AUTO ELECTRIC SUPPLIES LTD

AUTO ELECTRICAL WIRING PRODUCTS FOR MODERN, CLASSIC & VINTAGE VEHICLES

ISSUE 9 JANUARY 2018

Telephone: 01584 819552 **Fax:** 01584 819355 **Email:** info@autoelectricsupplies.co.uk
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www.autoelectricsupplies.co.uk

CABLE & CABLE ACCESSORIES

• Cable *(PVC, Thin Wall, Braided, Multicore, Ignition, Tinned Core, Battery, Speaker, etc)* • Sleeving *(PVC, Heat-Shrink, Temperature Resistant, Braided, Convoluted, Spiral Binding)* • Cable Markers • Cable Fixing *(P-Clips, Chassis Clips, Cable Ties)* • Grommets • Tape •

TERMINALS & CONNECTORS

• Non-Insulated & Insulated *(Blades, Rings, Flags, Sleeves, Bullets, Forks, Piggy Back, etc)* • Self-Stripping Connectors • Heat-Shrink Terminals • Mate-N-Lok Connectors *(Universal, Mini, 3.5mm)* • 6.3mm Blade Connectors • Waterproof Connectors *(Econoseal & Superseal)* • Terminal Blocks • Junior Power Timer • Cable Connectors •

IGNITION & BATTERY ASSOCIATED PRODUCTS

• Spark Plug Terminals & Covers • Plug Caps & Suppressors • Distributor Terminals & Covers • Ignition Coils • Acorns • Condensors • Battery Accessories • Battery Clamps & Covers • Battery Terminals • Pre-Formed Battery Cables • Power Connectors • Isolator Switches • Starter/Solenoid Switches •

SWITCHES, RELAYS & FUSING

• Switches *(Toggle, Push/Pull, Door, Push Button, Indicator, Rotary, Dip, Key, Rocker, Brake Light)* • Switch Panels 6V & 12V Relays • Relay Sockets • Flasher Units • Fuse Boxes • Fuse Holders • Fuses *(Blade, LED, Mini, Maxi, Continental, Glass, Strip, PAL)* • Circuit Breakers •

LIGHTING

• Bulbs *(Miniature, Indicator/Side, Stop/Tail, Capless, Headlamp, Marchal, LED, Festoon)* • Bulb Holders • Headlamp Connectors • Headlamp Units, Parts & Harnesses • Lamps *(Indicator, Interior, Side, Rear, Reversing, Rear Fog, Number Plate, Multi-Function)* • Reflectors • Lamp Spares •

ACCESSORIES

• Warning Lamps • Fuel Solenoid Valve • Cigar Lighters & Brackets • DIN Sockets & Plugs • Junction Boxes • Wiper Motors • Washer Pumps & Bottles • Horns • Buzzers • Fuel Pumps • Voltage Stabilisers • Diodes • Dynamos, Pulleys, Fans & Brushes • Regulators • Towing Equipment *(Plugs & Sockets, Gaskets & Mounting Plates, Relays)* •

WORKSHOP

• Kits *(Terminal, HT, Heat-Shrink, Grommet, Fuse, P-Clip, Mate-N-Lok, Multiple Connector, Indicator/Hazard)* • Tools (*Crimping, Bullet Inserting, Cable Stripping, Cutters, etc)* • Soldering *(Irons, Flux, Solder, Spares, Accessories)* • Testing Equipment *(Charging Tester, Circuit Testers, Induction Ammeter)* • Battery Conditioner •

HOW TO ORDER

ONLINE:	www.autoelectricsupplies.co.uk
TELEPHONE:	01584 819552 *(Monday to Friday, 9am to 5pm)*
FAX:	01584 819355
POST:	Auto Electric Supplies Ltd 11 Cross Street, Tenbury Wells WR15 8EF
EMAIL:	info@autoelectricsupplies.co.uk
PAYMENT BY:	**Credit Card** or **Debit Card** **PayPal** - paid to: ***aesaccounts@gmail.com*** **Cheque** - made payable to: ***Auto Electric Supplies Ltd*** **Bank Transfer** - Account Name: ***Auto Electric Supplies Ltd*** Account No: ***13996719*** Sort Code: ***20-39-64*** IBAN: ***GB73BARC20396413996719*** SWIFT/BIC: ***BARCGB22***

Please see p131 for 'Delivery' options and details.

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Specialist Historic and Vintage Vehicle Electricians

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Email: vehiclewiring@googlemail.com

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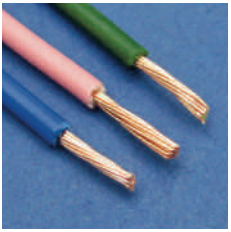
STANDARD PVC CABLE

010101

Capacity:	5.75A
Cable OD:	2.3mm
Cable Size:	9/0.30
Conductor Area:	0.65mm²

Typical Uses

Side/Tail Lamps
Indicators

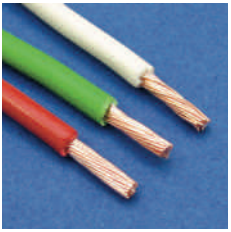


010102

Capacity:	8.75A
Cable OD:	2.6mm
Cable Size:	14/0.30
Conductor Area:	1.0mm²

Typical Uses

Side/Tail Lamps
Indicators
Fog Lamps
General Wiring

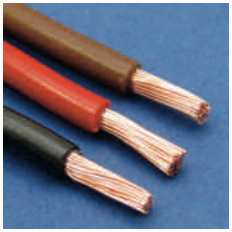


010103

Capacity:	17.5A
Cable OD:	3.3mm
Cable Size:	28/0.30
Conductor Area:	2.0mm²

Typical Uses

Head Lamps
Wipers
Screen Heaters
Petrol Pumps

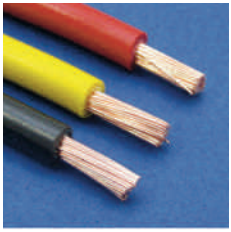


010104

Capacity:	27.5A
Cable OD:	3.7mm
Cable Size:	44/0.30
Conductor Area:	3.0mm²

Typical Uses

Charging Circuits
Main Feeds

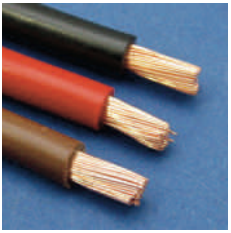


010105

Capacity:	35A
Cable OD:	5.0mm
Cable Size:	65/0.30
Conductor Area:	4.5mm²

Typical Uses

Heavy Duty Charge Circuits
Alternator Feeds

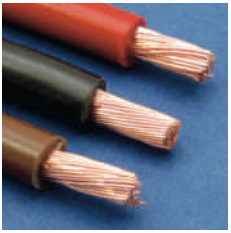


010106

Capacity:	42A
Cable OD:	5.7mm
Cable Size:	84/0.30
Conductor Area:	6.0mm²

Typical Uses

Heavy Duty Charge Circuits
Alternator & Battery Feeds

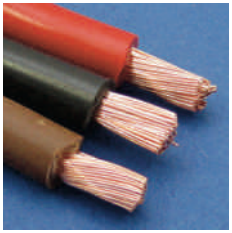


010107

Capacity:	50A
Cable OD:	6.2mm
Cable Size:	97/0.30
Conductor Area:	7.0mm²

Typical Uses

Heavy Duty Charge Circuits
Alternator & Battery Feeds

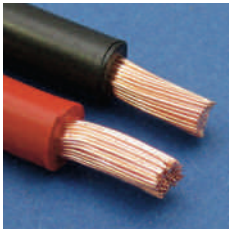


010108

Capacity:	60A
Cable OD:	7.0mm
Cable Size:	120/0.30
Conductor Area:	8.5mm²

Typical Uses

Heavy Duty Charge Circuits
Alternator & Battery Feeds



010109

Capacity:	70A
Cable OD:	7.5mm
Cable Size:	80/0.40
Conductor Area:	10.0mm²

Typical Uses

Heavy Duty Charge Circuits
Alternator & Battery Feeds

Part No.	*Current (A)*	*per m*	*per 30m*	*per 50m*
010101	5.75	£0.29	-	£9.50
010102	8.75	£0.35	-	£12.89
010103	17.5	£0.49	-	£21.79
010104	27.5	£0.69	-	£29.92
010105	35	£1.00	£26.93	-
010106	42	£1.45	£39.12	-
010107	50	£1.73	£47.36	-
010108	60	£1.93	£52.16	-
010109	70	£2.20	£60.48	-

General purpose low voltage cable for use in automotive and marine applications in temperatures up to 70 °C. Consists of conductors of stranded copper wire which are PVC insulated. “Cable Size” gives the number and size of cable strands, for example 14/0.30 refers to 14 strands of 0.30mm diameter cable. “Conductor Area” gives the total cross-sectional area of conductor, eg. 1.0mm². Where two colours are indicated (eg. Blue/Black), the first is the main cable colour and the second is the tracer colour (the stripe).

COLOURS AVAILABLE:

010101
Black
Blue
Brown
Green
Grey
Light Green
Orange
Pink
Purple
Red
White
Yellow

Black/Blue
Black/Green
Black/Red
Black/Yellow

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

Brown/Black
Brown/Green
Brown/Red
Brown/White
Brown/Yellow

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

Purple/Black
Purple/White

Red/Black
Red/Green
Red/White
Red/Yellow

White/Black
White/Blue
White/Brown
White/Green
White/Red

Yellow/Black
Yellow/Blue
Yellow/White

010102
Black
Blue
Brown
Green
Grey
Light Green
Orange
Pink
Purple
Red
White
Yellow

Black/Blue
Black/Green
Black/Red
Black/Yellow

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

Brown/Black
Brown/Green
Brown/Red
Brown/White
Brown/Yellow

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

Purple/Black
Purple/White

Red/Black
Red/Green
Red/White
Red/Yellow

White/Black
White/Blue
White/Brown
White/Green
White/Red

Yellow/Black
Yellow/Blue
Yellow/White

010103
Black
Blue
Brown
Green
Grey
Light Green
Orange
Pink
Purple
Red
White
Yellow

Black/Green
Black/Red
Black/White

Blue/Green
Blue/Orange
Blue/Red
Blue/White
Blue/Yellow

Brown/Blue
Brown/Red
Brown/White
Brown/Yellow

Green/Black
Green/Red
Green/White
Green/Yellow

Purple/White
Purple/Yellow

Red/Black
Red/Blue
Red/Brown
Red/White

White/Red

Yellow/Black
Yellow/Brown
Yellow/Red
Yellow/White

010104
Black
Blue
Brown
Red
Yellow

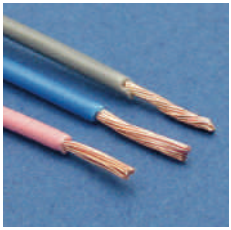
Brown/Yellow

010105
Black
Brown
Red
Yellow

010106/07/08
Black
Brown
Red

010109
Black
Red

STANDARD THIN WALL CABLE

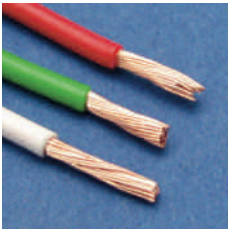


010701

Capacity:	11A
Cable OD:	1.6mm
Cable Size:	16/0.20
Conductor Area:	0.5mm²

Typical Uses

Instrument Wiring
Warning Lamps
Low Current Applications

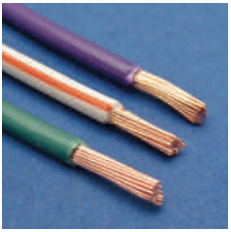


010702

Capacity:	16.5A
Cable OD:	2.0mm
Cable Size:	32/0.20
Conductor Area:	1.0mm²

Typical Uses

Side/Tail Lamps
Indicators
Fog Lamps
Dashboard Wiring

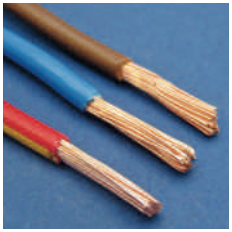


010703

Capacity:	25A
Cable OD:	2.7mm
Cable Size:	28/0.30
Conductor Area:	2.0mm²

Typical Uses

Head Lamps
Wipers
Screen Heaters
Petrol Pumps

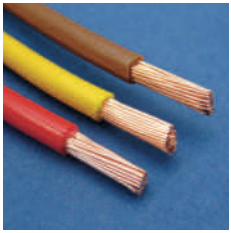


010704

Capacity:	33A
Cable OD:	3.3mm
Cable Size:	44/0.30
Conductor Area:	3.0mm²

Typical Uses

Charging Circuits
Main Feeds
Additional Battery Circuits
Dynamo Feeds

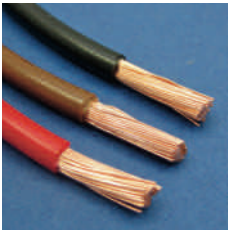


010705

Capacity:	39A
Cable OD:	3.7mm
Cable Size:	56/0.30
Conductor Area:	4.0mm²

Typical Uses

Heavy Duty Charge Circuits
Alternator Feeds
Fuse Board Feeds

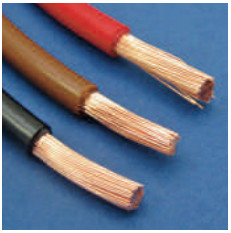


010706

Capacity:	50A
Cable OD:	4.3mm
Cable Size:	84/0.30
Conductor Area:	6.0mm²

Typical Uses

Heavy Duty Charge Circuits
Alternator & Battery Feeds

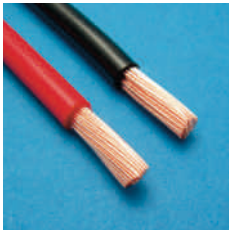


010707

Capacity:	63A
Cable OD:	5.6mm
Cable Size:	120/0.30
Conductor Area:	8.5mm²

Typical Uses

Heavy Duty Charge Circuits
Alternator & Battery Feeds



010708

Capacity:	70A
Cable OD:	5.6mm
Cable Size:	80/0.4
Conductor Area:	10mm²

Typical Uses

Heavy Duty Charge Circuits
Alternator & Battery Feeds

Part No.	*Current (A)*	*per m*	*per 30m*	*per 100m*
010701	11	£0.26	-	£11.53
010702	16.5	£0.32	-	£17.50
010703	25	£0.47	-	£34.44
010704	33	£0.67	£18.02	£55.60
010705	39	£0.94	£23.62	£70.86
010706	50	£1.31	£34.39	£103.11
010707	63	£1.84	£49.61	-
010708	70	£2.25	£60.75	-

Thin Wall Cable Bundle available - see page 9.

Thin wall low voltage cable is suitable for use in automotive and marine applications. It consists of conductors of stranded copper wire which are hard grade PVC insulated. Compared to standard PVC cable, the reduced insulation thickness and higher current capacity greatly reduces weight and volume. For these reasons, this cable is today used in preference to standard PVC cable by vehicle manufacturers.

Good resistance to petrol, diesel and abrasion. Suitable for use from -40°C to +105°C. “Cable Size” gives the number and size of cable strands, for example 16/0.20 refers to 16 strands of 0.20mm diameter cable. “Conductor Area” gives the total cross-sectional area of conductor, eg. 1.0mm². Where two colours are indicated (eg. Blue/Black), the first is the main cable colour and the second is the tracer colour (the stripe).

COLOURS AVAILABLE:

010701
Black
Blue
Brown
Green
Grey
Orange
Pink
Purple
Red
White
Yellow

010702
Black
Blue
Brown
Green
Grey
Light Green
Orange
Pink
Purple
Red
White
Yellow

Black/Blue
Black/Green
Black/Grey
Black/Pink
Black/Purple
Black/Red
Black/White
Black/Yellow

Blue/Black
Blue/Orange
Blue/Pink
Blue/Red
Blue/White
Blue/Yellow

Brown/Black
Brown/Green
Brown/Red
Brown/White
Brown/Yellow

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

Grey/Black
Grey/Green
Grey/Orange
Grey/Red
Grey/White
Grey/Yellow

Pink/Black
Pink/Red
Pink/White
Pink/Yellow

Purple/Black
Purple/Brown
Purple/Green
Purple/Yellow

Red/Black
Red/Blue
Red/Green
Red/White
Red/Yellow

White/Brown
White/Orange
Yellow/Black
Yellow/Brown
Yellow/Red
Yellow/White

010703
Black
Blue
Brown
Green
Grey
Orange
Pink
Purple
Red
White
Yellow

Blue/Red
Blue/White
Blue/Yellow

Brown/Blue
Brown/Green
Brown/Red
Brown/White

Red/Black
Red/Blue
Red/Green
Red/Yellow

White/Brown
White/Orange

Yellow/White

010704
Black
Blue
Brown
Green
Grey
Orange
Purple
Red
White
Yellow

Brown/Blue
Brown/Green
Brown/Red

Red/Yellow

White/Black
White/Orange
White/Red

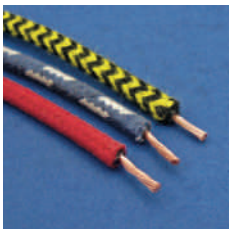
010705
Black
Brown
Red
Yellow

010706
Black
Brown
Red
Yellow

010707
Black
Brown
Red

010708
Black
Brown
Red

GENERAL PURPOSE BRAIDED CABLE



020101

Capacity:	8.75A
Cable OD:	3.7mm
Cable Size:	14/0.30
Conductor Area:	1.0mm²

Colours Available

Black
Blue
Brown
Green
Purple
Red
White
Yellow

Black/White Herringbone
Black/Yellow Herringbone

Blue/Red
Blue/White
Blue/Yellow

Green/Purple
Green/Red
Green/White

Purple/Black

White/Black

Yellow/Green

020102

Capacity:	17.5A
Cable OD:	4.2mm
Cable Size:	28/0.30
Conductor Area:	2.0mm²

Colours Available

Black
Blue
Brown
Green
Purple
Red
White
Yellow

Blue/Red
Blue/White
Blue/White Herringbone
Blue/Yellow

Brown/Blue
Brown/White

Green/Black
Red/Black
Red/Black Herringbone

White/Black
White/Black Herringbone

020103

Capacity:	27.5A
Cable OD:	4.7mm
Cable Size:	44/0.30
Conductor Area:	3.0mm²

Colours Available

Black
Blue
Brown
Green
Purple
Red
White
Yellow

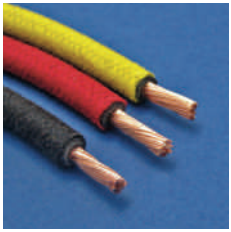
Blue/White Herringbone

Brown/Blue
Brown/White

Red/Black Herringbone

White/Red

Yellow/Black



020105

Capacity:	35A
Cable OD:	5.7mm
Cable Size:	65/0.30
Conductor Area:	4.5mm²

Colours Available

Black
Brown
Red
Yellow

Plain

Main Colour with Tracer

Herringbone

Braided cable is an authentic replacement cable for older vehicles such as classic and vintage cars. It is manufactured by braiding modern PVC cable and then lacquering. The cable therefore looks like the original but has the electrical and mechanical properties of modern cable.

- The colours listed are stock colours. Other colour combinations are available, subject to a minimum quantity of 30m. (Please call 01584 819552 or contact us by email).
- When two colours are indicated (eg. Blue/Red), the first is the main colour and the second is the tracer.
- Herringbone pattern cable can also be supplied.

Part No.	*Current (A)*	*per m*	*per 30m*	*per 50m*
020101	8.75	£0.81	-	£36.38
020102	17.5	£1.01	-	£45.21
020103	27.5	£1.34	-	£61.45
020105	35	£1.94	£54.52	-

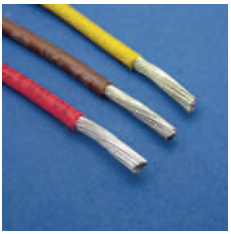
TINNED COPPER THIN WALL CABLE

010901

Capacity:	21A
Cable OD:	2.4mm
Cable Size:	21/0.30
Conductor Area:	1.5mm²

Colours Available

Black
Blue
Brown
Green
Red
Yellow

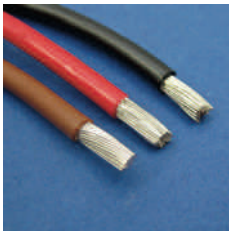


010902

Capacity:	29A
Cable OD:	3.0mm
Cable Size:	35/0.30
Conductor Area:	2.5mm²

Colours Available

Black
Blue
Brown
Green
Red
Yellow

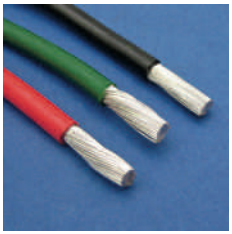


010903

Capacity:	39A
Cable OD:	3.7mm
Cable Size:	56/0.30
Conductor Area:	4.0mm²

Colours Available

Black
Brown
Green
Red

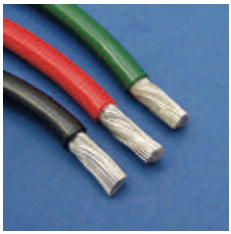


010904

Capacity:	50A
Cable OD:	4.3mm
Cable Size:	84/0.30
Conductor Area:	6.0mm²

Colours Available

Black
Green
Red



010905

Capacity:	70A
Cable OD:	6.0mm
Cable Size:	80/0.40
Conductor Area:	10mm²

Colours Available

Black
Green
Red

This cable is as per standard thin wall cable except the copper conductors are tin plated, making them more suitable for marine and other corrosive environments. “Cable Size” gives the number and size of cable strands, for example 21/0.30 refers to 21 strands of 0.30mm diameter cable. “Conductor Area” gives the total cross-sectional area of the conductor, eg. 1.5mm².

- Tinned copper conductors, PVC insulated
- Hard grade PVC insulation offers good resistance to abrasion and cut through
- For use at temperatures between -40 to +105°C, with excursions to +120°C
- Reduced insulation thickness gives savings in weight and volume
- Good resistance to petrol, diesel, oil and diluted acid
- Suitable for 12V and 24V systems (60V max)
- Manufactured in accordance with ISO6722:2006 (class B)

Part No.	*Current (A)*	*per m*	*per 30m*	*per 50m*
010901	21	£0.47	-	£18.90
010902	29	£0.69	-	£27.72
010903	39	£1.03	£26.78	-
010904	50	£1.38	£37.14	-
010905	70	£2.24	£62.90	-

CABLE BUNDLES (PVC & THIN WALL)

PVC Cable Bundle 1

A bundle of PVC cable containing 5 x 3m of 8.75A cable (010102), 3 x 3m of 17.5A cable (010103) and 2 x 3m of 27.5A cable (010104). Suitable for small wiring projects (colours may vary).

160118 £11.55

PVC Cable Bundle 2

A bundle of PVC cable containing 7 x 5m of 8.75A cable (010102), 4 x 5m of 17.5A cable (010103) and 2 x 4m of 27.5A cable (010104). Suitable for small to medium sized wiring projects. (Colours may vary).

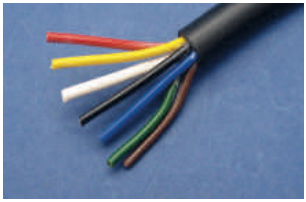
160119 £22.05

Thin Wall Cable Bundle

A bundle of cable containing 10 x 10m lengths of different colour 1mm² thin wall cable (010702). 100m in total.

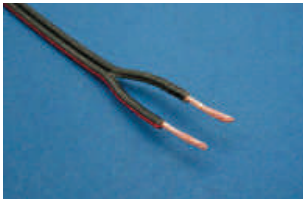
160122 £27.82

TRAILER CABLE / SPEAKER CABLE / EARTHING BRAID



Trailer Cable

Consists of a number of insulated single conductors sheathed in black PVC.



Speaker Cable

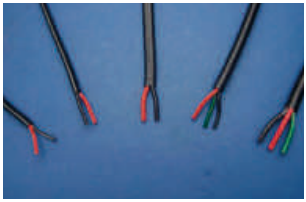
Twin flat, figure of eight cables, suitable for wiring speakers either in vehicles or buildings.

Earthing Braid

Tinned copper earthing braid, useful for making earth leads.

Part No.	*Cable*	*Current (A)*	*per m*	*per 30m*
Trailer Cable				
010301	7 x 9/0.30	5.75	£1.41	£33.77
010302	6 x 14/0.30 and 1 x 28/0.30	8.75/17.5	£1.92	£46.12
Speaker Cable				
011101	2 x 16/0.20	3	£0.35	£9.36
011102	2 x 24/0.20	6	£0.47	£12.76
011103	2 x 32/0.20	10	£0.61	£16.44
Earthing Braid				
010801	16 x 16/0.30 (19mm²)	130	£5.33	-
010802	16 x 32/0.30 (37mm²)	260	£11.53	-

MULTICORE CABLE



PVC Multicore Cable

Consists of PVC insulated single conductors sheathed in black PVC outer.

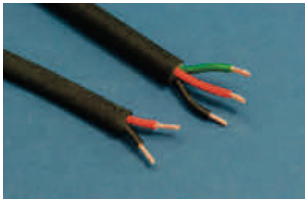
** Please note 010206 has a low current capacity and is suitable for items like tank senders, etc.*

Thin Wall Multicore Cable

A range of thinwall multicore cables, suitable for automotive use.

10 Core (010210)
9 x 1.0mm² (16.5A) and 1 x 2.0mm² (25A). 10.6mm OD. Core colours: black, red, green, grey, blue, yellow, brown, orange, purple, white (2mm²).

13 Core (010209)
12 x 1.5mm² (21A) and 1 x 2.5mm² (29A). 12mm OD. Core colours: yellow, blue, green, brown, red/black, black, red, pink, purple, grey, white, beige, orange (2.5mm²).

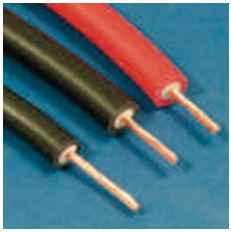


Braided Multicore Cable

PVC insulated single conductors sheathed in black PVC outer, braided in black cotton and lacquered.

Part No.	Cable	Current (A)	per m	per 30m
PVC				
010201	2 x 9/0.30	5.75	£0.62	£14.73
010202	2 x 14/0.30	8.75	£0.66	£15.55
010203	2 x 28/0.30	17.5	£0.98	£23.50
010204	3 x 14/0.30	8.75	£0.94	£25.52
010205	3 x 28/0.30	17.5	£1.89	£51.03
010206*	4 x 16/0.20	2.5	£1.73	£38.98 (25m)
010213	4 x 14/0.3	8.75	£1.26	£32.13
Thin Wall				
010742	4 x 32/0.2	16.5	£1.38	£32.38
010752	5 x 32/0.2	16.5	£1.65	£38.78
010209	12 x 21/0.3 + 1 x 35/0.3	21/29	£5.84	-
010210	9 x 32/0.2 + 1 x 28/0.3	16.5/25	£4.16	-
Braided				
020301	2 x 9/0.30	5.75	£2.24	£17.92 (10m)
020302	2 x 14/0.30	8.75	£2.37	£18.90 (10m)
020303	2 x 28/0.30	17.5	£2.68	£21.32 (10m)
020304	3 x 14/0.30	8.75	£2.70	£22.88 (10m)
020305	3 x 28/0.30	17.5	£3.20	£25.62 (10m)

IGNITION LEAD (HT CABLE)

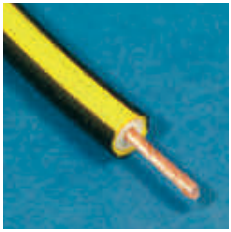


Standard PVC

PVC ignition cable. 16 x 0.30mm diameter copper conductors. Available as standard 7mm OD, or narrower 6mm OD. 010401 is available in either BLACK or RED, 010403 in BLACK only.

Silicone

Silicone outer available in BLACK or RED. White silicone core, with 19 x 0.25 (1.0mm²) tinned copper conductors. 7mm diameter. 35kV minimum breakdown voltage, -30°C to 155°C.



High Performance

High performance PVC HT cable having a core of 40 strands of 0.25mm (2.0mm²) copper. The outer PVC sheath is 7mm OD and is yellow with two black stripes.

Resistive Core

Ignition cable with a resistive carbon core for use where suppression is required. The cable can be terminated by folding the conductor beneath the terminal. Overall diameter 7mm. 35kV minimum breakdown voltage, -30°C to 155°C. Colour BLACK.

Braided

Copper cored braided HT cable, PVC insulated, available in black, red, green, yellow/black, red/yellow or red/black (other colours can be made on request). 7mm OD.

Part No.	Colour	OD (mm)	per m	per 30m	per 100m
Standard		*Available in BLACK or RED*			
010401	Black	7.0	£0.82	£19.27	£57.79
010401	Red	7.0	£0.82	£19.27	£57.79
010403	Black	6.0	£0.71	£19.28	-
Silicone		*Available in BLACK or RED*			
010402	Black	7.0	£1.67	£42.65	£133.79
010402	Red	7.0	£1.84	£46.90	£143.83
010407	Black	5.0	£1.47	£39.69	£117.60
High Performance					
010404	Black/Yellow	7.0	£1.72	£42.94	£90.39
Resistive Core		*Available in BLACK only*			
010405	Black	7.0	£1.59	£41.25	-
010406	Red	5.0	£1.58	£42.52	£126.00
Braided					
020401	Various (see above)	7.0	£2.45	£55.18 (25m)	-

BATTERY CABLE

Flexible

Flexible battery cable has many finer strands than the semi-rigid type. Consequently, it is far more flexible. Available in BLACK or RED.

Semi-Rigid

Semi-rigid battery cable. Older type, and fairly inflexible. Available in BLACK or RED.

Braided

Braided battery cable is modern PVC flexible battery cable that has been braided in black cotton and lacquered.

Tinned

This battery cable is very similar to flexible battery cable except that the copper conductors are tin plated, making them more suitable for marine and other corrosive environments. Available in BLACK or RED.

Twin Core

Twin core battery cable. Manufactured by joining two battery cables together using a clear outer sheath in a figure of '8' configuration.

NOTE: Please specify colour when ordering.

