	Width.	(10)	(100)
ET200	200mm	4.8mm	£1.10	£8.25

## 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

## 4" Rubber cable ties

As used on classic British motorcycles.

Supplied in a pack of 5.

Ref: RCT4 £2.20



# H.T. Terminals & Tools

## H.T terminals & insulations

Suitable for standard 7mm HT cable. See page 8.

**Spark plug covers.** Material: **Hypalon.**



Ref.	To fit.	Ea.	£(qty)
RS76	IT117	99p	£20.54 (25)
RS221	IT103	93p	£19.30 (25)

**Spark plug terminals.** Material: **Tinned steel.**

Fitted with spring clip for added security and longer life.



Ref.	To fit.	Ea.	£(qty)
IT117 (Angled)	RS76	34p	£12.75 (50)
IT103 (Straight)	RS221	68p	£25.50 (50)

**Distributor & coil covers.** Material: **Black PVC.**



Ref.	Int dia.	Ea.	£(qty)
RS215	14mm	85p	£16.02 (25)
RS20	15mm	45p	£8.44 (25)
RS218	11mm	29p	£5.44 (25)

**Distributor & coil terminals** Material: **Plain brass.**



Ref.	To fit.	Ea.	£(qty)
IT35 (Angled)	RS215	99p	£18.56 (25)
IT111 (Straight)	RS20 or RS218	60p	£25.50 (50)

## Acorn Nut and washers

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

Brass Washer Ref: **W19056 83p each**  
Acorn Nut Ref: **W19057 £3.55 each**



## Crimping tool. H.T. terminals

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 **£65.42**



## Spark plug covers

Ref: **W76020**

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



Ref: **W76022**

NGK LB05F with rubber seals. Suppressed at 5K ohm  
**£3.90**



Ref: **SB05F**

NGK SB05F with rubber seals. Suppressed at 5K ohm. Length 77mm.  
**£3.62**



## 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 £108.60**

## Using the crimp tool ICT7.

1. Fit the insulation 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.



## 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

# Battery Maintenance

## 12V Solar power battery maintainer



12V 2.4w for cars & leisure batteries up to 110Ah. Durable water resistant casing. Complete with suction cups for windscreen mounting. 12VDC power plug, battery clips & 2.7 metre lead supplied. Current (at max power 138mA) Dims: 352x214x14mm. Weight 1150g.

Ref: RSP240 **£39.84**

12V 1.5w for small cars & leisure batteries up to 50Ah. Durable water resistant casing. Complete with suction cups for windscreen mounting. 12VDC power plug, battery clips & 2.7 metre lead supplied. Current (at max power 86mA) Dims: 352x125x14mm. Weight 670g.

Ref: RSP150 **£26.32**

## 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 **£4.06**



## 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.
8740	180 x 275 x 200 mm	<b>£20.32</b>
8745	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**



# Battery Connector Crimp Tools & Cutters

## Battery/starter terminal crimp tools

Ref: TN70. 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. **£107.43**



Ref: TN76. 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. **£80.60**



Ref: TN1016. Ratchet crimping tool for indent crimping ring terminals onto 10mm<sup>2</sup> and 16mm<sup>2</sup> cable.

Length 240mm. **£29.98**



Ref: TT75 Ratchet crimping tool for indent crimping ring terminals on to cables 1.5-10mm<sup>2</sup>.

Length: 255mm. **£43.72**



## Wire cutters

Ref: TT50 Heavy duty cable cutter for cutting cables up to 70mm<sup>2</sup>.

Length: 236mm. **£20.46**



# 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>	46p	£3.85
CTT10/8	8mm	10mm <sup>2</sup>	46p	£3.85
CTT10/10	10mm	10mm <sup>2</sup>	46p	£3.85
CTT10/12	12mm	10mm <sup>2</sup>	46p	£3.85
CTT16/6	6mm	16mm <sup>2</sup>	61p	£4.70
CTT16/8	8mm	16mm <sup>2</sup>	61p	£4.70
CTT16/10	10mm	16mm <sup>2</sup>	61p	£4.70
CTT16/12	12mm	16mm <sup>2</sup>	61p	£4.70
CTT25/6	6mm	25mm <sup>2</sup>	72p	£5.41
CTT25/8	8mm	25mm <sup>2</sup>	72p	£5.41
CTT25/10	10mm	25mm <sup>2</sup>	72p	£5.41
CTT25/12	12mm	25mm <sup>2</sup>	72p	£5.41
CTT35/6	6mm	35mm <sup>2</sup>	77p	£6.54
CTT35/8	8mm	35mm <sup>2</sup>	77p	£6.54
CTT35/10	10mm	35mm <sup>2</sup>	77p	£6.54
CTT35/12	12mm	35mm <sup>2</sup>	77p	£6.54
CTT50/6	6mm	40-50mm <sup>2</sup>	£1.24	£9.30
CTT50/8	8mm	40-50mm <sup>2</sup>	£1.24	£9.30
CTT50/10	10mm	40-50mm <sup>2</sup>	£1.24	£9.30
CTT50/12	12mm	40-50mm <sup>2</sup>	£1.24	£9.30
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\*. (See page 8 for battery and starter cable)

### PVC cover for CTT16-25 rings.

Black: AC4B Red: AC4R

£2.45 ea, £22.12 (10)

### PVC cover for CTT35-50 rings.

Black: AC5B Red: AC5R

£1.78 ea, £16.02 (10)

### PVC cover for CTT70 rings.

Black: RS312B Red: RS312R

89p ea, £7.40 (10)



## 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/starter flag terminal

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

Ref.	Hole.	Cable.	Ea.	(25)
F353	6.3mm	40mm <sup>2</sup>	£1.17	£24.28



## Copper tube ring terminals

### Rings



Ref.	Hole.	Cable .	Ea. (25).
T14-6	6mm	10-16mm <sup>2</sup>	45p £9.56
T14-8	8mm	10-16mm <sup>2</sup>	46p £9.56
T14-10	10mm	10-16mm <sup>2</sup>	46p £9.56
T22-6	6mm	16-25mm <sup>2</sup>	52p £11.05
T22-8	8mm	16-25mm <sup>2</sup>	69p £14.32
T22-10	10mm	16-25mm <sup>2</sup>	66p £14.02

### Rubber covers

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
AC2R	7.5	15	43	T14-6,8	42p	£3.52
AC3	9	15	60	T14-10	69p	£5.73
RS126	11	15	42	T22	£1.38	£11.45

## Battery clamps & covers

Clamps: tin plated brass or copper.



Item.	Pole.	Ref.	Ea
1. Stud/nut clamp	+	BT461P	£2.65
stud size 8mm	-	BT461N	£2.65
2. PVC cover	Red	BTC50R	£1.03
Stud size 8mm	Black	BTC50U	£1.03



Item.	Pole.	Ref.	mm <sup>2</sup>	Ea
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	£1.04
	Black	BTC20B	£1.04
	Red	BTC30R	£1.04
	Black	BTC30B	£1.04

5. PVC Straight cover	Red	BTC10R	£1.01
	Black	BTC10B	£1.01

6. Nut/bolt for battery clamps	BTNB	55p
--------------------------------	------	-----



# Battery Clamps, Kits & Pre Made Leads

## Quick release connectors

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 (-) **£7.33 each**

## Battery clamps-saddle type

Saddle type main cable connection.

Positive with auxilliary cable provision

Ref: **BT526** **£3.53**

Negative

Ref: **BT527** **£3.53**



## Disconnect battery terminal

Fits on negative battery post. Turn the plastic wheel to quickly isolate the battery.



Ref: **02100**.....**£6.95 ea**

Ref: **02101**. As above but fitted with a bridging fuseholder with 5A glass fuse for clock & alarm feeds etc.. **£8.50 ea**

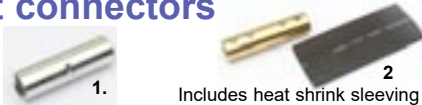
## Copper tube terminal kits



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

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

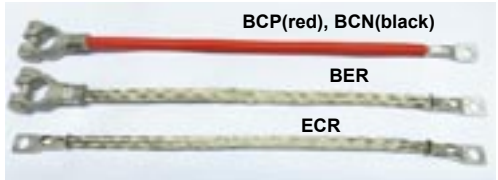
## Butt connectors



Item.	Ref.	mm <sup>2</sup>	Ea
1. Tinned copper. For crimp or soldering.	<b>CTB16</b>	16	<b>70p</b>
	<b>CTB25</b>	25	<b>89p</b>
	<b>CTB50</b>	50	<b>£1.04</b>
	<b>CTB70</b>	70	<b>£2.32</b>
2. Brass body with 4 grub screws	<b>46600</b>	25	<b>£6.60</b>
	<b>46601</b>	40	<b>£7.79</b>

## 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	-	-	<b>£3.36</b>
300mm	<b>£5.67</b>	<b>£7.25</b>	<b>£4.72</b>
450mm	<b>£6.39</b>	<b>£8.79</b>	<b>£6.18</b>
600mm	<b>£7.11</b>	-	-
760mm	<b>£7.87</b>	-	<b>£9.17</b>



**SSP (Red) / SSN (Black)**

With crimped on 8mm ring terminal each end.

Ref	Cable Size	Length	Price.
<b>SSP/N225</b>	16mm <sup>2</sup>	225mm	<b>£1.90</b>
<b>SSP/N375</b>	16mm <sup>2</sup>	375mm	<b>£2.38</b>
<b>SSP/N600</b>	16mm <sup>2</sup>	600mm	<b>£3.23</b>
<b>SSP/N915</b>	16mm <sup>2</sup>	915mm	<b>£4.38</b>

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

## 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 Switches

## Battery isolator switches

Rated at 100A continuous @ 12 volt  
500A for 5 seconds.

Useful when the main battery current  
needs to be cut off.

Removable key.

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

Ref: **BIS8** 8mm terminal studs **£11.92**



**BIS**  
**BIS8**

Ref: **BISC**. Cover for BIS. **£0.99**



**BISC**

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**



**BISALP**

Spare key (fits both switches).

Ref: **KEY** **£1.00**

Spare resistor for BISALP.

Ref: **ALPR** **£4.34**



**KEY**



**ALPR**

## 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**. **£51.86**



**60520**

Blank spare key (Requires cutting)

Ref: **60519** **£7.82**



**60519**

## Battery isolator switch

100Amps @ 12v

Fixed key, 10mm studs.

Fits a 19mm round hole.

Ref: **MBS4**.....**£13.55**



**MBS4**

## Heavy duty battery isolator

Phenolic moulding with steel  
fixing plate and removable key.

250Amps @ 24v,

2500A for 5 secs.

10mm studs. Splashproof cover

IP65. Requires a 24mm hole.

Ref: **60550**...**£26.50**



**60550**

Spare key:-

Ref: **60555**.....**£5.10**



**60555**

## Heavy duty

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

Phenolic moulding with

aluminium fixing plate

and fixed key. 10mm studs

Requires a 30.5mm hole.

Ref: **60560**.....**£55.28**



## Emergency stop heavy duty battery isolator

Heavy duty emergency push button

isolator switch. Twist button to

connect, push to disconnect.

Rated at 250A continuous (24V).

M10 studs, 6mm fixing holes.

Ref: **60545** **£29.90**



## Marine battery isolator switches

### Marine battery isolator switch

Removable control knob in the OFF  
position.

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

1000 amps for 5 seconds.

M10 studs E-Approved.

Dims: 70mm x70mm x 78mm deep.

Ref: **60511** **£27.58**



### Marine double pole battery isolator

Fixed handle.

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

M10 studs.

Switches both poles

simultaneously.

Ref: **60526**...**£119.00**



### Marine battery change over switch

Selects between batteries;

one, two, both or off.

175A at 12v,

300A for 5 seconds.

Dimensions:

160mm dia. 65mm deep.

Connection by 10mm studs.

Ref: **60510** **£47.84**



### Marine battery isolator switch

Removable key. 100A @ 24V,

500A for 5 secs. M10 studs.

Ref: **60513**...**£32.10**

Spare key:-

Ref: **60597**.....**£3.58**



# Solenoids & Power Connectors

## Starter solenoids 12v



Ref:33509 **£25.00**

With rubber covered manual button. Replaces Lucas 76145, 76417, 76425, 7642, 76445,76450, 76460, 76464, 76465, 76470, 76471, 76485, 76486, 76703.

Ref:33502 **£21.68**

Replaces Lucas 76795, 76789, 4ST, SRB335, 8mm studs

Ref:33500 **£13.50**

Replaces Lucas 76766, 76772, 4ST, SRB325 , 8mm studs.

## Anderson connectors



For quick and safe connecting and disconnecting of battery or welding cables. **Note that two of the same connectors are required**, (see inset), one mounted on the car etc, the other to the leads of a portable power supply, battery etc. 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	<b>£6.49</b>
PP50S	Grey connector with 16mm <sup>2</sup> terminals	<b>£6.49</b>
180535	Terminals for 6mm <sup>2</sup> cable.	<b>£2.62 pair</b>
180390	Terminals for 16mm <sup>2</sup> cable.	<b>£2.72 pair</b>
PPHS	Handle. Includes screws & nuts	<b>£4.46</b>
43195	Cover for power contacts when not in use.	<b>£3.43</b>
SB50L	Long dust/moisture PVC protection sleeve	<b>£2.88</b>
SB50S	Short dust/moisture PVC protection sleeve	<b>£2.72</b>

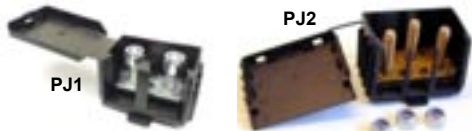
### 175 amp connectors.

Ref.	Description.	Price.
PP175R	Red connector with 50mm <sup>2</sup> terminals	<b>£10.42</b>
PP175S	Grey connector with 50mm <sup>2</sup> terminals	<b>£10.42</b>
180536	Terminals for 35mm <sup>2</sup> cable.	<b>£5.34 pair</b>
PPH1	Handle. Includes screws & nuts	<b>£7.79</b>
PPP1	Cover for power contacts when not in use.	<b>£7.83</b>
SB175	Dust/moisture PVC protection cover	<b>£5.64</b>

### 350 amp connector.

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

## 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 (HxWxD)

Ref: PJ2 **£12.78**

## 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.
JL620	5M	170	25mm <sup>2</sup>	<b>£70.64</b>

## Battery clips, or welding clamps

Black or Red

Ref: BC180FR (Red)  
BC180FB (Black) **£3.59 Ea**

Rating 170 amps. Fully insulated. Takes up to 50mm<sup>2</sup> cable.



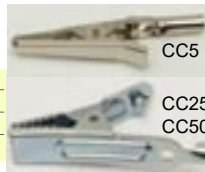
Ref: BC300R (Red)  
BC300B (Black) **£6.05 Ea**

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)
CC5	5	<b>32p</b>	<b>£2.65</b>
CC25	25	<b>93p</b>	<b>£7.72</b>
CC50	50	<b>79p</b>	<b>£7.11</b>



# 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>

Ring.



Hole dia.	Ref.	(10)	(50)
3.2mm	RR32	£1.00	£1.52
4.3mm	RR4	£1.00	£1.75
5.3mm	RR5	£1.00	£1.75
6.4mm	RR6	£1.00	£2.63
8.4mm	RR8	£1.00	£3.00
10.5mm	RR10	£1.00	£3.35

## Blue. 1.5-2.5mm<sup>2</sup>

Ring.



Hole dia.	Ref.	(10)	(50)
3.2mm	BR32	£1.00	£2.25
4.3mm	BR4	£1.00	£2.25
5.3mm	BR5	£1.00	£2.25
6.4mm	BR6	£1.00	£3.00
8.4mm	BR8	£1.00	£3.00
10.5mm	BR10	£1.00	£3.38

## Yellow. 3-6mm<sup>2</sup>

Ring.



Hole dia.	Ref.	(10)	(50)
4.3mm	YR4	£1.10	£4.13
5.3mm	YR5	£1.10	£4.13
6.4mm	YR6	£1.10	£4.13
8.4mm	YR8	£1.60	£6.00
10.5mm	YR10	£1.50	£5.63
13mm	YR13	£2.80	£10.50

Fork.



Int width.	Ref.	(10)	(50)
6.4mm	BK6	£1.00	£3.00

Male blade.\*



Blade.	Ref.	(10)	(50)
2.8mm	RM2	£1.00	£3.00
4.8mm	RM4	£1.00	£2.61
6.3mm	RM6	£1.00	£2.63

Male blade.\*



Blade.	Ref.	(10)	(50)
4.8mm	BM4	£1.00	£2.85
6.3mm	BM6	£1.00	£3.00

Male blade.\*



Blade.	Ref.	(10)	(50)
6.3mm	YM6	£1.30	£4.88

Female blade.\*



Blade.	Ref.	(10)	(50)
2.8mm	RF2	£1.00	£3.64
4.8mm	RF4	£1.00	£3.16
6.3mm	RF6	£1.00	£2.63

Female blade.\*



Blade.	Ref.	(10)	(50)
4.8mm	BF4	£1.00	£2.26
6.3mm	BF6	£1.00	£3.00
8.3mm	BF8	£2.15	£8.07

Female blade.\*



Blade.	Ref.	(10)	(50)
6.3mm	YF6	£1.20	£4.50
9.5mm	YF9	£1.70	£6.38

Piggyback.



Ref.	(10)	(50)
6.3mm RPG	£1.00	£3.75

Piggyback.



Ref.	(10)	(50)
6.3mm BPG	£1.00	£3.75

Piggyback.



Ref.	(10)	(50)
6.3mm YPG	£1.98	£7.44

Fully insulated female blade.\*



Blade.	Ref.	(10)	(50)
4.8mm	RFF4	£1.00	£3.16
6.3mm	RFF6	£1.00	£3.16

Fully insulated female blade.\*



Blade.	Ref.	(10)	(50)
4.8mm	BFF4	£1.00	£3.42
6.3mm	BFF6	£1.00	£3.42

Fully insulated female blade.\*



Blade.	Ref.	(10)	(50)
6.3mm	YFF6	£1.39	£5.22
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>

Bullet.



Dia.	Ref.	(10)	(50)
4mm	RB4	£1.00	£2.63

Socket.



Dia.	Ref.	(10)	(50)
4mm	RS4	£1.14	£4.29

Butt connector.



Standard	Ref.	(10)	(50)
	RB	£1.00	£2.42

Pin.



Dia.	Ref.	(10)	(50)
1.9mm dia	RP	£1.00	£2.76



Blue. 1.5-2.5mm<sup>2</sup>

Bullet.



Dia.	Ref.	(10)	(50)
4mm	BB4	£1.00	£3.18
5mm	BB5	£1.00	£3.00

Socket.



Dia.	Ref.	(10)	(50)
4mm	BS4	£1.00	£3.75
5mm	BS5	£1.00	£3.38

Butt connector.



Standard	Ref.	(10)	(50)
	BB	£1.00	£3.00

Pin.



Dia.	Ref.	(10)	(50)
1.9mm dia	BP	£1.00	£3.10

Closed end connector.  
coloured  
white.



Standard	Ref.	(10)	(50)
	BCE	£1.00	£3.12

Yellow. 3-6mm<sup>2</sup>

Bullet.



Dia.	Ref.	(10)	(50)
5mm	YB5	£1.10	£4.13

Socket.



Dia.	Ref.	(10)	(50)
5mm	YS5	£1.00	£3.75

Butt connector.



Standard	Ref.	(10)	(50)
	YB	£1.42	£5.34

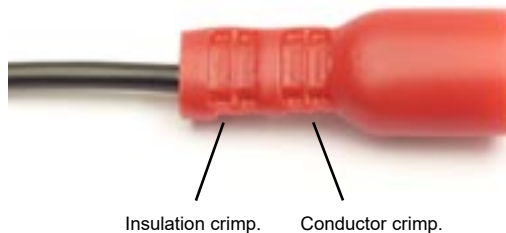
Pin.