Part No.	*Cable*	*Cable Size (mm^2)*	*OD (mm)*	*Capacity (A)*	*per m*	*per 10m*
Flexible			*Available in BLACK or RED*			
010604	206/0.30	16	8.2	110	£3.31	£30.71
010601	266/0.30	20	8.9	135	£3.78	£34.02
010602	322/0.30	25	10.0	170	£4.93	£44.42
010603	539/0.30	40	12.7	300	£7.40	£66.62
010605	805/0.30	60	14.6	415	£11.60	£104.42
010607	684/0.40	95	19.7	500	£14.00	£126.00
Semi-Rigid			*Available in BLACK or RED*			
010501	37/0.71	15	8.0	105	£5.04	£45.36
010502	37/0.90	25	9.7	170	£5.61	£50.46
010503	61/0.90	40	11.8	300	£8.19	£73.71
Braided			*Available in BLACK only*			
020201	206/0.30	16	8.0	105	£5.70	£51.89
020202	196/0.40	25	9.7	170	£7.22	£64.97
020203	315/0.40	40	11.8	300	£8.97	£80.55
Tinned			*Available in BLACK or RED*			
011001	203/0.30	16	8.3	110	£3.79	£34.11
011002	322/0.30	25	10.1	170	£5.66	£50.94
011003	455/0.30	35	11.8	240	£7.91	£71.19
011004	637/0.30	50	13.3	345	£11.13	£100.17
011005	912/0.30	70	15.5	485	£15.63	£140.67
Twin Core						
010610	2 x 1050/0.2	2 x 35	-	240	£17.01	£336.00 (25m)
010611	2 x 1344/0.2	2 x 50	-	345	£23.56	£462.00 (25m)

PVC SLEEVING

General purpose black PVC sleeving for bundling and protection of cables. Water, oil and petrol resistant. Operating temperature -20ºC to +70ºC.

PVC selection pack 110211. 1m each of 110201 to 110208. £4.24

Part No.	Int. Dia. (mm)	Wall Thick. (mm)	per m	per 25m
110201	4	0.5	£0.27	£4.25
110202	5	0.5	£0.35	£5.30
110203	6	0.5	£0.39	£5.95
110204	8	0.5	£0.44	£7.07
110205	10	0.5	£0.50	£9.88
110206	12	0.5	£0.69	£14.52
110207	14	0.5	£0.82	£17.48
110208	16	0.5	£0.96	£20.37
110209	20	0.5	£1.09	£23.31
110210	25	1.0	£1.29	£27.36

HEAT SHRINK SLEEVING

Commercial grade polyolefin heat shrink tubing. Operating temperature -55ºC to +125ºC. Shrink ratio of 2:1. Can be shrunk using a standard hot air gun.

** All sizes available in BLACK or RED, except 110307 and 110308 which are available in BLACK only.*

Part No.	Int. Dia. before heating (mm)	Int. Dia. after heating (mm)	per m	per 5m
110301	3.2	1.6	£0.70	£2.96
110302	4.8	2.4	£0.85	£3.59
110303	6.4	3.2	£1.08	£4.61
110304	9.6	4.8	£1.20	£5.08
110305	12.8	6.4	£1.47	£6.25
110306	19.0	9.5	£2.31	£9.86
110307*	25.4	12.7	£3.01	£12.76
110308*	38.2	19.1	£7.33	£31.14

Heat Shrink Selection Pack

One metre each of 110301 to 110306. *Available in BLACK or RED.*

110309 £6.53

Heat Shrink Kit 160117

£17.62

(see page 121 for details)

SPIRAL BINDING

Part No.	Dia. (mm)	Wall Thick. (mm)	Bundle Dia. (mm)	per m	per 25m
110103	3	0.75	1.5 - 7.0	£0.34	£6.53
110101	6	1.0	5 - 20	£0.52	£10.68
110102	12	1.5	10 - 40	£0.89	£17.80

An easy and quick way of bundling and protecting cables. It also has the advantage that it can be put on cables whilst in situ. Made from black low density polyethylene with an operating temperature range of -60ºC to +50ºC.

CONVOLUTED SLEEVING

Part No.	Int. Dia. (mm)	Ext. Dia. (mm)	per m	per 10m
110401	6.5	10.0	£0.61	£5.79
110406	10.0	13.0	£0.79	£7.12
110402	12.7	16.1	£0.96	£8.70
110403	16.7	21.2	£0.99	£8.97
110407	21.4	25.4	£1.06	£9.67
110408	27.9	34.5	£1.56	£14.21

Black polyamide unslit convoluted sleeving for bundling and protection of wiring. Operating temp. -40ºC to +120ºC. Self extinguishing. Petrol, oil and water resistant.

CONDUIT SUPERSEAL INTERFACES

Straight

90°

Part No.	Superseal Connector	Type	Convulted Sleeving OD	Price
050652	2	Straight	10mm	£1.00
050652-90	2	90°	10mm	£1.34
050653	3	Straight	10mm	£1.04
050653-90	3	90°	10mm	£1.61
050654	4	Straight	10mm	£1.13
050672	2	Straight	13mm	£1.00
050672-90	2	90°	13mm	£1.78
050673	3	Straight	13mm	£1.04
050674	4	Straight	13mm	£1.09

Perfect for connecting the waterproof Superseal connectors with our convoluted sleeving, this helps to protect the cable from dirt and other types of ingress.

NEOPRENE SLEEVES

Used for insulating and finishing non-insulated terminals. Sleeves are pre-lubricated and applied using special application tool 150102 (p.126). Sleeve colour is BLACK. Operating temperature range -65ºC to +90ºC.

Part No.	Length (mm)	Wall Thick. (mm)	Bore Dia. (mm)	Max. Cable Dia. (mm)	per 100
110506	20	0.75	1.5	3	£3.31
110507	20	0.75	2.0	4	£3.86
110508	20	0.75	3.0	6	£2.96
110509	25	1.0	5.0	10	£10.02
110510	25	1.25	7.5	15	£6.98

Application Tool for Neoprene Sleeves
150102
£40.07
(see page 126 for details)

EXPANDABLE BRAIDED SLEEVING

Made from black polyester which, because of its woven construction, expands readily to fit a range of cable bundle diameters. Cables can also be routed out through the sleeving wall. It has very good abrasion resistance, and has a temperature range of -70ºC to +150ºC. To stop fraying, the cut end should be fused using a soldering iron, or covered using heatshrink sleeving (p. 13) or neoprene sleeves (p. 15).

Part No.	Min. Dia. (mm)	Max. Dia. (mm)	per m	per 10m
110701	3	7	£0.74	£6.58
110702	5	10	£1.02	£9.17
110703	10	18	£1.78	£15.96
110704	15	27	£1.91	£17.15

TEMPERATURE RESISTANT SLEEVING

Used for the protection of cables. Made from braided glass fibre, coated in BLACK acrylic resin. The sleeving has excellent flexibility and strength. Temperature resistant to 155°C continuous use, 200°C short term use. Available in 8 different sizes.

Part No.	Int. Dia. (mm)	per m	per 10m
110802	2	£0.75	£6.72
110803	4	£1.32	£11.85
110804	6	£1.85	£16.66
110805	8	£2.36	£21.25
110806	10	£2.90	£26.17
110809	12	£3.14	£28.24
110807	14	£3.43	£30.94
110808	16	£3.78	£34.02

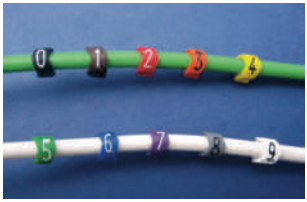
CABLE MARKERS

Clip-On

Available in three sizes in handy packs. Useful for marking cable after termination as markers are simply clipped on the side of the cable. Packs contain equal amounts of numbers “0” - “9”. Each number is a different colour.

Heat Shrink

Shrink ratio of 3:1 when heated above 120ºC. Sold in bags of 100, each bag having 10 of numbers “0” - “9”. Also available in smaller packs specifically for HT cables, containing 1 each of numbers “1” - “4” or “1” - “6”.

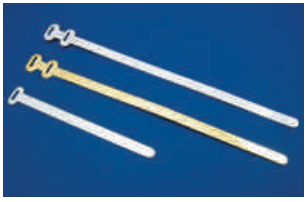


Slide On

Made from coloured PVC. Designed for easy fitting without tools. Will fit cables from 2-5mm in diameter. 500 markers per pack, approximately 50 each of numbers “0” - “9”. *Must be fitted before terminals are attached.*

Part No.	*Cable OD (mm)*	*Pack Contents*	*Initial Dia. (mm)*	*After Heating Dia. (mm)*	*Each*
Clip-On					
110902	2.0 - 2.8	20 x “0” - “9”	-	-	£10.12
110903	2.8 - 3.8	20 x “0” - “9”	-	-	£10.28
110904	4.3 - 5.3	10 x “0” - “9”	-	-	£10.21
Heat Shrink					
110901	-	10 x “0” - “9”	6	2	£7.70
060901	-	10 x “0” - “9”	12	4	£8.90
060902	-	1 x “1” - “4”	12	4	£0.54
060903	-	1 x “1” - “6”	12	4	£0.82
Slide On					
110905	2.0 - 5.0	50 x “0” - “9”	-	-	£10.10

BUCKLE CLIPS



Useful for securing looms and cables where a period look is preferred.

Part No.	*Size (mm)*	*Material*	*Each*	*per 10*
121801	102 x 6.3	Aluminium	£0.27	£2.46
121803	142 x 6.3	Aluminium	£0.35	£3.12
121805	178 x 6.3	Aluminium	£0.42	£3.78
121802	178 x 6.3	Aluminium*	£0.59	£5.30
121804	178 x 6.3	Brass*	£0.94	£8.51

* Double end.

P-CLIPS - BRASS / ALUMINIUM / STEEL

Brass

Aluminium

Steel

Part No.	Int. Dia. (mm)	Fixing Hole (mm)	Each	per 10
Brass				
120401	5	3.2	£0.40	£3.27
120401-L	5	5.0	£0.40	£3.27
120407	6	5.0	£0.47	£4.02
120408	8	5.0	£0.52	£4.46
120402	10	4.2	£0.58	£5.02
120403	15	5.0	£0.57	£4.90
120404	20	6.4	£0.59	£5.12
120405	22	5.0	£0.81	£6.88
120406	25	5.0	£1.22	£10.25
Aluminium (black rubber covered)				
120201	4.8	5.2	£0.85	£7.15
120202	6.4	5.2	£0.89	£7.57
120203	7.9	5.2	£0.90	£7.66
120204	9.5	5.2	£0.94	£8.07
120205	12.7	5.2	£1.09	£9.28
120206	15.9	5.2	£1.17	£9.89
120207	19.1	5.2	£1.31	£11.10
120208	22.2	5.2	£1.42	£12.11
120209	25.4	5.2	£1.49	£12.72
Steel (black rubber covered)				
120301	3.2	6.8	£0.26	£2.22
120302	4.8	6.8	£0.28	£2.45
120303	6.4	6.8	£0.29	£2.57
120304	7.9	6.8	£0.30	£2.69
120305	9.5	6.8	£0.32	£2.79
120306	12.7	6.8	£0.42	£3.51
120307	15.9	6.8	£0.45	£3.84
120308	19.0	6.8	£0.54	£4.66
120309	22.2	6.8	£0.58	£5.02
120310	25.4	6.8	£0.64	£5.36

Brass P-Clip Kit
160113
£41.35
(see page 122 for details)

Steel P-Clip Kit
160116
£39.15
(see page 122 for details)

P-CLIPS - BLACK NYLON

Part No.	Int. Dia. (mm)	Fixing Hole (mm)	per 10	per 50
120101	3.2	4.6	£0.52	£2.28
120102	4.8	4.6	£0.54	£2.33
120103	6.4	4.6	£0.58	£2.51
120104	7.9	4.6	£0.65	£2.74
120105	9.5	4.6	£0.69	£2.91
120106	12.7	4.6	£0.85	£3.60
120107	15.8	4.6	£0.98	£4.20
120108	19.4	4.6	£1.29	£5.52
120109	25.4	4.6	£1.49	£6.34
120110	31.8	4.6	£1.76	£7.52

Nylon P-Clip Kit
160114
£18.09
(see page 122 for details)

CLIP-ON CHASSIS CLIPS

Large
Plated steel, 12.7mm wide. Simply clip on to chassis.

Small
Plated steel. Simply clip on to chassis. Available for two different chassis thicknesses, 2 - 4mm or 4 - 7mm.

Part No.	Size (mm)	Max Cable Dia. (mm)	Each	per 10
Large				
120501	Length 42	6.5	£0.84	£7.12
120502	Length 52	5.5	£0.55	£4.79
120503	Length 57	5.5	£0.61	£5.25
120504	Length 44	6.5	£0.55	£4.79
120505	Length 39	10.0	£0.45	£3.84
Small				
120506	2 - 4	6 - 7	£0.54	£4.66
120507	2 - 4	8 - 9	£0.55	£4.81
120508	2 - 4	10 - 11	£0.55	£4.81
120509	2 - 4	12 - 14	£0.58	£5.02
120510	4 - 7	6 - 7	£0.54	£4.66
120511	4 - 7	8 - 9	£0.55	£4.79
120512	4 - 7	10 - 11	£0.55	£4.79
120513	4 - 7	12 - 14	£0.58	£5.02

BOLT-ON CHASSIS CLIPS

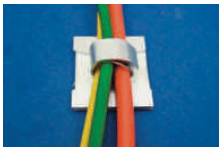
Plated steel with a hole to bolt onto chassis.

Part No.	Max. Cable OD (mm)	Hole Dia. (mm)	per 10	per 25
120601	3	5	£3.24	£5.71
120602	5	6.3	£3.24	£5.71
120603	8	5	£3.24	£5.71
120604	10	5	£3.24	£5.71
120605	12	5	£3.24	£5.71
120606	15	5	£3.24	£5.71

SADDLE CLIPS / SELF-ADHESIVE CLIPS

Saddle Clips
Zinc plated. 10mm wide. 121901, 03 & 04 all have 4.8mm mounting holes. 121902 has 4mm mounting holes.

Self-Adhesive Nylon
Nylon cable mounting clips with a self adhesive base. Suitable for fixing round or flat cables. Natural colour nylon.



Self-Adhesive Aluminium
Aluminium self adhesive cable mounting clips. Two sizes available.

Part No.	Max. Cable OD (mm)	Mounting Hole Centres (mm)	Base Size (mm)	Each	per 10
Saddle Clips					
121903	5.0	19	-	£0.21	£1.66
121901	6.0	20	-	£0.21	£1.66
121904	7.0	22	-	£0.22	£1.76
121902	2 x 6.0	28	-	£0.25	£2.06
Self-Adhesive Nylon					
120701	3.8	-	16 x 16	£0.22	£1.75
120702	7.7	-	25 x 25	£0.26	£2.22
120703	12.0	-	28 x 28	£0.29	£2.57

Part No.	Max. Cable OD (mm)	Base Size (mm)	per 10	per 25
Self-Adhesive Aluminium				
120704	6.0	11 x 16	£1.18	£2.47
120705	9.5	16 x 19	£1.67	£3.53

CABLE TIES

Black Nylon

White Nylon
With marker plate.

Part No.	Length (mm)	Width (mm)	per 10	per 100
Black Nylon				
120801	102	2.5	£0.28	£0.82
120804	150	3.6	£0.34	£1.72
120802	165	2.5	£0.35	£1.73
120806	190	4.8	£0.54	£2.74
120803	200	2.5	£0.41	£2.01
120809	240	7.6	£1.16	£6.63
120805	292	3.6	£0.81	£4.32
120807	368	4.8	£0.86	£5.75
120810	380	7.6	£2.28	£11.38
120808	450	4.8	£1.73	£11.49
White Nylon				
120901	100	2.5	£1.05	£5.28

CABLE TIE MOUNTS

Self Adhesive
4-way. Made from black plastic. Also has fixing hole.

Part No.	Max. cable tie width (mm)	Mount Size (mm)	Each	per 25
121001	3.2	21 x 21	£0.20	£2.19
121002	4.8	25 x 25	£0.23	£4.48

Eyelets
Made from black nylon.

Part No.	Max. cable tie width (mm)	Type	per 10	per 25
121003	4.8	A	£0.96	£2.06
121004	9.0	A	£1.24	£2.60
121005	4.8	B	£0.96	£2.06

Type A

Type B

GROMMETS

Wiring Grommet
Black PVC, slot wideth 1.6mm

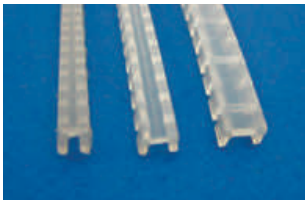
Blanking Grommet
Black PVC, slot width 1.6mm.

Part No.	Panel Hole Size (mm)	Grommet OD (mm)	Grommet ID (mm)	Each	per 10	per 25
Wiring Grommet						
121101	6.4	9.5	4.0	-	£0.49	£0.87
121102	7.9	11.0	5.5	-	£0.61	£1.22
121103	9.3	13.4	7.7	-	£0.63	£1.11
121104	12.3	16.2	9.5	-	£0.81	£1.43
121105	15.8	19.0	12.0	-	£1.11	£2.06
121106	20.2	23.0	15.8	-	£1.93	£3.55
121107	25.0	29.2	19.5	-	£2.12	£4.23
121108	31.0	38.1	24.0	£0.30	£2.19	-
121109	37.4	46.0	31.5	£0.61	£3.88	-
121110	50.5	60.3	44.5	£0.71	£5.45	-
Blanking Grommet						
121201	6.4	8.5	-	-	£0.76	£1.49
121202	9.3	13.4	-	-	£0.90	£1.69
121203	12.3	16.2	-	-	£1.05	£1.85
121204	15.8	19.0	-	-	£1.25	£2.22
121205	20.0	24.2	-	-	£1.74	£3.03
121206	25.0	29.2	-	-	£2.05	£3.56
121207	31.7	38.1	-	£0.40	£2.46	-
121208	37.7	44.4	-	£0.64	£4.36	-
121209	50.5	57.2	-	£1.01	£7.08	-

Wiring Grommet Kit
160104
£23.06
(see page 122 for details)

Blanking Grommet Kit
160105
£23.06
(see page 122 for details)

GROMMET STRIP



Natural

Ideal for irregular shaped openings. Made from natural coloured polythene. Available for three different panel thicknesses.

Black

Made from black PVC, which has excellent flexibility, this grommet strip has a temperature range from -65°C to +105°C and is self extinguishing.

Part No.	*Panel Thickness (mm)*	*per m*	*per 5m*
Natural			
121111	1.0 - 1.3	£0.87	£4.11
121112	1.3 - 2.1	£0.98	£4.60
121113	2.1 - 3.3	£1.01	£4.76
Black			
121114	1.0 - 1.6	£0.98	£4.60

PVC TAPE

Self adhesive PVC tape.
Temperature range 0°C to +70°C.
Tape thickness 0.13mm.
Width 19mm, length 20m.

Part No.	*Colour*	*Each*	*per 10*
121301	Black	£1.01	£8.94
121302	Red	£1.01	£8.94
121303	Green	£1.01	£8.94
121304	Blue	£1.01	£8.94
121305	Yellow	£1.01	£8.94
121306	Brown	£1.01	£8.94
121307	White	£1.01	£8.94

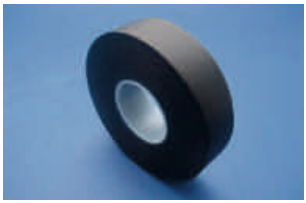
TAPE - HARNESS / INSULATING / DUCT

PVC Harness Tape

Non adhesive PVC tape used for wrapping wiring looms to protect against abrasion, etc. Flame retardant. Operating temp. 0ºC to +90ºC. Thickness 0.13mm.

Alien (Duct) Tape

Very versatile, sticky and strong duct tape, useful for a multitude of purposes.



Self-Amalgamating

Strong polyisobutylene elastic tape which, when wrapped onto itself, will amalgamate creating a water-tight seal. Operating temperature -95ºC to +90ºC. Thickness 0.5mm.

Cloth Insulating

An old-style electrical tape useful for insulation and harness wrapping. Black cotton with a natural rubber adhesive. 0.35mm thick.

Fabric Looming

Black fabric tape for wrapping wiring harnesses. As used today by vehicle manufacturers for wrapping wiring looms. Available in two widths.

X-Treme Tape

Self fusing silicone insulating and repair tape. Withstands extremes in voltage, temperature, pressure, moisture and fuels etc.

Part No.	*Width (mm)*	*Length (m)*	*Colour*	*Each*	*per 10*
PVC Harness					
121401	19	20	Black	£1.73	£14.68
121401-40	19	40	Black	£2.62	£23.54
121402	25	20	Black	£2.19	£18.65
Alien (Duct)					
121703	48	20	Turquoise	£4.96	-
Self-Amalgamating					
121501	25	10	Black	£8.91	-
Cloth Insulating					
121601	19	20	Black	£5.28	-
Fabric Looming					
121701	9	25	Black	£2.73	-
121702	19	25	Black	£5.46	-
X-Treme					
121704	25	3	Black or Red	£4.20	-

NON-INSULATED BLADES & SLEEVES

Male Blade

Female Blade

Flag

Piggy-Back

Insulation Sleeves for Female Blades

Insulation Sleeves for Flags

These terminals are normally tin-plated brass, but are sometimes plain brass. They can be either crimped (for relevant tools, see p.124) or soldered to the cable. A convenient way to insulate and tidy a non-insulated terminal is to stretch a neoprene sleeve (see p.15) over the crimped part of the terminal.

Part No.	*Width (mm)*	*Cable Size (mm²)*	*Type*	*per 10*	*per 50*
Male Blade					
030101	4.8	0.3 - 0.8		£0.76	£3.04
030102	6.3	1.0 - 2.5		£0.93	£3.27
Female Blade					
030201	2.8	0.3 - 0.8		£0.66	£2.62
030202	4.8	0.5 - 1.3		£0.80	£3.17
030203	6.3	0.5 - 1.5		£0.74	£2.92
030204	6.3	1.0 - 2.5		£0.78	£3.07
030205	6.3	2.5 - 6.0		£0.81	£3.21
030206	9.5	2.0 - 4.0		£1.40	£5.86
Flag					
030301	6.3	1.0 - 2.5		£1.06	£4.24
030302	9.5	2.0 - 4.0		£5.14	£21.85
Piggy-Back					
030401	6.3	0.5 - 1.5		£1.55	£6.22
030402	6.3	1.5 - 2.5		£1.34	£5.33
Insulation Sleeves for Female Blades					
030501	4.8	-	Transparent, Flexible	£0.68	£2.66
030502	6.3	-	Black, Rigid	£1.14	£4.51
030503	6.3	-	Transparent, Flexible	£0.64	£2.55
030506	9.5	-	Transparent, Flexible	£1.46	£5.79
Insulation Sleeves for Flags					
030601	6.3	-	Clear Vinyl PVC	£0.61	£2.45

NON-INSULATED RING TERMINALS

Ring Terminals

Heavy-Duty Ring Terminals

Part No.	Hole Dia. (mm)	Imperial	Cable Size (mm^2)	per 10	per 50
Ring Terminals					
030701	3.2	4BA	0.5 - 1.5	£0.65	£2.57
030702	4.3	3BA	0.5 - 1.5	£0.65	£2.59
030703	5.3	2BA	0.5 - 1.5	£0.65	£2.59
030704	6.4	¼"	0.5 - 1.5	£0.84	£3.32
030705	8.3	5/16"	0.5 - 1.5	£0.89	£3.69
030706	10.4	⅜"	0.5 - 1.5	£1.13	£4.57
030707	3.2	4BA	1.0 - 2.5	£0.80	£3.06
030708	4.3	3BA	1.0 - 2.5	£0.82	£3.30
030709	5.3	2BA	1.0 - 2.5	£0.86	£3.43
030710	6.4	¼"	1.0 - 2.5	£0.94	£3.75
030711	8.3	5/16"	1.0 - 2.5	£0.96	£3.80
030712	10.4	⅜"	1.0 - 2.5	£1.28	£5.36
030713	4.3	3BA	2.5 - 6.0	£1.10	£4.44
030714	5.3	2BA	2.5 - 6.0	£1.22	£4.81
030715	6.4	¼"	2.5 - 6.0	£1.50	£6.05
030716	8.3	5/16"	2.5 - 6.0	£1.51	£6.09
030717	10.4	⅜"	2.5 - 6.0	£1.92	£7.69
Heavy-Duty Ring Terminals					
030806	4.3	3BA	0.8 - 2.0	£1.22	£2.40
030801	5.4	2BA	0.8 - 2.0	£1.38	£2.74
030802	6.4	¼"	0.8 - 4.0	£1.82	£3.63
030803	8.4	5/16"	0.8 - 4.0	£1.95	£3.91
030804	9.8	⅜"	up to 5.0	£5.14	£10.31

BOLT-ON BLADES & FORK TERMINALS

Bolt-On Blades and Adapters

Part No.	Width (mm)	Mounting Hole (mm)	Type	per 10	per 50
030103	6.3	5.3	Flat	£1.34	£5.33
030104	6.3	5.3	45°	£1.31	£5.24
030105	6.3	5.3	90°	£1.38	£5.48
030106	9.5	5.3	Flat	£2.31	£9.25
030107	Converts one 6.3mm blade to two			£1.45	£5.78

Fork Terminals

Part No	Slot Width (mm)	Cable Size (mm²)	per 10	per 50
030901	4.3	0.5 - 1.5	£0.70	£2.79
030902	5.2	0.5 - 1.5	£0.74	£2.99
030903	3.8	1.0 - 2.5	£0.91	£3.59
030904	5.2	1.0 - 2.5	£0.91	£3.59

Non-Insulated Terminal Starter Kit
160109
£19.13
(see page 121 for details)

Non-Insulated Terminal Professional Kit
160110
£65.32
(see page 121 for details)

Neoprene Sleeves
110506 - 10
from £3.31/100
(see page 15 for details)

Application Tool for Neoprene Sleeves
150102
£40.07
(see page 126 for details)

NON-INSULATED BULLETS & CONNECTORS

Standard
Suitable for crimping or soldering

Crimp-On
Suitable for crimping only.

Bullet Connectors
For use with all 4.7mm diameter bullets.

Bullet Socket
Can be soldered or crimped. Accepts 4.7mm diameter bullets. Comes complete with insulation sleeve.

Hollow (Old Style)
Useful for connecting cables to lamps, etc. Strip cable, push into bullet and fold strands over.

Japanese
Used on many makes of cars and also many Japanese bikes. Can be soldered or crimped.

Part No.	*OD (mm)*	*Max Cable Size (mm^2)*	*Type*	*Each*	*per 10*	*per 50*
Standard Bullets						
031004	4.7	0.65		-	£2.94	£12.50
031001	4.7	1.0		-	£2.42	£10.71
031002	4.7	2.0		-	£1.16	£4.60
031003	4.7	3.0		-	£1.98	£8.94
Crimp-On						
031005	4.7	2.0		-	£1.24	£4.95
Bullet Connectors						
031101	-		Single	-	£1.49	£6.01
031102	-	-	Double (common)	-	£1.60	£6.38
031103	-	-	Triple (common)	£4.41	£37.50	-
031104	-	-	5-way	£4.68	£43.00	-
Bullet Socket						
031201	-	-	-	-	£5.13	£20.52
Hollow Bullets (Old Style)						
031006	4.6	2.0	-	-	£1.40	£5.93
Japanese Bullets, Sockets & Insulators						
031301	3.9	2.5	Bullet	-	£1.03	£4.14
031302	-	-	Bullet Insulator	-	£0.63	£2.51
031303	-	-	Socket	-	£0.85	£3.36
031304	-	-	Socket Insulator	-	£0.63	£2.51
031305	-	-	Double Socket	-	£0.88	£3.97
031306	-	-	Double Socket Insulator	-	£0.66	£2.98

Japanese Bullet Kit 160123 (see page 121 for details)
240 pieces in total
(031301 - 031306)
£17.32

INSULATED TERMINALS & CONNECTORS

Male Blade

Female Blade

Fully Insulated Female Blades

Piggy-Back

These terminals are made from high conductivity copper strip, tinned for corrosion resistance. The colour-coded insulation sleeve extends beyond the crimping area to grip and support the cable insulation. Different colour insulation for different cable sizes.

Part No.	*Width (mm)*	*Cable Size (mm²)*	*Colour*	*per 10*	*per 50*
Male Blade					
040102	6.3	0.5 - 1.5	Red	£0.78	£3.06
040104	6.3	1.5 - 3.0	Blue	£0.80	£3.18
040105	6.3	3.0 - 6.0	Yellow	£0.94	£3.78
Female Blade					
040201	2.8	0.5 - 1.5	Red	£0.70	£2.79
040202	4.8	0.5 - 1.5	Red	£0.94	£3.81
040203	6.3	0.5 - 1.5	Red	£0.88	£3.52
040204	4.8	1.5 - 3.0	Blue	£0.93	£3.74
040205	6.3	1.5 - 3.0	Blue	£0.91	£3.65
040206	6.3	3.0 - 6.0	Yellow	£1.05	£4.20
040207	9.5	3.0 - 6.0	Yellow	£1.82	£7.22
Fully Insulated Female Blades					
040301	4.8	0.5 - 1.5	Red	£1.13	£4.48
040302	6.3	0.5 - 1.5	Red	£1.14	£4.51
040303	4.8	1.5 - 3.0	Blue	£1.17	£4.63
040304	6.3	1.5 - 3.0	Blue	£1.16	£4.59
040305	6.3	3.0 - 6.0	Yellow	£1.61	£6.43
040306	9.5	3.0 - 6.0	Yellow	£2.90	£11.63
Piggy-Back					
040401	6.3	0.5 - 1.5	Red	£1.08	£4.35
040402	6.3	1.5 - 3.0	Blue	£1.17	£4.61
040403	6.3	3.0 - 6.0	Yellow	£1.80	£7.14

INSULATED RING TERMINALS

Ring Terminals

0.5 - 1.5mm

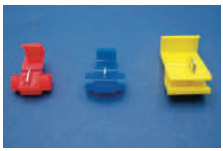
1.5 - 3.0mm

3.0 - 6.0mm

Part No.	Hole Dia. (mm)	Imperial	Cable Size (mm^2)	Colour	per 10	per 50
Ring Terminals						
040501	3.2	4BA	0.5 - 1.5	Red	£0.54	£2.20
040502	4.3	3BA	0.5 - 1.5	Red	£0.57	£2.31
040503	5.3	2BA	0.5 - 1.5	Red	£0.62	£2.45
040504	6.4	1/4"	0.5 - 1.5	Red	£0.76	£3.04
040505	8.4	5/16"	0.5 - 1.5	Red	£0.81	£3.23
040506	10.5	3/8"	0.5 - 1.5	Red	£1.16	£4.60
040507	12.0	1/2"	0.5 - 1.5	Red	£1.27	£5.06
040508	4.3	3BA	1.5 - 3.0	Blue	£0.65	£2.60
040509	5.3	2BA	1.5 - 3.0	Blue	£0.65	£2.60
040510	6.4	1/4"	1.5 - 3.0	Blue	£0.81	£3.23
040511	8.4	5/16"	1.5 - 3.0	Blue	£0.84	£3.33
040512	10.5	3/8"	1.5 - 3.0	Blue	£1.05	£4.21
040513	12.0	1/2"	1.5 - 3.0	Blue	£1.55	£6.18
040514	4.3	3BA	3.0 - 6.0	Yellow	£0.90	£3.60
040515	5.3	2BA	3.0 - 6.0	Yellow	£0.99	£3.97
040516	6.4	1/4"	3.0 - 6.0	Yellow	£1.14	£4.86
040517	8.4	5/16"	3.0 - 6.0	Yellow	£1.40	£5.59
040518	10.5	3/8"	3.0 - 6.0	Yellow	£1.39	£5.53
040519	12.0	1/2"	3.0 - 6.0	Yellow	£1.96	£7.90

SELF-STRIPPING CONNECTORS

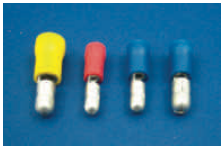
A range of self-stripping connectors that provide a quick yet effective means of joining a second or tapping cable to an existing wire.



Self-Stripping Connectors

Part No.	Cable Size (mm^2)	Colour	Tapping Cable (mm^2)	per 10	per 50
041201	0.65 - 2.0	Red	0.65	£1.09	£3.43
041202	0.65 - 2.0	Blue	0.65 - 2.0	£1.09	£3.43
041203	3.0 - 4.5	Yellow	3.0 - 4.5	£2.23	£8.91

INSULATED BULLETS / BUTT CONNECTORS / FORKS



Bullets

Sockets

Butt Connectors

Forks

Part No.	Dia. (mm)	Slot Width (mm)	Cable Size (mm²)	Colour	per 10	per 50
Bullets						
040601	4.0	-	0.5 - 1.5	Red	£0.81	£3.22
040602	4.0	-	1.5 - 3.0	Blue	£1.03	£4.14
040603	5.0	-	1.5 - 3.0	Blue	£1.03	£4.14
040604	5.0	-	3.0 - 6.0	Yellow	£1.89	£7.57
Sockets						
040801	4.0	-	0.5 - 1.5	Red	£0.94	£3.81
040802	4.0	-	1.5 - 3.0	Blue	£1.05	£4.20
040803	5.0	-	1.5 - 3.0	Blue	£1.05	£4.20
040804	5.0	-	3.0 - 6.0	Yellow	£1.97	£7.96
Butt Connectors						
040901	-	-	0.5 - 1.5	Red	£0.81	£3.23
040902	-	-	1.5 - 3.0	Blue	£0.85	£3.36
040903	-	-	3.0 - 6.0	Yellow	£1.51	£6.02
Forks						
040701	-	4.3	0.5 - 1.5	Red	£0.62	£2.45
040702	-	5.3	0.5 - 1.5	Red	£0.62	£2.45
040703	-	6.4	0.5 - 1.5	Red	£0.70	£2.84
040704	-	4.3	1.5 - 3.0	Blue	£0.58	£2.35
040705	-	5.3	1.5 - 3.0	Blue	£0.61	£2.37
040706	-	6.4	1.5 - 3.0	Blue	£0.81	£3.22
040707	-	4.3	3.0 - 6.0	Yellow	£0.84	£3.34
040708	-	5.3	3.0 - 6.0	Yellow	£0.89	£3.53
040709	-	6.4	3.0 - 6.0	Yellow	£1.20	£4.79

Insulated Terminal Kit (with Tool)
160101
£56.37
(see page 121 for details)

Insulated Terminal Kit
160102
£29.69
(see page 121 for details)

HEAT-SHRINK BLADES / RINGS / BUTT CONNECTORS

Male Blades

Female Blades

Ring Terminals

Butt Connectors

These terminals offer superior performance over standard crimp terminals. After crimping, the hot-melt glue lined heatshrink sleeve is heated and shrunk down onto the cable. This increases the mechanical strength of the termination and its resistance to corrosion, as the melted glue effectively seals the joint.

Part No.	Width (mm)	Hole Dia. (mm)	Cable Size (mm^2)	Colour	per 10	per 50
Male Blades						
041101	6.3	-	0.5 - 1.5	Red	£5.00	£20.00
041102	6.3	-	1.5 - 3.0	Blue	£5.00	£20.00
Female Blades						
041103	6.3	-	0.5 - 1.5	Red	£5.70	£22.74
041104	6.3	-	1.5 - 3.0	Blue	£5.70	£22.74
Ring Terminals						
041108	-	4.0	0.5 - 1.5	Red	£4.46	£17.82
041109	-	5.0	0.5 - 1.5	Red	£4.46	£17.82
041110	-	6.0	0.5 - 1.5	Red	£5.00	£20.00
041111	-	4.0	1.5 - 3.0	Blue	£4.46	£17.82
041112	-	5.0	1.5 - 3.0	Blue	£5.00	£20.00
041113	-	6.0	1.5 - 3.0	Blue	£5.28	£21.12
041114	-	8.0	1.5 - 3.0	Blue	£5.28	£21.12
041116	-	5.0	3.0 - 6.0	Yellow	£5.54	£22.21
041117	-	6.0	3.0 - 6.0	Yellow	£6.03	£24.17
041118	-	8.0	3.0 - 6.0	Yellow	£6.71	£26.86
Butt Connectors						
041105	-	-	0.5 - 1.5	Red	£4.38	£17.55
041106	-	-	1.5 - 3.0	Blue	£5.00	£20.00
041107	-	-	3.0 - 6.0	Yellow	£5.63	£22.48

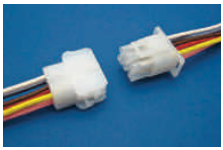
Heat-Shrink Terminal Kit
160120
£28.12
(see page 121 for details)

HEAT-SHRINK SOLDER BUTT CONNECTORS

Solder butt connectors with adhesive lined heat shrink sleeving. Insert stripped cables into the connectors and heat with a hot air gun. This melts the solder and also shrinks the heat shrink tubing, sealing the connection.

Part No.	Cable Size (mm^2)	Colour	per 10	per 50
041150	0.5 - 1.5	Red	£6.07	£27.29
041151	1.5 - 3.0	Blue	£6.28	£28.28
041152	3.0 - 6.0	Yellow	£7.28	£32.74

MATE-N-LOK CONNECTORS (UNIVERSAL)



Universal

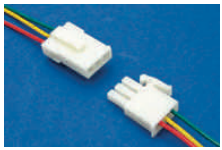
These multiple connectors use 2mm diameter round pins locked into plastic housings. Available from two to 15 pins. Supplied as a pair of male/female housings that positively lock together, together with all terminals. Suitable for cables up to $2mm^2$. Maximum current 10A per terminal. For higher current applications use the 3.5mm Mate-N-Lok connectors (see next page).

Part No.	No. of Terminals	Face Dimensions (mm)	Each	per 10	per 50
Universal Mate-N-Lok					
051301	2	8 x 14	£1.63	£13.73	-
051302	3	8 x 21	£1.89	£16.04	-
051303	6	21 x 14	£2.96	£25.06	-
051304	9	21 x 21	£3.77	£32.09	-
051305	12	21 x 27	£4.67	£39.78	-
051306	15	21 x 33	£5.82	£49.44	-
051310	Spare pins	-	-	£1.58	£6.59
051311	Spare sockets	-	-	£1.58	£6.59

Universal Mate-N-Lok Kit
160121
£80.48
(see page 122 for details)

Universal Mate-N-Lok Pin Extractor
150801
£28.66
(see page 126 for details)

MATE-N-LOK CONNECTORS (MINI & 3.5mm)



Mini Universal

Based on the Mate-N-Lok range, but much smaller. For low current applications where space is at a premium. These multiple connectors use 1mm diameter round pins locked into plastic housings. Available from two to 15 pins. Supplied as a pair of male and female housings that positively lock together, together with all terminals. Suitable for cables up to 1.2mm². Maximum current 5A per terminal.

3.5mm

These multiple connectors use 3.5mm diameter round pins, locked into plastic housings. Available from 2-9 pins. Supplied as a pair of male and female housings that positively lock together, together with all terminals. Suitable for cables between 2.0mm² and 5.0mm². Maximum current approximately 20A per terminal (dependent upon cable size used and the number of pins in the connector). Spare pins and sockets available separately.

Part No.	*No. of Terminals*	*Face Dimensions (mm)*	*Each*	*per 10*	*per 50*
Mini Universal Mate-N-Lok					
051401	2	6 x 11	£1.72	£14.73	-
051402	3	6 x 15	£2.12	£18.02	-
051403	4	10 x 12	£2.61	£22.20	-
051404	6	14 x 12	£3.77	£32.09	-
051405	9	14 x 16	£5.01	£42.63	-
051406	12	18 x 16	£6.47	£54.94	-
051407	15	22 x 16	£7.50	£63.72	-
051410	Spare pins	-	-	£1.92	£7.71
051411	Spare sockets	-	-	£1.92	£7.71
3.5mm Mate-N-Lok					
055001	2	7 x 14	£2.17	£18.48	-
055002	3	7 x 20	£2.49	£21.15	-
055003	4	13 x 20	£3.61	£32.51	-
055004	9	20 x 20	£5.52	£49.71	-
TYCO 925662-1	Spare pins	-	£0.36	-	-
TYCO 925663-1	Spare sockets	-	£0.36	-	-

6.3mm BLADE CONNECTORS

6.3mm Blade Connectors

Terminals

These multiple connectors use 6.3mm blade terminals locked into plastic housings. They are available from 1 to 11 ways (1 to 11 pairs of terminals) and are supplied as a pair of male and female quick release nylon connector housings.

PLEASE NOTE: The terminals for the housings are available for two different wire sizes and should be purchased separately. Terminals are secured by crimping or soldering.

Part No.	No. of Terminals	Type	Cable Size (mm^2)	Each	per 10
Housings					
050101	1	-	-	£0.39	£3.31
050102	2	-	-	£0.51	£4.44
050107	2 (T-shape)	-	-	£0.57	£5.04
050103	3	-	-	£0.60	£5.33
050104	4	-	-	£0.72	£6.23
050105	6	-	-	£0.81	£7.10
050106	8	-	-	£1.01	£8.90
050108	11	-	-	£2.47	£21.45
Terminals					
050201	-	Male	1.0 - 2.5	£0.07	£0.48
050203	-	Female	1.0 - 2.5	£0.07	£0.48
050202	-	Male	2.5 - 6.0	£0.15	£1.04
050204	-	Female	2.5 - 6.0	£0.15	£1.04

Multiple Connector Kit
160115
£65.55
(see page 122 for details)

WATERPROOF CONNECTORS

Econoseal

Waterproof connectors. Suitable for cables up to 1mm². Supplied with all seals and terminals. Terminals are 1.85mm wide x 0.6mm thick.

Superseal - 1.5mm Blade

Waterproof multiple connectors, 1 to 6 way. Supplied in pairs with all seals and terminals. Terminals can take cables up to 1.5mm². Current rating up to 14A per terminal.

Superseal - 2.8mm Blade

Waterproof multiple connectors, 1 to 3 way. Supplied in pairs with all seals and terminals. Terminals can take cables up to 2mm². Blade dimensions 2.8mm wide x 0.8mm thick. This range of connectors is the bigger version of the 1.5mm Superseal range.

Part No.	*No. of Terminals*	*Type*	*Dimensions (mm)*	*Each*	*per 10*	*per 100*
Econoseal						
051201	2	Male	18 x 13 (face)	£2.26	£20.26	-
051202	2	Female	21 x 18 (face)	£2.58	£23.18	-
051203	3	Male	23 x 13 (face)	£2.69	£24.19	-
051204	3	Female	26 x 18 (face)	£2.69	£24.19	-
Superseal - 1.5mm Blade						
050601	1	Pair	54 x 14 x 14	£2.65	£22.51	-
050602	2	Pair	54 x 19 x 14	£3.49	£29.69	-
050603	3	Pair	54 x 25 x 14	£4.85	£41.32	-
050604	4	Pair	54 x 32 x 14	£5.72	£48.72	-
050605	5	Pair	54 x 38 x 14	£7.37	£62.66	-
050606	6	Pair	53 x 44 x 14	£8.47	£71.96	-
050607	Spare male terminals		-	-	£1.60	£13.53
050608	Spare female terminals		-	-	£2.06	£17.37
050609	Spare Seal		-	£0.12	£1.00	
Superseal - 2.8mm Blade						
050701	1	Pair	63 x 16 x 15	£4.14	£35.17	-
050702	2	Pair	63 x 23 x 15	£4.99	£42.47	-
050703	3	Pair	66 x 30 x 15	£8.24	£70.11	-

Crimping Tool for Econoseal & Superseal Terminals
150211
£29.92
(see page 125 for details)

JUNIOR POWER TIMER CONNECTORS

Housings

Wire Seals

Rubber Boots

Terminals

Female housings are available in 5 different configurations with either 2, 3, 4, 5 or 6 terminals. Only one male housing is stocked, which has 2 terminals. Terminals for the housings should be purchased separately as they are available for two different cable sizes, together with wire seals which push into the back of the connectors to seal the cable (also available for two different cable insulation diameters). A blanking seal should be used when no cable is present. Rubber boots are available to seal the back of the 2-way (90° and straight) and 3-way (straight) connectors.

Part No.	*Type*	*No. of Terminals*	*Cable Size (mm²)*	*Each*	*per 10*
Housings					
051501	Female	2	-	£1.30	£10.99
051502	Female	3	-	£1.88	£15.99
051503	Female	4	-	£3.23	£27.48
051504	Female	5	-	£4.12	£34.97
051505	Female	6	-	£5.28	£44.95
051507	Male	2	-	£2.58	£21.99
Terminals					
051601	Female		0.5 - 1.0	£0.43	£3.53
051603	Male		0.5 - 1.0	£0.43	£3.53
051602	Female		1.5 - 2.5	£0.43	£3.53
051604	Male		1.5 - 2.5	£0.43	£3.53
Wire Seals					
051801	Wire seal		1.2 - 2.1	£0.23	£1.94
051802	Wire seal		2.2 - 3.0	£0.24	£2.08
051803	Blanking seal		-	£0.27	£2.44
Rubber Boots					
051701	90°	2	-	£1.05	£8.82
051702	Straight	3	-	£1.17	£9.88
051703	Straight	2	-	£0.93	£8.23

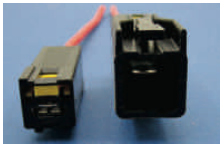
Crimping Tool for Junior Power Timer Terminals
150212
£41.64
(see page 125 for details)

3-POLE PLUG & SOCKET

3 pin black thermoplastic plug/socket with two larger pins and 1 small pin. All terminals are nickel plated and are rated at 2 x 25A and 1 x 5A respectively. Plug diameter 30mm, overall length 70mm, and comes with plastic dust cap for when not in use. Socket has mounting flange and spring loaded cap to prevent water ingress when not in use, and rubber cable shroud. Internal connections via 2 x 6.3mm & 1 x 4.8mm blade terminals.

Part No.	Type	Each
052001	Socket	£6.06
052002	Plug	£6.06

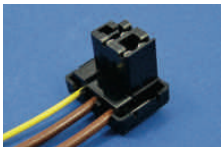
LARGE CABLE CONNECTORS



Single and double pole large cable connectors, having a current capacity of 75A. Supplied in pairs with all terminals (8mm blades) and terminal locking tabs. Connector halves 'click' together and cannot be separated without pushing a release catch tab. For use with cables up to 10mm^2.

Part No.	Terminals	Cable Size (mm^2)	Each	per 10
050801	1	4 - 6	£6.40	£54.58
050802	2	4 - 6	£10.05	£85.44
050803	1	6 - 10	£6.40	£54.58
050804	2	6 - 10	£10.05	£85.44

LUCAS/BOSCH ALTERNATOR PLUG



Black plastic plug servicing most Bosch and Lucas alternators. Supplied as plastic housing with lid and 2 x 9.5mm and 1 x 6.3mm female blade connectors.

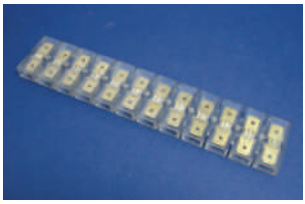
050901 £3.61

TERMINAL PROTECTION GREASE

Contralube 770. Used to protect connectors and terminals from moisture, corrosion, oxidation, dust, etc. Available in 8g sachets and 25g tubes.

072008 8g Sachet £3.50
072009 25g Tube £15.22

BLADE TERMINAL CONNECTORS

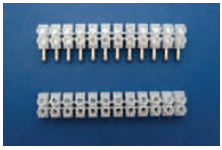


Insulated connectors to join two or three 6.3mm female blade terminals together. The twelve way strip can be cut into smaller strips.

Part No.	*Type*	*Each*	*per 10*
051101	Connector to join two blade terminals	£0.34	£2.89
051102	Strip of twelve of the above	£2.20	£18.82
051103	Connector to join three blade terminals	£0.58	£5.08

TERMINAL BLOCKS

Standard 12-Way
PVC terminal blocks with screw terminals.



Plug Together
Pair of male/female terminal blocks that can be plugged together and easily cut down to smaller units. Pin size 2.6mm.

Screw/Screw
Screw/screw terminations. Made from black filled polyester with chassis fixing holes. Require ring terminals with a 4mm diameter hole.

7-Way
Terminal block with seven common screw connections. Single mounting hole.

Part No.	*Max. Cable Size (mm^2)*	*Type*	*Each*	*per 10*
Standard 12-Way				
051104	3.0	12-way	£0.63	£5.36
051105	4.0	12-way	£0.79	£6.69
051106	6.0	12-way	£1.16	£10.40
Plug Together				
051107	3.0	12-way	£4.95	-
Screw/Screw				
051108	-	4-way	£3.94	-
051109	-	12-way	£7.70	-
7-Way				
051110	-	7-way	£5.32	-

SPARK PLUG TERMINALS & COVERS

Solder On

Blade type spark plug terminals.

Crimp-On (Straight)

Black silicon rubber covers and crimped on plated steel straight terminals. Each part can be bought separately. Suitable for 7mm ignition cable.

Crimp-On (90 Degrees)

Black silicon rubber covers and crimped on plated steel 90° terminals. Each part can be bought separately. Suitable for 7mm ignition cable.

Part No.	*Type*	*Each*	*per 10*
Solder On			
060103	Terminal	£1.18	£10.03
Crimp-On (Straight)			
060101	Terminal	£0.20	£1.60
060201	Cover	£0.61	£4.93
Crimp-On (90 Degrees)			
060102	Terminal	£0.26	£2.06
060202	Cover	£0.96	£7.83

Crimping Tool for HT Terminals
150601
£32.32
(see page 125 for details)

HT Terminal Kits
160107/08
from £43.66
(see page 121 for details)

SPARK PLUG THUMB NUTS

060104
£0.74 each

060105
£0.89 each

Machined brass thumb nuts to fit spark plugs. Available in two sizes. Small (9.4mm diameter) & large (12.1mm diameter).

PLUG CAPS & SUPPRESSOR

Non-Suppressed Plug Cap
Black phenolic straight plug cap, 70mm long. Screws on to HT cable and clips on to M4 thread on top of spark plug.

060501
£1.96 each / £17.72 for 10

NGK Suppressed 90 Degree Plug Cap (Small)
Fitted with a 5KΩ suppressor. Screws on to HT cable. Fits on to metal cap type spark plugs.

NGK LB05EH
£3.31 each / £29.77 for 10

NGK Straight Suppressed Plug Cap
Fitted with a 5KΩ suppressor. Screws on to HT cable. Fits on to M4 thread on top of spark plug.

NGK SB05F
£3.42 each / £30.76 for 10

Rubber Non Suppressed
Rubber spark plug cap with cable sealing clamp. Ideally suited for bikes and cars that get wet! Fits on to metal cap type spark plugs.

060502
£2.57

NGK Suppressed 90 Degree Plug Cap
Fitted with a 5KΩ suppressor. Screws on to HT cable. Fits on to M4 thread on top of spark plug.

NGK LB05F
£3.31 each / £29.77 for 10

NGK Suppressed 120 Degree Plug Cap
Fitted with a 5KΩ suppressor. Screws on to HT cable. Fits on to M4 thread on top of spark plug.

NGK YB05F
£3.75 each / £33.74 for 10

Champion (Rubber) Non-Supp
Champion rubber plug caps, non-suppressed. Screw onto HT cable and fit onto metal cap type spark plugs.

060607
£6.25 each / £56.25 for 10

NGK Non-Suppressed 90 Degree Plug Cap
Screws on to HT cable. Fits on to M4 thread on top of spark plug.

NGK LZFH
£2.26 each / £20.34 for 10

In-line Suppressor
Has screw thread at both ends so it can fixed on to an HT cable. Made from brown phenolic plastic with a 5KΩ carbon suppressor. 58mm long x 11mm diameter.

060603
£1.53 each / £13.88 for 10

Champion Suppressed WCX600
Champion WCX600 90° suppressed plug cap. Fitted with a 10KΩ suppressor. Screws onto HT cable. Fits on to metal cap type spark plugs

060606
£6.40 each / £57.60 for 10

Suppressed Plug Cap
Brown phenolic spark plug caps with a 5KΩ carbon suppressor. *(Note: these plug caps are unsuitable for use with high power electronic ignition systems)*. These plug caps screw on to the HT cable and clip on to the spark plug. (The spark plug requires the aluminium ferrule on its thread, for the cap to clip on to - SAE fitting). Approx 70mm long x 20mm diameter at the widest point.

060601
£2.75 each / £24.80 for 10

DISTRIBUTOR TERMINALS & COVERS

Terminals

Brass. For use with 7mm ignition cable. Suitable covers for straight (inc. cap) and 90° terminals are shown in the table below.

Covers (Straight)

Covers suitable for use on ignition coils and distributor caps. For use with 6 & 7mm HT cable.

Covers (90 Degrees)

Black PVC. Suitable for 7mm ignition cable. Has internal diamter of 14mm. For use with terminal 060302.

Bosch Terminals

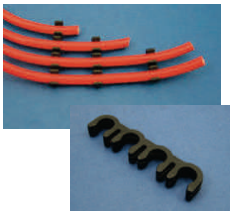
HT terminals to fit Bosch distributor caps having 4mm diameter pin terminals. Stainless steel. To suit 7 & 8mm diameter HT cable.

Part No.	*Type*	*Int. Dia. (mm)*	*Each*	*per 10*
Straight				
060301	Terminal	-	£0.25	£2.18
060304	Terminal (cap)	-	£0.32	£2.84
060405	Cover (Distributor)	14	£0.27	£2.40
060401	Cover (Distributor)	15	£0.20	£1.66
060403	Cover (Coil)	19	£0.20	£1.66
060305	Bosch 4mm Connector	-	£0.74	£6.62
90 Degrees				
060302	Terminal	-	£0.35	£2.91
060404	Cover (Distributor/Coil)	14	£0.41	£3.39

Crimping Tool for HT Terminals 150601
£32.32
(see page 125 for details)

HT Cable Markers 060901/02/03
from £0.54
(see page 16 for details)

IGNITION LEAD SEPARATORS



Black nylon clip-on ignition lead separators. Available in two, three and four lead versions.

Part No.	*Type*	*Each*
061001	2-lead	£0.21
061002	3-lead	£0.26
061003	4-lead	£0.34

IGNITION COILS

Standard

Metal cans with bakelite or polyester (060705) insulation. Connections via M5 studs or spade terminals. Coils are supplied with bolt-on 6.3mm male blades which can easily be removed to leave the studs available. HT connection via push-in terminal (060301 or 060302). Suitable cover 060403.

Acorn

Ignition coil with older style screw terminal HT connection. Low tension connections are 5mm studs which come complete with spade terminal connections (removable). Colour black.

Lucas

High performance 12V coils (060712 & 060713) allow plug gap to be increased for better combustion, giving better performance and economy.

"Electronic" coils are NOT for use with points.
"Ballast" coils are for use with ballast resistor (060703) overleaf.

Part No.	*6V/12V*	*Type*	*Part No.*	*Primary Resistance (Ω)*	*Each*
Standard					
060701	12V	Standard	-	-	£14.98
060702	12V	Ballast	-	-	£14.98
060705	12V	Electronic	-	-	£16.17
060704	6V	Standard	-	-	£18.19
Acorn					
060706	12V	Old-Style	-	-	£17.65
060707	6V	Old-Style	-	-	£18.53
Lucas					
060710	12V	Standard	DLB101	3.0	£18.84
060711	12V	Ballast	DLB102	1.5	£20.02
060712	12V	High Performance	DLB105	3.0	£23.14
060713	12V	High Performance, Ballast	DLB110	1.5	£27.88
060714	12V	Electronic	DLB198	1.0	£24.51
Bosch					
060725	6V	High Performance	0221124001	1.5	£39.95
060726	12V	High Performance	0221119027	3.0	£27.50
Twin Lead M/C					
060708	6V	Twin Lead	-	1.3	£31.00
060709	12V	Twin Lead	-	4.0	£33.00
Motorcycle					
060721	6V	Standard	-	1.5	£18.38
060720	12V	Standard	-	3.5	£18.38

Ballast Resistor
For use with 060702, 060711 and 060713.
060703
£4.96

Bosch
6V (0221124001) and 12V (0221119027) Bosch Ignition Coils.

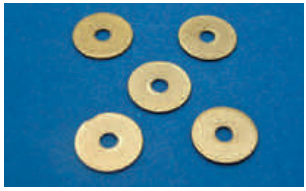
Twin Lead
Twin Lead Ignition Coil available in 6v and 12v versions. As fitted as OEM on early Japanese Bikes with points ignition.

Motorcycle
Small ignition coils, suitable for use on motorcycles. Aluminium cans, 40mm diameter x 92mm tall. Available in 6V or 12V.

DISTRIBUTOR / COIL ACORNS

Short (Distributor)
060801
£0.61 each / £5.25 for 10

Long (Coil)
060802
£1.24 each / £10.48 for 10



Brass Washers
060803 (for 060801 & 02)
£0.25 each / £2.10 for 10

LUCAS CONDENSORS

DCB104C
0.20 microfarad.
061101 £5.08

DCB121C
061102 £11.85

DCB203C
0.22 microfarad.
061103 £5.48

DCB703C
0.23 microfarad.
061104 £4.96

DCB752C3
0.20 microfarad.
061105 £3.78

DCB101C
061106 £4.11

DCB221C
0.22 microfarad.
061107 £5.16

DCB221C
0.20 microfarad.
061108 £7.69

BATTERY ACCESSORIES

Battery Post Cleaning Brush

Brush for cleaning standard battery posts and terminals. Has two brushes. One for the exterior of battery posts, the other for the interior of battery clamps.

072001 £8.93

Anti-Corrosive Compound

Neutralises corrosion and inhibits deterioration of terminals and metal parts on or near lead acid batteries.

072002 £3.69

Battery Removal/Carry Strap

Acid resistant belting, 25mm wide, with quick fix grips to fit terminal posts, and hooks for flat battery posts.

072003 £18.78

Battery Box (3 Sizes)

With hold down strap and fixings. Dimensions below shown in mm.

Small
Int: L270 x W180 x H250
Ext: L335 x W215 x H255

Medium
Int: L350 x W185 x H255
Ext: L435 x W245 x H265

Large
Int: L400 x W180 x H260
Ext: L440 x W240 x H275

072020 (red) £13.12
072021 (black) £16.53
072022 (yellow) £19.42

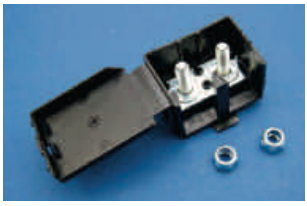
Medium
072021
£16.53

Large
072022
£19.42

Quick Release Battery Terminals

Quick release battery terminals with integral covers. Supplied as a pair. (One positive and one negative). The terminals are secured onto the battery posts by hinging down the covers.

070350 £9.70 per pair



Battery Lead Junction Box

A plastic junction box with a hinged lid capable of 300A continuous. It has 2 x 8mm studs so that many cables can be joined, and a fixing hole enabling it to be surface mounted.

070701 £9.41

Battery Hold Down Clamp

Punched angle bracket 348mm and two threaded 385mm J-bolts with wing nuts. Tin plated. Adjusts to fit all popular sizes of battery.

072401 £3.48

Battery Clamp Nut/Bolt

Replacement nut and bolt for battery clamps. 5/16 Whit thread. Electro-tin plated. 38mm long.

073003 £0.42

Terminal Posts
Single insulated terminal posts. Plastic base with M8 stud. Available in either black or red. 150A

070703 £4.46

Terminal Cleaning Tool
Tool for cleaning both negative and positive battery terminals and also battery posts. Has male tapered cutter for cleaning the battery terminals and two female tapered cutters for cleaning the battery posts.

072010 £11.45

BATTERY CLAMPS

Part No.	*Type*	*Cable Size (mm^2)*	*Each*
Screw Type			
070101	-ve	up to 40	£2.27
070102	+ve	up to 40	£2.27
070103	-ve	up to 60	£2.78
070104	+ve	up to 60	£2.78
Solder Type			
070205	-ve	up to 25	£3.68
070206	+ve	up to 25	£3.68
070201	-ve	up to 40	£3.68
070202	+ve	up to 40	£3.68
070203	-ve	up to 60	£4.62
070204	+ve	up to 60	£4.62
Stud Type			
070301	-ve	-	£2.82
070302	+ve	-	£2.82
End Feed			
072707	-	20	£2.57
072708	-	25	£2.57
Fused			
070303	Clamp	-	£6.34
070304	Nut	-	£3.31
101302	75A Fuse	-	£5.40
101303	100A Fuse	-	£5.40
101304	150A Fuse	-	£5.40
101305	200A Fuse	-	£5.40
101306	250A Fuse	-	£5.40
101307	300A Fuse	-	£5.40

BATTERY CLAMPS

Screw Type

Made from tinned brass.

Solder Type

Made from tinned brass.

Stud Type

Made from tinned brass.
Stud size 8mm dia.

Battery Clamp - Multi Stud

Battery clamps having 1 x M8 stud and 2 x M6 studs.

-ve	**070310**	£3.94
+ve	**070311**	£3.94

Battery Clamp Nut/Bolt

Replacement nut and bolt for battery clamps. 5/16 Whit thread. Electro-tin plated. 38mm long.

073003 £0.42 each

End Feed

Suitable for crimping and soldering. These are universal and will fit both positive and negative battery poles.

Battery Clamp - French Type

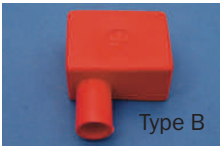
French style battery clamps, where the battery cable fits over the M8 stud. The process of tightening the plastic nut, clamps the cable and causes the terminal to grip the battery post.

-ve	**070361**	£4.46
+ve	**070360**	£4.46

Fused

Special stud type battery clamp capable of taking compact fuses. Fuses of different sizes can be fitted ranging from 75 to 300A, enabling the battery cable leaving the clamp to be fused. The special insulated nut must be used with this clamp. The ring terminal on the end of the battery cable must have a hole diameter of 10mm to fit this nut.