Dia.	Ref.	(10)	(50)
1.9mm dia	YP	£1.90	£7.14



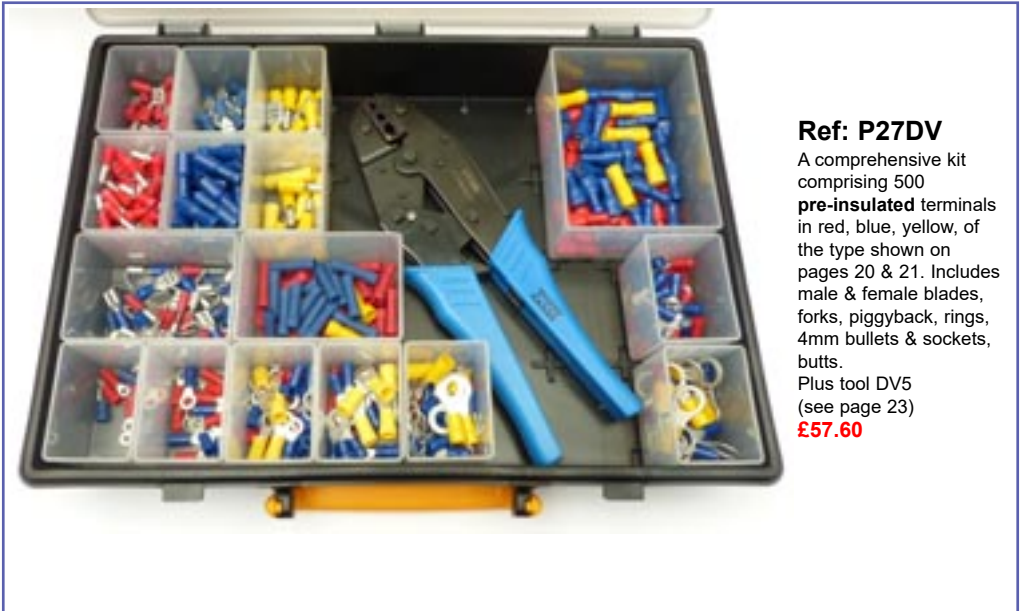
Pre-insulated terminal crimped with a DV5 crimp tool.  
Crimps both the conductor and PVC insulation sleeve together



# Pre Insulated Terminal Kits

The cases used in our kits are made from tough polypropylene to withstand the rough treatment encountered in workshop environments. Full descriptions of the cases can be found on page 94.

The tools used in the kits are described on page 23.



## Ref: P27DV

A comprehensive kit comprising 500 **pre-insulated** terminals in red, blue, yellow, of the type shown on pages 20 & 21. Includes male & female blades, forks, piggyback, rings, 4mm bullets & sockets, butts.

Plus tool DV5 (see page 23)

**£57.60**



## Pre-insulated wiring/terminal kit

## Ref: P27WK

General purpose wiring kit comprising 218 **pre-insulated** terminals in red, blue, yellow, of the type shown on pages 20 & 21. 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 23)

**£45.14**

# Crimp Tools For Pre Insulated Terminals

For crimping pre-insulated terminals shown on pages 20-24.

**AM2. £5.98**



**Ref:AM2** 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

**£5.98**

**DV5. £18.56**



**Ref:DV5** 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

**£18.56**



**Ref: P18**

Contains a selection of 200 **pre-insulated** terminals and insulations of the type on pages 20 & 21. Includes male & female blades, piggybacks, rings, 4mm bullets & sockets.

Note: No tool in this kit.

**£19.82**

# 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.

**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 fully insulated.

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

Half insulated

Bullet.

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

Socket.

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

Ring.

	Ref.	Ea.	(50)	Ref.	Ea.	(50)	Ref.	Ea.	(50)
4mm	RR4H	36p	£14.59	BR4H	44p	£18.19			
5mm	RR5H	39p	£16.05	BR5H	49p	£20.21			
6mm	RR6H	42p	£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	£18.24	YHS	£1.11	£41.49

## Solder sleeve butt splices, with solder in the connection.

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

In-line solder splice.

	Ref.	Ea.	(50)	Ref.	Ea.	(50)	Ref.	Ea.	(50)
	RHSS	68p	£27.61	BHSS	70p	£26.31	YHSS	84p	£34.86

## Heatshrink pre-insulated kits.



Contains 126 assorted Heatshrink pre-insulated terminals. Includes male & female blades, bullets and sockets, rings, in-line splices & solder splices. Contained in a tough plastic partitioned box.

Ref: PHKIT £47.80



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

Ref: K700 £30.24

## Heatshrink terminal crimping tool

Ref: TT320

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>. **£37.90**





# Terminals to fit mouldings & Junction Boxes

The terminals on this page 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: 3-7211



Ref: 3-8050



Ref: 3-7212



Ref.	Cable.	Tab size.	Length.	ea.	100.
3-2050	4mm <sup>2</sup>	4.8mm	20mm	68p	£57.10
3-7211	2.5mm <sup>2</sup>	2.8mm	19mm	33p	£24.84
3-7212	2.5mm <sup>2</sup>	2.8mm	19mm	51p	£38.34
3-8050	1mm <sup>2</sup>	2.8mm	19mm	90p	£67.32

## Male blade.

Ref: 3-5550



Ref: 3-8030



Ref: 3-8010



Ref: 3-8060



Ref.	Cable.	Tab size.	Length.	ea.	100.
3-5550	1.5mm <sup>2</sup>	1.5mm	23mm	£1.81(10)	£13.56
3-8010	1mm <sup>2</sup>	1.5mm	22.5mm	82p	£61.50
3-8030	1mm <sup>2</sup>	2.8mm	26mm	£1.01	£76.05
3-8060	1mm <sup>2</sup>	2.8mm	22.5mm	42p	£31.23

## Terminal extraction set.



Set of 2 tools for removing latched terminals mouldings. Ref: 70399 £28.68

## Round pin male & female

Ref: 00514



Ref: 00510



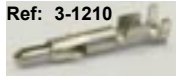
Ref: 3-1200



Ref: 00515



Ref: 3-1210



Ref.	Cable.	Dia.	Type	Length.	ea.	50
00510	2.5mm <sup>2</sup>	3mm	Male	23mm	£1.01	£37.88
00514	2.5mm <sup>2</sup>	3mm	Female	23mm	90p	£33.75
00515	2.5mm <sup>2</sup>	2mm	Female	18mm	£1.16	£43.50
3-1200	2.5mm <sup>2</sup>	2mm	Female	19.5mm	24p	£9.00
3-1210	2.5mm <sup>2</sup>	2mm	Male	20mm	20p	£7.50

## 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. IP56 Material: grey ABS Dims. 150x110x70mm.

Ref: 69715 £8.68



Dims: 100x100x60mm.

Ref: 69710 £7.24

# 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 30: 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



Female blade (FB)



Male blade (MB)

Ref.	Width.	Cable.	(10).	(50)
FB2	2.8mm	1mm <sup>2</sup>	£1.08	£4.04
FB4.8	4.8mm	1mm <sup>2</sup>	£1.00	£3.50
FB6S	6.3mm	0.5-1mm <sup>2</sup>	£1.70	£6.39
FB6	6.3mm	1-3mm <sup>2</sup>	£1.09	£4.54
FB66	6.3mm	3-5.5mm <sup>2</sup>	£1.20	£4.50
FB9	9.5mm	3-5.5mm <sup>2</sup>	£1.54	£5.76
MB2	2.8mm	5-1mm <sup>2</sup>	£1.00	£2.82
MB4	4.8mm	1mm <sup>2</sup>	£1.00	£3.26
MB6	6.3mm	1-2.5mm <sup>2</sup>	£1.51	£5.67
MB66	6.3mm	2.5-6mm <sup>2</sup>	£1.30	£4.88



Female blade (FBL)

with latch, fits into mouldings.



Male blade (MBL)

Ref.	Width.	Cable.	(10).	(50)
FBL2	2.8mm	1mm <sup>2</sup>	£1.00	£2.63
FBL4	4.8mm	1-2.5mm <sup>2</sup>	£2.18	£8.16
FBL6	6.3mm	1-2.5mm <sup>2</sup>	£1.50	£5.63
FBL66	6.3mm	2.5-6mm <sup>2</sup>	£1.90	£7.13
FBL8	7.7mm	1-2.5mm <sup>2</sup>	£3.80	£14.25
FBL9	9.5mm	6-10mm <sup>2</sup>	£6.90	£25.88
MBL2	2.8mm	1mm <sup>2</sup>	£1.00	£2.73
MBL6	6.3mm	1-2.5mm <sup>2</sup>	£1.00	£3.38
MBL66	6.3mm	2.5-6mm <sup>2</sup>	£2.50	£9.38



Flag (F6)

Flag (00513)

Piggyback (PG)

Ref.	Width.	Cable.	£(qty).	£(qty)
F6	6.3mm	1-2mm <sup>2</sup>	£1.97(10)	£7.40(50)
00513	8mm	1-2mm <sup>2</sup>	28p(ea)	£2.32(10)
PG	6.3mm	1-2mm <sup>2</sup>	£2.50(10)	£9.38(50)

## Blade insulations

Insulation for female blade.

Colour is clear.

Material is soft PVC except for FB16H which is hard nylon.



Ref.	Width.	Cable.	(10).	(50)
FB12	2.8mm	1mm <sup>2</sup>	£1.50	£5.63
FB14	4.8mm	1mm <sup>2</sup>	£1.50	£5.63
FB16	6.3mm	1-3mm <sup>2</sup>	£1.00	£3.00
FB166	6.3mm	3-5.5mm <sup>2</sup>	£1.00	£3.38
FB16H	6.3mm	1-3mm <sup>2</sup>	£1.00	£1.75
FB19	9.5mm	3-5.5mm <sup>2</sup>	£1.30	£4.88

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>	£1.50	£5.63

Holder for female blade 6.3mm

(FB6 or FB66). White.



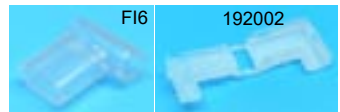
Ref.	Width.	Cable.	(10).	(50)
191007	6.3mm	1-5.5mm <sup>2</sup>	£1.00	£2.32

Flag insulations.

F16 is soft PVC.

192002 is

hinged type.



Ref.	Width.	Cable.	(10).	(50)
F16	6.3mm	1-2mm <sup>2</sup>	£1.40	£5.25
192002	6.3mm	1-2mm <sup>2</sup>	£1.71	£6.42

## Japanese connectors

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



JB



JBI



JS



JSI



JDS



JDSI

Ref.	(10)	(50)
Bullet.		
JB	£1.00	£2.63
Insulation for bullet.		
JBI	£1.00	£1.50

Ref.	(10)	(50)
Socket for bullet.		
JS	£1.00	£2.38
Insulation for socket.		
JSI	£1.00	£1.84

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

# Non Insulated Terminals & Connectors

## Stationary blades



Illus.	Item.	Ref.	Blade.	Ea.	(50)
A	Single	SBA	6.3	15p	£4.13
B	2-blade	SBB	6.3	22p	£8.25
C	2 into 1	SBC	6.3	25p	£9.38
D	3 into 1	SBD	6.3	21p	£8.06
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	£1.00	£2.25
R5	1-3mm <sup>2</sup>	5.3mm	£1.00	£2.32
R6	1-3mm <sup>2</sup>	6.4mm	£1.00	£3.38
R8	1-3mm <sup>2</sup>	8.4mm	£1.00	£3.38
R5L	3-7mm <sup>2</sup>	5.3mm	£1.70	£6.38
R6L	3-7mm <sup>2</sup>	6.4mm	£1.60	£6.00
R8L	3-7mm <sup>2</sup>	8.4mm	£1.19	£4.83
R10L	3-7mm <sup>2</sup>	10.5mm	£2.11	£7.90

Ref.	Cable.	Hole.	Each.	(50)
R6XL	7-10mm <sup>2</sup>	6.4mm	35p	£13.08
R8XL	7-10mm <sup>2</sup>	8.4mm	40p	£14.88
R10XL	7-10mm <sup>2</sup>	10.5mm	34p	£12.75

### Double crimp rings.

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

## Connectors for 6.3mm female blades

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



Ref.	Description.	Ea.	(25)
C3B	3-blade	64p	£13.28
C4B	4-Blade	57p	£11.83

On this connector the insulation covers only the blade part of the female terminal. Best to use with half-insulated female blade on page 20 (refs RF6 or BF6).



Ref.	Description.	Ea.	£(qty)
C12	Strip of 12x2-Blade	£2.70	£22.50(10)

## 4.7mm bullets & snap connectors

Bullet, solder type. Tinned brass

Ref.	Cable	(10).	(50)
BS2	1-2mm <sup>2</sup>	£3.24	£13.50
BS3	2-3mm <sup>2</sup>	£3.24	£13.50



Bullet, crimp or solder type.

For crimping use tool S SCT on page 31.

Ref.	Cable Size	(10).	(50)
CB0	0.5mm <sup>2</sup>	£3.24	£13.49
CB1	1mm <sup>2</sup>	£1.48	£5.46
CB2	2mm <sup>2</sup>	£1.70	£6.38



Snap connectors, for the 4.7mm bullets listed above.



Ref.	Description.	Each	(10).	(50)
SS	Single.	-	£2.00	£7.50
DS	Double(common).	-	£3.00	£11.25
FS	5 way (5x1)	£5.61	£50.45	-

Socket & insulation.

For 4.7mm bullets listed above.

Crimps with any non-insulated crimp tool on page 30.



Ref.	Cable.	Type	(10).	(50)
SB47	1-2mm <sup>2</sup>	Socket	£1.70	£6.38
JSI	1-2mm <sup>2</sup>	Insulation	£1.00	£1.84

## 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>	£2.56



## 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	£1.20	£4.50
C2	2.5mm <sup>2</sup> butt splice	£1.30	£4.88
CTB06	6mm <sup>2</sup> butt splice	£6.54	£26.16
CTB10	10mm <sup>2</sup> butt splice	£8.64	£34.56

# 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 94. The crimp tools used in the kits are described fully on page 30 & 31.



## Ref: N18

Contains a selection of 200 **non-insulated** terminals & insulations of the type on pages 26, 27. Includes male & female blades, flags, insulations piggybacks, rings, 4.7mm bullets & snap connectors, 3.9mm Japanese type bullets, sockets & insulations.

Note: No tool in this kit.

**£25.28**



## Ref: N9M

Contains 150 **non-insulated** terminals & insulations of the type on pages 26, 27. Includes male & female blades, piggybacks, rings, 4.7mm bullets & snap connectors. Plus tool MP71. **£33.92**

## Ref: N9MJ

A 150 piece kit similar kit to the one above, but the 4.7mm. British type bullets & snap connectors are replaced with 3.9mm Japanese type bullets, sockets & insulations. Tool is MP71. **£31.12**



## Ref: N27M1

A comprehensive kit comprising 600 **non-insulated** terminals & insulations of the type shown on pages 26, 27. 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 p30)

**£54.62**



## Ref: JTK

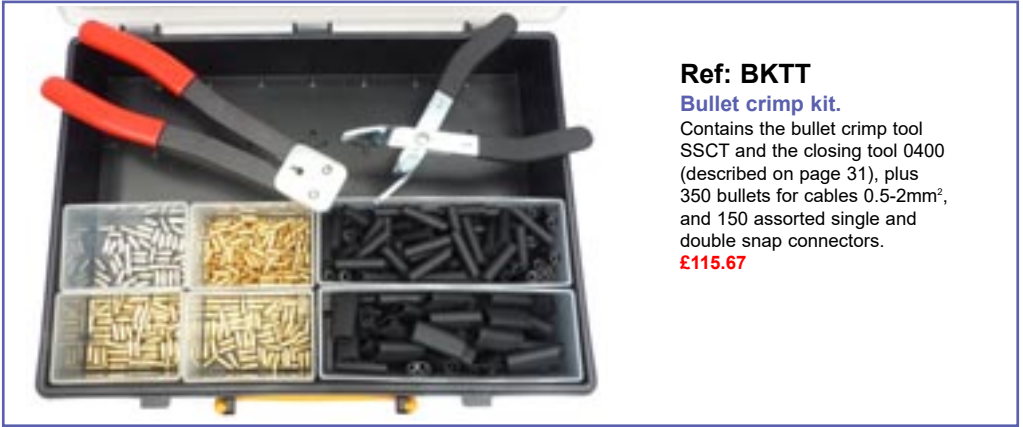
### Japanese terminal kit

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**

# Non Insulated Terminal Kits & Boxes

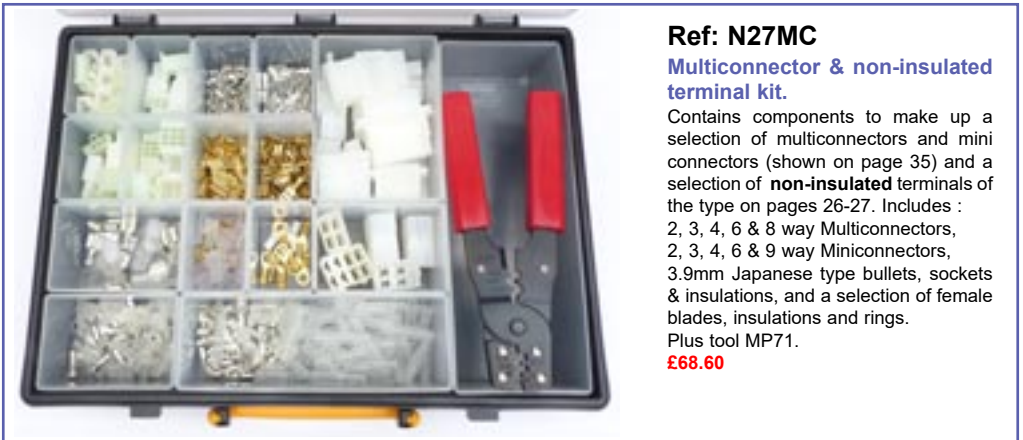


**Ref: BKT**

## Bullet crimp kit.

Contains the bullet crimp tool SSCT and the closing tool 0400 (described on page 31), plus 350 bullets for cables 0.5-2mm<sup>2</sup>, and 150 assorted single and double snap connectors.

**£115.67**



**Ref: N27MC**

## Multiconnector & non-insulated terminal kit.

Contains components to make up a selection of multiconnectors and mini connectors (shown on page 35) and a selection of **non-insulated** terminals of the type on pages 26-27. 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.

**£68.60**

## Boxes with loose compartments

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.

13 varied size compartments

**Ref: CASE13 £10.62**

32 equal size compartments

**Ref: CASE32 £10.62**



Case 13 shown

## Boxes with fixed compartments

**Ref: AB5-9**

9 Varied size compartments.

Dims.: 240x195x42mm.

**£7.54**

**Ref:AB5-18**

18 equal compartments.

Dims: 240x195x42mm.

**£8.28**



AB5-18 shown

# Crimping Tools for non-insulated terminals

For crimping non-insulated terminals shown on pages 25-27.

**Ref:PR4**

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).

£30.58



**PR4** Length 225mm

**Ref: MP71**

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.

£8.95



**MP71** Length 184mm

**Ref:D1**

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


£5.12




**D1** Length 205mm

	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

**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.

**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.

# Crimping Tools & Wire Cutters/Strippers

## 4.7 mm Bullet crimping tool

### Ref: SSCT

For crimping the CB range of plain brass bullets (see page 27 for details).

Gives a secure solderless connection in seconds.

The crimp produces two flats at the narrow crimp section of the bullet.

Length: 205mm.

**£32.18**



## Closing tool

### Ref: 0400

Useful fitting tool for frequent users of 4.7mm bullets and snap connectors (see page 27).

Pushes the bullets fully into the snap connector.

**£30.00**



## Cable stripper tool



Strips the insulation from the cables in all sizes from 0.65-6mm<sup>2</sup> without the need for adjustment. 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**



# Connectors

## Junior-Timer-Housings

Terminals & boots are not included, please order separately.



4145



192150



1900



5962

Ref.	Part.	Each.	£	(qty).
4145	2 pole female housing	£1.68	£14.00	(10)
192150	Boot for 4145 (57mm)	£1.17	£10.53	(10)
1900	Boot for 4145 (37mm)	£1.48	£12.37	(10)
5962	Female terminal	29p	£2.18	(10)

## Terminal blocks

Comprising common banks of plated brass 6.3mm male blades on Phenolic base. 4mm fixing hole. Rating 25A.



00552

2 banks of 4 way.  
Dims: 50x12mm.  
Height 22mm.

Ref: 00552 £4.48 ea, £40.32 (10)



00553

3 banks of 6 way.  
Dims: 50x28mm.  
Height 22mm.