BATTERY CLAMP COVERS



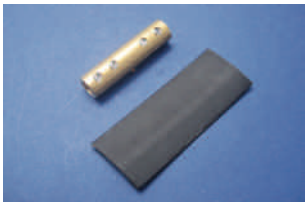
Screw/Solder
PVC battery terminal covers for use with screw and solder type battery terminals.

End Feed
For use with end feed type battery clamps (072707 & 072708).

Stud Type
For use with stud type battery clamps (070301 & 070302).

Part No.	*Type*	*Colour*	*Each*
Screw/Solder			
070501	A	Black	£0.93
070502	A	Red	£0.93
070503	B	Black	£0.93
070504	B	Red	£0.93
End Feed			
070505	-	Red	£0.93
070506	-	Black	£0.93
Stud Type			
070507	-	Black	£1.26
070508	-	Red	£1.26

BATTERY CABLE CONNECTORS



These connectors are used to join battery cables. Heavy brass body with four grub screws. Supplied with heat shrinkable sleeving.

Part No.	*Max. Cable Size (mm^2)*	*Each*
070601	35	£6.14
070602	50	£6.89

BATTERY CABLE TERMINALS - OPEN / CLOSED END

Open End

Tinned copper terminals suitable for crimping or soldering.

Closed End

Tinned copper terminals with inspection hole. Suitable for crimping or soldering.

PLEASE NOTE

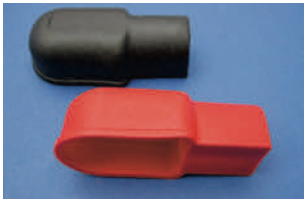
The figure given in mm^2 is the cross sectional area of the conductor of the cable, not its diameter. Please refer to page 12 for cable information.

Part No.	*Max Cable (mm^2)*	*Stud Hole Size (mm)*	*Each*	*per 10*
Open End				
070901	10	6	£0.49	£4.20
070902	10	8	£0.52	£4.55
070903	10	10	£0.57	£4.90
070904	16	6	£0.65	£5.48
070905	16	8	£0.68	£5.75
070906	16	10	£0.71	£6.05
070907	25	6	£0.74	£6.27
070908	25	8	£0.78	£6.53
070909	25	10	£0.80	£6.75
070910	40	6	£0.89	£7.57
070911	40	8	£0.93	£7.93
070912	40	10	£0.97	£8.27
070913	40	12	£1.01	£8.62
Closed End				
071001	6	6	£0.43	£3.60
071002	6	8	£0.43	£3.60
071029	10	5	£0.51	£4.43
071003	10	6	£0.51	£4.43
071004	10	8	£0.51	£4.43
071005	10	10	£0.52	£4.55
071006	10	12	£0.52	£4.55
071007	16	6	£0.58	£5.04
071008	16	8	£0.64	£5.36
071009	16	10	£0.64	£5.36
071010	16	12	£0.66	£5.59
071011	25	6	£0.68	£5.72
071012	25	8	£0.70	£5.94
071013	25	10	£0.72	£6.18
071014	25	12	£0.75	£6.40
071015	40	6	£0.80	£6.75
071016	40	8	£0.84	£7.12
071017	40	10	£0.87	£7.44
071018	40	12	£0.93	£7.93
071019	50	6	£1.06	£9.07
071020	50	8	£1.10	£9.45
071021	50	10	£1.14	£9.68
071022	50	12	£1.18	£9.91
071024	70	8	£1.28	£10.89
071025	70	10	£1.32	£11.25
071028	70	12	£1.36	£11.60

BATTERY TERMINAL COVERS

070801/02/03

070805/06



070804 (PVC)

Push-on rubber covers for terminals to insulate open or closed end battery terminals. Please note that 070804 (the largest) is made from PVC rather than rubber.

Part No.	*Int. Sleeve Dia. (mm)*	*Int. Cap ID (mm)*	*Colour*	*Each*	*per 10*
070801	6	11	Black	£0.45	£3.81
070802	7.5	15	Black	£0.46	£3.91
070803	9	15	Black	£0.51	£4.47
070805	10	17	Black or Red	£0.71	£5.81
070806	13.5	17	Black or Red	£0.71	£5.81
070804	17	27	Black or Red	£0.89	£7.57

BATTERY CABLE TERMINALS - RIGHT ANGLED / FLAG

Right Angled

Tinned copper terminals suitable for crimping or soldering.

Flag

Terminals suitable for crimping or soldering.

Part No.	*Max Cable (mm^2)*	*Stud Hole Size (mm)*	*Each*	*per 10*
Right Angled				
071104	16	8	£0.91	£7.69
071101	25	8	£1.06	£9.07
071105	40	8	£1.28	£10.95
071102	50	8	£1.60	£13.51
Flag				
072202	50	9.5	£0.80	£6.75
072203	70	13.5	£0.82	£6.98

BUTT SPLICES

Crimp butt splices for cable joining. Made from tinned copper.

Part No.	Max Cable (mm^2)	Each	per 10
072607	2.5	£0.22	£1.78
072608	4	£0.25	£2.14
072601	6	£0.42	£3.56
072602	10	£0.46	£3.91
072603	16	£0.51	£4.45
072604	25	£0.58	£5.00
072605	35	£0.76	£6.43
072606	50	£0.80	£6.78
072609	70	£1.18	£10.03

PREFORMED BATTERY CABLES

Battery Terminal to Ring Terminal

Made from 266/0.30mm, 20mm^2 battery cable, 135A capacity, 8mm ring terminal. Universal battery terminal to fit either positive or negative terminal.

Ring Terminal to Ring Terminal

Made from 37/0.90, 25mm^2 black cable, with 170A capacity. At each end of the cable is an 8mm ring terminal.

Part No.	Length (mm)	Each
Battery Terminal to Ring Terminal		
072101	225	£8.85
072102	300	£9.16
072103	450	£10.88
072104	600	£11.20
Ring Terminal to Ring Terminal		
071901	300	£6.21
071902	450	£7.34
071903	600	£8.47

EARTH STRAPS & BONDING STRAPS

Earth Straps

Tinned copper, 110A, 10mm diameter hole in end of braid. Fit negative battery terminal.

Bonding Straps

Universal flat bonding straps. Tinned copper, 100A, 24mm wide, 10mm diameter holes.

Part No.	Length (mm)	Each
Earth Straps		
071302	300	£5.55
071303	450	£7.12
Bonding Straps		
071401	150	£2.89
071402	300	£3.76
071403	450	£4.61

POWER CONNECTORS

Connectors

Handle

2-pole connectors used to safely and easily connect/disconnect battery/welding leads. *Two connectors are required.* For example: one mounted on the vehicle, the other on the end of the jump start battery leads. Supplied with terminals. A handle is available separately for 071502 & 071503.

Part No.	*Current Rating (A)*	*Max. Cable Size (mm^2)*	*Type*	*Each*
071501	50	6	Connector	£7.77
071502	175	35	Connector	£11.72
071503	350	70	Connector	£19.10
071601	(for 071502 & 071503)		Handle	£7.90

BATTERY ISOLATOR SWITCHES

Isolator Switch with Removable Key, Splash Proof Cover & Auxilliary Switches

This switch has an independent ignition switch to prevent engine run on in an emergency. Supplied with 3Ω resistor to suppress alternator surge spikes from damaging the car electrics when switched. 100A@24V, 500V for 5 secs. M10 studs. For wiring diagram see page 64.

071704 £23.59

Spare Key
071702
£1.85

Isolator Switch with Removable Key

100A@ 24V, 500A for 5 sec. M8 studs. Spare key and rubber protector cap available separately. Two fixing holes 45mm apart.

071716 £7.63

Spare Key
071710
£2.10

Rubber Protector Cap
071703
£0.98

High Quality, Metal Cased Isolator Switch

Waterproof to SAE J1171. 150A @ 24V continuous. 1000A @ 24V for 5 seconds. Non removable plastic key. Two fixing holes 45mm apart. 2 x M10 studs.

071708 £36.63

Double Pole Battery Isolator Switch

Rated at 125A continuously and 500A for 15 seconds. This isolator will break two circuits simultaneously. **071720** £37.96

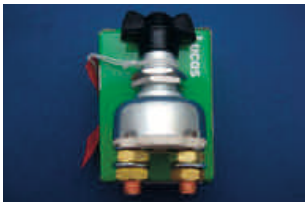
BATTERY ISOLATOR SWITCHES (contd)

Isolator Switch with Removable Key in the 'On' or 'Off' Position

100A@24V, 500V for 5 secs. M10 studs. Comes with 2 keys. Requires 23mm panel hole.

071705 £31.60

Spare Key
071706
£5.65



Lucas SSB106

150A continuous current capacity. 1500A intermittent capacity. Has 3/8" Whitworth studs and requires 19.5mm mounting hole.

071717 £43.71

Replica Lucas SSB106

Fixed black handle and metal case. 120A@12V. M10 studs. Requires 19mm panel hole.

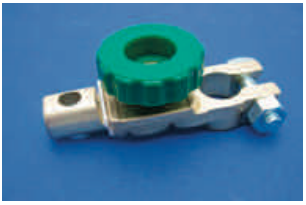
071707 £14.77

Marine Battery Isolator

Quick disconnect. Marine battery isolator with removable key and splash proof cover. Rated at 100A@24V. M10 studs. Requires 22.5mm fixing hole.

071711 £20.59

Spare Key
071712
£2.47



Quick Disconnect Battery Terminal (Without Fuse)

Fits directly to the battery negative post. Green plastic tightening wheel for quick electrical disconnection. Available with or without terminal bridging fuse holder (for radio, alarm and clock feeds). Very easy and quick to fit; simply remove the negative lead from the battery, bolt the switch to the now revealed negative battery post and reconnect the battery lead to the post on the end of the switch.

070401 £8.13

With Fuse
070402
£9.95

Marine Isolator - 600A

Fixed knob and padlock hole. (Can be locked in either on or off position with suitable padlock). Rated at 600A continuous (1 hr) and 2500A for 5 seconds. Max voltage 48V. Has knock out sections for battery cables. Studs are M12. 102 x 102 x 90mm.

0-605-12 £54.60

Marine Isolator & Change Over Switch

Quick disconnect. Can be used to select between batteries one, two, both or off. Rated at 175A@12V and 300A for 5 seconds. M10 studs.

071713 £34.34

Lucas SSB103

Has 3rd terminal that can be used to kill ignition when switched off.

071709 £53.90

STARTER SWITCHES / SOLENOIDS

Lucas Replacement 12V Starter Solenoid

Manual rubber button. Two battery terminal connections (M8 studs), 1 x 6.3mm blade switch connection.

071801 £23.09

Lucas Replacement 24V Starter Solenoid

24V version of the above (with insulated return). Two battery terminal connections (M8 studs), 2 x 5mm studs for switch connections.

071808 £23.09

Lucas Replacement Basic 12V Solenoid

2 x M8 fixings for battery cable terminals and 1 x 6.3mm blade terminal.

071802 £11.72

Lucas Replacement Basic 24V Solenoid

24V version of the above (with insulated return). 2 x M8 fixings for battery cable terminals and 2 x 6.3mm blade terminals.

071809 £15.05

Lucas Replacement 12V 4-Terminal Solenoid

This solenoid replaces the Lucas basic 4 terminal solenoid. Has 2 x M8 studs for battery cable connections and 2 x 6.3mm blade terminals for switch connections.

071810 £13.44

Floor Mounted Foot Operated Starter Switch

Connects the two battery terminals (8mm studs) together.

071803 £25.12

6V Starter Solenoid

Battery cable connection via 2 x M8 Studs. Switch connection via M5 stud. This unit needs to be earthed. Supplied mounted to bracket.

071807 £22.73

Lucas SRB311 (ST18/1) Starter Switch

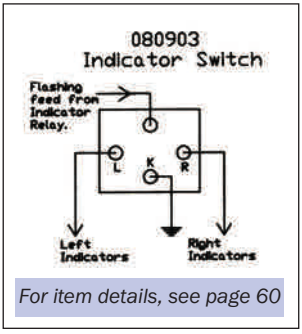
2 .5" dia. black fixing plate with aluminium knob. 2 x 5/16" stud terminals.

071805 £43.81

Pull Starter Switch

Replica version of Lucas 76701 pull starter switch. Contact is made between the battery terminals by pulling on the pin. This is often achieved by using a cable attached to the pin and having a starter pull handle within the vehicle, that pulls on this cable. Used on many MG's. Battery cable connections 5/16" studs (8mm), requires 10mm diameter mounting hole.

071812 £26.78



For item details, see page 60

TOGGLE SWITCHES - METAL / SPLASH PROOF

Metal - Single Pole

Metal - Double Pole

Splash Proof

Metal toggle switches with plated levers. All have 6.3mm blade terminals and require a 13mm panel hole. Current ratings in the table below are at 12V. Rubber waterproof covers are also available.

Single pole switches with rubber sealing gaiters over nickel plated brass levers. 6.3mm blade terminals. Require 13mm panel hole.

Rubber Covers
£1.43

Part No.	Type	Positions	Terminals	Current (A)	Each
Metal - Single Pole					
080101	On/Off	2	2	16	£4.21
080107	Off/(On)	2	2	16	£4.75
080102	On/On	2	3	16	£4.47
080103	On/Off/On	3	3	16	£4.47
080104	On/Off/(On)	3	3	16	£4.99
080106	(On)/Off/(On)	3	3	16	£4.99
080105	Off/OnA/OnA+B	3	3	20	£9.19
Metal - Double Pole					
080201	On/Off	2	4	16	£5.97
080202	On/On	2	6	16	£6.50
080203	On/Off/On	3	6	16	£6.65
Rubber Covers					
080301			For use with 080107		£1.43
080302			For use with 080101-6		£1.43
Splash Proof					
081801	On/Off	2	2	10	£8.53
081802	On/Off/On	3	3	10	£9.72
081803	On/Off/(On)	3	3	10	£9.48
081804	(On)/Off/(On)	3	3	10	£9.48

NOTE: (On) means momentarily on, ie. the lever springs back to the off position when released.

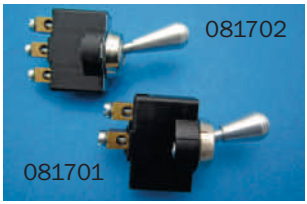
TOGGLE SWITCHES - LUCAS / LED / ALUMINIUM

Lucas

Original Lucas items. Connections via 6.3mm blade terminals. All require 13mm panel hole. Will fit panels up to 3mm thick.

LED

Nickel plated on/off single pole toggle switches with 12/24V LED indicator at the end of the toggle. Connections via 6.3mm blade terminals. Require 13mm panel hole.



Aluminium/Plastic

Toggle switches with turned aluminium levers. Single pole. Require 13mm panel hole. Maximum panel thickness 2.5mm. Screw connections.

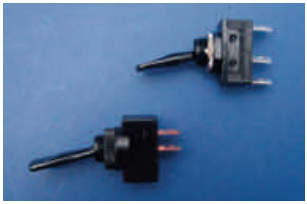
Part No.	*Type*	*Lucas Part No.*	*Positions*	*Terminals*	*Current (A)*	*Each*
Lucas						
081601	On/Off	SPB200	2	-	5	£8.93
081602	On/Off/On	31743	3	-	10	£17.16
081603	On/On	31780	2	-	10	£15.64
081604	Off/OnA/OnA+B	31788	3	-	10	£12.70
081606	Off/On/On	35927	3	-	10	£14.70
081607	On/On	34889	2	-	10	£14.78
081608	On/(Off)	SPB365	2	-	10	£4.15
LED						
082201	On/Off (Blue)	-	2	3	25	£4.99
082202	On/Off (Green)	-	2	3	25	£4.99
082203	On/Off (Red)	-	2	3	25	£4.99
082204	On/Off (Amber)	-	2	3	25	£4.99
Aluminium/Plastic						
081701	On/Off	-	2	2	6	£5.83
081702	On/Off/On	-	3	3	6	£4.57

MINATURE TOGGLE SWITCHES

Part No.	*Type*	*Positions*	*Terminals*	*Each*
082301	On/Off	2	2	£2.77
082302	On/On	2	3	£2.77
082303	On/Off/On	3	3	£2.77

Metal lever, solder connections. Require 6mm panel hole. 6A @ 12V.

TOGGLE SWITCHES - PLASTIC



Plastic

Toggle switches with black plastic levers. 6.3mm blade terminals. Require 13mm panel hole. All single pole. Current ratings below are at 12V.

Long Lever Plastic

75mm long plastic lever. 6.3mm blade terminals. Requires 12.5mm panel hole. 10A @ 12V.

Illuminated Plastic

On/Off toggle switches which illuminate when switched on. 10A@12V. Require 13mm panel hole. 2 x 6.3mm blade terminals. Available in blue, green or red.

NOTE: (On) means momentarily on, ie. the lever springs back to the off position when released.

Part No.	*Type*	*Positions*	*Terminals*	*Current (A)*	*Each*
Plastic					
080401	On/Off	2	2	10	£0.81
080402	(On)/Off	2	2	16	£1.03
080403	On/On	2	3	5	£1.03
080404	On/Off/On	3	3	10	£3.43
Long Lever Plastic					
080406	On/Off	2	2	10	£2.81
Illuminated		*Available in BLUE, GREEN or RED*			
080501	On/Off	2	2	10	£1.78

TOGGLE SWITCH ACCESSORIES

Safety Guard

Moulded plastic and spring loaded to cover toggle. Prevents accidental switch use. Fits most 13mm diameter toggle switches.

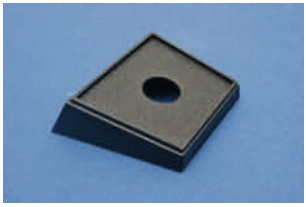
Part No.	*Colour*	*Each*
082002	Red	£3.10
082003	Blue	£3.10
082004	Green	£3.10
082005	Yellow	£3.10

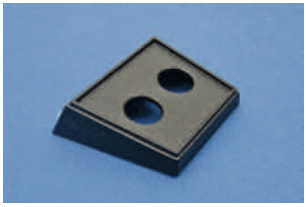
Toggle Switch Fascia

Simply place under the nut that secures the switch. A tag on the fascia ensures it is the correct way up.

082001 £0.77

SWITCH PANELS





Made from black plastic. All switch panels have 13mm mounting holes.

Part No.	*Type*	*Each*
080603	1 hole	£0.74
080604	2 holes	£0.94

SWITCH PANEL ASSEMBLIES

Basic Switch Panel

Chrome plated basic switch panel featuring:

- On/off toggle switch protected by flip up red cover
- 12V red warning lamp
- Rubber push starter button

Panel size approximately 90mm x 65mm.

080607 £8.93

Battery Switch Panel

Chrome plated switch panel featuring:

- Battery isolator switch with removable key
- 12V red warning lamp
- Rubber push starter button

Panel size approximately 135mm x 65mm.

080609 £13.39

Five Hole Switch Panel

Chrome plated five hole switch panel featuring:

- On/off toggle switch protected by flip up red cover
- 12V red warning lamp
- 12V green warning lamp
- Rubber push starter button
- Auxilliary on/off switch

Panel size approximately 135mm x 65mm.

080608 £11.29

PUSH/PULL SWITCHES

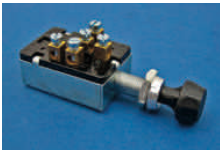
Simple Push/Pull Switch

On/off. Black knob. Two screw terminals. 25A @12V. 8mm fixing hole. Maximum panel thickness 2.5mm.

080701 £1.75

As above except max. panel thickness 12mm.

080707 £1.88



3 Position Heavy Duty Switch

Off/On A/On A+B. Suitable for side/ headlamps. Screw terminals. 10A@12V. 13mm fixing hole.

080702 £8.99

Illuminated On/Off

Only illuminated when switched on. 6.3 mm blade terminals. 10A@12V. 13mm fixing hole. Available with green, red, white or amber lens.

080703 £8.85

Lucas SPB104 Replica

Simple push/pull switch. On/off. Two screw terminals. Requires 10mm panel hole. Maximum panel thickness 13mm.

080708 £13.39

DOOR SWITCHES

Plastic Universal - Single Blade

Single 6.3mm blade terminal (circuit completes through switch body). Centre distance between plunger and fixing screw 10-15mm. Plunger length 0-20mm and is self setting first time door is shut.

081501 £3.09

Plastic Universal - Two Blades

Two 6.3mm blade terminals. Centre distance between plunger and fixing screw 10-15mm. Plunger length 0-20mm and is self setting first time door is shut.

081502 £3.56

Metal Universal - 11mm Plunger

Single 6.3mm blade terminal (circuit completes through switch body). Plunger length 11mm, 22mm between fixing holes.

081503 £5.46

Metal Universal - 4.5mm Plunger

Single 6.3mm blade terminal (circuit completes through switch body). Plunger length 4.5mm, 22mm between fixing holes.

081504 £5.46

PUSH BUTTON SWITCHES

Red Plastic Button

Aluminium body. Two 6.3mm blade terminals. Requires 22mm panel hole.

080815 £7.09

Bosch Polished Aluminium

Black button. Surface mounted. Very similar to vintage Bosch switches, except cover clips on rather than screws on. 15A@12V. External diameter 35mm. Two screw terminals.

080804 £29.36

Stainless Steel Button

Nickel plated brass body. Screw terminals. Requires 19mm panel hole. 6A @ 12V DC.

080814 £4.59

Black Knob - Metal Housing

10A@12V. Two screw terminals. 22 mm fixing hole.

080802 £6.06

Lucas SPB160 Horn Push Switch

Has screw terminals and two mounting ears with mounting hole centres 42.5mm apart. 5A @ 12V.

080808 £8.25

Lucas SPB105 Panel Switch

Similar to SPB106 but with screw terminals.

080819 £11.55

Waterproof Push Button Switch

Has black rubber cover and requires 22.5mm panel hole. Maximum panel thickness 5mm. Two screw terminals. 16A @ 12V.

080806 £6.03

Black Knob -Plastic Housing

12.5A@12V. Two screw terminals. 22 mm fixing hole.

080801 £4.45

Latching Push Button Switch

Metal button, metal housing. When pushed on, it remains on until pushed again. 13mm panel hole. Two 6.3mm blade terminals. 6A @ 12V DC.

080813 £12.40

Lucas SPB106 Panel Switch

Lucas SPB106 panel switch. Chrome plated body with black push button. Requires 20mm panel hole. Maximum panel thickness 3mm. 2 x 6.3mm blade terminals. 11A @ 12V.

080807 £19.58

Replica version of above.

080817 £11.61

Black Knob

Plastic housing (20mm diameter). Two screw terminals. Requires 14mm fixing hole. 10@12V.

080818 £8.30

Black Knob -Plastic Housing

Two screw terminals. 15.5mm fixing hole. 7A @ 12V.

080812 £4.84

INDICATOR SWITCHES

Toggle Switch with Black Plastic Knob

With 3 screw terminals. 5A@12V. 13mm fixing hole.

080901 £2.97

Rotary Switch with Illuminated Green Plastic Lever

Screw terminals. Requires 27mm panel hole. 6A@12V. (Matches switch 081004 - p.62).

080902 £14.54

Rotary Switch with Black Plastic Lever

Screw terminals. Requires 27mm panel hole. 6A@12V. (Matches switch 081004 - p.61).

080905 £12.46

Lucas SQB118 Column Switch

A useful universal switch having the following functions:
1. Indicator switch, by moving the stalk up/down.
2. Dip switch, by moving the column front/back.
As fitted to various 1970's MG's, etc.

SQB118 £42.18

Steering Column Mounted Switch

110mm stalk. Mounts on columns up to 40mm dia. 16A@12V. Illuminated switch supplied with bulb and wiring diagram. Connection details see page 53.

Illuminated
080903 £23.84
Non-Illuminated
080904 £20.73

Spare Bulb 130108 £0.55

Toggle Switch with Turned Aluminium Lever

Single pole. Requires 13mm panel hole. Max. panel thickness 2.5mm. Screw terminals. 6A @ 12V.

081702 £4.57

Rotary switch with Black Plastic Lever and Red Warning Lamp

Screw terminals. Requires 26mm fixing hole. Requires BA7s bulb (6V - 130201, 12V - 130202). Supplied with wiring diagram - see page 64.

080906 £16.13

Metal Toggle Switch with Plated Lever

6.3mm blade terminals. Requires 13mm panel hole. 16A@12V.

080103 £4.47

Toggle switch with Illuminated Green Lever

Requires 18.5mm panel hole. Screw terminals. Supplied with 12V bulb.

080907 £13.09

Spare Bulb 130108 £0.55

Lucas SPB120 Indicator Switch

White plastic with integral red warning lamp. For mounting on dashboard surface. 46mm between mounting hole centres. Supplied fitted with a 2.2W MES bulb. MES replacement bulbs are also available.

080908 £41.46

INDICATOR SWITCHES (contd)

Rotary Switch - Old Style

Old style rotary switch suitable for use as an indicator switch. Has two independent on/off/on switches, each with three terminals, so can also be used to control warning lights/buzzers, etc. at the same time as indicating. Requires 14mm panel hole. Connection via six 6.3mm blade terminals.

080911 £10.01

HAZARD SWITCHES

Panel Mounted -Push On

With illuminated button. Requires 30mm panel hole. 6.3mm blade connections. Useful connecting socket available separately. Supplied with wiring diagram.

081901 £22.26

Connecting Socket

For above item 081901. Includes 7 x 050203 terminals.

081902 £1.81

Rocker - Illuminated

One of a range of single pole rocker switches that can be mounted individually or clipped together using special mounting frames to form a switch panel. Rated at 15A @ 28V DC. Required panel cut out is 44 x 22mm. Supplied with wiring diagram - see p.65.

081223 £27.97

Rocker - Non-Illuminated

Fits 37 x 18mm aperture. Non illuminated. 7 x 4.8mm blade connections. Supplied with wiring diagram - see p.83.

081904 £8.28

Lucas SFB300 Hazard Kit

Includes hazard flasher relay, switch (with illuminated knob) and mounting bracket.

081903 £29.92

Rocker Hazard Kit

This kit contains an illuminated rocker hazard switch combined with a hazard relay fixed on a common bracket, for mounting on the bottom surface of a dashboard etc. It is prewired and simply needs a 12V power supply and connection to the four vehicle indicators. Negative or positive earth.

081905 £11.66

ROTARY SWITCHES

On/Off, 2 Position - Illuminated

Water resistant, illuminated rotary switch. Comes complete with 3 different coloured lenses (red, amber, green) and bulb. Black knob. 15A @ 12V. Fixing hole 13mm. 6.3mm blade terminals.

081001 £12.10

On/Off, 2 Position

As above, but non-illuminated.

081005 £8.76

LUCAS PLC5 Ignition & Lighting Switch

Requires 53mm diameter hole and secures in place with clip. Screw type wire connections, and supplied with 2 keys.

081140 £68.25

Off/OnA/OnA+B/ OnA+C

Four position, water resistant rotary switch. Black knob. 15A @ 12V. Fixing hole 13mm. 6.3mm blade terminals.

081002 £12.16

Connector Socket

For use with switches 081001, 081002 and 081003. Supplied with all terminals.

081006 £1.75

LUCAS PLC6 Ignition & Lighting Switch

Requires 53mm diameter hole and secures in place with clip. Screw type wire connections, and supplied with 2 keys.

081141 £68.25

Off/OnA/OnA+B

Three position water resistant rotary switch. Black knob. 29A @ 12V. 6.3mm blade terminals. 13mm fixing hole. Suitable for light switch off/side/head.

081003 £13.95

Off/OnA/OnA+B/ OnA+C

Four position switch with black plastic lever and screw terminals. Requires 27mm panel hole. 11A @ 12V. (Matches switch 080905 - p.59).

081004 £16.38

Off/OnA/OnA+B

3 position rotary switch. Black knob. 15A @ 12V. 3 x 6.3mm blade terminals. 14.5mm panel hole size required, max panel thickness 10mm

081008 £6.82

Lucas SQB967 Wash/Wipe

On/off rotary switch combined with a momentarily-on push switch (used to operate windsreen washer pump). The switch can therefore be rotated to switch wipers on and/or pushed to squirt the washers. 1/4" hexagonal shaft. Requires 14mm diameter panel hole. Connection via 6.3mm blade terminals.

081007 £36.74

Lucas U39 lighting switch (Replica)

Off/Low/High used on many Magneto ignition / DC electrics models.

081011 £16.80

Lucas 41SA Lighting Switch (Replica)

Requires 20mm hole, max panel thickness 3mm.

081010 £23.10

DIP SWITCHES

Basic

Foot operated dip switch. Screw terminals.

081301 £10.89

Lucas 31284

Foot operated dip switch. Connection via 3 x screw terminals.

081303 £25.72

Lucas SPB296

Foot operated dip switch. Connection via 6.3mm blade terminals.

081304 £10.55

KEY SWITCHES

Off/On

Three terminals (Feed In, 2 x Out), 18.5mm fixing hole, supplied with 2 keys. 6.3mm blade terminals.

081101 £19.59

Off/Ign/Start

Five terminals (Feed In, Auxiliary, 2 x Ignition, Starter), 18.5mm fixing hole, supplied with 2 keys. 6.3mm blade terminals.

081102 £25.03

On/Off Double Pole

With removable metal key and 6.3mm blade terminals. (The key is only removable when in the off position). Requires 12mm panel hole. 20A @ 12V.

081105 £53.73

Spare Key

081106 £2.77

Off/Aux/Ign/Start

Four terminals, 18.5mm fixing hole, supplied with 2 keys. 6.3mm blade terminals.

081103 £24.75

Lucas 128SA 35288

Four position switch, supplied as body only. 1) Off, 2) Aux & Ign, 3) Aux, Ign & Heater, 4) Ign, Heater & Start. Positions 3 and 4 are spring loaded, so that when released the key will return to position 2. Connection by 6.3mm and 9.5mm spade terminals. Requires 19.6mm dia. mounting hole.

Requires 081130 Barrel & Keys Set (sold separately).

Lucas
35288 £30.09

Spare Key for 081101 to 081103

081107 £3.97

Lucas 128SA 35670

Four position switch. 1) Off, 2) Aux, 3) Aux/Heater, 4) Aux/Heater/Start. Positions 3 and 4 are spring loaded, so that when released the key will return to position 2. Connection by 6.3mm and 9.5mm spade terminals. Will fit either 19.6mm hole or 16mm hole (stepped mounting). Supplied with key.

Lucas
35670 £20.39

Lucas 54316731 Barrel & Keys Set

Lock and keys, to fit various Lucas key switches.

081130 £5.76

KEY SWITCHES (contd)

Requires 081130 Barrel & Keys Set (sold separately).

Lucas 47SA 31973

Three position switch. 1) Off, 2) Ignition, 3) Start. Position 3 is spring loaded, so that when released the key will return to position 2. Connection by 6.3mm spade terminals.