Ref: 00553 £6.60 ea, £59.40 (10)

## Junior-Power-Timer-Housings

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



192147



192148



192171



192172



192175



192177



192178



192179

Ref.	Part.	Each.	£	(qty).
192147	2 pole female housing	£1.34	£12.06	(10)
192148	3 pole female housing	£2.42	£21.78	(10)
192171	4 pole female housing	£3.15	£28.35	(10)
192172	5 pole female housing	£7.50	£62.50	(10)
192175	Female terminal	55p	£4.62	(10)
192177	Cable seal 0.5-1mm <sup>2</sup>	34p	£2.55	(10)
192178	Cable seal 1.5-2.5mm <sup>2</sup>	32p	£2.40	(10)
192179	Blanking plug	51p	£3.83	(10)

## Alternator plug

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

Ref:AP £3.72





# Connectors

## Single pole terminal block.

7 cable screw fix holes.  
Plastic base with mounting lug.  
60x26x23mm (LxWxH)

Ref: 538  
£7.66 ea



## 8 pole terminal blocks.

Polycarbonate moulding  
Each pole has 6 male blades (6.3mm) 25 Amp  
107x36x23mm (LxWxH)

Ref: 191756  
£8.78 ea



Grooved 4mm screw connections. 20 Amp  
107x36x23mm (LxWxH)

Ref: 191771  
£13.92 ea



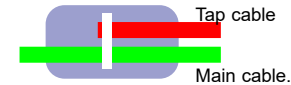
## Plastic connector strip.12 pole. screw terminals.



Ref.	Max cable.	Ea.	£(qty)
CB2.5	2.5mm <sup>2</sup>	53p	£4.40(10)
CB6	6mm <sup>2</sup>	£1.20	£10.00(10)

## Tap connectors

C905, C560



Ref.	Colour.	Cable mm <sup>2</sup> .		Ea.	£(qty)
		Main.	Tap		
C905	Red	0.5-1	.65	15p	£5.25 (50)
C560	Blue	1.5-2.5	.65-2	15p	£3.12 (50)



C952



PRU1211

C952 takes PRU1211 pre-insulated 6.3mm male blade connector.

Ref.	Colour.	Cable mm <sup>2</sup> .		Ea.	£(qty)
		Main.	Tap		
C952	Blue	1.5-2.5		15p	£5.63 (50)
PRU1211	Blue		1.5-2.5	28p	£10.50 (50)

## Helacon plus

### Push in cable connectors.



For quickly and securely connecting multiple cables to a common connection. Accommodates cables from 0.5mm<sup>2</sup> to 2.5mm<sup>2</sup>. 24amps. Clear housings allow connection checking. Strip cable end and push in, double spring secures cable. Housings colour coded. Width 10.5mm Height 19mm.

Ref	Ways	Colour	Length	Each	(10)
HECP2	2	Yellow	11mm	27p	£2.23
HECP3	3	Orange	15mm	30p	£2.50
HECP4	4	Clear	21mm	40p	£3.34
HECP5	5	Blue	24mm	47p	£3.90
HECP6	6	Violet	28mm	56p	£4.68
HECP8	8	Grey	37mm	79p	£6.58

## Helacon connector kit

A selection of Helacon connectors 2 - 8 way as listed above. Supplied in a tough partitioned case with clear hinged lid.

Ref: HECPK  
£20.50



## Tap connector blade fuse holder

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

Ref: C972 47p ea, £19.51(50)



## Tap connector kit

A selection of 120 tap connectors. Kit includes a selection of the tap connectors listed above plus 5 x C972 fuse holders. Supplied in a tough partitioned box with clear hinged lid.

Ref: TCK  
£19.85



# Connectors & Busbars

## Powerpole

### Modular interlocking connectors.



These modular connectors are single way connectors that can be interlocked together to form a multiway unit. 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.**

Standard housings suitable for:

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

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

Ref	Description	Each	(10)
THR	Red Powerpole housing	50p	£4.00
THB	Black Powerpole housing	50p	£4.00
THG	Grey Powerpole housing	50p	£4.00
TC030	30A Powerpole terminal	35p	£3.06
TC045	45A Powerpole terminal	43p	£3.42



Large housings suitable for :

Cables size 6mm<sup>2</sup> with 50Amp terminals

Cables size 10mm<sup>2</sup> with 70Amp terminals

Ref	Description	Each	(10)
TH60B	Black housing	£3.84	£28.80
TH60R	Red housing	£3.84	£28.80
TC060S	50A Powerpole terminal	£1.96	£14.70
TC060M	70A Powerpole terminal	£1.92	£14.40

## Power distribution posts



Single power distribution post, Rated @ 150 amps. Stud size 8mm with 2 x4mm 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)**

## Busbars & Covers

Dimensions: HxWxD mm



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



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



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**

## 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)

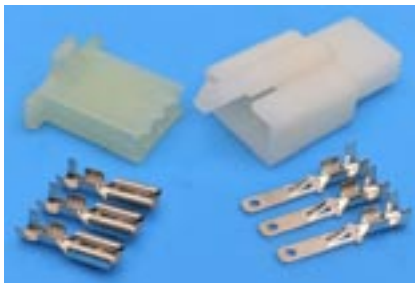


Ref: **772R (Red), 772B (Black) £33.47 each**

# Multi-Connectors

Terminals can be either crimped or soldered onto the cable.  
To crimp use one of the tools on page 30. (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.	Ten.
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>		(10)	(50)
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:** (8-way) 45x38x19mm.

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	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>		(10)	(50)
Male	MBL6	£1.00	£3.38
Female	FBL6	£1.50	£5.63

## Multi-connector kit

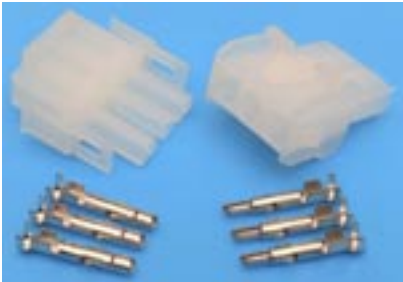
Containing components to make up to 37 assorted connectors as above, 1,2,3,4,6,8 & 11 way. Includes spare terminals. All contained in a tough plastic partitioned case.

(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>		<b>(10)</b>	<b>(50)</b>
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**



## Terminal extraction set



Set of 2 tools for removing latched terminals from mouldings.

**Ref: 70399 £28.68**

## Multi-connector & non-insulated terminal kit

Contains components to make up a selection of multiconnectors and mini connectors (shown on page 35) and a selection of **non-insulated** terminals of the type on pages 26, 27. 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.

**Ref: N27MC £68.60**



# Weatherproof Multi-Connectors

## 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.	Ten.
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>		<b>(10)</b>	<b>(100)</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 each	£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)	(100)
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>		<b>(Each)</b>	<b>(10)</b>	<b>(100)</b>
Male	3-4500	£0.42	£31.50	
Female	3-4510	£0.47	£35.25	
Spare seal	3-07510	£0.39	£2.93	

## 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)

Containing components to make up to 28 assorted connectors, 1,2,3,4,5 & 6 way (SWP1-6). Includes spare terminals, blanking plugs and TT77 crimping tool (as shown below).

All contained in a tough plastic partitioned case.

Ref:SWPK7 £117.00



## Superseal crimping tool



Ref:TT77

Ratchet crimping tool for weatherproof connector  
Spring handle return with ratchet release.

Produces an excellent crimp.

Length 225mm

£44.94

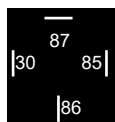
# Relays

## Relays 12v unless stated.

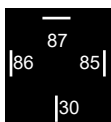


Relays with 4 or 5 blade connections. They allow a heavy amp current to be controlled by a light current switch at the fascia. Also reduces voltage drop due to long cables & connections. There are two types of terminal layout. We state the type against each relay as it is important if replacing a relay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

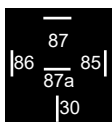
### Pin layout.



Type A(4 blade)

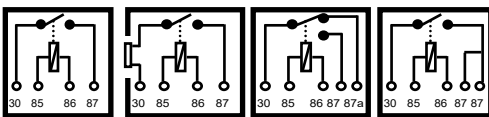


Type B(4 blade)



Type B(5 blade)

### Relay diagrams.



(1) 4-blade.

(2) 4-blade fused.

(3) 5-blade change over.

(4) 5-blade twin make & break.

- (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 aerials.
- (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	£6.04	£54.36
1	R40B	40	B	Loose	£2.05	£18.43
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	£6.98	£62.82

### 24 volt relay. 4 blade.

Dia.	Ref.	Amp.	Type.	Brkt.	Ea.	(10)
1	72774	20	A	yes	£7.08	£63.72
1	72724	20	B	yes	£7.08	£63.72

### 24 volt relay. 5 blade.

3	4251080	20	B	yes	£3.52	£31.68
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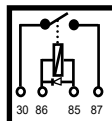
### 6 Volt Relay. 4 Blade

1	160652	20	B	Loose	£5.00	£47.00
2	72606	30-fused	B	Loose	£11.46	£103.14

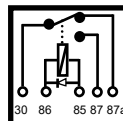
## Relays with diode

### Relay diagrams.

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



(6) 4-blade with diode.



(7) 5-blade c/o with diode.

### Relays with diode.

Dia.	Ref.	Blade.	Amp.	Type.	Ea.	(10)
6	72714	4	30	B	£6.14	£55.26
7	72814	5	30/40	B	£6.40	£57.60

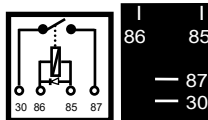
## Micro relays.

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.

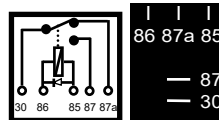
MR25 dims: 23x15x26mm (excl pins).



### Relay and pin layout diagrams.



(1) 4-blade.



(2) 5-blade change over.

### 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	£5.83	£52.45
1	R100R	100	n/a	Yes	£23.06	£207.54
1	R200R	200	n/a	Yes	£18.83	£169.47

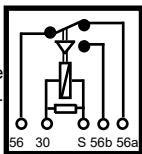
### 24 volt 4 blade high current relay.

Dia.	Ref.	Amp.	Type.	Brkt.	Ea.	(10)
1	72706	60	n/a	Yes	£24.40	£219.60
1	R100R24	100	n/a	Yes	£24.40	£219.60

# 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**



## Lucas 6RA relay

Genuine Lucas relay. 12V, 20A 5 x 6.3mm terminals & mounting bracket. This is the improved version with the epoxy sealed base preventing ingress of moisture, which was the main cause of failure on the original unit.



C2-SUPPLY+  
C1-C1-IGND  
W1-EARTH  
W2-SWITCHED SUPPLY

**Ref: SRB111 £18.32**

## Split charge relays

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



## 12v or 24v 140A

Voltage sensitive relay for charging auxiliary battery. Fits negative earth vehicles. Dimensions (mm) 68 x 68 x 52. Two x 6mm stud connections.



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 p43) 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 £17.12 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)**

## 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: RS19 £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**

## Micro relay box

Similar to RB4U 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)**

# Flashers & Relays

## Flasher units 12v



### Electro-mechanical flasher relays.

Ref.	Indicators.	Hazards.	Towing.	Ea.
RFL1	2x21w(+5w)	NO	NO	<b>£2.63</b>
RFL2H	NO	4x21w	NO	<b>£3.78</b>

### Electronic flasher relays.

Ref.	Indicators.	Hazards.	Towing.	Ea.
RFL3	2x21w(+5w)	4x21w(+5w)	NO	<b>£6.93</b>
RFL5	2x21w(+5w)	4x21w(+5w)	NO	<b>£7.60</b>
RFL6	2x21w(+5w)	4x21w(+5w)	3-6x21w(+5w)	<b>£13.80</b>
RFL7	2x21w(+5w)	4x21w(+5w)	3-6x21w(+5w)	<b>£16.59</b>
RFL9	2x21w(+5w)	4x21w(+5w)	NO	<b>£9.48</b>

### Lucas 12V 2pin flasher relay(Positive & Negative earth systems)

Ref.	Indicators.	Hazards.	Towing.	Ea.
SFB115	2x21w(+5w)	4x21w(+5w)	NO	<b>£7.00</b>
W10061	Housing for SFB115 flasher relay			<b>£5.60</b>

### 24 volt Electronic flasher relay

Ref.	Indicators.	Hazards.	Towing.	Ea.
RFL3/24	2x21w(+5w)	4x21w(+5w)	NO	<b>£17.58</b>

### 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	

## Motorcycle flasher units



Indicator relay with rubber holder.

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

All 2 pin flasher units are suitable for Positive & Negative earth systems.

(On WRE05 & 6 the 3rd. pin is for warning lamp)

## 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 **£11.16**

## Timing & warning relays & buzzer 12v



### 1. Lights on relay buzzer.

Buzzes if the door is opened with the lights on.

Ref:GLR3. **£13.12**

### 2. Cab buzzer.

Small compact unit, 34x38mm dia. Can be used for an audible warning. operates without arcing.

12v Ref:5807 **£5.63** 24v Ref: 05024 **£5.98**

### 3. Interior light timer.

Leaves the interior light on for 10 seconds after the door has closed.

Ref:GLR1. **£18.66**

### 4. Windscreen wiper intermittent timer.

Switches on every 5 seconds.

Ref:GLR8. **£21.32**

### 5. Heated rear window timer.

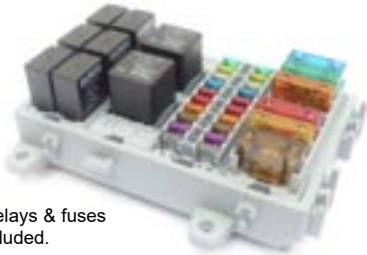
Switches the rear window heater off after 10 minutes.

Rated at 20A Ref:GLR10. **£22.72**

Note: GLR1,3,8,10 are for negative earth vehicles only. These also include a wiring diagram.



# Modular Fuse & Relay Housing System

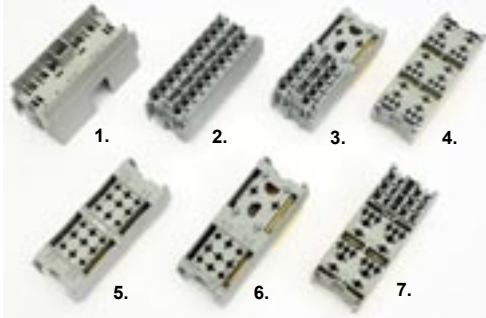


Note: relays & fuses not included.

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)**

## 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**

Mini-blade fuses can either be fed individually or adjacent fuses linked by a busbar.

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**  
7. Accepts 4 micro relays & 6 mini blade fuses **Ref: 1560X £7.95**

Standard relays use 4 or 5 x F630 terminals.  
Micro relays require 2 x F630 terminals and 2 or 3 x F280 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**

## Module mounting brackets & covers


Accepts any module. Mounts flush to the bulkhead and is wired through a cutout in the bulkhead.

	<b>1590X</b>	Single bracket (pair)	<b>£6.44</b>
	<b>1590X</b>	Single module cover	<b>£13.82</b>
	<b>0699X</b>	Double bracket (pair)	<b>£8.60</b>
	<b>1550X</b>	Double module cover	<b>£7.62</b>

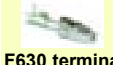

## Terminals for maxi-blade fuses

Order 1 per fuse.	Ref	Cable.	Ea.	10
	3-7650	1.5-2.5mm <sup>2</sup>	<b>66p</b>	<b>£4.96</b>
	3-7660	4-6mm <sup>2</sup>	<b>80p</b>	<b>£5.99</b>
	3-7670	8-16mm <sup>2</sup>	<b>68p</b>	<b>£5.48</b>
	3-7671	16mm <sup>2</sup>	<b>£1.31</b>	<b>£10.90</b>

## Terminals for mini-blade fuses


Order 2 per fuse unless using busbar.	Ref	Cable.	Ea.	100
	3-8331	1-2mm <sup>2</sup>	<b>22p</b>	<b>£18.26</b>
	3-8332	2.5-4mm <sup>2</sup>	<b>25p</b>	<b>£20.75</b>
	Busbar terminals, strip of 10			
	3-8335	1-2mm <sup>2</sup>	<b>£2.80</b>	

## Terminals for micro and standard relays

F280 terminal	Ref	Cable.	Ea.	100
	3-7212	1.0-2.5mm <sup>2</sup>	<b>51p</b>	<b>£38.34</b>
F630 terminal	Ref	Cable.	Ea.	100
	3-2050	2.5-4mm <sup>2</sup>	<b>68p</b>	<b>£57.10</b>

## Terminals for power circuit on Maxi-relays

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

Ref	Cable.	Ea.	50	
	3-07740	2.5-5mm <sup>2</sup>	<b>82p</b>	<b>£34.03</b>
	3-07741	6-8mm <sup>2</sup>	<b>70p</b>	<b>£26.56</b>

# Fuse Holders *Fuses not included.*

## Standard blade fuse holders

**Ref:220.** Interlocking fuse holder.  
6.3mm male blade contacts.  
**93p ea, £7.72(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:FHA14.**  
Plain in-line blade fuse holder.  
6.3mm male blade contacts.  
**57p ea, £47.31(100)**

**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)**

**FHA40 & FHA60**  
6.3mm male blade contacts underneath.  
Clip on transparent lid.  
Dims: W:26mm, H:58mm



Ref	Ways	Length	Ea	(10)
FHA40	4	65mm	£1.75	£15.75
FHA60	6	85mm	£2.59	£23.31

## 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. **Ref:FH500P. 58p ea, £5.29(10)**

## Surface mount fuse boxes

Side entry 6.3mm male blade  
connectors.  
Screw-on transparent cover.  
(except 2 way).  
2, 4 & 6 way have a single  
cover,  
8, 10 & 12 way have a two-  
piece cover.  
Dims:W:52mm, H:52mm (including cover nut)



Ref	Ways	Length	Ea	(10)
LFB02	2	50mm	£2.50	£23.00
LFB04	4	87mm	£4.76	£42.84
LFB06	6	117mm	£6.00	£54.00
LFB08	8	152mm	£7.70	£69.30
LFB10	10	182mm	£9.62	£86.58
LFB12	12	212mm	£11.55	£103.95

Side entry male 6.3mm blade  
connectors.  
Surface mounting.  
Rubber 'O' ring seal in lid  
Dims: W:29mm, H:36mm



Ref	Ways	Length	Ea	(10)
FBB4T	4	80mm	£3.58	£32.22
FBB6T	6	100mm	£4.62	£41.58
FBB8T	8	120mm	£6.12	£55.08

**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)**



## 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 (LxWxH) 125 x 90 x 30mm  
Ratings 32 VDC max, 25A max per  
circuit and 6.3mm blade  
connections to rear.



**Ref: FHAWP10 £22.96**

# Fuse Holders *Fuses not included.*

## Standard blade fuse holders

### 16-way fuse box

**FBB16U**  
**£16.92**



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

These 16-way fuse boxes can be interlocked with each other or with relay boxes (RB4U & RELH705 on page 39), to form an integral unit of any size. Terminals are crimped to the cable and then pushed into position underneath. Cables can enter from under a side or directly below through a hole in the bulkhead. The transparent cover has an 'O' ring seal. Terminals included for 1-2.5mm<sup>2</sup>.

Spare terminals:-

For 1-2.5mm<sup>2</sup> cable. **Ref:3-7900 £2.70(10) £10.13(50)**  
For 2.5-6mm<sup>2</sup> cable. **Ref:3-7901 £2.91(10) £10.92(50)**

### 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 negative (5mm stud) provides 12 x 4mm screw connections for negative connections. Fuses not included. Dims (LxWxH) 164 x 84 x 57mm Ratings:- 30A per fuse 100A per bank.

**Ref: 5026B £28.00**



### 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 (LxWxH) 123 x 94x 57 mm  
**Ref: 5025A £31.24**



### LED Fuse boxes

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.

4 way Ref: **FHAL104 £10.36**

6 way Ref: **FHAL106 £14.52**

10 way Ref: **FHAL110 £19.22**



## 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 holders

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

Takes 1 x Mega fuse and 4 x midi fuses. Busbar link. Left or right cable entry. With cover.

**Ref: MFB1 £25.00**



Fuses not included

# Fuse Holders and Fuse Kits

## Glass cartridge fuse holders

Fuses not supplied

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. **£6.49 ea.**



Panel mounted. Takes 30-32mm glass fuse held within removable cap. Fits 14.5mm panel hole. Overall length 58mm.

Ref:59150 **£4.25 ea.**



4 way glass fuse holder  
Takes 30mm glass fuses as listed on page 45.

Note: terminals 1 & 3 are linked, see image below. Surface mounting.