081120 £17.47

Simple Key Switch

On/off key switch. Key can be removed in either the off or on postion. 6A @ 12V.

081108 £8.87

Parking/Off/Ign/ Side/Main/Dip

Seven terminals, fixing hole 26.5mm, supplied with 2 keys. 9.5mm & 6.3mm blade terminals. Manufactured in Germany. Functions: 1) Parking (Side), 2) Off, 3) Ignition, 4) Ignition & Side, 5) Ignition & Side & Dip, 6) Ignition & Side & Main.

081104 £28.81

Lucas 47SA 34680

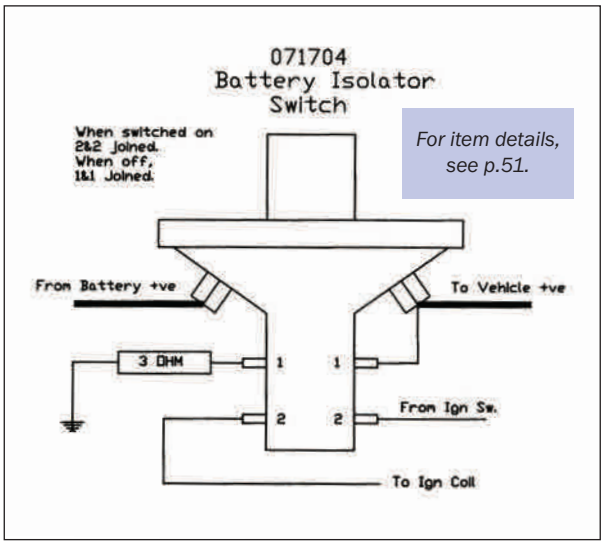
Aux/Off/Ign/Start. Supplied complete with barrel and keys.

081121 £21.54

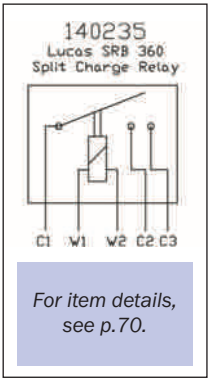
Lucas 128SA 35327

Four position switch. 1) Off, 2) Aux/Alt, 3) Aux/Heater, 4) Aux/Heater/Start. Connection by 6.3mm and 9.5mm spade terminals. Supplied with 2 keys.

081110 £30.08



For item details, see p.51.



For item details, see p.70.

ROCKER SWITCHES

On/Off - Non-Illuminated

2 x 6.3mm blade terminals. Case size 33 x 19mm. 10A @ 12V. 12.5mm fixing hole.

081201 £2.05

On/Off - Illuminated

4.8mm blade terminals. Snaps into 20mm dia. panel hole. 10A @ 12V. Available in RED or AMBER.

081230 £3.10

On/Off

4.8mm blade terminals. Snaps into 20mm dia. panel hole. 10A @ 12V.

081204 £2.05

Electric Window/Aerial

Rocker switch for operating electric windows or an electric aerial. Switch only operates when pressed. Contains 2 independent change over switches. Connection via 5 x 4.8mm blade terminals. To fit an aperture 37mm x 18mm.

081241 £4.55

On/Off - Illuminated

3 x 6.3mm blade terminals. Case size 33 x 19mm. 10A @ 12V. 12.5mm fixing hole. Available in BLUE, GREEN, RED or AMBER.

081206 £2.20

On/Off

4.8mm blade terminals. Snaps into panel hole 19.5 x 13mm. 10A @ 12V.

081202 £2.02

On/Off with Fluorescent Indicator

6.3mm blade terminals. Snaps into panel hole 30 x 11mm. 16A @ 12V.

081203 £2.07

On/Off with LED Indicator

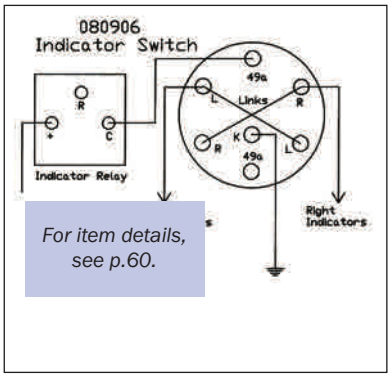
4.8mm blade terminals. Snaps into 20mm dia. panel hole. 10A @ 12V.

081205 £4.03

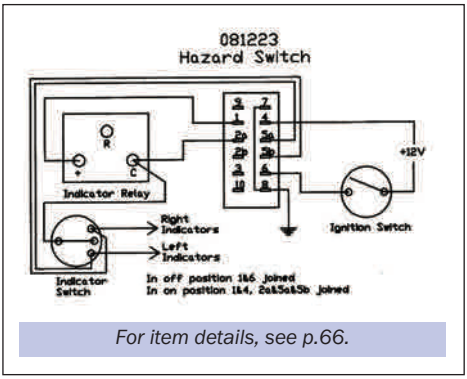
Illuminated LED Electric Window Rocker Switch

Switch only operates when pressed. 20A @ 12V

081240 £3.94



For item details, see p.60.



For item details, see p.66.

MODULAR ROCKER SWITCHES - SPECIFIC

A range of high quality illuminated single pole rocker switches that can be mounted individually or clipped together using special mounting frames to form a switch panel. The coloured panel(s) can be made to illuminate either when switch is 'switched' or, for example, when vehicle lights are turned on. Switch ratings are 15A @ 28V DC. To mount individual switches (without using the mounting frames), the required panel cut out is 44 x 22mm. The rear of the switches have 6.3mm blade terminals, so require 6.3mm female blades for connection. Alternatively a special connector block 081227 is available - p.67. Supplied with wiring diagrams.

Wiper

Washer

Rear Screen Wiper

Lights

Side Lights

Front Fog

Rear Fog

Instrument Lights

Hazard Warning

Fan

NOTE: (On) means momentarily on, ie. the lever springs back to the off position when released.

Part No.	*Use*	*Type*	*Each*
081215	Wiper	Off/On/On	£18.24
081216	Washer	Off/(On)	£11.91
081217	Rear Screen Wiper	Off/On	£11.65
081218	Lights	Off/OnA/OnA+B	£17.68
081219	Side Lights	Off/On	£11.65
081220	Front Fog	Off/On	£11.65
081221	Rear Fog	Off/On	£11.65
081222	Instrument Lights	Off/On	£11.65
081223	Hazard Warning	Off/On	£27.97
081224	Fan	Off/On	£11.65

MODULAR ROCKER SWITCHES - NON-SPECIFIC

Description as per “Specific” modular rocker switches. Available in all black or with coloured light up panel.

NOTE: (On) means momentarily on, ie. the lever springs back to the off position when released.

Black

Coloured Panel

Part No.	Type	Each
Black		
081207	Off/On	£8.38
081208	Off/(On)	£9.62
081209	On/On	£8.99
081210	On/Off/On	£10.86
081211	(On)/Off/On	£10.86
081212	(On)/Off/(On)	£10.86
081213	Off/OnA/OnA+B	£13.90
Coloured Panel	*Available in BLUE, AMBER, RED or GREEN*	
081214	Off/On	£10.87

MOUNTING FRAMES & CONNECTOR BLOCK

For use with all modular rocker switches on p.64 and above. Two types of mounting frames are available; end frames and middle frames. All clip together. The required cut out per frame is 26 x 48mm. To aid connection to each switch a special connector block (081227) is available, supplied with all terminals.

End Frame
081225 £3.85

Middle Frame
081226 £3.85

Connector Block
081227 £3.85

Blanking Plate
081228 £3.85

RHEOSTAT

Lucas 78405
083001 £43.50

Knob to fit 78405
083002 £5.46

Lucas 78405 rheostat. Hexagonal shaft. 0-15 Ohms resistance, 2 x 6.3mm blade connections.

BRAKE LIGHT SWITCHES - MECHANICAL

Switch with Spring and Hook

Makes contact when spring is *PULLED*. Rubber cover to protect terminals available separately.

081401 £6.79

Spring-Loaded Plunger

Can be pushed or pulled (switch closed at rest). Small hole in plunger shaft for attaching pulling wire if required. Rubber cover to protect terminals available separately.

081402 £4.80

Switch with Spring and Clamp

Can be mounted on a flat surface or clamped to a tube (up to 25mm dia). Makes contact when spring is *PULLED*. Rubber cover to protect terminals available separately.

081403 £9.09

Plunger Switch

M12 x 1.0 fixing thread. Contacts are *NORMALLY CLOSED* until the plunger is depressed, and then they break. 2 x 6.3mm blade terminals. Thread length 18mm. Supplied with two fixing nuts.

081409 £6.91

Rubber Cover

For use with 081401, 081402 & 081403. Protects terminals from ingress of moisture, etc.

081404 £2.20

Plunger Switch

Normally open and closed. M10 x 1.25 thread and two pairs of contacts. When plunger is depressed, one pair make and the other pair break.

081414 £12.55

Lucas SMB420 Plunger

Normally open. Has 3/8 x 24 UNF fixing thread. When the plunger is depressed the contacts make.

081413 £11.95

BRAKE LIGHT SWITCHES - HYDRAULIC

Blade Terminals

Screw Terminals

Part No.	*Type*	*Each*
Blade Terminals		
081405	1/8" x 27NPTF (Replaces Lucas SMB423)	£11.75
081406	3/8" x 24UNF (Replaces Lucas SPB401)	£11.75
081407	M10 x 1 (Replaces Lucas SMB426)	£11.75
Screw Terminals		
081411	1/8" x 27NPTF	£10.66

RELAYS - 6V

All of the following relays have B-type pin configuration.

Make & Break

20A @ 6V. Four 6.3mm blade terminals. With mounting lug.

140217 £7.13

Fused Make & Break

30A @ 6V. Four 6.3mm blade terminals. Metal bracket can be removed if necessary.
NOTE: Will not fit into relay box 140304.

140218 £8.28

Change Over

20/30A. 5 Terminals (6.3mm blade). Removable metal bracket.

140210 £13.21

6V Flasher Units/Relays - see p.72

RELAYS - 12V

All of the following relays have B-type pin configuration.

Make & Break

40A @ 12V. Four terminals (6.3mm blade). Removable bracket. Available with or without diode across coil.

140201 £2.74
140250 £3.10
(Diode)

Fused Make & Break

30A. 4 x 6.3mm blade terminals.
NOTE: Will not fit into relay box 140304.

140202 £5.58

Heavy Duty Make & Break

70A. 4 x terminals; 2 x 6.3mm and 2 x 9.5mm blades.

140203 £8.09

Double Make & Break

2 x 15A. 5 x 6.3mm blade terminals.

140204 £5.75

Twin Make & Break

30A. 5 terminals (6.3mm blade).

140205 £5.22

Change Over

20/30A. 5 terminals (6.3mm blade). Metal mounting lug can be removed if necessary. Available with or without diode across coil.

140206 £5.08
140251 £5.30
(Diode)

Twin Make & Break

Two 12V make and break relays mounted on one common bracket.

140212 £8.77

12V Flasher Units/Relays - see p.72-73

RELAYS - 12V (contd)

Lucas SRB630 Split Charge

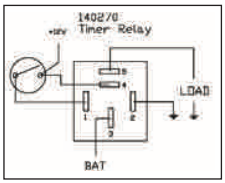
Enables connection of second battery and/or fridge. Can be triggered from ignition supply or alternator warning light terminal. For wiring diagram - see p.64. 12V.

140235 £20.70

Timer Relay

12V & 24V timer relays with adjustable timer control. This relay can be set to time between 0.5 seconds and 6 hours, so is suitable for numerous applications. Effectively a change over relay, so it can be used to either switch on after a certain time period or switch off. It requires a momentary voltage pulse to trigger. Relay time is changed by turning two small normally hidden (by removable bungs) rotary switches.

12V **140271** £31.34
24V **140272** £32.05



Latching

This relay is a change over relay that can be remotely controlled by a momentarily on switch. For example, use this as a dip switch with a push button switch to change between main beam and dip and vice versa. 12V, 25A with resistor.

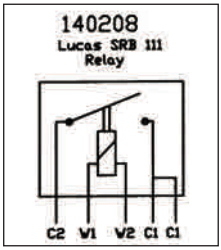
140209 £19.46
Also available in 24V (12A).

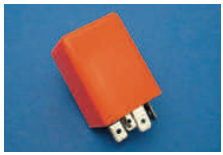
140221 £20.46

Extra Heavy Duty Make & Break

100A @ 12V. Has 2 x M6 stud connectors (for circuit to be switched) and 2 x 6.3mm male blade connectors (trigger connections). Approx 45mm x 45mm x 45mm, with integral bracket.
NOTE: This unit will not fit into a relay socket.

140211 £14.79





Timer - 10 Minutes

Switches off after 10 minutes. Useful for functions such as heated screens, etc. 5 x 6.3mm blade connections. 12V.

140270 £12.31

Replica Lucas SRB146 Change Over

A good replica of the Lucas SRB146 change over relay. 20/30A switching capacity. (Supplied with wiring diagram). 12V.

140281 £20.44

Lucas SRB111 Make & Break

20A switching capacity. Normally open. 12V. (Supplied with wiring diagram).

140208 £16.59

Timer - 15 Seconds

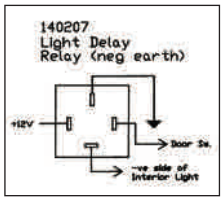
Once the relay is powered, the output terminal will become live. After 15 seconds the relay will change state and the voltage at the output terminal drops back to 0 Volts (ie. switches off). 20A capacity. Useful for switching off indicators, priming pumps, etc. 6.3 blade terminals. Will fit relay sockets 140301, 140303, relay box 140304 (without lid) and 140305.

12V **140275**
£19.88
24V **140275-24**
£21.00

Interior Light Delay

Gives 10 seconds delay to interior lights going off. 4 x 6.3mm blade connections. (Supplied with wiring diagram). 12V

140207 £12.05



LUCAS 33RA RELAYS

Make and break relays. with 4 terminals. 85 and 86 are the coil connections (6.3mm blade). 30 (feed in) and G (load out) are screw connections. When energised, 30 and G are connected.

SRB600

12V. Normally open (continuous) relay. 60A capacity. Black body. Replaces Lucas 33419.

140232 £15.51

SRB601

24V. Normally open (continuous) relay. 40A capacity. Red body. Replaces Lucas 33420.

140231 £15.51

SRB631

12V. Normally open (intermittent) relay. 60A capacity. Green body. Replaces Lucas 33451.

140233 £17.19

SRB632

24V. Normally open (intermittent) relay. 40A capacity. Blue body. Replaces Lucas 33452.

140234 £21.07

RELAY SOCKETS & BOXES

Fixed Socket

5 x 6.3mm blade and 4 x 2.8mm blade.

140301 £1.90

Fixed Socket

2 x 9.5mm blade, 3 x 6.3mm blade and 4 x 2.8mm blade.

140302 £2.96

Sockets 140301 and 140302 accept a maximum of 9 terminals. Sockets can be clipped together to form a block. Supplied with all terminals. Available in two configurations.

Flying Socket

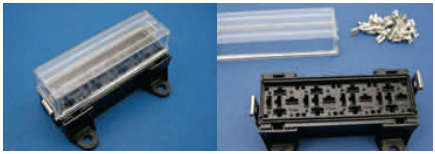
Can accept relays with up to 5 x 6.3mm blade terminals (except latching relay 140209). Supplied with all terminals.

140303 £1.67

Relay Socket with 3 Fuses

Relay socket to take standard relays (having 6.3mm blade terminals) moulded together with 3 blade fuse holders. Can be clipped together to form a block. Supplied with all terminals.

140305 £3.01



Relay Box

Accepts 4 x standard relays. Comes complete with transparent lid, gasket, terminals and terminal locking bar. Terminals are crimped onto wires and then inserted into the base of the relay box. Can be clipped together and to the 16-way fuse box (100110) to form an integrated unit. Relay box size H64 x W123 x D42mm. Supplied without relays.

140304 £18.08

Relay Box - Micro Relays

As above but accepts 7 x micro relays.

140307 £21.89

MICRO RELAYS

Make & Break

25A. 2 x 4.8mm and 2 x 6.3mm blade terminals.

140261 £4.04

Change Over

10/20A. 3 x 4.8mm and 2 x 6.3mmblade terminals.

140260 £4.79

Micro Relay Socket

2 x 6.3mm and 3 x 4.8mm blade terminals.

140306 £2.25

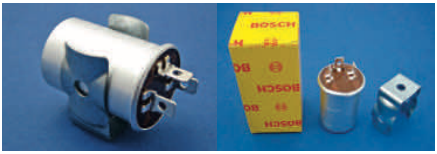
These relays are smaller than standard relays and have no mounting lugs or brackets. Approximately 22 x 13 x 25mm (tall) excluding pins. 12V.

FLASHER UNITS - 6V

Electronic

2 x 21W capacity. 3 x 6.3mm blade terminals. Supplied with mounting bracket. Suitable for negative earth only.

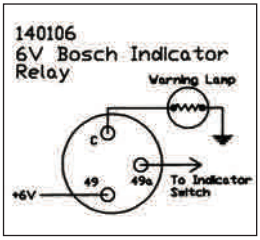
140108 £7.13

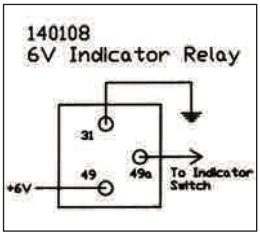


Bosch

Good quality 6V indicator relay made by Bosch. 3 x 6.3mm blade contacts. Supplied with mounting bracket and wiring diagram. Suitable to power 2 x 18/21W indicators plus a separate dash warning lamp. For use on either negative or positive earth vehicles.

140106 £29.79





FLASHER UNITS - 12V

12V LED Electronic 3 Terminal with Earth

Electronic LED flasher unit having 3 terminals (one of which an earth connection). Connections via 6.3mm blade terminals. For use on negative earth vehicles only. Will operate LED indicator lights and conventional bulbs or a mix of both. Max: 30w

140118 £11.63

Connections:
31 - Earth
49 - Feed In
49a - Flashing signal out

LUCAS SFB161 Flasher Unit

Electronic flasher unit having 3 terminals (one of which an earth connection). 2/4 x 21W capacity. Connections via 6.3mm blade terminals. For use on negative earth vehicles only.

Lucas SFB161 £7.40

FLASHER UNITS - 12V

Electronic - 3 Terminals

12V Electronic hazard/ flasher unit. 2/4 x 21W + 5W capacity. 3 x 6.3mm blade terminals. Supplied with wiring diagram. Can be used on both POSITIVE AND NEGATIVE EARTH vehicles. Has a 'blown bulb detection' feature; if an indicator bulb fails, the warning lamp on the dash will stop flashing. This feature also indicates if the wrong rating bulbs have been used. 21W indicator bulbs must be used if this unit is to operate correctly. This relay is of the most common format used and will replace mechanical Lucas type units. For wiring diagram, see p.76.

140102 £8.41

Electronic - 4 Terminals

12V Electronic hazard/ flasher unit. 2/4 x 21W + 5W capacity. 4 x 6.3mm blade terminals. Requires earth. Supplied with wiring diagram - see p.94. NEGATIVE EARTH ONLY.

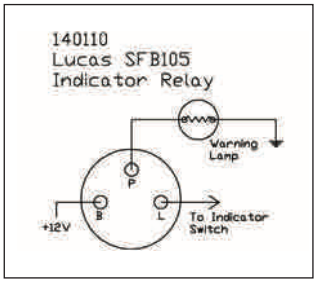
140103 £11.81

Replica Lucas DB10

Enables brake lights to also be used as rear indicators. 12V only. 8 x screw terminals. Supplied with wiring diagram - see p.89.

NOTE: This item is a good quality replica part and is not manufactured by Lucas.

140105 £67.81



Electronic - LED - 3 Terminals

12V Electronic flasher unit that can operate LED indicator bulbs or a mixture of LED bulbs and conventional bulbs. Useful when used with LED replacement bulbs. 3 x 6.3mm blade terminals. NEGATIVE EARTH ONLY. Capacity up to 30W.

Connections:
49 - Power In
49a - Flashing signal out
P - Feed to warning lamp

140107 £11.63

Lucas SFB105

12V, 42W capacity. Aluminium can with integral mounting bracket. 3 x 6.3mm blade terminals, marked B, P & L. Can be used for both POSITIVE AND NEGATIVE EARTH vehicles.

Connections:
B - Power in
P - Feed to warning lamp
L - Flasher signal out

140110 £7.20

Electronic - With Earth - 3 Terminals

12V Electronic flasher unit having 3 terminals (one of which is an earth connection). 2/4 x 21W capacity. Connections via 6.3mm blade terminals. NEGATIVE EARTH ONLY.

Connections:
31 - Earth
49 - Feed in
49a - Flashing signal out (to indicator switch)
Available in 12V or 24V versions.

12V **140112** £8.25
24V **140115** £12.00

Lucas SFB100

12V, 42W capacity. Aluminium can with integral mounting bracket. 3 x screw terminals marked X, P & L. Can be used for both POSITIVE AND NEGATIVE EARTH vehicles.

Connections:
X - Power in
P - Feed to warning lamp
L - Flasher signal out

140111 £8.62

Trailer Relay with Earth

12V indicator relay with an additional base connection (C2) to feed a dashboard warning light that illuminates when indicating with a trailer attached. This relay can be used to upgrade from relay 140112, if the trailer warning facility is required.

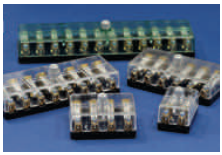
Will power up to 6 x 21W bulbs and an additional 2W warning lamp.

- 49 - Power in
- 49A - Feed to indicator switch
- 31 - Earth
- C2 - Trailer Indicator lamp

140114 £13.12

FUSE BOXES - CONTINENTAL TYPE FUSES

Black



Clear

Available as 2, 4, 6, 8 and 12 way fuse boxes. Moulded phenol base and cover (held on with thumb screw). Available with CLEAR or BLACK cover. Screw terminals. Supplied with 8A continental fuses.

Part No.	*Type*	*Each*
100101	2-Way	£5.31
100102	4-Way	£7.12
100103	6-Way	£10.37
100104	8-Way	£14.53
100112	12-Way	£19.39

FUSE BOXES - BLADE TYPE FUSES

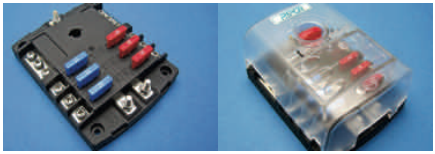
Terminals on Underside

Terminals on Each Side

Surface mounted fuse boxes for blade type fuses. Black moulded base with transparent cover. Connection via 6.3 mm blade terminals on either the underside or on each side of the fuse box. Supplied without fuses.

Part No.	*Type*	*Dimensions*	*Each*
Terminals on Underside			
100105	4-Way	H58 x W52 x D26	£2.87
100106	6-Way	H58 x W72 x D26	£3.39
Terminals on Each Side			
100107	4-Way	H36 x W79 x D26	£3.61
100108	6-Way	H36 x W100 x D26	£5.30
100109	8-Way	H36 x W115 x D26	£6.93

FUSE BOXES - BLADE TYPE FUSES (contd)



Six Way Fused Distribution Board

6 way blade fuse box and distribution board with terminals for both the negative (earth) and positive sides of the circuits. On the negative side, connection distributes to 6 screw connections via an internal busbar. The positive side is split into two 3 way circuits. The two banks of 3 fuses are fed from the two M5 studs via internal busbars. The three outputs for each side are via the blade fuses. Output connection is via screw connections (that will take 4mm ring terminals). Approximate dimensions including the lid are 125 x 95 x 60mm (tall). The unit has a polycarbonate lid, which is held on by a rotating catch.
NOTE: The blade fuses shown in the photos are not included with the fuse box.

* Maximum Amperage per circuit - 30A
* Maximum Amperage per block - 100A
* Maximum Voltage - 32V DC

100133 £26.04

Panel Mounted

8 way blade type fuse box. Black with transparent cover and gasket. Designed to fit through a panel aperture. 6.3mm blade connections on underside of box. Supplied without fuses. (H42 x W88 x D32mm).

100111 £6.42

Surface Mounted

16 way blade type fuse box. Black moulded base and transparent cover. Comes with terminals & terminal locking bar. Terminals are crimped onto wires and then inserted into base of fusebox. Supplied without fuses. Can be clipped together to form 32 or 48 way units, and to relay box 140304. (H64 x W123 x D42mm).

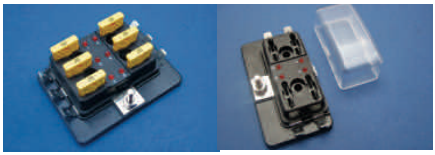
100110 £20.02

Fuse Box and Distribution Board

12 way blade fuse box and distribution board. This board has terminals for both the negative (earth) and positive sides of the circuits. On the negative side, connection is via an M5 stud, which then distributes to 12 screw connections (that will take 4mm ring terminals) via an internal busbar. The positive side is split into two 6 way circuits. The two banks of 6 fuses are fed commonly from each of the two M5 studs via internal busbars. The six outputs for each side are via the blade fuses. Output connection is via screw connections (that will take 4mm ring terminals). Approximate dimensions including the lid are 165 x 95 x 60mm (tall). The unit and lid are both polycarbonate, the lid being held on by a rotating catch.
NOTE: The blade fuses shown in the photos are not included with the fuse box.

* Maximum Amperage per circuit - 30A
* Maximum Amperage per block - 100A
* Maximum Voltage - 32V DC

100134 £29.52



Fuse Box with LED Failure Function

4, 6 or 10 way blade fuse boxes with LED blown fuse indicators and a busbar input. If a fuse blows, an LED will illuminate indicating which fuse has blown. Removable plastic lid. Power in is via a single M5 stud, which connects to one side of all fuses. Each fuse has its own 6.3mm blade feed out connection. Very useful in applications that are not space critical and/or in the dark, as the blown fuse can be easily found.

Part No.	*Type*	*Dimensions*	*Each*
100130	4-Way	85 x 47mm	£7.75
100131	6-Way	85 x 63mm	£9.32
100132	10-Way	85 x 95mm	£13.48

FUSE BOXES - BLADE TYPE FUSES (contd)

10 Way Splash Proof LED fuse box

10 Way splash proof fuse box & lid with LED indicators to indicate fuse failure. Has the following features:

- 10 Way
- Takes standard blade fuses (not supplied). Blade type circuit breakers will not fit.
- Panel mounts and supplied with gasket
- 25A capacity per fuse / 150A total for fuse box
- Approx 86mm x 121mm x 30mm (above panel)
- 4 x 5mm mounting holes on 75 & 110mm centres.
- 6.3mm blade connections

100140 £21.32

Battery Mounted Fusebox

Fuse box that clamps directly to the positive battery terminal. It is compact and easy to install and offers the following:

- 1 x 8mm stud terminal (unfused, to cnnect original battery lead to)
- 4 x 5mm stud terminal (unfused)
- 2 x 5mm stud terminal (fused via midi fuses)
- 8 x maxi fused out puts (crimped connections)

The unit has 2 lids with hinges and is 110mm wide x 140mm long. When mounted on a battery, it only adds 25mm to the height of the battery. It also comes with some additional fixings to enable it to be more rigidly fixed to the battery if necessary.

100135 £35.70

Blade Fuse

A range of fuse boxes with one common feed (M5 stud) that accept standard blade fuses. The output connections are 6.3mm blade terminals. Supplied with plastic lids.5mm fixing holes with 28mm centre distance.

100136	**4 Way**	£8.51
100137	**6 Way**	£10.76
100138	**8 Way**	£12.86

FUSE BOXES - LUCAS

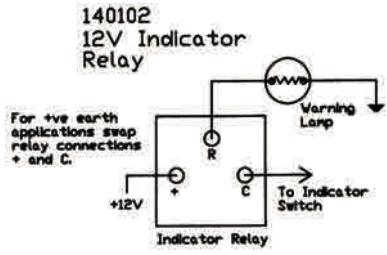
Lid Only
100116-L
£15.75

Screw Only
100116-LS
£4.72

Lucas SF4

Surface mounted 4-way fuse box. Accepts four glass fuses. Connections via screw terminals. Phenol lid held on with knurled screw. Has space for 2 spare fuses. Spare lid and screw also available separately.

100116 £43.58



For item details, see p.73.

FUSE BOXES - LUCAS (contd)

Lucas 4FJ (54038068)

Surface mounted 2-way fuse box with detachable cover. Accepts glass fuses. Connections via 6.3mm blade terminals. Has space for two spare fuses.

100118 £9.94

Lucas 6FJ (37409)

Panel mounted 4-way fuse box with detachable cover. Accepts glass fuses. Connections via 6.3mm blade terminals on underside. Link between terminals 1 and 3. Suitable for mounting through a bulkhead. Has space for two spare fuses.

100119 £24.73

Lucas 6FJ (37564)

Panel mounted 4-way fuse box with detachable cover. Accepts glass fuses. Connections via 6.3mm blade terminals on underside. Link between terminals 5 and 7. Suitable for mounting through a bulkhead. Has space for two spare fuses.

100125 £12.50

Lucas 7FJ (37420)

Surface mounted 4-way fuse box with detachable cover. Accepts glass fuses. Connections via side mounted 6.3mm blade terminals. Has space for two spare fuses.

100120 £26.17

Replica Lucas SF4

This is a *very good replica* of the Lucas SF4 fuse box (part no. 100116). Surface mounted 4-way fuse box. Accepts four glass fuses. Connections via screw terminals. Phenol lid held on with knurled screw. Has space for 2 spare fuses.

100126 £21.69

Lucas SF6 (37132)

Surface mounted 2-way fuse box. Accepts two glass fuses. Connections via screw terminals. No cover. Has space for 2 spare fuses.

100117 £23.00

SINGLE FUSE HOLDERS

Blade Fuse Holder - Splashproof

Splashproof blade fuse holder that can be clipped together to form a multiple fuse box. The fuse holder is supplied complete with cover, silicon gasket, terminal locking bar, 2 terminals and 2 seals. Two versions available with terminals to suit different size cables.

100220 - Terminals to fit 0.5-1.5mm² cable £2.00

100221 - Terminals to fit 2.0-3.0mm² cable £2.00

Mini Blade Fuse Holder

Splashproof mini blade fuse holder on flying leads. Fitted with a lid to prevent ingress of water. Two versions available.

20A **100240** £2.00

30A **100241** £2.25

LED Blade Fuse Holders

LED blade fuse holder on flying leads. The built-in LED glows when the fuse has blown, also fitted with a lid to prevent water ingress.. Two versions available.