Ref: 23707 **£21.57 ea.**



## Continental fuse holders

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

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)
CL1350	2-way	<b>£4.25</b>	<b>£38.25</b>
CL1351	4-way	<b>£5.97</b>	<b>£53.77</b>
CL1352	6-way	<b>£9.56</b>	<b>£86.04</b>
CL1353	8-way	<b>£11.38</b>	<b>£102.42</b>
23412	12-way	<b>£17.32</b>	<b>£155.88</b>

## 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**

## Glass,continental,domestic,fuse kit



200 assorted fuses. 30mm glass 5,15,25,35A, 25mm glass 10A, continental 8,16,25A, domestic 13A. All in a see through partitioned case. Ref: 5005210 **£21.32**

## 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

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

## Fuse pullers

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



For extracting & testing of blade fuses. Green light glows if fuse is ok.  
Ref: RFL **£8.40 ea.**



# 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.

75p ea, £6.23 (10 in one size)



Ref.	Continuous.	Fusing.	Colour.
FBG3	3 amps	6 amps	Violet
FBG4	4 amps	8 amps	Pink
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

## 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)

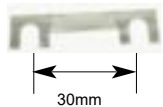


Ref.	Continuous.	Fusing.	Colour.
FC5	5 amps	10 amps	Yellow
FC8	8 amps	16 amps	White
FC16	16 amps	32 amps	Red
FC25	25 amps	50 amps	Blue

## Strip fuse

41p ea, £3.08 (10 in one size)

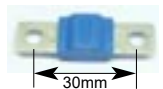
Ref.	Continuous.	Fusing.
FS30	30 amps	60 amps
FS40	40 amps	80 amps
FS50	50 amps	100 amps
FS80	80 amps	160 amps



## Midi fuse

£2.48 ea, £22.32 (10 in one size)

Ref.	Continuous.
MIDI 30	30 amps
MIDI 40	40 amps
MIDI 50	50 amps
MIDI 60	60 amps

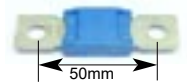


Ref.	Continuous.
MIDI 70	70 amps
MIDI 80	80 amps
MIDI 100	100 amps

## Mega fuse

£3.46 ea, £31.18 (10 in one size)

Ref.	Continuous.
MEGA100	100 amps
MEGA125	125 amps
MEGA150	150 amps
MEGA175	175 amps



Ref.	Continuous.
MEGA200	200 amps
MEGA225	225 amps
MEGA250	250 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. £6.23 each

Ref.	Trips at.
SCB05	5A
SCB10	10A
SCB15	15A



Ref.	Trips at.
SCB20	20A
SCB25	25A
SCB30	30A

# Lever Switches

**Notes:** 'MOM' in a switch specification means momentary, ie only on whilst pressed, suitable uses are headlamp 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 switches with screw connections

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

Ref	Description	Ea.
E891	Off/on	£2.72
E892	On/on	£2.68
E893	On/off/on	£2.72



## Heavy duty metal lever switches with 6.3mm spade connections

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

Ref	Description	Ea.
E895	Off/on	£2.68
E898	On/on	£2.68
E899	On/off/on	£2.68



## Double pole metal lever switches

Fits 12mm dia hole with 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.

£4.00 ea

Ref: E894 Red  
Ref: GE35LG Green  
Ref: GE35LB Blue  
Ref: GE35LA Amber



## Metal lever switch

Fits 13mm dia hole. Single pole. 20A.@12v. Rubber cover screw fits & includes washer.

Note; order cover separately



Ref.	Detail.	Ea.
60300	Off/On.	£7.16
68701	Off/Mom.	£10.44
49600	Mom/Off/Mom.	£7.08
64500	Lights, Off/side/head.	£7.36

## Lucas type Toggle switches

Heavy duty with metal body and plastic toggle lever. Fits 14mm hole.

Switch body dims:  
37x27x31mm deep.  
10A@12V, 5A@24V.  
Off/Sidelights/Headlights  
Ref: SW42 £11.90



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)	£7.86
68711	Off/mom	£12.30
65811	Changeover or On/On	£14.62

## 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.

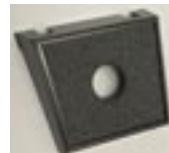
Ref: 60306 £1.12



## Mounting bracket

For switches or warning lights. 12.5mm holes. Plastic.

Ref: EP1 50p



# 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



## Splashproof metal lever switch

Fitted with rubber gaiter.

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



Ref.	Detail.	Ea.
<b>60350</b>	Off/On.	<b>£9.74</b>
<b>49650</b>	Mom/Off/Mom.	<b>£11.50</b>

## Plastic lever switch

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

Ref	Description	Ea.
<b>FSL90</b>	Off/on	<b>84p</b>
<b>180088</b>	Off/Mom	<b>£1.03</b>



## On/off switch

On/off switch with aluminium lever.

Fits 12.5mm dia hole. Screw terminals. 6A@12V.

Ref: **215400** £6.92



## Toggle switch Off/On/Mom

Toggle switch with plastic lever and metal/plastic body. Ideal for wipers, washers or ignition/start applications.

Fits 12.5mm hole. Rated 25A@12V

Ref: **E878** £3.95



## Lever switch

Plastic lever, metal shaft. Screw fix terminals. 20A rated.

Fits 13mm hole.

Ref: **SW9**. Off/On.....**£5.96**

Ref: **SW10**. On/Off/On...**£6.36**



## 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

Ref: **E889Y** Yellow



## Indicator switches On/Off/On

With aluminium lever. Fits 12.5mm dia hole.

Screw terminals.

6A@12V.

Ref: **324500** £5.24



## 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** £16.82



## Indicator stalk switch



61200

180039

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

# Starter Panels & Rocker Switches

## Chromed starter panels



SW601

### 2 switch panel

Comprises on/off toggle switch with flip up aircraft cover, 12V ignition light and push button starter switch with rubber button cover.

Panel dims: 90x65mm.

Ref: SW601 **£12.76**



SW602

### 3 switch panel

Comprises: Two on/off toggle switches, one with flip up aircraft cover. Two 12V lights, one red and one green. A push button starter switch with rubber button cover.

Panel dims: 135x65mm.

Ref: SW602 **£21.42**

## Door switches



Cut plunger to length required

Ref: D465.  
Metal body,  
**£1.51**



Ref: DS004.  
Plastic body,  
**94p**

## Floor mounted dip switch

Click on, click off.

6.3mm blade connections

Ref: LMA727 **£9.56**



## 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

**£1.80 ea**

Amber **E471**,

Green **E473**,

Red **E474**.



## 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)	<b>£1.80</b>
2	E721	Off/on illuminating amber	<b>£2.63</b>
2	E724	Off/on illuminating red	<b>£2.63</b>
2	E723	Off/on illuminating green	<b>£2.63</b>
2	E722	Off/on illuminating blue	<b>£2.63</b>
3	E731	Off/on with amber LED	<b>£2.55</b>
3	E732	Off/on with blue LED	<b>£2.55</b>
3	E733	Off/on with green LED	<b>£2.55</b>
3	E734	Off/on with red LED	<b>£2.55</b>
4	734R	Rear fog with LED	<b>£5.06</b>
5	731F	On/Off fan amber LED	<b>£5.06</b>
5	735F	2 speed fan amber LED	<b>£5.06</b>
6	53101	Off/on (10 amp)	<b>£1.92</b>

## Surface mounted On/Off switch

Push on, push off single pole switch for surface mounting with green (on) & red (off) LEDs.

Self adhesive pad for quick fixing.

Supplied with 900mm leads.

Rated at 1a@12V

Ref: 48591 **£8.26**





# Switches

## Push-on, push-off switch Metal button

Push for on, push for off.  
Fits 13mm hole. 10amps @12V DC.  
Ref:48590 Off/On **£20.18**



## Pull switch for lights

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



## Pull switch

Pull on, push off.  
Fits 10.5 mm hole.  
10Amps.  
Screw connections.  
Off/On



Ref: E118ST **£1.75**

## Illuminated pull switches

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**

## Push-on, push-off, with LED

Push-on, push-off switch with  
12/24V LED illumination.  
Snap fits into 20mm dia hole.  
4.8mm blade terminals.  
10A@12V.  
**£4.70 ea**



Ref: **69055** Red

Ref: **69054** Green

Ref: **69060** Amber

As above but non illuminating  
As 69051 but momentary on

Ref: **69051** **£3.82**

Ref: **69050** **£3.66**

## 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

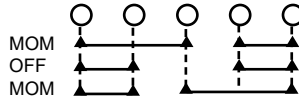
Hazard warning rocker switch.  
Bezel 21x40mm.  
4.8mm blade connections.  
Ref: **0635** **£8.40**



## 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** **£4.80**



## Splashproof rocker switch

Black plastic switch with clear soft  
plastic splash-proof cover.  
Switch fits into 19x13mm aperture.  
10A@12vdc. Use 4.8mm blades.  
Ref:53051. Off/On **£3.26**



## 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 **£12.44**



Metric thread M10 x 1.0mm

Ref:LMA488M **£12.44**

# Switches

## Momentary push button switches

**Only on whilst pressed.**

Fits 12.5mm dia hole. 10A@12vdc



Ref.	Detail.	Ea.
<b>24DB</b>	Off/Mom. Black button.	<b>£5.92</b>
<b>24DR</b>	Off/Mom. Red button.	<b>£7.06</b>
<b>29F</b>	Chrome bezel nut.	<b>£4.50</b>
<b>PHD</b>	Waterproof hood, with nut & sealing washer.	<b>£3.62</b>

**Ref:T721.**

Metal body, chromed bezel, screw connections.

Fits 22mm hole.

Use as starter button.

8 Amp rated

**£8.10**



**Ref: 63230.**

Red button, aluminium bezel.

Fits 22mm dia hole. 6.3mm blade connections.

8 Amp rated

**£8.00**



**Ref: GE338**

Red illumination, chromed plastic bezel.

Fits 20mm.hole.

Screw terminals.

50A @12V.

**£10.40**



**Ref:T720.**

Plastic body and bezel, blade connections.

Fits 22mm hole. Includes optional weatherproof rubber hood.

8 Amp rated

**£6.84**



**Ref:PBS002.**

Plastic body and bezel, screw connections.

Fits 25mm hole. 16 Amp rated

**£1.93**



**Ref: GE34** 30 amp push button starter switch with rubber button cover.

On whilst pressed. Screw connections. 27mm dia bezel, fits 16mm hole. **£5.04**



**Ref:48503**

Stainless steel pushbutton.

22mm dia bezel, 19mm dia fixing hole. Screw connections. 20 Amp rated **£4.54**



## Splashproof push switch

12A@12vdc.

Switch fits into 22mm dia hole. Only on whilst pressed.

Two moulded rubber boots.

Screw terminals.

**Ref:48550. £14.00**



## Horn push switch

Surface mounting horn push switch.

Genuine Lucas SPB160

38mm diameter.

Screw connections.

**Ref: 48575 £10.92**



## Rotary lights/horn switch



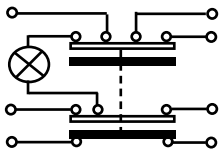
Large rotary light switch with off/side/dip & main beam positions horn push.

Ideally suited to plant & agricultural operations. Switch rating 20A lights/4A horn @ 12V. Fits 14mm panel hole. Suitable for 24 volt

**Ref: 64570 £9.40**

# Switches

## 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



## Rotary switches

German made 15 amp rotary switches. moulded in black plastic. Splashproof. Positions marked on the face of knob. Fits 12mm dia hole.



Ref.	Detail.	Ea.
65602	Off/On.	£10.72
65603	Off/On/On.	£10.90
65604	Off/Side/Head (29amp)	£17.20
65600	Off/on. Illuminating. Supplied with red, green & amber lenses, fit the one required.	£14.74

## Rotary wiper switch

Rotary wiper switch for 2 speed motors with self park function. 6.3mm blade terminals. Fits a 11mm hole.

Rated 10A @ 12V

Ref: 64650 £21.40



## Rotary switches

Fits 26.5mm hole.

Screw connections at rear..

1. 3-position on/off/on

Green illumination when on.

Suitable for bulb indicators only-not LED

Ref:48400. £24.00



2. 3-position. on/off/on switch. Suit indicators

Ref:48300. £13.48



2. 4-position light switch off,side,dip,main.

Ref:64560 £21.40

## 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 £26.00

As 35101 but 4-position

(0-1-1+2-start), fits 22mm hole.

Ref:35105 £36.64



Replacement key for 35101 & 35105 ref:35109.....£6.70

## Diesel start switches



### Diesel start switch 4 position.

Off, Ignition, Pre-heat, Start. Includes 2 simple keys. 16mm fixing hole

Ref:35106.....£13.64

5 position. Off, Accessory, Ignition,Pre-heat,Start.

Includes 2 simple keys. 19mm fixing hole

Ref:35108.....£14.92

Spare key for 35106 and 35108

Ref:35110 £3.10

# Warning Lights

Fits 12.5mm hole, with 6.3mm blade terminals.  
All available in: **Red, Green, Blue, Amber.**

**1. CWL12.** with chromed bezel. Non-replacement bulb. 12 volt only.



1  
**70p ea**

**2. WL609.** Has a brushed steel metal rim & uses a replaceable BA7 bulb. Fitted with a 12 volt 2w bulb (Ref 281).



2  
**£3.62 ea**

For 6 Volt use bulb (Ref 282)  
For 24 volt use bulb (Ref 283)

## Warning lights with symbol



Chrome bezel. Non replacement bulb.  
Fits 12.7mm dia hole. 12 Volt. **£3.10 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

## Symbol sheet



A self adhesive transparent plastic sheet printed with switch and function identification symbols and words.  
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.  
**£1.62 each**  
Ref:SYM White print  
Ref:SYMB Black print

## LED warning lights



Illus.	Ref.	Colour.	Fit hole.	Volt.	Ea.
1	LED607R	Red.	8.2mm	12v	<b>£4.52</b>
1	LED607G	Green.	8.2mm	12v	<b>£4.52</b>
1	LED607A	Amber.	8.2mm	12v	<b>£4.52</b>
1	LED607RF	Red flashing.	8.2mm	12v	<b>£5.72</b>
2	LED607U	Blue.	8.2mm	12v	<b>£4.04</b>
3	LEDGWLR	Red.	13mm	12v	<b>£9.70</b>
3	LEDGWLG	Green.	13mm	12v	<b>£9.70</b>
3	LEDGWLA	Amber.	13mm	12v	<b>£9.70</b>
4	60735	Red.	20mm	12/24v	<b>£4.08</b>
4	60734	Green.	20mm	12/24v	<b>£4.08</b>
4	60740	Amber	20mm	12/24v	<b>£4.08</b>
4	60732	Blue.	20mm	12/24v	<b>£4.08</b>

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

Aluminium bezel 22mm dia  
Fits 17mm dia hole. Screw terminals  
Fitted with a BA9s 12 Volt 2w bulb.



Blue Ref:739000, Amber Ref:739200,  
Green Ref:739400, Red Ref:739600,  
**£4.52 ea.**

Black bezel 24mm dia.  
Fits 17mm dia hole. Screw terminals  
Fitted with a BA9s 12V 2W bulb  
Blue Ref:GE39B Amber Ref:GE39A  
Green Ref:GE39G Red Ref:GE39R  
**£1.93 ea.**



## Large warning lights with symbols



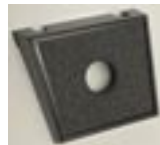
Black bezel 24mm dia.  
Fit 17mm hole. **£7.56**  
Takes BA9s 2w bulb,  
not included.(See below)

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

Replacement bulbs for all large warning lamps.  
12V 2W ref 288 **54p**  
24V 2W ref 289 **70p**  
6V 2W ref 287 **62p**

## Mounting bracket

For switches or warning lights.  
12.5mm hole. Plastic  
Ref: EP1 **50p**



# Interior Lighting & Worklamps

## 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 £13.94**

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

3. Round LED lamp with dual output. 12 Volt. Integral switch has 3 positions: Off/56 bright white LED's/4 dimmed blue LED's.  
Dims: 155mm dia x25mm.  
**Ref: INT26 £34.46**

4. Rectangular slimline LED interior light. 12 Volt, 3.2W, 60 White LED's, Dims 100x220x12mm  
**Ref: RC5011B £31.72**

5. Surface mounted. 10-30 Volt, 36 white LEDs, clear lens and on/off switch. Aluminium body.  
Dims: 160x40x21mm.  
**Ref: INT10 £27.18**

6. Surface mounted. 12-30 Volt, 84 white LEDs, clear lens and on/off switch. Aluminium body.  
Dims: 260x40x21mm.  
**Ref: INT11 £42.54**

7. Slimline LED interior strip light 12/24V Integrated on/off switch. ECE R10 Approved. 9 LED. Dimensions 245x16x25mm (LxHxW) 180 Lumens  
**Ref: INT31 £27.50**

8. Slimline LED interior strip light 12/24V Integrated on/off switch. ECE R10 Approved. 18 LED. Dimensions 400x16x25mm (LxHxW) 360 Lumens  
**Ref: INT30 £37.96**

## 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  
975 lumens (Approx 65 Watt incandescent bulb)  
(LxWxD) 135x108x40  
**1. Ref 42044 £16.50**

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

# Lighting

## Lamp mounting sets

**Ref:5400.** (illus). 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.



**£17.54 ea**

**Ref:5538.** As above but for mounting 5 3/4" headlamps..... **£26.16 ea**

**Ref:5669.** 7" Open shell.

This is a lamp mounting set only, not a shell. Suitable where easy access to bulbs is required, and protection from road spray not needed..... **£19.14 ea**  
Use outer rim ref:5435 for shells 5400 & 5669.

## 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 £57.28(pair), £28.64(ea)**  
With pilot. **Ref:4698 £66.38(pair), £33.19(ea)**

Also available in right hand dip (Europe):

Without pilot **Ref:4695 £66.20 (pair) £33.10(ea)**  
With pilot **Ref:4699 £76.56 (pair) £38.28(ea)**

## Complete Wipac headlamp unit

Standard UK headlamp unit, 7" diamete.. 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**



## Headlamp harness

Headlamp harness. Main bulb connector.Fitted 1M length cables & sleeving, bullet connectors & grommet. **Ref:5823. £10.10**

Use with Quadoptic lamps or other lens/reflectors that have a pilot hole instead of pilot window. **Ref:5829. £10.42**



## 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)**

Also available in right hand dip **Ref: S8001.**



## Lens/reflectors

Lens/reflector. 5 3/4" rubber cover for main bulb. Takes H4 P43t bulbs (Not included).

E approved



Left Hand dip (UK)

With pilot **Ref: LA1016 £18.26**

Without pilot **Ref: LA1017 £18.26**

Also available in right hand dip (Europe)

With pilot **Ref: LA1014 £18.26**

## British pre-focus headlamp units & bulb holders



W10160

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

**Ref :W10160 £25.90**

Genuine Lucas 5 3/4" British pre-focus headlamp. Supplied with main & pilot bulb holders below.(Bulbs not included)

**Ref: W50211 £39.90**



W50211

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**



# Lighting

## 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. Main bulb connector with straight MALE terminals. Used for extending headlight wiring.

Will plug into 5736 & MBC

Ref: MBM **£4.30**

4. Pilot bulb holder, for 9.5mm wedge bulbs

Ref: 4276 **£4.04**

5. H7 Bulb holder with 140mm tails.

Ref: 171453 **£3.78**

6. Bulb holder for Chronometric gauge. Takes a BA9s bulb.

Ref: W13119 **£11.90**



## Chromed steel outer rims

7" headlight rim, depth 1"  
Large radius curve o/d 8 1/2"

Ref: 5435 **£21.20**

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**



## Genuine Lucas 5 3/4" Chrome headlamp rim

As fitted to BSA C15/B40, Triumph Tiger Cub etc.

Note: This rim is 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**



Reflector clips (pack of 4). Holds lens/reflector into motorcycle rim. Ref: 0887. **£7.00**



Headlamp rim fixing clamp and screw. Replacement for Lucas motorcycle headlamp. Ref: W19016 **£2.50**



## 7" Tripod Headlight

7 inch Tripod headlight unit, 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)



## 7" Classic headlamp

Free standing complete 7" headlamp with Halogen H4 12V 60/55W main bulb and 12w 5W sidelight.

Bolt dia 16mm. E approved. Polished stainless steel body

Ref: E340021 **£121.30 ea**



## 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

**£58.08 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

**£47.10 per pair**



## Headlight Rim Clip

Rim clip for holding the lens/reflector to rim.

Ref: 6012 **61p**



# Lighting

## 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 (on page 55)

## Headlamp shell wiring grommet

Rubber grommet for wiring on British Lucas type headlamp shell. Fits 40mm hole with 13mm hole through centre.

Fits W10158 above.

**Ref: HWG £3.00**



## Chrome headlight casing



7" chromed steel headlight casing for side mounting. Comprises shell, outer rim, lamp retaining rim and main bulb connector. Suitable for 7" lens reflectors as listed on p54.

**Ref: U7CHCASE. £49.98**

## 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**



## Headlight brackets

Available in Black & Chrome (illustrated) or all Chrome Supplied with rubbers to fit 31mm forks.

**Ref: HLDBLCK (Black)**

**Ref: HLBDCH (Chrome) £27.28 per pair**

Headlight bracket rubbers for above.

to fit: 35mm **Ref: HLBRUB35 £9.98 pair**

to fit: 38mm **Ref: HLBRUB38 £9.98 pair**



## Reflectors

**Self adhesive.**

Dims: 95x45mm

**Ref: RR (Red)**

**RA (Amber)**

**RC (Clear)**

**£1.70 ea, £14.15(10)**



**Screw fixing.**

Overall dims: 125x50mm

**Ref: 50505 (Red)**

**50510 (Amber)**

**50500 (Clear)**

**£2.49 ea, £22.41 (10)**



**Red reflective triangle.**

152mm with 2 x 6mm fixing holes.

**Ref: RT £1.81 ea.**



## Classic Reflectors

Chrome bezel 52mm dia.

Rear stud fixing.

**Ref: W19102 £9.00 ea**



## Mini lamps

Mini style lamps.

Overall dimensions

72mm dia x 107mm depth.

Lens dia 53 mm x 50mm

depth.

Complete with 12V bulbs.



Ref.	Description	Colour.	Bulb.	Ea.
<b>WSL49</b>	Stop & tail lamp	Red	21/5W	<b>£9.80</b>
<b>WRL48E</b>	Indicator	Amber	21W	<b>£9.80</b>
<b>WRL47E</b>	Front side lamp	Clear	5W	<b>£9.80</b>

Spare bulbs (See page 61)

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

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

## Marker/Flasher lamps

Flush base

Fitted with a 12V festoon

bulb.

6 Volt bulbs available



Lens dia 53x50mm deep

Overall base dia 72mm.

Ref.	Description	Colour.	Bulb.	Ea.
<b>53600</b>	Side lamp	Clear	5W	<b>£7.80</b>
<b>57000</b>	Indicator	Amber	21W	<b>£9.07</b>
<b>WRL39R</b>	Tail lamp	Red	5W	<b>£7.80</b>

Spare bulbs (See page 61)

12 Volt 21W (273), 5W (239)

6 Volt 15W (266), 6W (253)



# Lighting

## Signal lamps

A range of universal lamps suitable for cars, trailers, trucks, motorcycles etc. Tough plastic backplate/bulbholder covered with a rubber weatherproof glove which seals out dirt and moisture. Bulb not included. E approved.

Lens dia 68mm x 45mm depth, Overall dia 73mm x 90mm deep



£5.92 each

### Bulb required (Ref)

Ref.	Colour.	Application.	Wattage	12v	6v
LSL025	Red	Rear & stop.	21/5w	(380)	(384)
LSL005	Amber	Indicator.	21w	(382)	(317)
LSL015	Clear*	Front side.	5w	(207)	(205)

\*The clear lamp can be used as reversing by fitting a 21w bulb (ref:382-12volt) or (317-6volt)

## Lamps with plug connection and mounting base



NASBH bulb holder 76799

A range of lamps that can be fixed to vehicle directly or by using a moulded plastic mounting base. Connections are made using 2 or 3 way female connection sockets (3 way for stop & tail lamp).

Overall dims of lamp: 95mm dia x 75mm deep.

Overall dims of base: 100mm dia x 25mm deep

E approved. Order parts separately:

Lamp unit + connector + base + bulbs.

Lamp units. £10.06 ea.

### Bulb required (Ref)

Ref.	Description	Colour.	Wattage	12v	6v
S6079	Rear fog lamp	Red	21W	(382)	(317)
S6082	Stop & tail lamp	Red	21/5W	(380)	(384)
S6081	indicator	Amber	21W	(382)	(317)
S6080	Reversing lamp or side lamp	Clear	21W	(382)	(317)
			5W	(207)	(205)

### Connectors, mounting base, trim & bulbs for above.

Ref.	Description.	Ea.
01252	2-way Connector	£3.62
01253	3-way Connector (For S6082)	£5.92
76799	Mounting base	£4.08
NASBH2	Spare bulb holder (2 pin)	£3.15
NASBH3	Spare bulb holder (3 pin)	£3.15
382	Bulb 12V 21W	40p
380	Bulb 12V 21/5W	42p
207	Bulb 12V 5W	38p

## 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	£21.32
S6061LED	Front&rear indicator	Amber	£21.32
S6062LED	Rear stop & tail	Red	£21.32

### Female connectors for above lamps.

		Ea.
01252	2-way connector	£3.62
01253	3-way connector (for stop & tail)	£5.92

## LED lamps 12/24 Volt



17 LED's. Flush base. E-Marked and road legal. Waterproof to IP67. Each lamp is pre-wired.

Low energy consumption. Stainless steel fixing screws supplied. Dims: 95mm dia x 36mm deep.

Lamp units. £20.95

Ref.	Description	Colour.
S6079LED	Rear fog lamp	Red
S6082LED	Stop & tail lamp	Red
S6081LED	Indicator	Amber
S6080LED	Reversing lamp or side lamp	Clear

## Smart load resistor

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

Ref: LEDNAS £14.16 (Pair)



# Lighting

## Number plate lamps

Includes bulbs 12v

E approved.



Ref.	Dims.	Detail.	Ea.
<b>RCT776</b>	116x48x36	Black plastic	<b>£7.50</b>
<b>RCT777</b>	116x48x36	Chromed plastic	<b>£5.06</b>
<b>RCT785</b>	68X32X38	Black plastic	<b>£5.20</b>

## Brass number plate lamps

Chrome plated brass number plate lamp.  
86mm fixing centres,  
L116 x W38 x H51 mm  
Supplied with 12V MCC  
Bulbs

E approved.



Ref: 45303 **£31.90**

45303

## LED number plate lamps

12 white LEDs. 12/24v.  
Dims: 120x46x40mm.  
Black polycarbonate  
body. Acrylic lens.  
E. approved.

Ref:RL5 **£15.82**



4 White LEDs. 12/24v.  
Dims: 72x42x42mm.  
Black polycarbonate body,  
2 mounting holes.

Ref: RCT786 **£7.78**



## Compact LED Stop/tail/indicator lamp

12V/24V. Waterproof  
to IP69K  
Dims: 100x37x16

Ref: 49300 **£39.70**



## Rear guard lamps

Black plastic bodies. E approved. All include 12v 21w bulb.

RL014/15 have steel mounting bracket.



RL014

RL015

Ref.	Dims.mm	Detail.	Ea.
<b>RL014</b>	85x75hx52d	Rear fog	<b>£6.28</b>
<b>RL015</b>	85x75hx52d	Reversing	<b>£7.80</b>



LWL005

LWL015

LWL005 & LWL015 are flush mounting Land Rover type,  
fitted with cable & rear mounting studs.

Ref.	Dims.mm	Detail.	Ea.
<b>LWL005</b>	120x80hx55d	Rear fog	<b>£10.84</b>
<b>LWL015</b>	120x80hx55d	Reversing	<b>£10.84</b>
<b>LWL005L</b>		Red lens for LWL005	<b>£5.23</b>
<b>LWL015L</b>		Clear lens for LWL015	<b>£5.23</b>

## LED side repeater lamps

12V LED side repeater  
lamp.

Size 42 x 30 x 40mm.

6 x LED's

Cable length 130mm.

Ref: SSR **£7.95**



Waterproof 12V 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 **£5.95**



# Lighting

## Multi-role rear lamps



Include 12V bulbs. E approved.

1. Ref: **RCT450** Rear/stop/indicator, window for number plate illumination. Dims: 98x98x50mm. **£5.04 ea**
2. Ref: **RCT400** Rear/stop/indicator, window for number plate illumination. Dims: 167x84x50mm. **£7.78 ea**

## Waterproof rear combination lamp unit

Stop/tail/indicator/reflector lamp unit. Tested to IP67.

E approved.

12V bulbs & waterproof gland included

Dims: 200x88x57mm

Ref: **29500** **£30.18 ea**

Replacement lens:

Ref: **29599** **£17.42 ea**



## LED marker lamps 12V

Surface mounting. 24V available to order.

LED outline marker lamps with built in reflector.

Lens dims: 100x50x22mm. 4 LED's. E Approved.



RCV4300



RCV4101

Ref.	Overall Dims(mm)	Detail.	Ea.
RCV4101	120x63x21	Red rear	<b>£16.12</b>
RCV4300	120x63x21	Amber side	<b>£16.58</b>



ML29A



ML29R

12V LED Marker lamp. D.O.T./SAE approved. Rubber base, Fully waterproof. Dims: 96x17x24mm Deep  
2 x fixing holes with centres @ 70mm.

Ref: **ML29A** (Amber) **£6.86**

Ref: **ML29R** (Red) **£6.86**

## 5 function tail lamp units

5 function tail lamp units. Both units incorporate tail light, reflector, brake light and direction indicator. R/H unit has rear fog and L/H unit has reversing light. 4xM6 fixing studs. Overall dimensions: 303x130x109mm.

Bulbs not included. (see page 61)

Bulbs required 12V: 3x21W (382), 2x5W (207)

Bulbs required 24V: 3x21W (241), 2x5W (149)

(Tail light uses two 5W bulbs)



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

Ref: **RCV3202**

**£33.00 ea**

Spare lens for RCV3202:

Ref: **7698** **£12.00 ea**



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

Ref: **RCV3203**

**£33.00 ea**

Spare lens for RCV3203:

Ref: **7699** **£13.44 ea**

## LED multifunction rear lamps 12/24v

Incorporating stop, tail, indicator, reflector. Dims:

150x80x25mm deep.

2 fixing studs at rear. 280mm cable tails.

With red and

amber lens.

Ref: **171667**

**£30.27 ea**



With clear lens.

Ref: **171668**

**£30.27 ea**



## Marker lamp 12/24 Volt

Moulded rubber outline marker lamp

with red and clear lenses. E approved.

Body dims: 95x85x35mm.

Lens 50mm dia.

12 Volt 5W bulb included.

Ref: **RCV4022** **£15.02 ea**

Replacement bulbs, see page 61.

12 Volt 5W (207)

24 Volt 5W (149)



# Headlight Bulbs

## Xenon H1&H4 premium headlight bulbs

Up to 50% brighter than conventional halogen bulbs.

Up to 20 metres 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.



R848



R872



447SS

### 12V halogen bulbs.

Ref.	Watts.	Type	Replaces	(Pair)
R872	60/55	H4 P43t	472	£13.48
R848	55	H1	448	£12.60
447SS	55	H7	447	£20.80

### P43t H4 Halogen main/dip.



P43t H4

Ref.	Type.	Volts.	Watts.	Ea.	(10)
472	P43t H4 Halogen	12	60/55	£2.45	£20.52
475	P43t H4 Halogen	24	75/70	£4.62	£36.96
473	P43t H4 Halogen	6	35/35	£7.30	£68.20

### P45t. main/dip.

P45t H4



P45t Asymmetric



Ref.	Type.	Volts.	Watts.	Ea.	(10)
HB12	P45t H4 Halogen	12	60/55	£3.86	£34.74
410	P45t Asymmetric	12	45/40	£1.78	£14.24

### BA20d & P36d Main/dip.



BA20d  
Bosch



P36d  
BPF

Ref.	Type.	Volts.	Watts.	Ea.	(10)
395	BA20d Bosch	12	35/35	£2.28	£18.24
396	BA20d Bosch	12	45/40	£2.00	£18.00
414	P36d BPF	12	50/40	£3.78	£32.31
312	P36d BPF	6	30/24	£3.78	£32.31

## Ice blue High performance halogen headlight bulbs

These bulbs give a distinctive crisp sharp blue light by producing a higher colour temperature than conventional halogen bulbs. They are directly interchangeable with standard headlight bulbs. 'E' approved and fully street legal for use on any vehicle.



R372

R348

### 12V Ice blue halogen bulbs.

Ref.	Watts.	Type	Replaces	Ea	(10)
R372	60/55	H4 P43t	472	£9.59	£76.76
R348	55	H1 P14.5s	448	£9.09	£72.76

## Driving & front fog bulbs



H1



H7



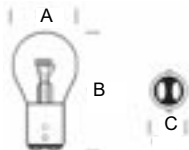
H3

Ref.	Type.	Volts.	Watts.	Ea.	(10)
447	Halogen H7	12	55	£4.20	£33.60
448	Halogen H1	12	55	£2.35	£18.76
466	Halogen H1	24	70	£3.50	£28.00
453	Halogen H3	12	55	£2.35	£18.76
489	Halogen H3	12	130	£6.59	£59.38
460	Halogen H3	24	70	£3.00	£24.00

# Bulbs

## Bayonet type. Sidelight, tail, stop, indicator & panel bulbs

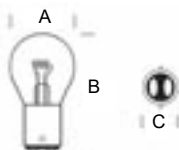
### BAY15d Offset pins



### BAY15d (offset pins)

Ref.	Volts	Watts	Dims(AxBxC)	Ea.	(10)
380	12	21/5	25x47x15	42p	£2.97
384	6	21/5	25x47x15	74p	£5.98
380R (Red)	12	21/5	25x47x15	£1.42	£10.76
BLB02	12	21/5	18x34x15	£1.40	£12.60
13047	6	21/3	18x34x15	90p	£7.20
294	24	21/5	25x47x15	85p	£6.80

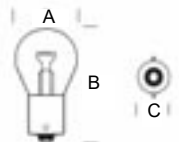
### BA15d Level pins



### BAY15d (level pins)

Ref.	Volts	Watts	Dims(AxBxC)	Ea.	(10)
381	12	21/5	25x47x15	80p	£6.75
335	12	21	25x47x15	54p	£4.32

### BA15s Level pins



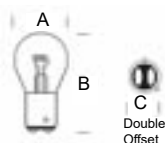
### BAY15S (level pins)

Ref.	Volts	Watts	Dims(AxBxC)	Ea.	(10)
382	12	21	25x47x15	40p	£2.96
245	12	10	16x37.5x15	42p	£3.36
343(Amber)	12	21	25x47x15	£1.16	£9.81
207	12	5	16x37.5x15	38p	£3.04
149	24	5	16x37.5x15	41p	£3.16
241	24	21	25x47x15	49p	£3.76
317	6	21	25x47x15	72p	£5.49
244	6	10	16x37.5x15	57p	£4.56
205	6	5	16x37.5x15	53p	£4.08
382R(Red)	12	21	25x47x15	£1.36	£10.46
BLB04	12	23	18x34x15	£1.40	£12.60

566



581



### BAZ15d (Double offset pins)

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

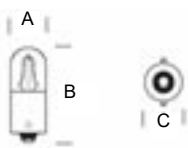
### BAU15s (Double offset pins)

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

### BA9



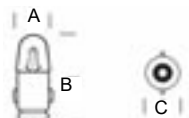
### BA9 (989)



### BA9S (level pins)

Ref.	Volts	Watts	Dims(AxBxC)	Ea.	(10)
989	12	5	15x26x9	50p	£4.14
433	12	20	9x30x9	£6.34	£49.80
233	12	4	8.5x26x9	38p	£3.06
288	12	2	8.5x23x9	54p	£4.34
293	6	4	8.5x26x9	65p	£5.13
287	6	2	8.5x23x9	62p	£4.86
BLB03	12	23	9x29x9	£1.20	£10.80
BLB07Amber	12	23	9x27x9	£1.20	£10.80
249	24	4	8.5x26x9	46p	£3.46
289	24	2	8.5x23x9	70p	£5.22

### BA7



### BA7S (level pins)

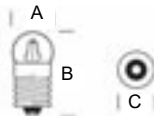
Ref.	Volts	Watts	Dims(AxBxC)	Ea.	(10)
281	12	2	7x20x7	53p	£4.06
282	6	1.2	7x20x7	80p	£5.97
283	24	3	7x20x7	54p	£4.32

## Screw cap bulbs

MES



LES



### E10 (MES Panel)

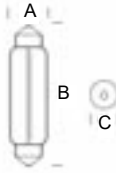
Ref.	Volts	Watts	Dims(AxBxC)	Ea.	(10)
987	12	2.2	11x23x10	55p	£4.32
990	6	3	11x23x10	61p	£4.68

### E5 (LES Panel)

Ref.	Volts	Watts	Dims(AxBxC)	Ea.	(10)
280	12	1.5	6x16x5	53p	£4.18

# Bulbs & Bulb holders

## Festoon bulbs



### SV8.5 (Festoon)

Ref.	Volts	Watts	Dims(AxBxC)	Ea.	(10)
265	12	10	11x42x8.5	62p	£4.96
273	12	21	15x42x8.5	73p	£5.22
239	12	5	11x36x8.5	55p	£4.14
266	6	15	15x42x8.5	71p	£5.62
253	6	6	11x36x8.5	69p	£6.21

### SV7 (Festoon)

Ref.	Volts	Watts	Dims(AxBxC)	Ea.	(10)
256	12	3	7.5x36x7	67p	£5.22

## White LED Bulbs 12V Off road use only



380LED



382LED



207LED



233LED



501LED

Ref.	Description.	Price (pair)
380LED	LED P21/5W BA15d Offset Pins	£14.62
382LED	LED P21W BA15s Level Pins	£14.38
207LED	LED R5W BA15s Level Pins	£8.50
233LED	LED 4W BA9s Level Pins	£6.44
501LED	LED W2.1x9.5d Wedge	£2.24

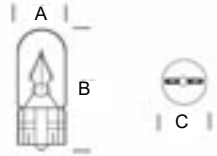
## Rough service bulbs

As used in inspection lamps. Designed for use in workshop environments. Features 5 additional filament supports to minimise the effects of vibration and accidental knocks. Heavy duty tungsten filament, gas filled for cooler running & longer life.



Ref.	Volts.	Watts.	Cap.	Ea.	(10)
R100	240	60	BC	£3.52	£31.68

## Wedge type bulbs



### W2.1 x 9.5d

Ref.	Volts	Watts	Dims(AxBxC)	Ea.	(10)
501	12	5	10x28x10	43p	£3.48
504	12	3	10x28x10	46p	£3.70

### W2 x 4.6d

Ref.	Volts	Watts	Dims(AxBxC)	Ea.	(10)
286	12	1.2	5x20x5	55p	£4.44
508	24	1.2	5x20x5	40p	£3.20

### W5 x 16d

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

## Bulb holders

Screw terminals.



1 2 3 4 5

Ref.	Type.	Ea.	(10)
1 170135	BAY 15d (offset pins)	£3.66	£32.94
2 170136	BA 9s	£4.42	£36.85
3 170137	BA 7s	£2.87	£23.90
4 170138	BA 15s	£3.48	£28.97
5 170596	BA 15d (level pins)	£3.55	£31.95

## Festoon Bulb Holder

Suitable for 36 and 42mm festoon bulbs. Supplied with tabs for soldering the wires to the bulb holder

Ref: FBH £1.25



# Towing Accessories

## 7 pin towing plugs & sockets



### 7-pin towing plugs & sockets

Ref.	Item.	Each.
1. A0013	12N Standard plug, plastic.	£2.37
A0029	12S Supplementary plug, plastic	£2.94
2. A0012	12N Standard socket, plastic.	£2.94
A0028	12S Supplementary socket, plastic	£3.23
3. TSG1	PVC gasket for socket.	71p
4. TP156	Fixing nuts & bolts for socket, pack of three 35mm x 5mm.	90p
5. RCT600	Socket bracket single.	£1.98
6. RCT650	Double mounting plate	£3.50
7. TP740	12N Standard plug, metal	£4.00
8. TP750	12N Standard socket, metal	£5.92

## 13 pin towing plugs & sockets



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



### 13pin socket assembly

Pre-wired on bracket with 2 metres of cable and quick connectors. Includes car fog light cut-out.

Ref: RSA500 £30.12

## Plug & socket adapters

1. **Socket adaptor** enables 12N plug (7 pin) on trailer or caravan to fit 13 pin socket on car  
Ref: A0035 £6.87



2. **Socket adaptor** enables 12N + 12S sockets(7pin) on car to fit 13 pin plug on trailer/caravan  
Ref: A0039 £47.18



3. **Socket adaptor** enables 12N+12S plugs(7pin) on trailer or caravan to fit 13 pin socket on car  
Ref: A0038 £45.82



## Smart logic relays

### 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 £16.70



### 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



## Audible warning relay

This rear fitting sensor relay fits to 12N wiring circuit in the towing vehicle. It has an audible warning device to make the driver aware that the indicators on the trailer are working correctly. This is a legal requirement when towing.