20A **100230** £3.50

30A **100231** £3.75

SINGLE FUSE HOLDERS (contd)

Continental Fuse (Screw Terminals)

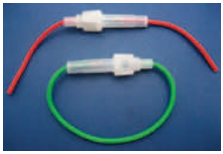
For continental fuses. Moulded in black phenol. Bayonet fixing with screw terminals. Supplied with 8A fuse.

100201 £0.81

Continental Fuse (Blade Terminals)

For continental fuses. Moulded in black phenol. Bayonet fixing with 6.3mm blade terminals. Supplied with 8A fuse.

100202 £2.02



Glass Fuse Holder

For 30mm glass fuses, supplied with flying leads. Moulded in white nylon. Bayonet fixing. No fuse supplied. 100203 (green) has a 17A capacity, 100214 (red) has 8A.

100203 £0.92
100214 £0.89

Glass Fuse Holder with 35A Fuse

For 30mm glass fuses. Moulded in black phenol. Screw cable connections. Supplied with 35A fuse.

100204 £2.73

Panel Mounted Glass Fuse Holder

For 30mm glass fuses up to 35A. Requires 13mm diameter hole. Has 6.3mm blade connections. Screw on cap retains fuse.

100205 £5.09

Splash Proof In-Line Glass Fuse Holder

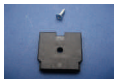
For 30mm glass fuses up to 20A. Has PVC grommets and O ring. Nickel plated brass screw connections. No fuse supplied.

100206 £4.23

Blade Fuse Holder

Can be clipped together to form a fuse block. 6.3mm blade connections on each side. Requires mounting plate (100210) to fix it to a surface.

100207 £0.92

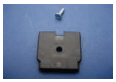


Mounting Plate 100210 £0.28

Blade Fuse Holder

Can be clipped together to form a fuse block. 6.3mm blade connectors in base. Clear plastic cover (100209) also available. Requires mounting plate (100210) if required to fix to a surface.

100208 £0.87



Mounting Plate 100210 £0.28

Clear Cover 100209 £0.24

Panel Mounted Blade Fuse Holder

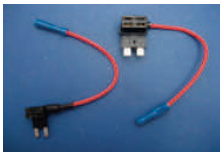
Requires mounting hole 22 x 11mm. 6.3mm blade terminals. 30A max.

100211 £1.26

Flying Leads Blade Fuse Holder

150mm long leads. Current rating 30A.

100212 £2.47



'Add A Circuit' Blade Fuse Holder

This item can be used to gain another fused circuit when used to replace an existing fuse within a fuse box. 100215 is for use with standard blade fuses, 100216 is for mini blade fuses.

100215 £6.40
100216 £6.23

SINGLE FUSE HOLDERS (contd)

Maxi Blade Fuse Holder

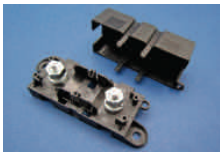
Single fuse holder with protective cover to take MAXI blade fuses. Connection via 8mm² cables.

100219 £4.89

Strip Fuse Holder

Cable connections are made using the protruding M5 studs. Moulded in black plastic. Supplied without fuse.

100213 £2.56

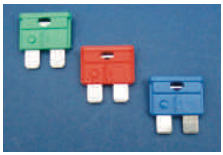


MEGA fuse holder

Fuse holder to take MEGA fuses. Cable connnections are made using the protruding M8 studs, suitable for ring terminals. Moulded in black plastic. Supplied with lid, but without fuse. Can be clipped together to form a bank of fuse boxes. Maximum cable diameter approx 14mm.

100218 £5.36

BLADE FUSES - STANDARD



Standard Blade Fuses

Each: £0.19
Per 50: £4.63

Blade Fuse Extractor

For easy extraction of blade fuses.

100701 £0.44

Part No.	*Rating (A)*	*Colour*
100301	1	Black
100302	2	Grey
100303	3	Violet
100304	4	Pink
100305	5	Tan
100306	7.5	Brown
100307	10	Red
100308	15	Blue
100309	20	Yellow
100310	25	Natural
100311	30	Green
100312	40	Orange

Blade Fuse Kit
160112
£17.06
(see p.122 for details)

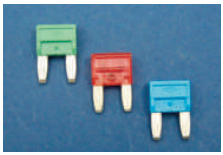
MORE FUSES OVER THE PAGE

BLADE FUSES - LED STANDARD / MINI / MAXI

Illuminating LED Standard Blade Fuses

Standard blade fuses, but with indicator lamp built in. If the fuse blows, the (LED) indicator lamp lights, making it clear which fuse has blown. Designed to replace standard blade fuses.

Each: £0.94
Per 10: £8.07



Mini Blade Fuses

Slightly smaller than the standard blade fuse.

Each: £0.22
Per 50: £8.17

Maxi Blade Fuses

These fuses are larger than the standard blade fuses and are generally for higher current applications.

Each: £0.71

Part No.	*Rating (A)*	*Colour*
Illuminating LED Standard		
101201	2	Grey
101202	3	Violet
101203	4	Pink
101204	5	Tan
101205	7.5	Brown
101206	10	Red
101207	15	Blue
101208	20	Yellow
101209	25	Natural
101210	30	Green
101211	40	Orange
Mini		
101101	2	Grey
101102	3	Violet
101103	4	Pink
101104	5	Tan
101105	7.5	Brown
101106	10	Red
101107	15	Blue
101108	20	Yellow
101109	25	Natural
101110	30	Green
Maxi		
101401	20	Yellow
101402	30	Green
101403	40	Orange
101404	50	Red
101405	60	Blue
101406	70	Brown
101407	80	Natural
101408	100	Violet

FUSES - CONTINENTAL / GLASS / STRIP / PAL / MIDI / MEGA

Continental Fuses

Each: £0.18
Per 50: £4.39

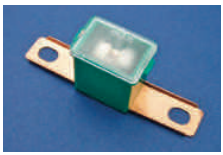
Glass Fuses

30mm long x 6.3mm diameter.

Each: £1.36
Per 50: £4.72

Strip Fuses

Each: £0.37
Per 50: £2.82

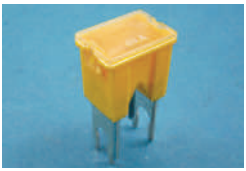


Pal 295 Fuses

Male fuses. 48mm between fixing centres.

Each: £2.89
Per 5: £13.00

Part No.	*Rating (A)*	*Colour*
Continental		
100401	5	Yellow
100402	8	White
100403	16	Red
100404	25	Blue
Glass		
100501	2	-
100502	5	-
100503	10	-
100504	15	-
100505	20	-
100506	25	-
100507	30	-
100508	50	-
Strip		
100601	30	-
100602	40	-
100603	50	-
100604	60	-
100605	80	-
100606	100	-
PAL 295		
100703	30	Pink
100704	40	Green
100705	50	Red
100706	60	Yellow
100707	70	Brown
100708	80	Black
100709	100	Blue



PAL Fuses Male

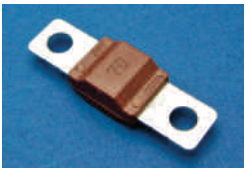
Each: £4.03
Pack of 5: £18.14

PAL Fuses Female

Each: £2.60
Pack of 5: £11.70

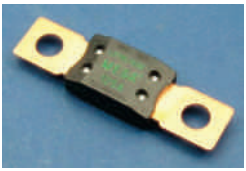
PAL Fuses J Type

Each: £2.36
Pack of 5: £10.60



MIDI Fuses

Each: £1.89
Pack of 5: £8.50



MEGA Fuses

Each: £3.31
Pack of 5: £14.90

Part No.	Rating (A)	Colour
PAL Fuses Male		
100717	30	Pink
100718	40	Green
100719	50	Red
100720	60	Yellow
100721	80	Black
100722	100	Blue
PAL Fuses Female		
100730	20	Light Blue
100731	30	Pink
100732	40	Green
100733	50	Red
100734	60	Yellow
100735	80	Black
100736	100	Blue
Pal Fuses J Type		
100710	20	Light Blue
100711	30	Pink
100712	40	Green
100713	50	Red
100714	60	Yellow
100715	70	Brown
100716	80	Black
Midi Fuses		
101501	30	Orange
101502	40	Green
101503	50	Red
101504	60	Yellow
101505	70	Brown
101506	80	White
101507	100	Blue
101508	125	Pink
101509	150	Black
Mega Fuses		
101601	100	Yellow
101602	125	Green
101603	150	Orange
101604	175	White
101605	200	Blue
101606	225	Brown
101607	250	Pink
101608	300	Grey

CIRCUIT BREAKERS

Blade Type

Circuit breakers for 12/24V DC systems. Thermal bi-metallic with manual reset and trip. Replace standard blade fuses in many fuse holders and boxes.

Each: £6.72

Panel Mounted

Circuit breakers for 12/24V DC systems. Thermal bi-metallic with manual reset. 2 x screw terminals. Panel mounted in 12mm diameter hole.

Each: £38.01

Panel Mounted

Surface Mounted

A range of panel & surface mounted circuit breakers incorporating a push button that can be used to break the circuit and a reset lever to manually remake the circuit.

These breakers are sealed and are therefore suitable for use in engine compartments and bilge areas in boats as well as being suitable to protect auxillary circuits in trucks, buses and marine applications. Max voltage 48V DC. Made in USA. For full spec, plese see our website.

Part No.	*Rating (A)*	*Colour*
Blade Type		
100807	5	Tan
100808	7.5	Brown
100803	10	Red
100804	15	Blue
100805	20	Yellow
100806	25	Pearl
Panel Mounted		
100901	20	-
100902	30	-
100903	40	-
100904	50	-
100905	60	-
100906	70	-

Panel Mounted

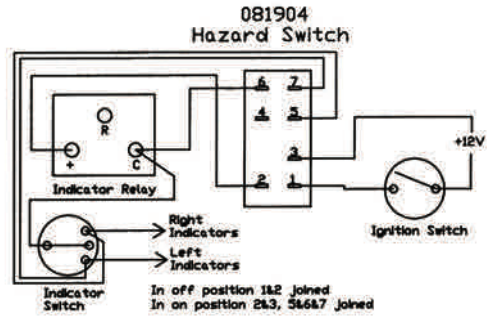
50A	**101801**	£23.62
80A	**101802**	£23.62
100A	**101803**	£23.62

Surface Mounted

50A	**101701**	£22.58
60A	**101702**	£22.58
80A	**101703**	£22.58
100A	**101704**	£22.58
150A	**101705**	£22.58

Fuse Kit
160103
£28.92
(see p.122 for details)

Older Vehicle Fuse Kit
160111
£19.31
(see p.122 for details)



For item details, see p.61.

MINIATURE BULBS

LES Screw-In

Often used as indicator bulbs within switches.

MES Screw-In

BA7s

BA9s

Part No.	*Volts (V)*	*Watts (W)*	*Filament*	*Type*	*Each*	*per 10*
LES Screw-In						
130108	12	1.5	Single	280	£0.55	£4.82
MES Screw-In						
130104	6	2	Single	990	£0.55	£4.82
130102	12	2.2	Single	987	£0.55	£4.82
130105	12	6	Single	1024	£0.55	£4.82
BA7s			Single contact / 7mm diameter base			
130201	6	1.2	Single	282	£0.65	£5.49
130202	12	2	Single	281	£0.63	£5.23
BA9s			Single contact / parallel pins / 9mm diameter base			
130306	6	2	Single	287	£0.54	£4.68
130301	6	3	Single	641	£0.54	£4.68
130302	12	2.2	Single	288	£0.51	£4.43
130303	12	4	Single	233	£0.54	£4.68
130304	12	20	Single	433 (Halogen)	£4.33	£38.89
132420	12	-	4 x Yellow LED	- ve earth	£2.75	£24.80
132421	12	-	4 x White LED	- ve earth	£2.75	£24.80

130304

132420

INDICATOR / SIDE LIGHT BULBS

BA15s Small Globe

BA15s Medium Globe

BA15d Small Globe

BA15d Medium Globe

Part No.	*Volts (V)*	*Watts (W)*	*Filament*	*Type*	*Each*	*per 10*
BA15s Small Globe			Single contact / parallel pins / 15mm diameter base			
130401	6	5	Single	205	£0.55	£4.82
130402	6	10	Single	244	£0.55	£4.82
130403	12	5	Single	207	£0.52	£4.55
130404	12	10	Single	245	£0.52	£4.55
130405	12	23	Single	1073	£0.71	£6.02
BA15s Medium Globe			Single contact / parallel pins / 15mm diameter base			
130501	6	21	Single	317	£0.59	£5.07
130502	12	21	Single	382	£0.55	£4.82
130503	12	21	Single	343 (Amber)	£0.94	£8.04
BA15d Small Globe			Double contact / parallel pins / 15mm diameter base			
130701	6	5	Single	206	£0.59	£5.07
130702	6	10	Single	244D	£0.71	£6.02
130703	12	5	Single	209	£0.59	£5.07
130704	12	10	Single	210	£0.74	£6.28
BA15d Medium Globe			Double contact / parallel pins / 15mm diameter base			
130801	6	18	Single	319	£0.80	£6.70
130802	12	21	Single	335	£0.54	£4.68
130803	12	21/5	Double	381	£0.74	£6.28
130804	6	21	Single	319	£0.80	£6.70

130503

STOP/TAIL BULBS

BAY15d Small Globe
Useful when trying to fit double filament bulbs into confined spaces.

BAY15d Medium Globe

Part No.	Volts (V)	Watts (W)	Filament	Type	Each	per 10
BAY15d Small Globe			Double contact / offset pins / 15mm diameter base			
131003	12	23/8	Double	1072	£1.90	£16.08
131005	12	21/5	Double	380m	£1.58	£14.18
BAY15d Medium Globe			Double contact / offset pins / 15mm diameter base			
131001	6	21/5	Double	384	£0.74	£6.28
131002	12	21/5	Double	380	£0.55	£4.82

CAPLESS BULBS

Panel
Suitable for instrument illumination, etc. (These bulbs are replacement bulbs for illuminated switches 081214 - 081224 inclusive).

Side/Instrument
Base size W2.1 x 9.5d (T10). Two wattages available: 5W for side light use and 2W for instrument lighting.

Indicator - Clear
Available in two different sizes W3 x 16d and W2.1 x 9.5d. 21W bulbs, for use with indicators.

Indicator - Amber
Base size W2.1 x 9.5d. 21W bulbs, for use with indicators.

Part No.	Volts (V)	Watts (W)	Type	Each	per 10
Panel Bulb					
132201	12	1.2	W2 x 4.6d	£0.52	£4.54
Side/Instrument (T10)					
132208	6	3	W2.1 x 9.5d	£0.78	£6.63
132205	12	2	W2.1 x 9.5d	£0.65	£5.53
132202	12	5	W2.1 x 9.5d	£0.52	£4.54
Indicator					
132204	12	21	W2.1 x 9.5d	£1.04	£8.75
132206	12	21	W2.1 x 9.5d (Amber)	£1.46	£12.47
132203	12	21	W3 x 16d	£1.20	£10.25

HEADLAMP BULBS

BA15s Large Globe

BA15d Large Globe

BA20s Bosch

BA20d Bosch

Part No.	Volts (V)	Watts (W)	Filament	Type	Each	per 10
BA15s Large Globe			Single contact / parallel pins / 15mm diameter base			
130601	12	36	Single	002	£2.10	£17.82
130602	12	45	Single	234	£3.01	£25.44
130603	12	50	Single	1050 (Halogen)	£4.57	£38.86
130604	24	48	Single	623	£2.65	£23.81
BA15d Large Globe			Double contact / parallel pins / 15mm diameter base			
130908	6	25/25	Double	Halogen	£10.26	-
130901	12	36/36	Double	171	£2.31	£19.70
130902	12	36	Single	5	£2.37	£20.10
130903	12	45	Single	27	£2.88	£24.51
130906	12	45/40	Double	171 (Halogen)	£10.26	-
BA20s Bosch			Single contact / parallel tabs / 20mm diameter base			
131101	6	35	Single	393	£2.37	£20.10
131102	12	45	Single	397	£2.10	£17.82
BA20d Bosch			Double contact / parallel tabs / 20mm diameter base			
131200	6	35/35	Double	393	£2.37	£20.10
131201	6	45/40	Double	390	£2.37	£20.10
131204	6	35/35	Double	1048 (Semi-Halogen)	£3.78	£32.16
131202	12	45/40	Double	396	£2.84	£24.31
131203	12	45	Single	397	£2.37	£20.10

130603

130908

130906

131204

HEADLAMP BULBS (contd)

P36s British Pre-Focus

P36d British Pre-Focus

P43t H4

P45t

Part No.	Volts (V)	Watts (W)	Filament	Type	Each	per 10
P36s British Pre-Focus			Single contact / 36mm diameter base			
131301	12	48	Single	185 (Halogen)	£2.49	£21.16
P36d British Pre-Focus			Double contact / 36mm diameter base			
131401	6	30/24	Double	312	£3.15	£26.81
131404	6	35/35	Double	312 (Halogen)	£10.77	-
131402	12	50/40	Double	414	£3.62	£32.58
131403	12	38	Single	326	£2.49	£21.16
131405	12	60/55	Double	414 (Halogen)	£10.77	-
P43t H4						
131501	6	60/55	Double	476 (Halogen)	£6.79	-
131502	12	60/55	Double	472 (Halogen)	£2.84	-
131503	12	100/80	Double	484 (Halogen)	£6.46	-
131504	6	35/35	Double	(Halogen)	£6.64	-
P45t						
131601	6	45/40	Double	423	£2.84	-
131602	6	60/55	Double	423 (Halogen)	£5.88	-
131603	12	45/40	Double	410	£2.15	-
131604	12	60/55	Double	12 (Halogen)	£3.69	-
131605	12	100/80	Double	485	£7.83	-
H7						
131640	12	55	Single	477	£2.36	-
H3						
131619	12	35	Single	-	£3.57	-
131620	12	35	Single	-	£3.15	-
APF						
131630	12	45/45	Double	-	£3.15	-

131404 / 131405

131602 / 131604

H7

H3

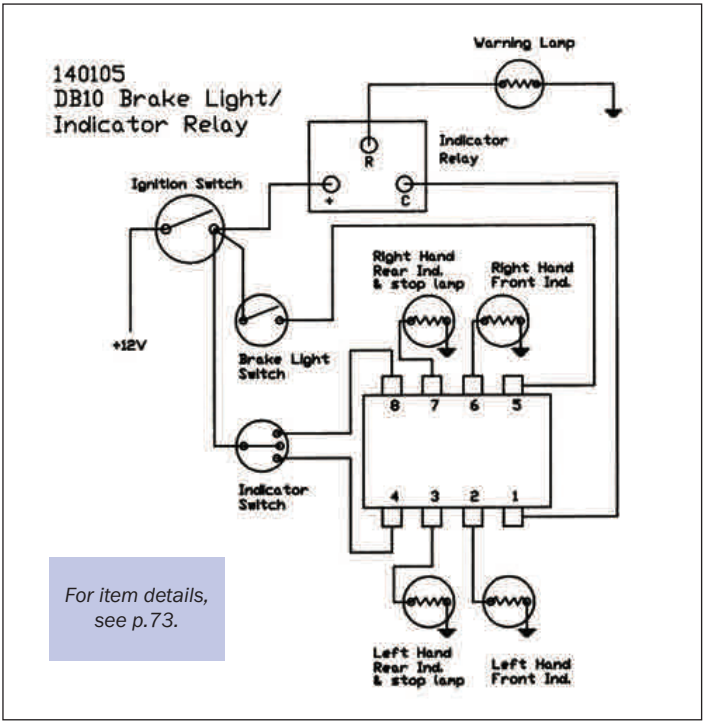
APF

MARCHAL HEADLAMP BULBS

Clear Globe

Amber Globe

Part No.	Volts (V)	Watts (W)	Filament	Type	Each	per 10
Clear Globe	3 parallel pins / 21mm diameter base					
132103	6	40/45	Double	117	£6.50	£55.25
132102	12	40/45	Double	217	£6.00	£51.00
Amber Globe						
132105	6	40/45	Double	117 (Amber)	£7.00	£59.50
132104	12	40/45	Double	217 (Amber)	£6.50	£55.25



For item details, see p.73.

LED BULBS

These 12V LED bulbs fit into standard bayonet fitting bulb holders and are a replacement for normal bulbs. They have the advantage of being extremely long lasting and require very little current, typically 30mA. For use on NEGATIVE EARTH vehicles only. For best results use the same colour LED bulbs behind the same colour lenses.

4 LEDs

Similar in intensity to 2W bulbs. BA9s fitting, ie. cap diameter 9mm, single contact, parallel pins. 24mm long, 11mm diameter at LED end.

9 LEDs

Similar in intensity to 5W bulbs. BA15s fitting, ie. cap diameter 15mm, single contact, parallel pins. 32mm long, 18mm diameter at LED end.

19 LEDs

Similar in intensity to 21W bulbs. Fit standard 15mm bulb holders. 46mm long, 25mm diameter at LED end.

24 LEDs

Similar in intensity to 21W bulbs. Fit standard 15mm bulb holders. 38mm long, 25mm diameter at LED end.

Part No.	Colour	Fitting	Each
1 LED			
130107	Warm White	MES	£2.31
132412	White	BA7s	£2.62
132420	Yellow	BA9s	£2.75
4 LEDs	All LEDs rearward facing		
132421	White	BA9s	£2.75
9 LEDs	All LEDs rearward facing		
132405	Amber	BA15s	£5.04
132406	Red	BA15s	£5.04
132407	Clear	BA15s	£8.60
15 LEDs			
132415	Red	BA15s	£6.82
132417	Amber	BA15s	£6.82
132416	White	BA15s	£7.88
19 LEDs	All LEDs rearward facing		
132401	Amber	BA15s	£6.23
132402	Red	BA15s	£6.23
132404	Red	BAY15d (stop/tail)	£6.23
24 LEDs	18 rearwards facing, and 6 sideways facing (radial) LEDs.		
132408	Amber	BA15s	£8.48
132409	Red	BA15s	£8.48
132410	Red	BAY15d (stop/tail)	£8.48
132411*	Red/White	BAY15d (stop/tail)	£8.93

** 132411 has 18 rearward facing red LEDs and 6 radial white LEDs and is for use in lamps with a number plate illuminating window.*

1 LED
Similar in intensity to 2W bulbs. BA7s fitting, ie cap diameter 7mm, single contact, parallel pins. Overall bulb length 20mm, diameter of LED end 7mm.

15 LEDs
Has 15 LEDS (3mm & 5mm). 9 positioned on the top of the bulb and 6 radially mounted on the housing. Similar intensity to 10w bulbs.

MES
Similar intensity to standard MES bulbs.

FESTOON BULBS

Part No.	Volts (V)	Watts (W)	Size (mm)	Type	Each	per 10
131706	6	6	11 x 35	253	£0.69	£5.84
131701	6	5	11 x 38	253	£0.69	£5.84
131707	6	10	11 x 38	1059	£0.69	£5.84
131801	6	10	11 x 42	258	£0.69	£5.84
131901	6	15	15 x 42	266	£0.69	£5.84
131902	6	21	15 x 42	266	£0.69	£5.84

Part No.	Volts (V)	Watts (W)	Size	Type	Each	per 10
131709	12	3	6 x 36	268	£0.69	£5.84
131708	12	3	8 x 36	256	£0.69	£5.84
131711	12	10	11 x 30	269	£0.69	£5.84
131712	12	10	11 x 35	272	£0.69	£5.84
131702	12	5	11 x 38	239	£0.69	£5.84
131802	12	5	11 x 42	239	£0.69	£5.84
131803	12	10	11 x 42	264	£0.69	£5.84
131905	12	10	15 x 42	265	£0.69	£5.84
131903	12	15	15 x 42	267	£0.69	£5.84
131904	12	21	15 x 42	273	£0.69	£5.84

BULB HOLDERS

BA15d Parallel Pins

Double contacts, 2 screw connections.

132002 £2.84

BA15d Double Contact Brass

36mm flange with three mounting holes, 2 screw connections.

132007 £4.45

BAY15d Offset Pins

Double contacts, 2 screw connections.

132001 £2.84

BA15s Single Screw Connection

Single contact.

132003 £1.42

BA15s Two Screw Connections

Single contact, 2 screw connections (1 ground).

132004 £3.21

BA9s Single Screw Connetion

Single contact. Exterior diameter 12.0mm.

132005 £1.19

BA9s Insulated

Plastic. 11.9mm OD. 2 x 6.3mm blade connections.

132019 £1.31

BA9s Solder Connections

10mm diameter.

132023 £0.97

BA7s Single Screw Connection

Single contact. Exterior diameter 9.7mm.

132006 £1.58

MES Non Insulated

With claws to fit 5/8" (15.9mm) dia. panel hole. Supplied with rivet to be crimped or soldered to wire. Bulb is earthed through casing.

132008 £2.30

Spare Rivet
132017
£0.10

MES Insulated

With insulated claws to fit 5/8" dia. panel hole. Supplied with rivet to be crimped or soldered to wire. Suitable for charge warning lamps, etc.

132009 £2.16

Spare Rivet
132017
£0.10

MES Tag Mounted

Moulded nylon MES bulb holder, with solder connections. Will push fit on to a 9mm wide tag. Useful for instrument lighting, etc.

132024 £0.94

MES Flange Mounted

Flange has mounting holes and screw connections. Made from black plastic.

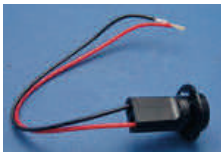
132025 £1.48

T10 Capless Bulb Holder

Insulated T10 (W2.1 x 9.5d) bulb holder. 2 x 6.3mm blade connections. 12mm OD.

132018 £0.82

BULB HOLDERS (contd)



T10 Capless Bulb Holder (for Panel)

Insulated T10 (W2.1 x 9.5d) bulb holder with leads to fit 5/8" (16mm) panel hole. Suitable for side light apertures in 7" halogen conversions and instrument lighting.

132022 £2.84

Lucas L488

Bulb holders for Lucas L594 range of lights. Available as single (BA15s) or double (BAY15d) contact.

Single Contact
132012 £5.88

Double Contact
132013 £5.88

Lucas L594

Bulb holders for Lucas L594 range of lights. Available as single (BA15s) or double (BAY15d) contact.

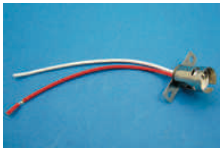
Single Contact
132010 £5.48

Double Contact
132011 £5.48

Lucas L1130

Bulb holders for Lucas L1130 range of lights. Double contact, offset pins (BAY15d).

132020 £12.16



BA15d - With Bracket

Ba15d bulb holder with 120mm flying leads. Plated steel with fixing bracket.

132034 £2.36

BA15s - With Bracket

Ba15s bulb holder with 120mm flying lead. Plated steel with fixing bracket.

132035 £2.36

BAY15d - With Bracket

BAY15d bulb holder with 120mm flying leads. Plated steel with fixing bracket.

132036 £2.36

Festoon Bulb Holder

Suitable for taking 35mm long festoon bulbs. Single screw mounting hole.

132021 £5.75

BAY15d - Bayonette fitting

Nylon bulb holder to take BAY15d bulbs. Holder fits 28mm diameter holes up to approximately 2mm thick. Connection via 6.3mm blade terminals.

132032 £4.72

BA15s - Bayonette Fitting

Nylon bulb holder to take BA15s bulbs. Holder fits 28mm diameter holes up to approximately 2mm thick. Connection via 6.3mm blade terminals.

132033 £4.72

REPAIR BULB HOLDERS

132014

132015

Use for repairing reflectors with damaged/missing bulb holders. Will fit into 22mm diameter hole. Bulb holder edge is then peened over to attach.

Part No.	*Type*	*Each*
132014	Single contact, parallel pins (BA15s)	£5.88
132015	Double contact, offset pins (BAY15d)	£5.88

HEADLAMP CONNECTORS

British Pre-Focus Connector

Bulb holder/connector to fit the rear of British Prefocus Reflectors. Has 3 leads 80cm long with bullet connectors, and headlamp shell sealing grommet.

132026 £8.27

H7 Connector

Ceramic H7 connecting socket with 100mm flying leads.

132030 £1.93

H1 Connector

Ceramic H1 connecting socket with 100mm flying leads.

132028 £2.15

H4 Connector

For connecting to H4 (P43t and P45t) bulbs and sealed beam lamps. Supplied with 90° terminals.

050502 £1.82

H4 Connector

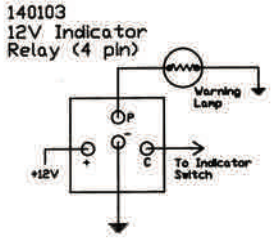
As 050502 but with straight terminals.

050501 £1.52

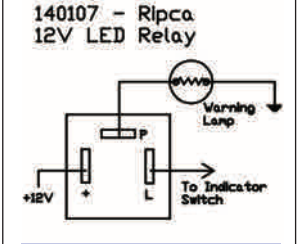
H4 Connector

Ceramic H4 connecting socket with 100mm flying leads. For use with P43t and P45t bulbs and sealed beam lamps. (Useful, if your headlamp bulbs get really hot as the ceramic holder will not melt).

132029 £2.43



For item details, see p.73.



For item details, see p.73.

HEADLAMPS - FREESTANDING

Classic Mini Driving Lamps (125mm)

High power 5" (125mm) diameter driving or spot lamps. Highly polished chrome. Fitted with 12V H3 55W bulbs. Supplied as a PAIR in a box. E-marked.

170414 £39.90 pair

Classic Style Driving Lamps (140mm)

High power 5.5" (140mm) diameter driving or spot lamps. Highly polished chrome. Fitted with 12V H3 55W bulbs. Supplied with durable plastic Wipac covers. E-marked. Supplied as a PAIR in a box.

170413 £31.50 pair

Stainless Steel

Black

Classic Free-Standing - 7" or 5.75"

Classic free-standing headlamps with 60/55W halogen bulbs. Complete with integral sidelight, lead and all bulbs. Available in either polished stainless steel or black finish and with either 7" or 5.75" diameter reflectors. The 7" units are approximately 185 mm in diameter and 155mm deep. The 5.75" units are approximately 155mm in diameter and 125mm deep. E-marked.

Part No.	*Size (Inches)*	*Finish*	*Each*
170401	7	Polished stainless steel	£85.03
170402	7	Black	£85.03
170403	5.75	Polished stainless steel	£78.57
170404	5.75	Black	£78.57

Wipac 4x4 Offroad Driving Lamps

High power 12V, 100W, 8" diameter halogen lamps. Available with either black or stainless steel body, both with stainless steel rim. Supplied with armoured cable and fitted plastic stone guard. Sold as PAIR only.