Ref: RCT380 £8.22



# Reverse Alarm, Split Charge Relays, USB

## Reverse alarms

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

12v. Ref:56112 £16.16  
24v. Ref:56124 £15.14



**Silent night type.** As above but with a third wire which connects to the light circuit, disabling the alarm at night.  
12v Ref:56162 £17.38

## Split charge relay 140A

12v 140A

Voltage sensitive relay for charging auxilliary battery.  
Cuts in at 13.3V.  
Cuts out at 12.8V.  
Fits 12V negative earth vehicles. Dimensions (mm) 68 x 68 x52.  
Two x 6mm stud connections.

Ref: 161059 £44.66



24v 140A

Voltage sensitive relay for charging auxilliary battery.  
Cuts in at 26.6V.  
Cuts out at 25.6V.  
Fits 24V negative earth vehicles. Dimensions (mm) 68 x 68 x52.  
Two x 6mm stud connections.

Ref: 161060 £44.66



## Split charge relay 70A

12v 70A.

Intelligent split charge relay.  
Connects between vehicles main (starting) battery and auxilliary battery.  
Switches when alternator is charging to also charge auxiliary battery.  
Fits 12v negative earth vehicles.

Ref: AVSPC10 £42.20



## 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



## Universal Plug

**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

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





# Accessory Plugs & Sockets

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

## 12V DIN Plug

**Din Plug**, fits into DIN sockets.  
Ref:PLG **£3.20**



## 12V DIN Sockets

**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 **£11.44**



**DIN Socket**, surface mounting. Die cast aluminium body. Takes standard DIN plug.  
Ref:180115 **£3.32**



**DIN Socket 3-way**. Takes 3 DIN plugs. 8amps max. Common link at rear. Includes fixing screws.  
Ref:60154 **£23.10**



**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. **£12.36**



A twin extension cable fitted with a cigarette lighter plug at one end. 5 amps max. Extends to 2.45M.  
Ref: 60150. **£16.24**



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. **£18.18**



## 12V Standard Sockets

**Cigarette lighter socket**.

To take lighter plugs such as universal plug above. 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 **£6.22**



**Pre-wired socket**  
Socket, takes cigarette lighter plug. Fitted with 300mm, 1mm<sup>2</sup> wire  
Ref: 181575 **£3.68**



**2-Way adaptor**. Double cigarette lighter socket connected to a cigarette lighter plug by flexible cable. Ideal where two accessories are needed to be used at once. Non fused.  
Ref:60190 **£9.80**



Bracket for 28mm cigarette lighter socket.  
Ref:60800 **£1.56**



Surface mount bracket for 28mm cigarette lighter socket. Dimensions 80x55x50mm (LxWxH)  
Ref:60161 **£4.02**



Surface mount double socket bracket for 28mm cigarette lighter sockets. Dimensions 80x99x50mm (LxWxH)  
Ref:60162 **£5.96**



## Socket & clips

Socket connected to two battery crocodile clips. Takes cigarette lighter plug.  
Ref:42248 **£9.16**



# Horns & Universal Cables

## 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 **£9.01 ea**



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

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

Two x 6.3mm blade terminals.

Ref:5786 (high note)

Ref:5787 (low note)

**£11.95 ea**



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

## Chrome horns

95mm diameter, chrome grille.

Two x 6.3mm blade terminals 105db.

6V Ref: **WHEL003 £11.90**

12V Ref: **WHEL004 £11.90**



## Motorcycle horn

70mm dia. 100db,

Two x 6.3mm blade terminals.

12V Ref: **HORS12V £6.22**

6V Ref: **HORS6V £6.22**



## 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**

## 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 £14.44**

410Hz low tone: Ref: **64211 £14.44**



## Marine trumpet horns

Italian manufactured. Made from chromium plated brass body with plastic grille. Stainless steel bracket.

Fully sealed and water resistant. Pre wired.

110 mm diameter. ECE approved.

Electric diaphragm type

High tone - 109dB (A)

Low tone - 107dB (A)



Ref	Tone	Voltage	Each
64214	High	12	<b>£48.12</b>
64215	Low	12	<b>£48.12</b>
64224	High	24	<b>£50.04</b>
64225	Low	24	<b>£46.70</b>

## 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.

Black or red handle

Ref: **GE61B (Black) £15.24**

**GE61R (Red) £15.24**



### 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**



# Radiator Fans & Screenwash Parts

## Radiator fans 12v



Universal fitting.

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 of radiator,

Ref	Ea
<b>RFA109</b>	<b>£69.64</b>
<b>RFA110</b>	<b>£72.40</b>
<b>RFA112</b>	<b>£75.22</b>
<b>38-014</b>	<b>£89.98</b>
<b>38-016</b>	<b>£105.80</b>

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
<b>38-014</b>	13 1/2"		10.5	375x80x355	
<b>38-016</b>	15 1/2"		12	428x100x410	

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 **£9.80**



## Radiator thermostat



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

Ref:CF305 **£35.96**

## Screenwash parts

### 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 pump & bottle 12v

Plastic bottle with washer pump and fitting bracket.

1.2Ltr comes with a fitting kit which includes wiring connectors, switch with bracket, 2 twin washer jets, T-Piece, straight connector, 1.75m PVC pipe & pipe clips.

1.2 Ltr bottle dims:

200mm H x 125mmW x 100mmD

Ref: 160186 **£15.16**



3 Ltr. bottle dims:

210mmH x 200mmW x 100mmD

(No fitting kit with 3 ltr. bottle)

Ref: 160187 **£39.70**

## Washer jets & parts



Ref.	Disc.	Ea.
1.	<b>160190</b> 4mm Single jet. Plastic	<b>£1.92</b>
2.	<b>160192</b> 4mm Double jet. Plastic	<b>£3.16</b>
3.	<b>4565140</b> 3mm Single jet. Chrome	<b>£4.21</b>
4.	<b>4565170</b> 4mm Double jet. Chrome	<b>£5.87</b>
5.	<b>160195</b> 'T' connector - 4mm equal	<b>66p</b>
6.	<b>59355</b> Wiper arm washer jet.	<b>£7.70</b>
7.	<b>59306</b> Wiper arm washer pipe clip.	<b>£1.54</b>
8.	<b>T43</b> Reducer tee (4-3mm)	<b>75p</b>
9.	<b>SWP</b> 4mm screen wash pipe	<b>£2.93 per Metre</b>

Jets 3 uses PVC3 pipe. See page 77

# ***Dashboard Gauges (not suitable for motorcycles)***

All gauges are to fit a 52mm diameter hole or mounting brackets shown on page 70, unless stated.

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**



## **Ammeters**

White figures  
52mm body diameter  
58mm bezel OD

30-0-30 Amp

**Ref: 160697 £18.86**



White figures  
52mm body diameter  
58mm bezel OD

16-32 Volts

**Ref: 160696 £17.94**



White figures  
52mm body diameter  
58mm bezel OD

60-0-60 Amp

**Ref: 160698 £5.56**



Digital Voltmeter

Mounting hole 29mm  
ID 26.4mm  
OD 36.8mm  
6.3mm terminals

0-36 Volts

**Ref: 161714 £17.06**



Digital Ammeter

Mounting hole 29mm  
ID 26.4mm  
OD 36.8mm  
6.3mm terminals

0-20 Amps

**Ref: 161716 £26.58**



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**



# **Dashboard Gauges (not suitable for motorcycles)**

## **Fuel Gauges**

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**

24 Volt Fuel gauge and sender **Ref: 160872 £37.44**

Replacement parts:

12 Volt gauge ONLY **Ref: 160895 £16.52**

24 Volt gauge ONLY **Ref: 160896 £16.52**

12/24 Volt sender ONLY **Ref: 160873 £27.30**

## **Oil Pressure Gauges**



Electrically operated  
Measuring range 0-10 Bar  
Transmitter 1/8" NPTF thread

12 Volt Oil Pressure gauge and sender  
**Ref: 160700 £24.92**

24 Volt Oil pressure gauge and sender  
**Ref: 160779 £27.74**

## **Water Temp Gauges**



Electrically operated  
Measuring range 40-120 °C  
Transmitter 1/8" NPTF thread

12 Volt Water temperature gauge and sender  
**Ref: 160699 £30.14**

24 Volt Water temperature gauge and sender  
**Ref: 160778 £30.14**

## **Hour Meter Gauges**

White figures  
52mm body diameter  
58mm bezel OD  
NO ILLUMINATION  
12-28 Volts



**Ref: 160702 £32.56**

White figures  
ID 36.5x25 mm  
OD 54x32 mm  
NO ILLUMINATION  
10-28 Volts



**Ref: 160747 £40.64**

Digital figures  
52mm body diameter  
58mm bezel OD  
10-28 Volts



**Ref: 160897 £45.02**

## **Replacement bulbs**

12 Volt 2w BA9s **Ref: 288 54p each**

24 Volt 2w BA9s **Ref: 289 70p each**



# Dashboard Gauges Accessories and Aerials

## Mounting pod for 52mm gauges



For gauges with a 52mm body diameter.  
Black ABS plastic with fixing screws and adhesive pad.  
Ref: 24304 £6.62

## Mounting brackets for 52mm gauges

For gauges with a 52mm body diameter.  
Use instead of cutting holes in dash.



Ref.	Holes.	Details.	Ea.
24301	One	Matt black steel.	£1.80
24302	Two	Matt black steel.	£2.70
24303	Three	Matt black steel.	£2.98

## Mounting brackets for 29mm gauges

For gauges requiring a 29mm mounting hole.  
Supplied with fixing screws.  
Use instead of cutting holes in dash.



Ref.	Holes.	Details.	Ea.
181679	One	Matt black plastic	£1.96
181680	Two	Matt black plastic	£3.24

## Brass adaptor kits

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



Ref: 52398. To fit 1/8"NPTF into :-  
M14x1.5, M16x1.5, M18x1.5 £8.74

Ref: 52399. To fit 1/8"NPTF into:-  
5/8UNF, 3/8NPTF; 1/2"NPTF; 1/8"BSP £8.74

## Aluminium 'T' Piece adaptor 1/8" NPTF

For oil or air pressure gauges.  
Ref: 52397 £27.04



## Classic replacement wiper blade



10" Stainless steel: Ref: MX10RS £3.30

## Electric wing mounted aerial

Fully automatic AM/FM electric aerial with multi mounting heads. Five section stainless steel mast, fully extended length 950mm. 1500 co-axial screened cable with jack plug. 290mm under wing clearance. Supplied with installation instructions.



Ref: AE916 £61.30

## 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 £11.18

## Aerial extension cable



Co-axial screened cable fitted with jack plug and socket. Suitable for most aerials. 2.5M length.

Ref: AE2500 £3.68

# Regulators, Rectifiers, Coils

## Generator regulators

1. Mechanical regulator for 12volt 22amp generator.

Ref: **83300** £25.10

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-1050B.



1.

2. Mechanical regulator for 12volt 25amp generator.

Ref: **83306** £27.09

Replaces Lucas. RB106, 37066, 139, 179, 183, LRC 105, NCB 101.  
Replaces Ford. 105E-10505B



2.

## Rectifier

Solid state. 6 or 12V  
Fits positive or negative earth.  
Diagram supplied. 35A rated.

Ref: **W10134** £6.85



## Dynamo/regulator split bullets

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

Ref: **W10405** £6.20



## Rectifier/regulators

Solid state rectifier/regulators. Replaces rectifier/zenor-diode. Pre-wired with 300mm cable.



**W10123W**



**W10124W**

Single phase (2 wires from alternator). 160 watt

Ref: **W10123w** £30.45

Three phase (3 wires from alternator). 200 watt

Ref: **W10124w** £30.45

## 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.

## Genuine Lucas Motorcycle Ignition coils



Overall length  
110mm x 40mm dia

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 : Negative. Yellow lead : Positive. 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

# General Workshop Fixings etc

## Trim button kit



Trim buttons, 220 pieces, 8 types  
Ref: AB151 £26.40

## Drive rivet kit



Drive rivets 220 pieces, 8 sizes  
Ref: AB152 £38.00

## Screw type rivet kit



Screw type rivets, 130 pieces, 8 sizes  
Ref: AB172 £40.18

## Perforated strip

Zinc plated steel.



1/2" wide x 8" long.

Ref: APS080 47p ea. £4.25(10)

3/4" wide x 12" long.

Ref: APS012 68p ea. £6.12(10)

## Trim fasteners

### 1. Screw on rivet.

Black plastic.  
Push fits into  
6mm dia hole

in panel, screw fixes trim etc.  
Screw length 15mm.

Ref: SR614 24p ea, £9.97(50)

### 2. 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 20p ea, £8.31 (50)

### 3. Fir tree trim panel clip

Black plastic.

D= Head Diameter

L= Length

H= Hole size

Ref. DxLxH Ea. 50.

FIX21 24x18x6 35p £14.53

FIX29 18x28x6 39p £16.19

FIX504 18.5x23.8x8.5 68p £25.50

### 4. Multi step trim panel clip.

Black plastic 17mm head,  
6mm dia x 15mm long  
stem

Ref: FIX30 20p ea, £8.37 (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

## Clevis pins

Ref. Size.DxL Ea. 50.

HCP2 4.8X22mm 34p £14.00

HCP4 6.4x17.5mm 34p £14.00

HCP5 6.4x20mm 34p £14.25

HCP7 8x25.4mm 43p £18.12

HCP8 9.5x32mm 49p £20.25

## R-Clips



Ref. Dia.\* Length. Ea. 10 pack

LP5 2.5mm 45mm 19p £1.58

LP6 3mm 54mm 32p £2.66

LP7 4mm 75mm 47p £3.90

LP8 5mm 107mm 90p £7.47

\* Dia means diameter of wire.

## 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)

## Nylon number plate nuts & bolts



Ref. Colour. Ea. 100.

B374Y Yellow 18p £13.50

B374W White 18p £13.50

B375 Black 18p £13.50

## Threaded rubber mountings



Set of 8 button head aluminium alloy  
bolts, nylon washers and rubber  
mountings with threaded brass  
inserts. Bolts; M5 x 16mm.

Mountings; 15mm long x 9.5mm dia  
with 12.5mm dia flange.

For motorcycle fairing mounts etc.

Bolts are black

Ref: BOLFAIRB £14.98 set of 8



# General Workshop Fixings etc

## Rubber & fibre washer kit



Assorted rubber and fibre washers.  
130 pieces. Ref: ASST03 £11.98

## 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

## Speed fastener kit



Approx 200 pieces in zinc plated steel. Sizes: No.4, 6, 8, 10, 12 & 14  
Ref: AB166 £15.40

## 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 £22.78

## '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 superglue.  
Ref: AB126 £34.72

## Self tapping screw kits



No.4-No.10 Pozidrive pan head.  
Zinc plated. 600 piece.  
Ref: 5001010 £16.60



(No.8-No.12 Pozidrive pan head)  
Zinc plated. 300 piece.  
Ref: 5001020 £15.66



(No.6-No.10 pozidrive flanged head.)  
Black. 600 pieces.  
Ref: 5001050 £17.18



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 £36.90

# Stainless Steel Fixings & Copper Washers

## Stainless steel screws, nuts, nyloc nuts & washers

### Stainless steel set screws.



Ref.	Size.	Ea.	10.
SM630S	M6 x 30	49p	£3.68
SM650S	M6 x 50	61p	£4.58
SM660S	M6 x 60	69p	£5.18
SM825S	M8 x 25	73p	£5.48
SM830S	M8 x 30	77p	£5.79
SM840S	M8 x 40	81p	£6.09
SM850S	M8 x 50	89p	£6.69
SM1030S	M10 x 30	£1.22	£9.15

### Stainless steel socket head cap screws.



Ref.	Size.	Ea.	50.
SM416SC	M4 x 16	27p	£10.13
SM520SC	M5 x 20	33p	£12.38
SM612SC	M6 x 12	29p	£10.92
SM620SC	M6 x 20	43p	£16.13

### Stainless steel full nuts.



Ref.	Size.	10.	100.
SM6F	M6	£1.82	£13.68
SM8F	M8	£2.70	£20.25
SM10F	M10	£4.50	£33.75

### Stainless steel nyloc nuts.



Ref.	Size.	10.	100.
SM6N	M6	£1.80	£13.50
SM8N	M8	£2.43	£18.24
SM10N	M10	£4.90	£36.75

### Stainless steel flat washers.



Ref.	Size.	10.	100.
SM6W	M6	£1.00	£3.30
SM8W	M8	£1.00	£3.96
SM10W	M10	£1.00	£6.75

### Stainless steel spring washers.



Ref.	Size.	10.	100.
SM6SW	M6	£1.00	£3.00
SM8SW	M8	£1.00	£4.50
SM10SW	M10	£1.20	£9.00

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: M4=0.7mm 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 **£42.70**

### Full nut kit



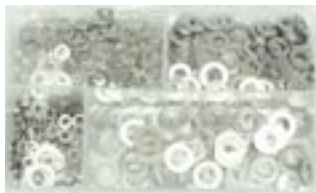
Stainless steel full nuts. 250 pieces, M5, M6, M8, M10  
Ref: AB155 **£26.20**

### Nyloc nut kit



Stainless steel nyloc nuts. 225 pieces, M5, M6, M8, M10  
Ref: AB156 **£30.56**

### Flat washer kit



Stainless steel flat washers. 650 pieces, M5, M6, M8, M10  
Ref: AB157 **£16.10**

### Spring washer kit



Stainless steel spring washers. 650 pieces, M5, M6, M8, M10  
Ref: AB158 **£21.20**

### Repair washer kit M3-M10



220 pieces, mudguard type. M3x12, M4x20, M6x25, M8x25, M8x40, M8x50, M10x50.  
Ref: 5004250 **£19.94**

## Copper Washers

### 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**



# Fastener Kits

Assortments of high tensile set screws, full nuts, nyloc nuts and washers are zinc plated unless stated otherwise. All supplied in transparent partitioned cases.

All set screws and nuts are metric coarse thread,  
Set screws are measured from under the head to the end of the shank.  
Thread pitch: M4=0.7mm M5=0.8mm, M6=1mm, M8=1.25mm M10=1.5mm

## Socket head cap screw kit M5-M10



Socket head cap screws.  
Black. 120 pieces.  
M5x25, M5x40, M6x25, M6x40,  
M8x25, M8x40, M10x25, M10x40.  
Ref: 5001270 £31.54

## 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

## Flat washer kit M4-M12



800 pieces. M4, M5, M6, M8, M10,  
M12 flat washers.  
Ref: 5004210 £31.48

## Set screw kit M6-M12



101 pieces. M6x40, M8x30, M8x40,  
M8x50, M10x40, M12x50 set screws.  
Ref: 5001410 £30.74

## M8. Set screw, full nut, nyloc nut, washer kit



350 pieces. M8x25 sets, M8x40 sets,  
M8 full nuts, M8 nyloc nuts, M8 flat  
washers.  
Ref: 5001450 £18.12

## Full nut kit M6-M12



340 pieces.  
M6, M8, M10, M12 full nuts.  
Ref: 5004010 £15.22

## Set screw & nut kit M5-M10



300 pieces. M5x25, M5x40, M6x25,  
M6x40, M8x30, M8x40, M10x30,  
M10x40 set screws. M5, M6, M8, M10  
full nuts.  
Ref: 5001415 £26.50

## Spring washer kit M5-M12



spring washers. 800 pieces.  
M5, M6, M8, M10, M12  
Ref: 5004310 £17.90

## Nyloc nut kit M5-M12



300 pieces.  
M5, M6, M8, M10, M12 nyloc nuts.  
Ref: 5004110 £20.62

# Fuel pumps, Fuel Filters, Hose Clips

## Facet fuel pumps

1. 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 £52.00**



2. Filter for 70187 **Ref: FPA906 £4.20**



3. 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 £108.97**



## Facet fuel pump mounting kit

4. Mounting kit suitable for both Facet fuel pumps. Reduces vibration and noise when running. Also includes earth cable.

**Ref: FPA905 £5.32**



## Fuel pump

### Pressure pump 12v.

Fitted near the tank. Includes bracket. 8mm outlets. Suitable for petrol, diesel, ethanol, methanol. Fuel delivery capacity 120L/Hr. Pressure head 0.25 bar, suction head -0.10bar. **Ref: 67312 £130.94**



## 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**

**£1.35 ea, £11.25 (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

4. 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**



## 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	60p	£5.00
HC1220	12-20	73p	£6.05
HC1625	16-25	76p	£6.30
HC2032	20-32	76p	£6.30
HC2540	25-40	79p	£6.57
HC3250	32-50	82p	£6.82
HC4060	40-60	88p	£7.35
HC5070	50-70	£1.02	£8.50
HC6080	60-80	91p	£7.85



## 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 £7.77**

## Anti-theft fuel cut-off valve

A solenoid fuel valve for petrol or diesel engines to cut off fuel when not energised. Fitted between the filter & lift pump on the low pressure feed to the engine. Operate from a hidden switch, not included. Fits 8mm bore pipe. Not suitable for vehicles with re-circulating (or leak off) system. **12v. Ref:12912 £67.10**

(24v available to order ref:12924 **£119.24**)



## Fuel tap

Steel body and stainless steel valve. Supplied with fittings for either 6, 8, or 10mm bore pipe.

With 6mm (1/4") fittings **Ref: LMA349 £18.83**

With 8mm (5/16") fittings **Ref: LMA348 £18.83**

With 10mm (3/8") fittings **Ref: LMA350 £18.83**



# Fuel/Oil Pipe and Hoses

## Ethanol Resistant Fuel Hose

High pressure, high temperature Ethanol fuel hose. Suitable for petrol (E10 rated) diesel, bio diesel and oil.



10 Bar working pressure.

Working temperature -40°C to + 150°C. Brand:

Codan, Specification SAE J30 R9

Ref.	Bore.	O/D	Per metre
PHE10/6	5.6mm	12mm	£12.24
PHE10/8	7.9mm	14.5mm	£12.98
PHE10/10	9.5mm	16.5mm	£14.70

## 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	£3.80
PH8	8mm	13.7mm	£4.20

## 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	£5.75
PHINJ8	8mm	15mm	£6.70
PHINJ10	10mm	17mm	£7.92

## 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	50p	£4.15
PPC11	10-12	64p	£5.35
PPC12	11-13	64p	£5.35
PPC13	12-14	64p	£5.35
PPC15	14-16	64p	£5.35
PPC17	16-18	75p	£6.25

## 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**



## Braided steel petrol hoses



Available in various lengths and bores.

Comprise rubber hose covered with braided steel.

Complete with rubber end caps and clips, (unless stated).

Suitable for petrol/oil/water, working pressure 150 psi.

**'Aluminised' braided steel, (includes end fittings).**

Ref.	Bore.	Length.	Ea.
LMA330	6mm	75mm	£6.90
LMA331	6mm	150mm	£7.68
LMA332	6mm	300mm	£9.10
LMA333	6mm	450mm	£6.98

**Braided stainless steel, (includes end fittings).**

Ref.	Bore.	Length.	Ea.
LMA334	8mm	75mm	£5.48
LMA335	8mm	150mm	£9.46
LMA336	8mm	300mm	£14.90
LMA337	8mm	450mm	£20.22

**Braided stainless steel, (without end fittings).**

**Cut to length.**

Ref.	Bore.	O.D.	Per metre.
LMA366	6mm	11mm	£13.92
LMA367	8mm	13.5mm	£12.76
LMA368	9.5mm	15mm	£11.92
LMA369	12.4mm	20mm	£24.41

**Rubber end cover**

Fits 6 & 8mm pipes only.

Use with a PPC15 petrol pipe clip.

Ref.	Ea.	(10)
LMA338	22p	£1.83



## Pipe & hose



PVC VP4 VSH9 AHH921

Description.	Ref.	Bore.	O.D.	M.
	PVC3	3mm	6mm	62p
<b>Clear PVC pipe</b>	PVC5	5mm	7.5mm	92p
	PVC6	6mm	9mm	99p
	PVC8	8mm	12mm	£1.54
<b>Vacuum pipe</b>	VP4	4mm	9.5mm	£4.32
<b>Vacuum servo hose</b>	VSH9	9.5mm	19mm	£4.44
<b>Heater hose</b>	AHH921	16mm	23mm	£3.55

# Hose Connectors

## 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	27p	£2.43
OC2A	9-11mm	27p	£2.43
OC3A	11-13mm	29p	£2.61
OC4A	13-15mm	29p	£2.61
OC5A	15-18mm	29p	£2.61
OC6A	17-20mm	35p	£3.15
OC7A	20-23mm	54p	£4.86

## O Clip crimp tool

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



Ref: OCPLIER £18.98

## O Clip & hose joiner kit



72 piece O clip and hose joiner kit. Comprises of 48 assorted O clips, size ranges 11-13mm, 13-15mm, 15-18mm, 17-20mm and 20-23mm. Also includes 24 plastic hose connectors, size ranges 6mm, 8mm, 10mm, 12mm and 16mm. All contained in a tough storage box.

Ref: 5005420 £27.50

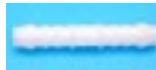
## Plastic hose connectors

Suitable for fuel line, heater hoses, windscreen washer hose, vacuum tubing etc. Resistant to coolant additives, petrol, diesel, oil. Made from tough nylon or acetyl. **Colour is black, blue or white depending on availability.**

Sizes: 6mm(1/4"), 8mm(5/16), 10mm(3/8"), 12mm(1/2"), 16mm(5/8") and 19mm(3/4").

Size refers to the bore size of pipe that connector fits into.

### Straight connectors.



Ref	Size	Each
MHC012	6mm	£1.47
795354	8mm	£1.62
MHC013	10mm	£1.47
MHC001	12mm	£1.47
MHC002	16mm	£1.93
MHC003	19mm	£2.44

### Reducers.



Ref	Size	Each
LMA319	8-6mm	£2.80
4557246	10-8mm	£1.62
LMA327	12-8mm	£3.56
MHC014	12-10mm	£1.47
MHC011	16-12mm	£1.72
MHC004	19-15mm	£2.12

### Angle connectors.



Ref	Size	Each
MHC015	6mm	£2.25
795477	8mm	£2.22
MHC016	10mm	£2.80
MHC005	12mm	£2.44
MHC006	16mm	£3.02
MHC007	19mm	£3.23

### T-piece.



Ref	Size	Each
MHC017	6mm	£2.42
795411	8mm	£2.28
MHC018	10mm	£2.69
MHC008	12mm	£3.42
MHC009	16mm	£2.96
MHC010	19mm	£3.07

## 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	£3.08
J0606	8mm	£3.12
J0808	10mm	£4.08
J1010	12mm	£3.98

### Reducers.



Ref	Size	Each
J0604	8-6mm	£3.08
J0806	10-8mm	£3.20
J1006	12-8mm	£4.08
J1008	12-10mm	£3.96

### T-piece.



Ref	Size	Each
MTP001	6mm	£4.12
MTP002	8mm	£4.16
MTP003	10mm	£4.86

# Brake Pipe & Fittings

## Brake pipe tubing

Supplied in 25 ft. (7.6metre) lengths in either copper-nickel or copper. Both conform to BS2871.



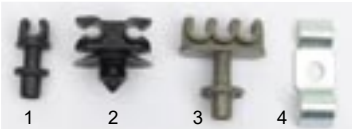
### Copper-nickel 90/10 seamless brake tubing.

Ref.	outside dia.	max pressure.	£(25 feet)
<b>T14M</b>	3/16"	3100 psi	<b>£20.48</b>
<b>T20</b>	1/4"	2250 psi	<b>£47.86</b>
<b>T18</b>	5/16"	1740 psi	<b>£54.42</b>

### Copper brake tubing 20swg

Ref.	outside dia.	max pressure.	£(25 feet)
<b>T100</b>	3/16"	3100 psi	<b>£25.90</b>

## Brake pipe clips



Ref.	To suit	Hole	Material	Each
<b>1. BPC1</b>	1x 3/16"	6mm	Plastic	<b>96p</b>
<b>2. BPC2</b>	2x 3/16"	1/4"	Plastic	<b>£2.50</b>
<b>3. BPC3</b>	3x 3/16"	8mm	Plastic	<b>£3.26</b>
<b>4. BPC</b>	3/16&5/16	6mm	Metal	<b>96p</b>

## Brake nuts male



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

Ref	Thread	Ea	£(Qty)
1. <b>B574</b>	3/8"unf x 24 tpi (Mini, Escort)	<b>45p</b>	<b>£9.34 (25)</b>
2. <b>B690</b>	3/8"unf x 24 tpi TTE	<b>55p</b>	<b>£11.42 (25)</b>
3. <b>B573</b>	3/8" BSF x 20 tpi	<b>67p</b>	<b>£13.90 (25)</b>
4. <b>B620</b>	10mm x 1mm short	<b>42p</b>	<b>£8.72 (25)</b>
5. <b>B678</b>	10mm x 1mm long	<b>50p</b>	<b>£10.42 (25)</b>
6. <b>B687</b>	10mmx1mm short TTE	<b>44p</b>	<b>£9.13 (25)</b>
7. <b>B689</b>	10mmx1mm long TTE	<b>55p</b>	<b>£11.41 (25)</b>
8. <b>B626</b>	10mm x 1.25mm long	<b>44p</b>	<b>£9.13 (25)</b>
9. <b>B571</b>	12mm x 1mm	<b>90p</b>	<b>£7.47 (10)</b>

### Male brake nuts for 1/4" pipe

Ref	Thread	Ea	£(Qty)
10. <b>B691</b>	12mm x 1mm	<b>£1.05</b>	<b>£21.85 (25)</b>
<b>BPN31</b>	7/16" UNF	<b>79p</b>	<b>£14.88 (25)</b>

Note: TTE = Threaded to end

## Brake nuts female



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

Ref	Thread	Ea	£(Qty)
1. <b>B576</b>	3/8"unf x 24 tpi	<b>66p</b>	<b>£13.70(25)</b>
2. <b>B627</b>	10mm x 1mm	<b>62p</b>	<b>£12.87(25)</b>

### Female brake nuts for 1/4" pipe

3. <b>BPN32</b>	7/16" unf	<b>£1.01</b>	<b>£18.75(25)</b>
4. <b>B695</b>	12mm x 1mm	<b>£1.71</b>	<b>£32.06(25)</b>

## Brake tube connectors



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

Ref	Type	Use with	Ea	£(Qty)
1. <b>B579</b>	Female	B574	<b>£2.06</b>	<b>£17.20(10)</b>
3. <b>B628</b>	Male	B576	<b>£1.37</b>	<b>£11.42 (10)</b>
5. <b>B543</b>	3 way		<b>£9.14</b>	

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

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

## Brake bleed screws



Ref	Thread	Ea	£(Qty)
1. <b>B618</b>	1/4"unf x 28 tpi	<b>£1.21</b>	<b>£25.11 (25)</b>
2. <b>B619</b>	3/8"unf x 24 tpi	<b>£1.22</b>	<b>£25.50 (25)</b>
3. <b>B581</b>	3/8"unf x 24 tpi long	<b>£1.55</b>	<b>£32.16 (25)</b>
4. <b>B580</b>	6mm x 1mm short	<b>£1.50</b>	<b>£31.32 (25)</b>
5. <b>B578</b>	6mm x 1mm long	<b>£2.02</b>	<b>£42.07 (25)</b>
6. <b>B682</b>	7mm x 1mm	<b>£1.07</b>	<b>£22.20 (25)</b>
7. <b>B671</b>	8mm x 1.25mm	<b>£1.01</b>	<b>£20.96 (25)</b>
8. <b>B679</b>	10mm x 1mm	<b>£1.01</b>	<b>£20.96 (25)</b>

## Bleed nipple dust cap.

Ref: 4720500 80p ea, £7.20(10)



# Brake Pipe Kits & Tools

## Brake bleed screw kit

Contains 75 assorted brake bleed screws, imperial and metric, short and long.

Ref: 5006140

£58.98



## 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 £16.78

## Brake pipe fitting 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

£46.74



## 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 £44.98

## 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 £12.75

## Pipe flaring tool



Note: Not suitable for steel pipe.

## 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

£8.64 (10)



Forms single and double flares. Adjustable grip pressure for different tube walls and materials. Pipe sizes: 3/16", 1/4", 5/16", 3/8", 1/2", 7/16" and 5/8". Full step by step instructions included.

Ref: 5510 £78.82



# Battery Chargers, Inverter & Solar Panel

## Optimate 4 Dual program battery charger

Fully automatic diagnostic battery charger for all 12V lead-acid, AGM and gel batteries from 2.0Ah to 50Ah. Ideal for motorcycles. Constant 1A output current for safe recharging. Safe for months long connection during over-winter battery maintenance. Features automatic 9 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: OPT4 £72.29



## Optimate 2 Automatic maintenance charger

12 Volt automatic battery charger for lead acid, EFB, AGM and gel batteries from 3-96AH. Ideal for motorcycles. Constant 0.8A output current for safe recharging. Safe for months long connection during over-winter battery maintenance. Features automatic 4 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 £48.84



## Optimate accessories

### Weatherproof connector and lead.

Allows for quick connection to Optimate by plug and socket, Includes weatherproof fuseholder on positive lead.

Ref: SAE71 £12.00



### Charge cable extender.

1.8 metre cable fitted with plug and socket for connecting between Optimate lead and battery connection leads.

Ref: SAE63 £14.00



### TM to SAE converter lead.

Connects pre-2012 Optimate with white block connector to new style accessories with SAE bullet type connector.

Ref: SAE17 £8.00



## 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 £30.34



## Inverter For running 240 volt appliances (drills, lights etc) from one or more 12 volt batteries.

Protected against overload, over temperature, short circuit over-voltage and low battery. Fitted with 4mm socket screw connections and includes 0.5M cable with crocodile clips and 0.5M cable with cigarette lighter plug. DC input voltage range is 10-15V. Output is modified sine wave 230V 50hz.

Ref RINV500 £54.50



## 12V Solar Power Battery Maintainer



12V 2.4w for cars & leisure batteries up to 110Ah. Durable water resistant casing. Complete with suction cups for windscreen mounting. 12VDC power plug, battery clips & 2.7 metre lead supplied. Current (at max power 138mA) Dims: 352x214x14mm. Weight 1150g.

Ref: RSP240 £39.84

12V 1.5w for small cars & leisure batteries up to 50Ah. Durable water resistant casing. Complete with suction cups for windscreen mounting. 12VDC power plug, battery clips & 2.7 metre lead supplied. Current (at max power 86mA) Dims: 352x125x14mm. Weight 670g.

Ref: RSP150 £26.32

# 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**

## Gas powered multi-purpose kit



70 watt 4-in-1 butane powered. Kit comprises of: Gas powered soldering torch with pointed solder tip, hot air blower tip, cap with lighter, tube of solder and cleaning sponge. Supplied in a tough storage case.

Ref: SP70K **£62.10**

## Soldering iron



240v  
Overall length: 217m

Ref.	Wattage	Each
6209	25W	<b>£10.26</b>
6210	40W	<b>£11.20</b>
6211	100W	<b>£17.18</b>

## 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**



## De-soldering tool



Removes molten solder from joints. Spring loaded plunger with removable nozzle.

Ref: N40CH **£9.90**

## 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 **£3.00**

Reel of 1/2kg (approx 61M)

Ref: SOL50 **£23.78**



## Soldering flux

Fluxite soldering paste. Contains zinc and ammonium chlorides in petroleum grease. 100 grams.

Ref: 61300 **£22.34**



## Tinmans solder

BS219, grade D.  
30% tin, 70% lead.  
Approx 9 x 9 x 350mm.

Ref: 46800 **£13.96 Ea**



## 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.

Ref: 45099 **£20.64**



# Tools & Haynes Manuals

## Feeler gauges



Imperial feeler gauges. 10 blade. 0.002"-0.025".

Ref: 101002A £4.82

Metric feeler gauges. 10 blade. 0.04 - 0.63mm

Ref:101006A £4.82

Combination feeler gauges. 16 blade. Imperial sizes 0.002-0.015"

Metric sizes 0.05-0.38mm

Ref:101001A £4.82

## Universal oil filter wrench



Removes all oil filters from 66 -102 mm diameter. For use with 1/2" or 3/8" drive or 21mm spanner.

Ref:OFWUNI £15.98

## 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

## Circlip plier set 5 pce



Chrome vanadium steel construction. For insertion & removal of both internal & external circlips.

1 x handle with 4 interchangeable heads. Features 2 x straight, 1 x 45° and 1 x 90° heads. Ergonomic polypropylene handle with slip guards.

Ref: 5554 £7.11

## Circlip kit



### 255 Piece circlip pack

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

Ref: CCP £7.04

## 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.

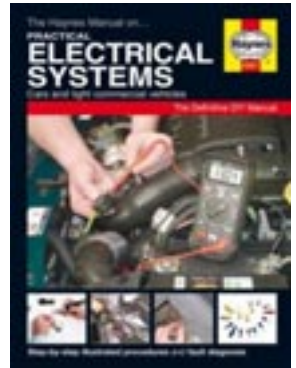
Ref: GE92 £14.66

## Haynes manuals

The following editions of the popular Haynes series of manuals are supplied in paperback.

**No VAT charged on manuals.**

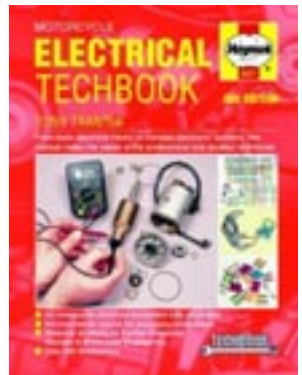
### Practical Electrical Systems



Ref: 4267 Understanding, testing and repairing car electrical systems & components.

Step by step instructions, 100's of photos and illustrations to guide you through each job. The definitive D.I.Y. electrical manual. £24.00

### Motorcycle electrical techbook



Ref: 3471 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. £28.50

# Tools

## 9" locking wire pliers



9" safety locking wire pliers.

Ref: LSWPLIER **£29.90**

## Stainless steel locking wire



Stainless steel locking wire.  
0.7mm dia x 30 metres.

Ref: GPRWIRE **£8.38 (30metres)**

## 33 piece 1/4" hex security bit set



Security bit set contains bits for use on common types of tamper proof fasteners. Includes extra bit holder for use as lid or additional bit storage.

Ref: 2267 **£8.19**

## Precision screwdriver set



Swivel heads for ease of use.

Contains Phillips no. 1-1, 1-2, 0, & 0-2  
Slotted 1, 1.4, 2.2, 4.3, 3.8mm Hex 1.5,  
2, 2.5 Nut driver 3.4, & 5mm.

In storage case. Ref: JSS **£5.10**

## 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**



## Aluminium Rivets



### Standard rivets.

Ref.	Size.	10	100
371460	3.2mmx6mm	<b>£1.00</b>	<b>£5.25</b>
572560	4.0mmx10mm	<b>£1.00</b>	<b>£5.25</b>
ABR508	4.8mmx12mm	<b>£1.00</b>	<b>£6.87</b>
ABR509	4.8mmx18mm	<b>£1.25</b>	<b>£9.39</b>

### Large flange rivets.

Ref.	Size.	10	100
ABR511	4.8mmx12mm	<b>£1.14</b>	<b>£8.58</b>

## 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 **£21.02**

## Rivet washers

1/8" I.D. 1/2" O.D.  
20swg steel.

Ref: W66 **£1.00(10).**  
**£9.78(200)**



## Magnetic pick-up tool



Powerful magnet. Telescopic shaft.  
Length ; 490mm extended,  
115mm retracted.

Ref: 5537 **£3.39**

## 45° long nosed pliers



45° extra long nose pliers.  
Length: 280mm.

Ref: 1022 **£9.64**

## Telescopic mirror



30mm dia mirror on swivel joint.  
Handle extends to 550mm.

Ref: 5579 **£3.48**

## Drill gauges

Metric 1mm to 13mm Ref: DG2 **£5.04**  
Imperial 1/16" to 1/2" Ref: DG1 **£5.04**  
Tempered stainless steel



# Tools

## Motorcycle carburettor synchronizers

Contain vacuum gauges, mounting plate, valves, hoses and extension probes.