Part No.	*Size (Inches)*	*Finish*	*Each*
170411	8	Black	£65.26
170412	8	Stainless Steel	£91.35

Black

Stainless Steel

5.75” LIGHT UNITS

Reflector

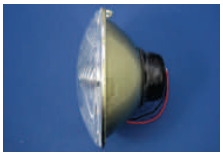
As Supplied

For units with side light aperture, the suitable connecting harness is 170204 (p.99). For those without, the harness is 170201 (p.99).

Consist of metal reflectors that take tungsten halogen bulbs. These units are physically interchangeable with sealed beam lamps and the bulbs have the same electrical connection. Require P45t bulbs or P43t bulbs (using supplied adapter). Available with or without side light bulb holder (requires BA9s bulb - see p.84). Supplied with bulb rubber dust cover.

Part No.	*Type*	*Version*	*Each*
170110	With side light	UK	£16.38
170117	With side light	European	£22.43

7” LIGHT UNITS



Replica P700 Tripod

Replica version of Lucas 7" tripod light unit. These units have a metal reflector and glass lens, and are fitted with a 12V 5W pilot lamp. They take a H4 P43T bulb (not supplied - see p.88). Reflector and lens are symmetrical about the vertical centre line and so unit is usable in both in UK and Europe as dipping is up/down. No E-marking. Comes with rubber dust cap for bulb.

P700 £30.98 each

British Pre-Focus Reflector

Lucas 700 series light unit (LUB300) to take British Pre Focus bulb (see p.88). Has glass lens and metal reflector. Not E-marked. No provision for pilot lamp.

LUB300 £18.22 each

MORE
7” LIGHT UNITS
OVER THE PAGE

7" LIGHT UNITS (contd)

Lucas H4

Consist of metal reflectors available with or without pilot light assembly. These units take a H4 P43t bulb (not supplied - see p.88). The pilot light (if fitted) requires a BA9s bulb and is connected via 2 x 6.3mm blade terminals. For UK use only as they dip to the left. All units are E-marked, supplied with a rubber cover to protect rear of the H4 bulb and come in Lucas boxes.

Wipac Quadoptic

A slightly cheaper range than the Lucas lamp units which consist of glass lenses with plastic reflectors, available with or without hole (12mm diameter) for pilot light bulb holder. These units take a H4 P43t bulb (not supplied - see p.88). For UK use only as they dip to the left. All units are E-marked. The required pilot light bulb holder is our part 132018 which requires a capless W2.1 x 9.5d type bulb (p.86) and is connected via 2 x 6.3mm blade terminals.

Wipac Fluted Reflector

Consist of fluted plastic reflectors with clear polycarbonated lenses. (These lamp units are often used when the look of the vehicle is of top priority as they have a classic look). For UK use only as they dip to the left. Available with or without pilot light bulb holder. All units take a H4 P43t bulb (not supplied - see p.88) and the pilot requires a capless W2.1 x 9.5d type bulb (p.86). All units are E-marked.

Part No.	*Type*	*Version*	*Suitable Harness*	*Each*
Lucas H4				
LUB383	With pilot	UK	170204	£19.90
LUB328	Without pilot	UK	170201	£19.90
Wipac Quadoptic				
S6010	With pilot	UK	170204	£16.75
S6008	Without pilot	UK	170201	£16.75
Wipac Fluted Reflector				
S6072	With pilot	UK	170204	£24.68
S6071	Without Pilot	UK	170201	£24.68

European versions (right dipping) are also available.
Please phone or see our website for details.

HEADLAMP PARTS

7” Headlamp Bowl Assembly (3 Screw)

Lucas steel mounting bowl assembly for 7" headlamp units. Comprises steel mounting bowl complete with headlamp unit mounting ring and rim with 3 screw adjusters (for adjusting beam height). Once the light unit is clamped between the ring and rim, the whole assembly bayonets onto the three spring loaded beam adjusters of the black mounting bowl. This unit will fit any of the 7" light units in the 7" Light Unit section. When fixing the bowl assembly into the body shell, a rubber mounting gasket is recommended.

170308 £25.72

7” Headlamp Bowl Assembly (2 Screw)

Lucas steel mounting bowl assembly for 7" headlamp units. Comprises steel mounting bowl complete with headlamp unit mounting bowl and rim with two screw adjusters (for adjusting beam height). This unit will fit any of the 7" light units in the 7" Light Unit section. When fixing the bowl assembly into the body shell, a rubber mounting gasket is recommended.

170304 £23.62

W Clips

Used to hold light units into headlamp shells.

170410 £0.78

Plastic Mounting Bowl

Plastic headlamp bowl to take 7" or 5.75" light units. Made from tough black plastic. Comes complete with chrome-plated lens retaining bezel, bodywork sealing gasket, cable grommet and retaining screws.

For 7” units
170101 £15.95

For 5.75” units
170106 £18.97

Headlamp Rim - Black Plastic

To fit 5.75" headlamp bowl (part no. 170106).

170303 £8.43

7” Headlamp Mounting Ring

Plastic mounting ring with chromed steel headlamp unit retaining ring. For mounting headlamps in confined spaces. Takes all 7" light units. Supplied with mounting gasket and screws.

170102 £16.97

Headlamp Rims - Chrome Plated

Chrome-plated rims to fit 170101 and 170102. Held in place with a retaining screw.

8.5” OD
170301 £17.31

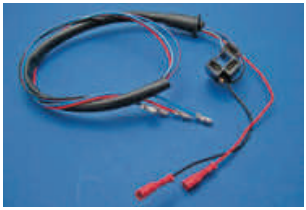
8” OD
170302 £16.05

Headlamp Bowl Mounting Gaskets

Rubber mounting gaskets for use with 2 & 3 screw adjuster Lucas 7" mounting bowls, but can be used for other applications. For 170304, two gasket widths are available, for 170308, only one width is available.

Part No.	*Dimensions (Approx.) (mm)*	*Gasket Width (mm)*	*For Use With*	*Each*
170305	145 ID x 210 OD	32	170304	£4.04
170306	145 ID x 200 OD	27	170304	£4.04
170307	160ID x 215 OD	28	170308	£4.04

HEADLAMP HARNESSES



For All Headlamps With Integral Sidelights

Connected via 2 x 6.3mm blade terminals. Comes with headlamp connecting plug, 70cm of cables, sleeving, headlamp shell grommet and bullet connectors.

170204 £6.40

For All Headlamps Without Integral Sidelights

With headlamp connecting plug, 80cm of cables, sleeving, headlamp shell grommet and bullet connectors.

170201 £5.93

For Metal Reflectors

With hole for clip-in sidelight bulb holder. Comes complete with headlamp connecting plug, rubber dust cover, separate sidelight bulb holder, 1m of cables, sleeving, headlamp shell grommet and bullet connectors.

170203 £11.53

INDICATOR LAMPS

Land Rover Style

Wipac manufactured Land Rover style indicator light. Approximately 70mm in diameter. Requires 35mm panel hole. E-marked. Takes a BA15s bulb (not supplied - see p.85). Supplied with 90cm lead with bullet connections.

170740 £7.04

Lucas L488

72mm diameter rubber base with 54mm diameter flat amber glass lens. Supplied with 12V, 21W bulb. Overall length approx. 100mm including lens. Spare bulb holders and lenses available separately (see p.109).

171010 £17.19

Lucas L539

83mm diameter chromed metal base with 65mm diameter domed amber plastic lens. Supplied with 12V, 21W bulb, 600mm leads with bullet terminals and sealing gasket. Overall length approx. 75mm including lens.

171012 £27.66

Lucas L594

72mm diameter rubber base with 54mm diameter domed amber glass lens. Supplied with 12V, 21W bulb. Overall length approx. 100mm including lens. E-marked. Spare bulb holders and lenses available separately. Matching side lamp and stop/tail lamp also available.

171009 £16.08

Black Bullet Indicator

Matt black bullet shaped body mounted on a 15mm tall threaded upstand. Supplied with 12V Ba15s 23W bulb.

170649 £10.50

Chrome Custom Indicator - Flush Fit

Chrome bullet shaped body, mounted on flush-fit threaded upstand. Supplied with 12V Ba15s 10W bulb.

170647 £10.50

INDICATOR LAMPS (contd)

Replica Lucas L594

Pattern version of Lucas L594 with amber plastic lens. Supplied with bulb and 20cm of cable with bullet terminals. E-marked.

170602 £9.68

Replica Lucas L594 Flush Fit

Replica flush-fit version (with a plastic lens) of Lucas L594. Fitted with 12V 21W festoon bulb. (For 6V applications use 6V bulb - 131902 - see p.91). E-marked.

170605 £7.70

Lucas L794

Supplied with 500mm leads with bullet terminals, sealing gasket and bulb. Approx 82mm diameter. E-marked.

171018 £28.56

Replica L632 Side/Indicator

This is a good reproduction of the Lucas L632 combined side/indicator lamp fitted to a variety of vehicles. Supplied with 500mm leads with bullet terminals, sealing gasket and bulbs.

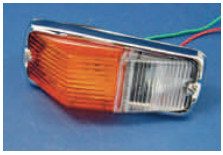
170634 £28.95

Rubber Bodied Marker Lamp

Rubber bodied marker lamp that can be used as a discrete indicator lamp. Body diameter 46mm, lens diameter 35mm. Overall length 91mm Supplied with mounting bracket. Requires BA15s bulb. Recommended for use with 19 LED bulb, part number 132401 (p.90). E-marked.

NOTE: This lamp unit was designed for use with standard 5W bulbs. If used with standard 21W bulbs in a non-flashing mode, damage to the light unit will occur due to the heat generated.

170607 £14.64



Lucas L677 Side/Indicator

Combined side/indicator lamp. Fits many vehicles including MG's, Triumphs, Aston Martin etc. Supplied with 500mm leads with bullet terminals and sealing gasket. E-marked. Requires bulbs. 21W BA15s indictor bulb (p.85) and 4W BA9s side light bulb (p.84).

170632 £17.55

Lucas L691

83mm diameter chromed metal base with 80mm diameter domed amber plastic lens. Supplied with 12V, 21W bulb, 600mm leads with bullet terminals and sealing gasket. Overall length approx. 90mm including lens. E-marked.

171011 £19.50

Surface Mounted Modern Style

94mm diameter. Connection via 2 pin econoseal socket (051202) which needs to be purchased separately (p.35). Supplied with 12V, 21W bulb and sealing gasket. Can be bezel mounted (see below). E-marked. Front and rear versions available.

Front

171016 £17.91

Rear

171017 £17.91

Mounting Bezel
170416
£2.26

Indicator Kits

170803 & 04

£27.42

(see p.123 for details)

Custom Indicator - Short Stem

Chrome bullet shaped body, mounted on threaded upstand. Supplied with 12V Ba15s 21W bulb.

170648 £10.50

Hazard Switch Kits
170902 & 03
from £18.69
(see p.123 for details)

INDICATOR REPEATER LAMPS

Lucas L734

76mm x 24mm. 2 x fixing studs on 42mm centres. Supplied with gasket, 100 cm leads and 12V BA9s bulb.

171023 £14.18

LED Repeater

Circular 12v & 24v LED repeater lamps. 19mm diameter lens, 27mm including rubber surround. Requires 20mm diameter hole. Supplied with 180mm tails. E marked.

12V **171024** £8.50
24V **171025** £9.50

INTERIOR LAMPS

Fluorescent Tube

Enamelled metal body with plastic lens and integral switch. 353 x 58 x 29 mm. Supplied with 12V, 8W fluorescent tube.

176004 £24.16

Spare Tube 176005
£5.61

Fluorescent Twin Tube

Plastic lamp unit containing 2 x 8W fluorescent tubes. Can be operated with one or two tubes illuminated or switched off. Supplied in a box with instructions. 360mm x 60mm x 37mm tall.

176008 £13.12

Recess Mounted 12V/24V LED

12 bright white LEDs mounted in a splashproof plastic housing. 43mm in diameter, requires 35mm mounting hole. Can be powered by 24V supply if used with supplied resistor pack. CE approved.

176009 £14.50

AVAILABILITY OF INTERIOR LAMPS IS SUBJECT TO FREQUENT CHANGE.

PLEASE SEE WEBSITE FOR UP-TO-DATE STOCK LIST.

Slimline

Modern style slimline roof lamp. Plastic lens on a white plastic base with on/off switch. Supplied with a 12V 10W G4 bulb. 150mm diameter, 40mm deep.

176011 £16.90

Low Profile LED Roof lamp

Slim 12/24V LED roof lamp. 36 bright white LED's, surface mounting. Made from white plastic. 129mm OD x 9mm high.

176013 £39.38

Slimline LED Lamp

Slimline circular LED interior lamp with on/off switch. Contains 117 white LED's. 107mm OD x 20mm deep. Operates from 10 to 30V.

176012 £30.94

SIDE LAMPS

Lucas L539

83mm diameter chromed metal base with 65mm diameter domed plastic lens. Supplied with 12V, 5W bulb, 600mm leads with bullet terminals and sealing gasket. Overall length approx. 75mm including lens.

170612 £27.66

Replica Lucas L1130 Side/ Indicator with Glass Lens

Made from chrome plated pressed brass. Has double pole bulb holder, chrome rim and patterned glass lens. Supplied with 12V, 21/5W bulb. Available with or without Lucas red dot illuminating roundel.

Without Red Dot
170619 £47.78

With Red Dot
170619-RD £51.98

Lucas L594

72mm diameter rubber base with 54mm diameter domed glass lens. Available in either single pole (5W) or double pole (21/5W) for use as combined side light/indicator. Supplied with bulbs. Overall length approx. 100mm including lens. Spare bulb holders and lenses (amber, clear and red) available separately (see p.109). E-marked.

Single Pole
170609 £16.08

Double Pole
170622 £16.08

Replica Lucas L594 Flush Fit

Flush-fit version with single filament 5W festoon bulb.

170604 £7.70

Reproduction Lucas L489

Supplied with 500mm leads with bullet terminals, sealing gasket and 12V Ba9s bulb.

170645 £44.62

Replica Lucas L594

Pattern version of Lucas L594 with plastic lens. Supplied with bulb and 20cm of cable with bullet terminals. E-marked.

170601 £9.22

Surface Mounted Modern Style

94mm diameter. Connection via 2 pin econoseal socket (051202) which needs to be purchased separately (see p.35). Supplied with 12V, 5W bulb and sealing gasket. Can be bezel mounted (see below). E-marked.

170616 £17.91

Mounting Bezel
170416
£2.26

Rubber Bodied Marker Lamp

Can be used as a discrete side lamp. Body diameter 46mm, lens diameter 35mm. Overall length 91mm. Supplied with mounting bracket. E-marked. Requires 12V, 5W BA15s bulb 130403 (see p.85).

170615 £14.64

Rubber Bodied Side Lamp

56mm diameter with a slightly curved plastic lens. Requires 30mm diameter panel hole. Overall length 78mm. E-marked. Requires 12V, 5W BA15s bulb 130403 (p.85).

170613 £12.88

MORE SIDE LAMPS OVER THE PAGE

SIDE LAMPS (contd)

Lucas L513

Lucas L513 side lamps. Available in either single pole (side light only) or double pole (side/indicator) versions. Come with rubber sealing O ring. Single pole version requires BA15s type bulb (p.85). Double pole version requires BAY15d type bulb (p.86).

Single Pole

170635 £43.65

Double Pole

170636 £43.65

Lucas L794

Supplied with 500mm leads with bullet terminals, sealing gasket and bulb. Approx 82mm diameter. E-marked.

170633 £28.56

Replica Lucas L516

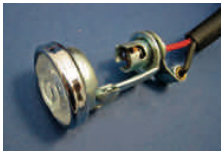
Reproduction of Lucas L516 side/marker lamp. Chrome plated with glass lens. This lamp takes a BA9s bulb (12V bulb supplied) and has leads with bullet connectors approx 50cm long. Lamp diameter approximately 33mm, length 85mm.

170638 £30.83

Land Rover Style

Wipac manufactured side light. Approximately 70mm in diameter. Requires 35mm panel hole. E-marked. Takes a BA15s bulb (not supplied - see p.85). Supplied with 90cm lead with bullet connections.

170640 £7.04



Replica Lucas L490

A good reproduction of the Lucas 490 side lamp. These lamps were often fitted to Jaguar and Daimlers, but also to many other makes. Supplied with 1m long cables, PVC sleeved, with bullet connectors. Approx. 30mm diameter x 50mm long. Requires BA9s bulb (p.84).

170637 £28.66

Vintage Style

Chrome plated side light. Fitted with 12V BA9s bulb. Has frosted glass and red illuminated medallion on top surface. Approximately 55mm in diameter by 65mm long. Complete with 30cm lead with brass bullet.

170639 £30.83

Lucas L488

72mm diameter rubber base with 54mm diameter flat glass lens. Available in either single pole (5W) or double pole (21/5W) for use as combined side light/indicator. Overall length approx. 100mm including lens. Supplied with bulbs. Spare bulb holders and lenses available separately (see p.109).

Single Pole

170610 £17.19

Double Pole

170621 £17.19

Lucas L691

83mm diameter chromed metal base with 80mm diameter domed plastic lens. Supplied with 12V, 5W bulb, 600mm leads with bullet terminals and sealing gasket. Overall length approx. 90mm including lens. E-marked.

170611 £19.50

REAR LAMPS

Land Rover Style Stop/Tail

Wipac manufactured Land Rover style stop/tail light. Approximately 70mm in diameter. Requires 35mm panel hole. E-marked. Takes a BAY15d bulb (not supplied - see p.86). Supplied with 90cm lead with bullet connections.

170540 £7.04

Lucas L488 Stop/Tail

72mm diameter rubber base with 54mm diameter flat glass lens. Supplied with 12V, 21/5W bulb. Overall length approx. 100mm including lens. Spare bulb holders and lenses available separately (see p.109).

170510 £17.19

Lucas L594 Stop/Tail

72mm diameter rubber base with 54mm diameter domed glass lens. Supplied with 12V, 21/5W bulb. Overall length approx. 100mm including lens. Spare bulb holders and lenses available separately (see p.109).

170509 £16.08

Replica Lucas L594 Stop/Tail

Pattern version with plastic lens. Supplied with bulb and 20cm of cable with bullet terminals. E-marked.

170603 £9.22

Parcel Shelf Rear Brake Lamp

Supplied with 2m long cable. 12 volt LED display. 320 (L) x 36 (W) x 20 (H)mm. EC approved.

170530 £25.00

Lucas L539 Stop/Tail

83mm diameter chromed metal base with 65mm diameter domed plastic lens. Supplied with 12V, 21/5W bulb, 600mm leads with bullet terminals and sealing gasket. Overall length approx. 75mm including lens.

170512 £27.66

Lucas L691 Stop/Tail

83mm diameter chromed metal base with 80mm diameter domed plastic lens. Supplied with 12V, 21/5W bulb, 600mm leads with bullet terminals and sealing gasket. Overall length approx. 90mm including lens. E-marked.

170511 £19.50

Lucas L549 Stop/Tail

Supplied with 12V, 21/5W bulb and sealing gasket. Spare lenses also available (see p.109).

170518 £26.76

Surface Mounted Modern Style Stop/Tail or Tail Only

94 mm diameter. Stop/tail lamp connection via 3 pin econoseal socket, tail only connection via 2 pin econoseal socket (051202), to be purchased separately (p.35). Supplied with 12V, 21/5W (stop/tail) or 5W (tail only) bulb and sealing gasket. Can be bezel mounted (see below). E-marked.

Stop/Tail
170516 £17.91

Tail Only
170517 £19.27

Mounting Bezel
170416
£2.26

REAR LAMPS (contd)

Lucas L551 Stop/Tail Lamp

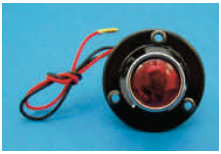
Lucas L551 stop/tail lamp. 96mm diameter chromed metal base with 80mm diameter domed plastic lens. Supplied with 12V, 5W BA9S side bulb & 12V 21W BA15S stop bulb, 600mm leads with bullet terminals and sealing gasket.

170513 £47.25

Rubber Bodied Marker/Tail

Can be used as a discrete tail lamp. Body diameter 56mm, lens diameter 35mm. Overall length 91mm. Supplied with mounting bracket. E-marked. Requires 12V, 5W BA15s bulb (p.85).

170515 £14.64



Lucas MT211 Stop/Tail

Replica of Lucas MT211 rear lamp. Fitted with BAY15D 23/8w small globe (stop/tail) bulb. Lamp body approximately 25mm diameter x 45mm long with number plate illuminating window.

170522 £15.22

Rubber Mounted Tail

Black plastic base with red lens. Two holes for fixing screws. 62 x 62 x 46mm. E-marked. Requires 5W festoon bulb (131702 - p.91).

170506 £5.20

Combined Tail and Indicator Lamp

77mm diameter by 60mm deep. Black metal case. Comes complete with cable grommet and mounting bolts. Requires 43mm festoon bulbs (131802 & 131904 - p.91).

170505 £36.03

Rubber Bodied Tail

56mm diameter with a slightly curved plastic lens. Requires 30mm diameter panel hole. Overall length 78mm. Requires 12V, 5W BA15s bulb (130403 - p.85). E-marked.

170514 £12.88

Lucas 477/1 Stop/Tail

Replica of Lucas 477/1 rear lamp. Fitted with BAY15D 23/8w small globe (stop/tail) bulb. Lamp body approximately 60mm diameter (max) x 50mm long with number plate illuminating window.

170523 £19.95

Miller Stop/Tail lamp (Replica)

Replica of Miller Stop/Tail lamp. Fitted with 2 x 10w 12v single pole/filament bulbs BA15s.

170524 £17.23

REVERSING LAMPS

Surface Mounted Modern Style

94mm diameter. Connection via 2 pin econoseal socket (051202) which needs to be purchased separately (p.35). Supplied with 12V, 21W bulb and sealing gasket. Can be bezel mounted (see below). E-marked.

173016 £17.91

Mounting Bezel 170416
£2.26

Surface or Bracket Mounted

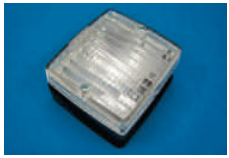
Can either be surface mounted or attached with the bracket provided. 130 x 76 x 55mm. E-marked. Requires 12V, 21W bulb (130502 - p.85).

173001
£6.08

Adjustable Bracket

Mounted on an adjustable steel bracket. Black plastic body 125 x 80 x 75 (deep) mm. E-marked. Requires 12V, 21W bulb (130502 - p.85).

173002
£13.28



Reversing Lamp - Surface Mount

Reversing light suitable for surface mounting, supplied with adjustable pad to vary angle and mounting bolts. Requires BA15s bulb. 100mm x 93mm x 55mm (deep).

173004
£13.83

REAR FOG LAMPS

Surface or Bracket Mounted

Can either be surface mounted or attached with the bracket provided. 130 x 76 x 55mm. E-marked. Requires 12V, 21W bulb (130502 - p.85).

172001 £6.08

Adjustable Bracket

Mounted on an adjustable steel bracket. Black plastic body 125 x 80 x 75 (deep) mm. E-marked. Requires 12V, 21W bulb (130502 - p.85).

172002 £13.28

Surface Mounted

Rear fog light suitable for surface mounting, supplied with adjustable pad to vary angle, and mounting bolts. 100mm x 93mm x 55mm (deep). E-marked. Requires 12V, 21W bulb (130502 - p.85).

172005 £13.83

Surface Mounted Modern Style

94mm diameter. Connection via 2 pin econoseal socket (051202)which needs to be purchased separately (p.35). Supplied with 12V, 21W bulb and sealing gasket. Can be bezel mounted (see below). E-marked.

172016 £17.91

Mounting Bezel 170416
£2.26

NUMBER PLATE LAMPS

Black Plastic

102 x 55 x 57mm. Requires 12V, 5W bulb (130403 - p.85). E-marked.

170703 £5.30

Black Plastic

83 x 30 x 35mm. Requires 12V, 5W festoon bulb (131702 - p.91). E-marked.

170704 £4.97

Stainless Steel

Supplied with 2 x 12V BA9s bulbs. Has plastic lens and rubber sealing gasket. Supplied with 50cm leads with bullet connectors. E-marked. This is the same part that is supplied to the Morgan Motor Co.

170702 £20.90

Black Plastic

Plastic number plate lamp with 2 x 12V BA9s bulbs supplied. Has plastic lens and rubber sealing gasket. 110 x 45 x 40mm. E-marked.

170701 £13.54

Chrome

With glass bowl to protect bulb. Mounting centres 45mm (5mm bolts). Supplied with 40cm lead with bullet connector. Requires small globe BA15s bulb (see p.85).

170705 £11.44

Chrome

Mounting centres 40mm. Supplied with 50cm leads with bullet connectors. Requires BA9s bulb (p.84).

170706 £7.35

Lucas 56790

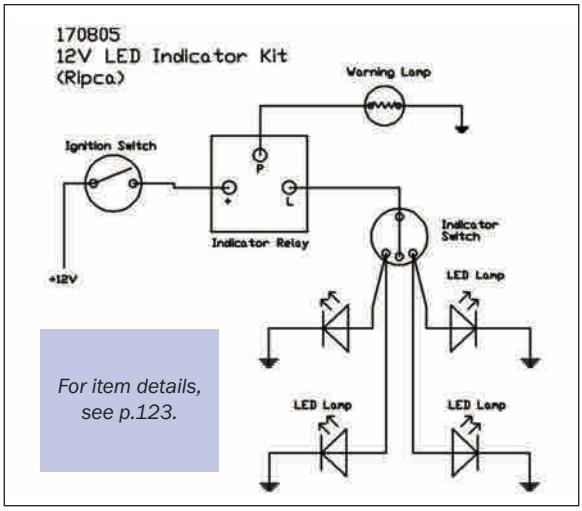
Lucas version of 170702. Lucas part 56790. Chrome plated brass. Supplied with 2x3w BA9s bulbs.

170707 £29.00

LED Bolt

LED bolt style number plate lamps mounted on M8 threaded hollow bolt. 32mm total length.

170650 £10.50



For item details, see p.123.

MULTI-FUNCTION LAMPS

Stop/Tail and Indicator

Plastic base and plastic lens. 104 x 98 x 50mm. Supplied with fixing bolts and grommet. E-marked. Requires bulbs (130502 & 131002 - see p.85 and 86). Available with or without number plate illumination.

With Illumination

174001 £5.33

Without Illumination

174002 £5.22

Stop/Tail and Indicator

Stop/tail and indicator lamps. One model with illumination window for number plate (174004) and one model without (174003). 180 x 58 x 50mm. Supplied with grommet. Requires one BA15s bulb and one BAY15d bulb.

174003 £8.90

174004 £8.90

Trailer Lighting Set

Pair of magnetic multi-function lamps with attached triangular reflectors. Prewired with 7.5m of cable to a standard trailer plug. Supplied with bulbs. Very useful and adaptable set. Plug-in and go. E-marked.

174006 £52.34

REFLECTORS

Chrome Rectangular

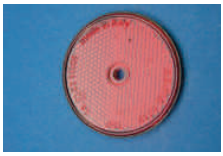
Red reflector with chrome plated metal surround. Reflective area 70 x 34mm. 5mm fixing holes on 80mm centres. Overall size 88 x 40mm. E-marked.

175006 £8.90

Lucas Round

Lucas 70mm red reflector. Reflector diameter is 55mm. Chrome rim holds reflector to the rubber base, which is shaped to fit the slight curvature of the vehicle wing. Unit fixes to vehicle with self tapping screw. E-marked.

175005 £10.38



Circular - 60mm

Red 60mm diameter with fixing hole.

175002 £0.75

Rectangular

Red 90 x 40mm with two fixing holes.

175004 £1.35

Circular - 83mm

Red 83mm diameter with fixing hole.

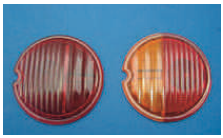
175003 £1.14

Triangular

Standard triangular reflectors with two fixing holes.

175001 £1.45

LAMP SPARES



Lucas ST38 'Pork-Pie' Spare Lenses

Replacement lenses for Lucas ST38 lamps. Available in either all red (glass) or red/amber (plastic). The red/amber versions can be used to convert existing ST38 stop/tail lamps into stop/tail/indicator lamps. In order to convert a lamp, the bulb holder assembly has to be rotated by 180 degrees. This then gives two bulbs behind the red part of the lens (stop/tail) and one bulb behind the amber part (indicator).

Red/Amber Lens
170520 £11.02
Red Lens
170521 £11.02

Chrome Rim for Lucas L488/L594 Lamps

Chrome rim to suit both L488 and L594 style lamps.

178003 £2.15

Lucas 1130 Spare Lens

177014 £14.70

Lucas L488 Lamp Body

Rubber body for Lucas L488 style lamps.

178001 £3.31

Lucas L594 Lamp Body

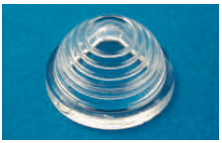
Rubber body for Lucas L594 style lamps.

178002 £3.31

Lucas L488 Spare Lens

Spare lens for Lucas L488 lamps. Available in amber, clear or red.

Amber Lens
177004 £6.68
Clear Lens
177005 £6.68
Red Lens
177006 £6.68



Lucas L516 Spare Lens

Spare clear lens for Lucas L516 lamps, manufactured in plastic, but is identical to original glass lenses.

177013 £4.20

Lucas L594 Spare Lens

Spare lens for Lucas L594 lamps. Available in amber, clear or red.

Amber Lens
177001 £6.68
Clear Lens
177002 £6.68
Red Lens
177003 £6.68

Lucas L691/L692 Spare Lens

Spare lens for Lucas L691 (single filament) and L692 (double filament) lamps. Supplied with replacement screws and gasket. Available in amber, clear or red.

Amber Lens
177007 £8.73
Clear Lens
177008 £8.73
Red Lens
177009 £8.73

Lucas L549 Spare Lens

Spare lens for Lucas L549 rear lamps.

177011 £7.35

Lucas L488

Bulb holders for Lucas L594 range of lights. Available as single (BA15s) or double (BAY15d) contact.

Single Contact
132012 £5.88
Double Contact
132013 £5.88

Lucas L594

Bulb holders for Lucas L594 range of lights. Available as single (BA15s) or double (BAY15d) contact.

Single Contact
132010 £5.48
Double Contact
132011 £5.48

Lucas L794 Spare Lens

Spare lenses supplied with gasket and mounting screws.

Amber Lens
177012 £9.19
Clear Lens
177010 £9.19

DASHBOARD WARNING LAMPS

Large Warning Lamp

Needs 9mm BA9s bulb (130302 - p.84) and 17mm panel hole. 6.3mm blade terminals. Available in AMBER, GREEN, BLUE & RED.

090109 £4.29

LED Warning Lamp

Push fit into 8.2mm hole. Supplied with 300mm leads. Polarity sensitive. Available in GREEN, RED, AMBER or RED FLASHING.