2 cylinder carburettor synchronizer.  
Ref: **VGA2 £39.98**



4 cylinder carburettor synchronizer.  
Ref: **VGA4 £65.98**

## Heavy duty chain breaker



Suitable for all motorcycle chains.  
Ref: **CHBHDCH £35.98**



Spare pin for  
CHBHDCH (above).  
Ref: **CHBHDP £1.58ea**

## Cable lubricator



Colour: black & gold.  
Ref: **CLBBLK £7.98**

## Chrome tyre valve caps



A pair of Chrome tyre valve caps with  
rubber seal.  
Ref: **VCPRNDCH £3.98**

## Motorcycle tyre lever



Flat tyre lever. Length 250mm.  
Drop forged steel.  
Ref: **TYLF £5.98 ea**

## Motorcycle spring tool



Universal tool for spring removal.  
Length 170mm. Plated finish.  
Ref: **MSH £6.14**

## Third hand tool



"Third hand tool" with 60mm dia  
magnifying glass. Features  
adjustable joints, strong crocodile  
clamps and cast iron base.

Ref: **8605 £5.42**

## Spark plug gap tool



Double headed spark plug coin tool.  
Imperial on one side, and metric on  
the other. With gap opener.

Ref: **SGT £3.75**

## Timing disc



Timing disc in PVC marked in  
degrees for accurate timing.  
Dia 190mm

Ref: **W29046 £6.50**

## Motorcycle rim protectors



Protect wheel rim from  
damage when using tyre levers.

Ref: **RIMPRO £7.50 pair**

# Test Equipment

## Pocket multimeter



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

**Ref: 79800. £28.02**

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

Spare leads for 79800.

**Ref: 79896 £11.62**

## Induction ammeters

Clip on to outside of cable giving a 'hands free' operation. A scale shows approximate current and direction of flow.



**Ref: 53475 75amp £32.70**

**Ref: 53430 30amp £31.52**

## Pocket multimeter



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

## Battery, bulb & fuse tester

Checks power of most 1.5-9v batteries.  
Tests fuses and bulbs  
Easy to read meter.  
Requires a 9v battery (not supplied)

**Ref: FTB £9.50**



# Test Equipment & Inspection Lights

## Circuit testers



Checks 6,12 & 24v circuits. Bulb lights when circuit is complete. Has a 1.5M rubber cable. Tester length 190mm.  
Ref: 53426 **£15.30**



Chromium plated brass body with insulation piercing contact point. Protective cap for probe. Range 6-24V DC. Bulb lights when circuit is complete. 750mm lead and crocodile clip.  
Ref: 101740A **£7.00**

## Mechanics stethoscope



2 piece 320mm probe for pinpointing worn bearings, engine faults, and other mechanical noises.  
Ref:STETH **£10.68**

## LED Pocket pen torch



A handy powerful torch. 8 LED's, 7 hours operating time, magnetic clip. Takes 3 x AAA batteries (included)

Ref: RIL50 **£5.70**

## 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 **£23.06**

## LED Headtorch



Bright headlamp with 50 lumen light output. The bright LED's produce a light that is closer to daylight, which is easier on human eyes and gives more details.  
Adjustable, secure strap keeps the torch in place.  
Moveable torch to point light where it is needed.  
Supplied with 3 x AAA batteries.  
Ref: RT5174 **£8.38**

## LED map light 12V



### Dual output, with red night light

12" flexistem.  
Integral 3 way switch. Switches between Off, 12 bright white LED's or 6 red dimmed LED's.  
Ref: 66913 **£39.20**

# Motorcycle Indicators

## Flexi-stem indicators



Flexi-stem universal indicators with 10mm mounting bolt (includes nut). Lens 60x44mm. E marked. 12V 10W bulbs fitted (for 6V use bulb ref 244).

Ref: **INDUFLBO. £24.98 pair**

Spare bulbs. 12V - Ref **245 42p**  
6V - Ref **244 57p**



Flexi-stem universal oval indicators. 10mm mounting bolt (includes nut). Lens 50x42mm. E marked. 12V 10W bulbs fitted (for 6V use bulb ref 244).

Ref: **INDUFLOW £24.98 pair**

Spare bulbs. 12V - Ref **245 42p**  
6V - Ref **244 57p**

## 12V Mini indicators



Black 40mm long stem with amber lens. Lens 55x38mm. 8mm fixing stud. E marked.

Ref: **INDMLBLK £14.98 per pair**

Spare bulbs **BLB03 £1.20 ea.**



Black 18mm short stem with amber lens. Lens 55x38mm. 8mm fixing stud. E marked.

Ref: **INDMSBLK £14.98 per pair**

Spare bulbs **BLB03 £1.20 ea.**



Black 40mm long stem mini with transparent lens and amber bulbs. Lens 55x38mm. 8mm fixing stud. E marked

Ref: **INDMLBKT £14.98 per pair**

Spare amber bulb 12v 23w Ref: **BLB07 £1.20 ea**

## Rubber stem 12V mini indicators



WE35071

Black rubber stems. Lens 58x38mm. 8mm fixing stud. **£11.90 per pair**

Long stem, 40mm. Ref: **WE35071**

Short stem, 19mm. Ref: **WE35070**

Spare bulbs 12v 23w Ref: **BLB03 £1.20 ea**



WE35070

## Cat eye 12V mini indicators



INDUCEBL

Universal cat eye mini indicators. E marked. Lens 48x28mm. 10mm fixing stud.

Black Ref: **INDUCEBL £14.98 pair**

Chrome Ref: **INDUCECH £14.98 pair**

Spare bulbs 12v 23w (BA9) **BLB03 £1.20 ea**



INDUCECH



# Motorcycle Indicators

## Fairing indicators 12V



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.**



Small oval slim fairing indicators. E approved. Includes bulb (BA15). Lens 70x35mm. 28mm dia fixing hole.

**Ref: INDFSLSA £14.98 per pair**

12v 23w (BA15) Ref: **BLB04 £1.40 ea.**

## LED indicators 12V



Long stem (38mm). **Ref: INDLED18.**



Short stem (20mm). **Ref: INDLED19.**

Lens dimensions: 50mm x 28mm. 8mm fixing hole. (Use with LED flasher unit. see page 40).

E marked. **£19.98 per pair**

## British type chrome indicators



**Ref: WL148 £21.90 per pair**

Stem length 125mm. Lens dia 65mm  
Fitted with 12V 21W bulb and one nut

Spare bulbs.  
12V - Ref: **382 40p**  
6V - Ref: **317 72p**



**Ref: WL149 £21.90 per pair**

Stem length 80mm. Lens dia 65mm  
Fitted with 12V 21W bulb and one nut

$\frac{7}{16}$ " unf nut, required if fitting in clearance hole. **Ref: B161 15p (ea)**

Spare lens for WL148 or WL149.  
**Ref: WLE018 £3.90 (ea)**

## Indicator resistor



For use if replacing a bulb type indicator with an LED one using existing flasher relay. Simply connects into the LED indicator wiring. 12V 25W. Requires one per LED lamp.  
**Ref: WRELED04 £11.98**

## Complete motorcycle indicator kits



Complete kit for replacing, modifying or installing for the first time on a motorcycle/moped. Available with round or square lens lamps. The kit comprises of : 2 x pairs of flexi-stem indicators with 10mm mounting bolt. (Includes nut) E-Marked. Supplied with bulbs. (see page 88) Wiring kit comprises of : handlebar switch, flasher unit, cable, sleeving, terminals, fuse & fuse holder, and full instructions. Kits are available in 6 volt or 12 volt. Square lens measures 60mm x 44mm

12 Volt - **Ref: FLBOK12 £74.60** 6 Volt - **Ref: FLBOK6 £75.04**

Oval lens measures 50mm x 42mm

12 Volt - **Ref: FLOVK12 £74.60** 6 Volt - **Ref: FLOVK6 £75.04**

## Indicator wiring kit



Suitable for any motorcycle or moped that has a battery fitted. Kit includes: handlebar switch, flasher unit, cable, sleeving, terminals, fuse and wiring instructions. (indicators not included).  
6V pack **Ref: INDWP6 £28.26**  
12V pack **Ref: INDWP12 £28.26**

# Motorcycle Stop Lights & Switches

## Replica rear lamp

Replica of Wipac type S446. 12V.  
Double contact, stop & tail light.

**Ref: W19031 £19.90**

Spare bulbs  
12V 21/5W **Ref: BLB02 £1.40**  
6V 21/3W **Ref: 13047 90p**  
Spare lens **Ref: W19030 £5.00**



## Replica rear lamps

Replaces British pre 1963.  
Fitted with 12V 21/5W bulb  
**Ref: RL011 £9.00**

Spare bulbs:  
12V 21/5W **Ref: 380 42p**  
6V 21/5W **Ref: 384 74p**  
Spare lens **Ref: W19037 £4.87**



Replica of original Miller stop/tail lamp  
as fitted to Vincent B & C models.

Fitted with 12V bulbs , 23 & 5w  
**Ref: W19233 £23.90**

Spare bulbs  
12V 23W **Ref: BLB04 £1.40** 5W **Ref: 207 38p**  
6V 10W **Ref: 244 57p,** 5W **Ref: 205 53p**



Replica of Miller n° 38ET.  
Fits most Velocettes 57-67 and  
Royal Enfield 150cc 1957 on.  
Fitted with 6V 21/5W bulb

**Ref: W19236 £13.90**

Spare bulbs:  
12V 21/5W **Ref: 380 42p**  
6V 21/5W **Ref: 384 74p**



Replica of Lucas MT110.  
converted to stop/tail. Fits many  
models 1930-50.

Fitted with 12V 21/5W bulb  
**Ref: W19301 £20.90**

Spare bulbs  
12V 21/5W **Ref: BLB02 £1.40 ea.**  
6V 21/3W **Ref: 13047 90p**



Replica of Lucas MT211  
converted to stop/tail.  
Fits many models 1936-50.

**Ref: W19234 £20.90**

Spare bulbs  
12V 21/5W **Ref: BLB02 £1.40 ea.**  
6V 21/3W **Ref: 13047 90p**



## Classic round reflector

Chrome bezel 52mm diameter.  
Rear 5mm stud fixing with nut  
and washer.

**Ref: W19102 £9.00**



## 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**



## 12V Handlebar power outlet

12V power socket kit for  
motorcycle fitment. Accepts  
standard cigarette lighter size  
plug. Features weatherproof  
cap & cable seals to rear.  
Pre-wired fuse holder and  
15A fuse. Also includes quick  
connector allowing unit to be  
disconnected from battery  
when not in use.

**Ref: POWSUP11 £24.98**



## 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**



## Universal handlebar switches

Universal handlebar on/off  
switch. Fits 7/8" bars, cable  
length approx 60cm.  
Connections are 3.9mm  
Japanese bullet and socket.

**Ref: ESS £19.98**



Universal handlebar kill &  
off/low/high beam switch. Fits 7/8"  
bars. Cable length approx 40cm.  
Connections are 3.9mm Japanese  
bullets & sockets.

**Ref: EKLS £19.98**



# Motorcycle Switches

## Handlebar switches



**Handlebar switches**, for 22mm (7/8") bars.

1. Chromed horn push or cut-out.  
Black button earths the contact.. **Ref: SW1014B £10.00**
1. Red button, earths the contact... **Ref: SW1014R £7.50**
2. Chromed dip or on/off..... **Ref: SW1035 £8.85**
3. Chromed dip & horn..... **Ref: SW1049 £11.25**
4. Chromed lights/horn/cutout or indicators/horn/cutout..... **Ref: SW1036 £20.97**
5. Waterproof kill button, earths the contact, rubber cover over the button..... **Ref: SW1002 £9.00**
6. Chromed, indicators, or on/off/on. **Ref: SW1169 £13.90**

## 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**



Replica Wipac S2370 stop light switch. Pull to make contact. Connections are made using 2 x NCB2 hollow bullets (page 27)

**Ref: W11044 £25.90**



Universal, with spring & hook. Gives contact when spring is pulled

**Ref: 180008 £12.81**



Gives contact when plunger is released.

**Ref: 431100 £5.52**



Rubber cover for 431100 and 180008 stop lamp switches above.

**Ref: 54049 £2.28**



## Replica stop lamp switches



Lucas replica.  
(pull for on).  
**Ref: SW1120 £15.90**

**W10141**



Lucas replica. Fits BSA, Triumph triples, Norton commando & Triumph 750 twins.  
**Ref: W10141 £9.90**

## Front stop lamp switches

Honda type front stop light switch with 4.8mm blade terminals.

**Ref: SSHF01 £11.98**



Honda/Kawasaki type front stop light switch with 4.8mm blade terminals.

**Ref: SSHF02 £8.98**



## 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 Lucas type U39 headlamp switch. Off/low/high. Used on most models with DC magneto ignition. Supplied with mounting clip

**Ref: W10114 £31.90**



Spare mounting clip for W10114 switch above.

**Ref: W10115 £2.00**



Replica of Wipac Ducon switch. Dip/main beam and horn switching. Fit 7/8" bars.

**Ref: W10128 £19.00**



Replica of Wipac Tricon switch. Dip/main beam, horn and stop switching. Cable length 40cm Fit 7/8" bars.

**Ref: W10129 £25.90**



# Motorcycle Parts

## Handlebar grips

### Replica Amal grips 7/8"

Ref:W84042 £7.90 pair

### Foam Grips Black.

Dampens out the vibrations providing extra comfort. Includes end plugs. 125mm long. Fits 7/8" bars Ref:GRPFBLK £7.98 pair.

### 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 pair.

### Standard twistgrip 7/8"

Twistgrip complete with amal grips.

Ref:W83124 £18.90

Use ferrule F35 and BN57555 nipple

## Heated Motorcycle Grips

Multi-setting adjustable heated grip set, 22mm diameter left / 25mm right. Four heat settings via micro button control box. Supplied with fused battery connection wiring, bar end plugs, fittings for control box and full installation instructions.

Ref: GRPHT11 £37.98

## Ammeters

Motorcycle ammeter 12-0-12 amps.

Body dia 40mm, bezel 46mm.

Ref: 19019 £21.90

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

## Motorcycle fuel tap & spigots

Chrome flat lever fuel tap. On/off with filter. Fits 1/4" x 1/4". Ethanol resistant. Ref: W73091 £15.90

### Nut/spigot for W73091 fuel tap

1/4" Ref: W73022/27 £4.00

### Angled Nut/spigot for W73091 fuel tap

1/4" Ref: W73051 £8.50



## Universal levers for 7/8" bars

Alloy levers with mirror boss.

Ref: LVR2LNG £29.98 pair

Use nipple BN89L

Use ferrule F100



British type clutch. Chromed steel.

Ref: LVR5CL £13.90 ea

Use nipple BN1010L

Use ferrule F100



British type brake. Chromed steel.

Ref: LVR5BR £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



## Magneto advance grommet

Magneto advance cable grommet, fits Triumph/BSA.

Ref: W61146 £1.90



## Decompressor lever

7/8" ball ended.

Ref:W83011 £13.90

Use nipple BA5 & ferrule F1



## Motorcycle tax disc holder

Stainless steel licence holder.

Ref:W85053 £13.90



## Footrests

Universal folding footrest.

Bolt length 55mm

Ref:FRU10MM £14.98 pair



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



# Control Cable Parts

## Control cables and nipples



### Inner wire.

Ref.	Dia.	Metre
GWS0	1.18mm	<b>88p</b>
GWS1	1.50mm	<b>88p</b>
GWS2	2.00mm	<b>£1.06</b>
GWS2A	2.25mm	<b>£1.04</b>
GWS3	2.50mm	<b>£1.38</b>
GWS4	3.00mm	<b>£1.45</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>£6.07</b>
LB2NS	GWS1/2	2.8mm	6mm	<b>£6.23</b>
LB3NS	GWS2/2A	3.75mm	7mm	<b>£6.82</b>
T4NS	GWS3/4	4.75mm	9mm	<b>£8.23</b>

### Ferrules.

Ref.	To Suit	Ea.	10
F1	LB1NS	<b>58p</b>	<b>£4.34</b>
F35	LB2NS	<b>58p</b>	<b>£4.34</b>
F100	LB3NS	<b>76p</b>	<b>£6.84</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 £123.27**



## Barrel nipples



Ref.	Dia.	Length.	Max wire	Ea.	10
1. BN6	4.5mm	4.5mm	GWS1	<b>41p</b>	<b>£2.80</b>
2. BN610	6mm	9.5mm	GWS2	<b>41p</b>	<b>£2.80</b>
3. BN575	5mm	7.5mm	GWS1	<b>42p</b>	<b>£3.78</b>
4. BN57555	5.75mm	5.5mm	GWS1	<b>60p</b>	<b>£4.50</b>
5. BN89L	8mm	9mm	GWS4	<b>55p</b>	<b>£4.86</b>
6. BN1010L	10mm	10mm	GWS4	<b>58p</b>	<b>£4.34</b>
7. BN1013L	9.5mm	13mm	GWS4	<b>61p</b>	<b>£4.69</b>

## Solderless nipples



Ref.	Size(DxL)	Fixing type	Max wire	Ea.	10
1. BNS575	5.5x7.2mm	Screw	GWS2	<b>74p</b>	<b>£6.66</b>
2. BNS6	6x10mm	Screw	GWS2	<b>£1.23</b>	<b>£10.60</b>
3. BNS8	8x13mm	Hex nut	GWS3	<b>£1.01</b>	<b>£8.43</b>

## Nipple for air/magneto levers



Ref.	Type	Dia.	Length	Max wire	Ea.	25
W81620	Drum	1/4"	1/8"	GWS1	<b>£2.22</b>	<b>£46.07</b>

## Nipple for exhaust lifter handlebar levers etc



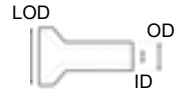
Ref.	Type	Dia.	Max wire	Ea.	10
BA5	Ball	5mm	GWS1	<b>29p</b>	<b>£2.25</b>

## Nipple for carburettor air & throttle slides



Ref.	Type	Dia.	Length.	Max Wire	Ea.	10
EE7	Tube	3mm	3mm	GWS1	<b>22p</b>	<b>£1.50</b>

## Nipples, pear



Ref.	Max wire	LODxODxID	Length	Ea	10
1. W81625	GWS1	5.5x3.5x1mm	8mm	<b>95p</b>	<b>£8.15</b>
2. TN24	GWS2	6x3.5x2mm	10mm	<b>43p</b>	<b>£3.42</b>
3. TN17	GWS2A	8x4.5x2.5mm	12mm	<b>62p</b>	<b>£5.58</b>

## Control cable junction box

Used to link 2 carburetors 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 £3.60**

3. Control cable adjuster screw M6 1.0mm x 32mm length. Suitable for F35 ferrule Ref: **A632 £1.70**

4. Midway control cable adjuster. 20mm long. Suitable for F35 ferrule.

Ref: **A675B £2.70**

5. Control cable adjuster screw. M6 1.0mm x 25mm length. Suitable for F35 ferrule. Ref: **A625 £1.70**

6. Cable adjuster locknut.

M6 x 1.0mm fits adjusters as listed above. Ref: **LN610 18p each**



## Control cable adjuster boot

Neoprene boot for protecting cable adjusters. 8mm bore, 47mm long.

Ref: **ADJB £2.92**



## Control cable separator

Chrome control cable separator. 8mm holes.

Ref: **CBSTCH £6.98**



# Motorcycle Cable Kits & Misc Items

## 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 £18.74



### Workshop 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. Additional fittings, conduit and wire can be purchased separately as required.

Ref: VWK002 £45.46



## 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 £14.86



### 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. Additional fittings, conduit and wire can be purchased separately as required.

Ref: VWK003 £34.75



## Emergency cable repair kit

Repair kit comprising throttle & clutch inner cables, each one 1.63M long. Also includes solderless & trumpet nipples which can be crimped with pliers. All supplied in a robust nylon bag.

Ref: VWK001 £14.02



## Rubber hooks

Rubber hooks with hinged bracket one end, other end stretches over hooked metal bracket.

Large; 120mm long

Ref: LMA256 £7.56 pair

Small; 65mm long

Ref: LMA257 £7.08 pair



## Overcentre toggle latch



LMA289



LMA243

Lockable toggle latch. (7mm dia hole for padlock) Length including bracket 75mm

Ref: LMA289 £11.12 pair

Toggle latch. Length including bracket 85mm.

Ref: LMA243 £10.20 pair

## Folding luggage hooks

Universal fold away plastic bungee hooks with mounting bolts.

Dims (folded) 36x28x10mm.

Ref: LUGHOOK £7.98 pair



## Self adhesive velcro tape

25mm wide.

Hook tape. Ref: VC441 £1.73(M) £33.66(25M)

Loop tape. Ref: VC442 £1.65(M) £33.66(25M)



## 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





When placing an order please state your customer number

If the name or address is not correct please advise us.

**Customer number**