090113 £3.37

LED with Nickel Surround

LED warning lamp with nickel plated surround. Fits into 8mm panel hole. Available in RED, GREEN, AMBER and BLUE. Works on both 12V and 24V.

090118 £3.86

Older Style

Turned aluminium bezel. Bezel diameter 22mm. Requires 17.5mm panel hole. Maximum panel thickness 10mm. Requires BA9s bulb, 2.2W (not supplied - see p.84). 2 x screw terminals. Available in BLUE, GREEN, RED or AMBER. *A large range of matching warning lamps are also available - see web site for more details.*

090117 £3.98

Older Style Specific

As per the older style warning lamps, but with specific glasses. The following are available: Battery Charge, Brake Warning, Fan, Fog Light, Hazard, Headlight, Indicator, Lights On, Oil Pressure. See website for more details.

Small Plastic

Supplied with 12V, 1.2W, mini capless bulb. 2.8mm blade terminals. Push fits into 10mm panel hole. Available in AMBER, GREEN, BLUE & RED.

090105 £3.51

Classic Style

12V, 2W, BA7s bulb. 6.3mm blade terminals. Needs 13mm panel hole. Available in BLUE, GREEN, RED or AMBER.

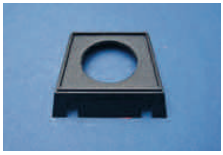
090101 £2.61

12V FUEL SOLENOID VALVE

Anti-theft 12V solenoid valve for petrol and diesel. Cuts off fuel when not energised. Bore of 3.5mm. Pressure 0 - 3 bar, flow coefficient of 0.28. 8mm OD. Protected to IP65. Large bore version (250102) has bore of 6.0mm, flow coefficient of 0.60 and OD 11mm.

250101	*3.5mm Bore*	£44.14
250102	*6.0mm Bore*	£65.19

CIGAR LIGHTERS & BRACKETS & USB



Bracket for Cigar Lighter

For under dashboard mounting of cigar lighters 090204 & 090205. Finished in black.

090203 £0.82

Cigar Lighter Plug Extension Lead

Coiled cable, 2.45m working length with standard lighter plug and socket. Rated at 5A at 12V DC continuous.

090209 £8.90

12V Double USB Socket

12V input, 5V output. 37mm diameter, requires 28mm diameter hole. Max panel thickness 29mm. Supplied with nut, connection via 2 x 6.3mm blade. Blue LED power indicator.

090211 £9.98

Cigar Lighter

Requires 25mm panel hole. Suitable for dashboard mounting. Connection via 2 x 6.3mm blade terminals. Available in illuminated or non-illuminated versions.

Non-Illuminated
090204 £10.28
Illuminated
090205 £11.38

Cigar Lighter Socket

Socket only. Non-illuminated. Requires 28mm panel hole.

090206 £5.32

USB 2 Port Adapter

USB 2 port adapter that fits into standard cigar lighter sockets. Useful for charging phones and tablets etc.

090212 £7.24

Cigar Lighter Plug

Fits most cigar lighter sockets with red adapter (supplied) in place. Without red adapter, fits standard DIN socket. Has an internal fuse of 8A.

090202 £4.57

Cigar Lighter Socket

Suitable for making flying lead cigar lighter sockets. Has internal solder connections and cable strain relief.

090210 £2.31

Cigar Socket Doubler with Twin USB

Cigar lighter plug supplying a double cigar socket and twin USB sockets. Has 500mm lead.

090213 £14.07

Cigar Lighter Plug with Integral Fuse

Cigar lighter plug with integral replaceable fuse (supplied) and green LED to indicate power is on.

090207 £3.35

Cigar Socket Doubler

Cigar lighter plug supplying a double socket via flexible cable. 10A max.

090208 £11.15

Twin USB Socket

UK manufactured (Alfatronix) high quality double USB socket, suitable for use on 12V or 24V systems. Advanced electronics detect the charge status of the device and alters the charging process accordingly, ensuring that the device connected will always be charged as fully as time will allow.

090214 £19.99

CIGAR LIGHTERS & BRACKETS & USB (contd)

USB Single Port Socket - Under Dash

Made in the UK (Alfatronix) high-quality mounted on a card, a single USB plug, suitable for use on 12V or 24V systems. This plug can be secured under or behind the dashboard using the clamps provided, avoiding drilling holes in the dashboard, etc.

090215 £15.99

DIN SOCKETS & PLUGS

DIN Panel Socket

Requires 16mm hole. 16A maximum.

090301 £5.21

Triple DIN Socket

3 sockets mounted on a panel. Hole required 70 x 20mm. Supplied with fixing screws. 16A max.

090303 £14.43

DIN Socket with Spring Loaded Cap

Requires 18mm hole. 2 x 6.3mm blade terminals. 16A max.

090305 £6.90

DIN Socket - Surface Mount

Supplied with fixing screws. 16A maximum.

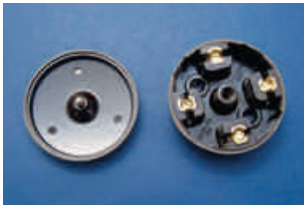
090302 £7.51

DIN Plug

To fit all DIN sockets. 16A max.

090304 £4.20

JUNCTION BOXES



4-Way Circular

4 screw terminals. 57mm diameter. Lid with retaining screw.

090601 £3.69

8-Way Rectangular

An 8-way junction box with rubber body and a clear plastic cover. The body has four waterproof cable glands. W110 x D90 x H41mm. Supplied with mounting bolts.

090501 £14.36

6 or 12-Way Phenolic

Junction box with black phenolic body and lid. Waterproof cable glands at each end. Lid secured by knurled nut and sealed by a waterproof gasket. Can accept cables up to 6mm². Screw connections. W125 X D73 x H25mm.

090401 *6-Way* £13.05

090402 *12-Way* £16.71

WIPER MOTORS

Universal wiper motor with an on/off switch on rear of casing. The mounting shaft has an M10 thread along its length and allows the wiper to be fitted to frames up to 84mm thick. The mounting shaft and the co-axial driving shaft can be cut down to suit any frame up to this thickness. Aprroximate case dimensions 75mm wide x 50mm tall x 75mm deep. Available with either an 85° or 110° travelling arc. 12V.

190101	*110° Arc*	£68.50
190102	*85° Arc*	£68.50

WASHER PUMPS & BOTTLES

Washer Pump

12V vane-type pump with universal fixing bracket. Connection via 2 x 6.3mm blade terminals.

190201 £12.11

Lucas WSB100

12 Volt vane type pump with metal fixing bracket.

WSB100 £11.02

12V Washer Pump and Bag

Plastic bag (incorporating pump) hangs on metal bracket provided. Supplied with all necessary fittings including push button switch, pipe and nozzles. Approx 2 litre capacity.

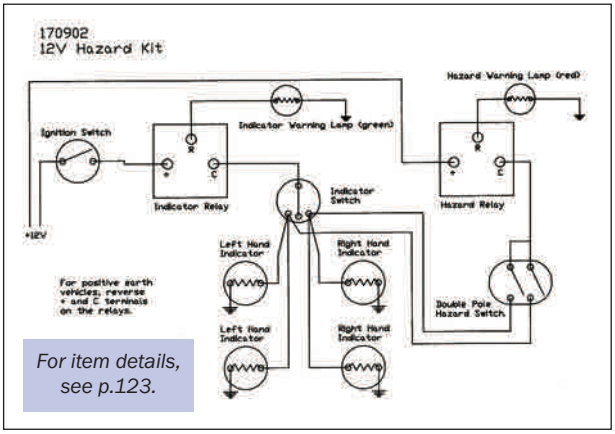
190202 £20.00

Washer Pump & Bottle Kit

Rigid plastic bottle incorporating pump with fixing bracket. Approx 1.2 litre capacity. Approximate dimensions: 120 wide x 90 deep x 170 tall (mm). Supplied with all parts needed including plastic pipe, water jets, push button switch, cable etc. Available in 12V or 24V versions.

12V
190203 £18.38

24V
190205 £18.38



For item details, see p.123.

VEHICLE HORNS

Basic Disc Horn

Diaphragm type. Supplied with bracket. Connection via 2 x 6.3mm blade terminals. 335Hz, 100mm OD, 12V.

200101 £9.14

Twin Fiamm Electric Air Horns

Twin 12V Fiamm electric air horns (405Hz & 500Hz). Supplied as a pair of horns with relay, mounting kit & instructions. Very loud! (110dBA)

200104 £17.06

Compact Disc Horn

70mm OD. Diaphragm type with black painted steel body. Supplied with bracket. Connection via 2 x 6.3mm blade terminals. 103dB(A), 335 or 420Hz, 12V.

Low Tone (335Hz)
200102 £10.29

High Tone (420Hz)
200103 £10.29

Twin Marco Air Horns and Compressor

Supplied with relay, tube and mounting brackets. Horn lengths 150 and 190mm. 700-850Hz, 12V.

200105 £24.92

6V Disc Horn - Black

Black 6V Horn, 92mm diameter. 90mm long mounting bracket, with a single 8mm mounting hole. 430Hz, 105db with 2 x 6.3mm Lucar connections.

200108 £9.98

6V Disc Horn - Chrome

Chrome 6V Horn, 100mm diameter. 90mm long mounting bracket, with a single 8mm mounting hole. 430Hz, 105db with 2 x 6.3mm Lucar connections.

200109 £10.50

DASHBOARD BUZZERS

Two Tone

12V, 2 tone, 72dB(A). More of a warble than a buzz. Single hole fixing. 2 x 6.3mm blade terminals.

140401 £10.32

Back-Up Alarm

Back-up alarm with 105 dB(A) intermittent sound. 12V and 24V versions available. Made from black plastic with metal fixing bracket. 55mm diameter. CE approved.

12V
140404 £14.66

24V
140405 £14.66

Lights On Warning Buzzer

For use on 12V negative earth systems. Provides a two tone alarm if the driver's door is opened when the vehicle lights are on and the ignition is off. 3 x 6.3mm blade terminals. 72dB(A). Supplied with wiring diagram.

140402 £10.05

Loud and Urgent Tone

12V. Suitable for use as an indicator warning buzzer, etc. 2 x 6.3mm blade terminals.

140403 £7.41

FUEL PUMPS

Standard SU fuel pumps for bulk head mounting. Available in 12V or 6V. Dual Polarity (can be fitted to both negative and positive earth vehicles). Capable of lifting fuel a height of 42" from fuel tank. Fitted with points as per original. 1/4BSP fittings.

Part No.	Voltage (V)	Each
AUA25	12	£89.76
AUA26	6	£93.23

Lucas FDB790 Fuel Pump

Lucas FDB790 universal fuel pump, suitable for carburettor fuel systems having 1, 2 or 3 carburettors.

- Extremely quiet and reliable
- Zinc plated steel cased
- 5A current draw
- 0.17 - 0.31 Bar (2.5-4.5 PSI)
- 90-130 litres/hour flow rate
- 172mm long x 54mm diameter
- 1/8" NPT threaded outlets
- Includes filter, mounting bracket, 8mm OD fuel pipe unions, 2 x 100mm lengths of fuel hose, 4 x hose clips
- 2 Year warranty

Lucas FDB790 £50.00

VOLTAGE STABILISERS

Dashboard gauge voltage stabilizer. Output voltage stabilized to 10V +/- 0.4V. A single stabilizer will service two gauges. Fitted with two dual blade connectors. Male 6.35mm dual blade connectors marked 'B' should be connected to switched ignition voltage. Female 6.35mm dual blade connectors marked 'I' is the stabilized 10V output. The case (via the fixing bracket) must be bolted to the chassis/ground. Two units available; one for negative earth, the other for positive earth.

Part No.	Earth	Each
090701	Negative	£10.82
090702	Positive	£10.82

DIODES

Blade Type

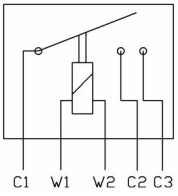
Physically the same as a standard blade fuse, so it can be used in a standard blade fuse holder, for example, part number 100212. 3A @ 400v rating.

082102 £2.52

Universal In-Line

10 amp, 50 volt dc, with male (-) and female (+) 6.3mm blade terminals.

082101 £2.66



For item details, see p.120.

DYNAMOS, PULLEYS, FANS & BRUSHES

Replica Bosch Dynamo

A quality reproduction of Bosch dynamo 0101 302 067. It also replaces 0101 302 068, 075 & 076 units. It has a through shaft, being 15mm diameter at each end. Both have keyways, and keys are supplied. Approximate body diameter 104mm, body length 175mm, overall length, 260mm. Two terminals (M5 studs) D & F. Output, 30A @ 12V. Requires pulley and cooling fan. This unit can be used with Bosch 12V regulator 0190 309 019.

160504 £88.14

Alternator Fan

Suitable for use on Lucas style alternators having a 17mm diameter shaft. 134mm diameter, 17mm bore. Made from plated steel.

160604 £6.67

Replica Lucas C40 Dynamo

A well engineered copy of the Lucas C40 dynamo. Has 15mm diameter shaft, and comes with key, nut and spring washer. Has two terminals. 9.5mm male blade (D+) and 6.3mm male blade (F). Requires pulley and cooling fan.

160501 £62.16

Dynamo Fan

Suitable for use on Lucas style dynamos and 'Dynator' alternators. 120mm diameter, 15mm bore with keyway slot. Made from plated steel.

160603 £4.58

Dynamo Fan

Traditional Lucas style fan. Block pointed.

160609 £4.72

Replica Lucas C40A Dynamo

A well engineered copy of the Lucas C40A dynamo and has a 15mm diameter shaft, and comes with key, nut and spring washer. Has two terminals. 9.5mm male blade (D+) and 6.3mm male blade (F). Requires fan and pulley.

160503 £64.41

88mm Pulley

Plated steel. Total depth 30mm, bore diameter 15mm, with keyway slot. Suitable for 'A' section belt.

160602 £14.69

Many other Pulleys available on our website.

Replica Lucas C40T Dynamo

A well engineered copy of the Lucas C40T dynamo and has a 15mm diameter shaft, and comes with fan, key, nut and spring washer. Has two terminals. 9.5mm male blade (D+) and 6.3mm male blade (F). Requires pulley.

160502 £73.44

72mm Pulley

Plated steel. 17mm bore diameter, to fit A127 Lucas type alternators and other units with a 17mm diameter shaft.

160605 £15.02

DYNAMOS, PULLEYS, FANS & BRUSHES (contd)

Lucas Dynamos (C40 & C42)

Lucas dynamos that have been fully reconditioned by a UK specialist. The Dynamo will have been stripped down, checked over and rebuilt using new parts where necessary and has a one year guarantee. Supplied without fan and pulley (although these are available seperately if required) and polarized for negative earth. 15mm diameter shaft. No exchange dynamo necessary.

160703 C40 £84.00
160705 C40 £210.00

Dynamo Brushes

Replacement brushes for Lucas C39, C40, C42 & C45 dynamos.

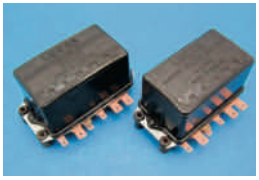
180101 C40 £1.81/pair
5.5 x 19.0 x 18.2mm
180102 C39 £2.11/pair
6.34 x 19.0 x 15.9mm
180103 C42 £3.15/pair
6.1 x 19.0 x 18.8mm
180104 C45 £3.15/pair
6.3 x 25.4 x 21.4mm
180105 C45 £4.72/pair
7.9 x 25.4 x 19.0mm

DYNAMO REGULATORS - ORIGINAL

Original Lucas RB106

Regulators with blade or screw terminals. Fully reconditioned by a UK specialist and rebuilt using new parts where necessary. Tested & set up ready for use and supplied with a one year guarantee.

160702 Blade Terminals £92.50
160701 Screw Terminals £92.50



Original Lucas RB340 Regulators

22A or 30A versions available. Fully reconditioned by a UK specialist and rebuilt using new parts where necessary. Tested & set up ready for use and supplied with a one year guarantee.

160708 22A £60.00
160709 30A £60.00

Bosch Regulators

A range of 12V Bosch voltage regulators. Available for different current ratings. Work by regulating to earth. Not suitable for use with Lucas dynamos. (Manufactured in Germany). These generator regulators are electronic regulators within a historic housing. The electronics make it possible to reliably control voltage and current free of wear. The on board electrical system is thereby protected from over voltage, and the generator is not overloaded. The battery is also kept from overheating. The regulator housing is sealed against dust and pressure waterproof (according to IP69K) and can therefore also be mounted at an exposed location.

160405 11A £113.40
160409 16A £120.50
160406 20A £108.15
160407 25A £114.45
160408 30A £131.25

DYNAMO REGULATORS - REPLICA

A127 Alternator Regulator

To fit 12V Lucas type A127 alternators.

160214 £20.55

NCB144 - 4TR Alternator Regulator

3 x 6.3mm blade terminals. Replaces Lucas NCB144 - 4RT, 37423, 37449, 37538, 37548, 37551, 37585, 37589, 37641, 37643, 37693, 37700.

160209 £30.02

NCB148 - 4TR Alternator Regulator

4 x 6.3mm blade terminals. Replaces Lucas NCB148 - 4TR, 37527, 37550, 37586, 37644, 37694.

160210 £30.02

Dynamo Regulator - Blade Terminals

12V, 22A. Replaces Lucas RB106, NCB101, etc. Blade terminals.

160202 £26.78

Dynamo Regulator - Screw Terminals

12V or 6V, 22A. Replaces Lucas RB106, NCB101, etc. Screw terminals.

12V
160201 £26.78

6V
160213 £99.45

Replica Lucas RF95 Dynamo Regulator

A good replica version (original Lucas items no longer available). Complete with fuses and wiring diagram. 12V or 6V versions.

12V
160211 £105.00

6V
160212 £115.50

Dynamo Regulator

12V, 11A. Replaces Lucas RB108, NCB119, etc.

160206 £23.50

Dynamo Regulator

12V, 11A. Replaces Lucas RB108, NCB118, etc.

160207 £23.50

Replica Lucas RB340, etc

A range of RB340 dynamo regulators with different outputs. The 11A version is mainly used on agricultural equipment, tractors, etc. 160203 replaces Lucas RB340, NCB131, NCB133, etc. 160204 replaces Lucas RB340, NCB130, etc. 160205 replaces Lucas RB340, NCB134, NCB136, etc.

12V, 25A
160203 £22.85

12V, 22A
160204 £22.85

12V, 11A
160205 £22.97

Replica Bosch 12V Regulator

Replaces Bosch part number 0190 309 019. This is a well made replacement part, manufactured in Italy.

160404 £71.60

TOWING PLUGS & SOCKETS

Plugs & Sockets

Metal Plug

12N Plastic Socket

12S Plastic Socket

12N plugs and sockets are the normal type for trailer lights, etc. 12S plugs and sockets are for supplementary applications such as caravan power, etc. 13 pin for more modern vehicles.

13 Pin Plastic Plug

7 Pin to 13 Pin Adapter

Part No.	*Material*	*Plug/Socket*	*Type*	*Each*
230101	Metal	Plug	12N	£3.68
230103	Metal	Socket	12N	£4.06
230102	Plastic	Plug	12N	£2.73
230104	Plastic	Socket	12N	£3.41
230105	Plastic	Plug	12S	£2.57
230106	Plastic	Socket	12S	£3.68
230107	Plastic	Plug	13 PIN	£6.45
230502	Plastic	Adapter	13/7	£6.30
230503	Plastic	Adapter	7/13	£6.30

13 Pin to 7 Pin Adapter

PRE-WIRED SOCKETS / GASKETS / MOUNTING PLATES

Plastic Socket - 12N

7 pin 12N plastic socket on metal mounting plate with 1.5 metres of cable. 12S version also available.

12N version
230201 £8.83

12S version
230202 £9.45

Double Plastic Socket - 12N & 12S

7 pin 12N plastic socket and 7 pin 12S plastic socket mounted on double metal plate, with cable.

230203 £16.66

Single Socket Mounting Plate

Single socket side mounting plate.

230301 £1.90

Double Socket Mounting Plate

Double socket side mounting plate.

230302 £3.09

Socket Gaskets

Rubber gaskets for 7 pin sockets.

230303 £1.00

TOWING RELAYS

Split Charge Relay 20/70A

Durite version of Lucas SRB630 split charge relay. Enables the connection of a second battery and/or fridge, and can be triggered by the ignition supply or the alternator warning lamp. Connections as per Lucas SRB630.
2 x 9.5mm blade (connections 2 & 8),
1 x 6.3mm blade (connection 4),
2 x 2.8mm blades (connections 1 & 3) - triggering coil.

140236 £24.68

Lucas SRB630 Split Charge Relay

Lucas SRB630 60A split charge relay. Enables connection of second battery and/or fridge. Can be triggered from ignition supply or alternator warning light terminal. For wiring diagram, see p.115.

140235 £20.70

Voltage Sensitive Isolator

Voltage sensitive battery isolator relay. 12 Volt 80A. Useful for disconnecting non essential equipment to prevent the main battery from becoming fully discharged. Relay makes at 12.8 V and breaks at 11.0 V. 68 x 54 x 68mm.

140292 £40.42

Voltage Sensitive Relay

Voltage sensitive relay. 12 Volt 140A with red LED indicator. Allows split charging of a second battery, without discharging the primary/start battery. Relay makes at 13.3V and breaks at 12.8V. 2 x M6 stud connections. 68 x 54 x 68mm.

140290 £25.72

24V version also available.
Makes @ 26.6V
Breaks @ 25.6V

140293 £25.72

TRAILER EXTENSION LEAD

6m long lead with a 12N plug on one end and a 12N socket on the other. Useful for elongating trailer board leads, etc.

230501 £24.26

Trailer Lighting Set 174006
£52.34
(see page 108 for details)

Trailer Cable 010301 & 02
from £1.41/m
(see page 9 for details)

WORKSHOP KITS

Insulated Terminal Kit

Contains 270 insulated terminals (18 types) packed into a robust plastic case with dividers.

160102 £29.69

Insulated Terminal Kit with Crimping Tool

Contains 590 insulated terminals (24 types) and a crimping tool. Packed into a robust plastic case with dividers.

160101 £56.37

Japanese Bullet Kit

50 Japanese bullets and sockets, together with 50 insulators for each, together with 20 double bullet sockets and insulators. Supplied in a robust plastic case with dividers.

160123 £17.32

Non-Insulated Terminal Starter Kit

Contains a selection of non-insulated 6.3mm blade and piggyback terminals and non-insulated ring terminals together with suitable insulation sleeves. 260 pieces in total. Packed in a robust plastic case with dividers.

160109 £19.13

Non-Insulated Terminal Professional Kit

Contains a large selection of non-insulated blade, piggyback, ring and 4.7mm bullet terminals, plus insulation sleeves and bullet connectors. 1000 pieces in total. Packed in a robust plastic case with dividers.

160110 £65.32

Bullet Kit (Non-Insulated)

175 bullets (4.7mm dia) suitable for crimping or soldering in four different wire sizes (0.65 - 3.00 mm2), together with 50 single and 25 double bulllet connectors. Supplied in a robust plastic case with dividers.

160106 £40.32

HT Terminal Kits

Contains a selection of straight and 90º HT spark plug and distributor/ coil terminals and covers. 133 items in total. Packed in a robust plastic case with dividers. Contents easily sufficient to make six 4-cylinder vehicle HT lead sets. This kit is available either with or without crimping tool (part no. 150601 - p.125).

Without Tool

160107 £43.66

With Tool

160108 £70.00

Heat-Shrink Terminal Kit

Contains a selection of heat-shrink blade terminals, ring terminals and butt connectors. 65 pieces in total. Packed in a robust plastic case with dividers.

160120 £28.12

Heat-Shrink Kit

74 pieces of heat-shrink sleeving, in 5 different colours (yellow, red, blue, black and white), 7 different diameters (2.4, 3.2, 4.8, 6.4, 9.5, 12.7 & 19mm - prior to shrinking) and two different lengths (70 & 200mm). Supplied in a plastic case with dividers. Heat-shrink has a shrink ratio of 2:1, so will halve its diameter on heating.

160117 £17.62

WORKSHOP KITS (contd)

General Fuse Kit

Contains 200 popular automotive fuses. A selection of blade, continental and glass fuses packed into a robust plastic case with dividers.

160103 £28.92

Blade Fuse Kit

Contains 100 popular sized blade fuses packed into a robust plastic case with dividers.

160112 £17.06

Older Vehicle Fuse Kit

Contains 180 assorted continental and glass fuses packed into a robust case with dividers.

160111 £19.31

Blanking Grommet Kit

Contains a selection of 180 blanking grommets (for panel hole sizes from 6.4mm to 22.5mm) packed into a robust plastic case with dividers.

160105 £23.06

Wiring Grommet Kit

Contains a selection of 180 wiring grommets (for panel hole sizes from 6.4mm to 25.2mm) packed into a robust plastic case with dividers.

160104 £23.06

Superseal Connector Kit

Contains a selection of Superseal multiple connector housings from 1 to 6 ways. Supplied with all required terminals and seals and some spares.

160132 £38.00

Multiple Connector Kit

Contains a selection of 70 pairs of 6.3mm blade multiple connector housings from 1 to 11 ways. Supplied with 400 terminals. Supplied in a robust plastic case with dividers.

160115 £65.55

Universal 'Mate-n-Lok' Kit

Contains a selection of 31 pairs of 2mm pin universal mate-n-lok connector housings, from 2 to 15 ways. Supplied with 400 terminals. Packed into a robust plastic case with dividers.

160121 £80.48

Cable Bundle Kits

A range of cable bundle kits for both PVC and thin wall cable are also available. See page 9 for details.

Brass P-Clip Kit

Contains a selection of 80 brass P-Clips, ranging in size from 5mm to 22mm. Packed in a robust plastic case with dividers.

160113 £41.35

Nylon P-Clip Kit

Contains a selection of 240 nylon P-clips ranging in size from 3.2mm to 19.4mm. Packed into a robust plastic case with dividers.

160114 £18.09

Steel P-Clip Kit

Contains a selection of 95 rubber-lined steel p-clips ranging in size from 6.4mm to 25.4mm. Packed into a robust plastic case with dividers.

160116 £39.15

WORKSHOP KITS (contd)

160130 £29.90

Tinned Copper Terminal Kit - Small

A kit of 96 tinned copper ring terminals (with holes ranging from 5-10mm) suitable for crimping or soldering on to cables from 6 to 25mm².

160131 £41.95

Tinned Copper Terminal Kit - Large

A kit of 80 tinned copper ring terminals (with holes ranging from 6-12mm) suitable for crimping or soldering on to cables from 25 to 50mm².

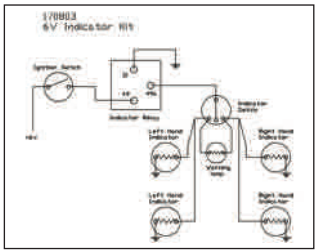
INDICATOR / HAZARD SWITCH KITS

Indicator Kits without Lamps

These kits include all the parts you need (except the lamps) to fit indicators to any vehicle. The kits include 20m twin core cable, flasher relay, dashboard switch, warning light and bracket, crimp terminals and wiring diagram. Available in 6V or 12V. Both kits require the addition of 4 x 21W indicator lamps.

6V version
170803 £27.42

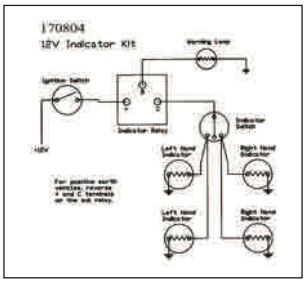
12V version
170804 £27.42

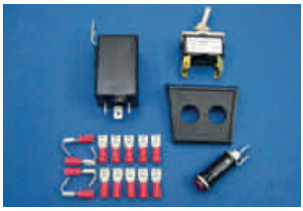


LED Indicator Kit (12V only)

A complete kit of parts to enable you to fit indicators to any 12V vehicle (+ve or -ve earth). (When using on +ve earth vehicles, the lamps must have their own return back to the battery and not use the chassis as the return). Includes 4 x Rubbolite lamps fitted with LED bulbs, 20m twin core cable, flasher relay, dashboard switch, warning light and bracket, crimp terminals and wiring diagram - see p.104. The power taken for this kit is only approximately 5W (0.3A), so it is ideal for cars with limited or no charging systems, and the LED bulbs are extremely long-lasting.

170805 £98.42

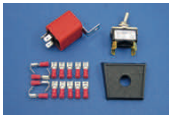




Hazard Switch Kit

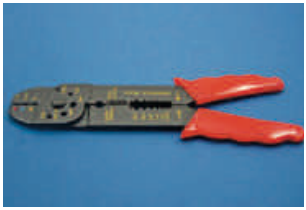
A kit of parts to enable you to convert existing 12V indicators to hazards at the flick of a switch. Kit includes flasher relay, warning lamp (standard bulb kit only), switch, bracket, crimp terminals and wiring diagram. Only available in 12V. For use with either standard or LED-type indicators.

Standard bulb version
170902 £18.69



LED bulb version
170903 £26.10

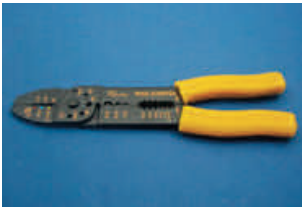
CRIMPING TOOLS - INSULATED TERMINALS



Economy

Economy tool for crimping the full range of insulated terminals. Also features a wire stripper and cable cutter.

150201 £3.64



Standard

Tool for crimping the full range of insulated terminals and many non-insulated terminals. Also features a wire stripper, cable cutter and cushion handles.

150202 £5.93

Heavy Duty

Heavy duty ratchet tool for crimping the full range of insulated terminals. This tool ensures the correct pressure is applied whilst crimping the terminal.

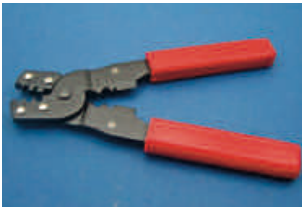
150203 £29.58

CRIMPING TOOLS - NON-INSULATED TERMINALS

Economy

Economy tool for crimping many non-insulated terminals. Also features wire stripper and cable cutter.

150204 £4.12



Standard

Robust and heavy duty tool for crimping many non-insulated terminals. Also features wire stripper and cable cutter.

150205 £12.61

Heavy Duty

Ratchet tool for crimping many non-insulated terminals. This tool ensures the correct pressure is applied whilst crimping the terminal.

150206 £33.66

OTHER TOOLS - CRIMPERS / STRIPPERS / ETC

Econoseal & Superseal

Heavy duty rachet type crimping tool for crimping Econoseal and Superseal (both 1.5 & 2.8mm blade) terminals. This tool ensures that the correct pressure is applied whilst crimping the terminals.

150211 £29.92

Battery Terminals

Rachet crimping tool for 4 sizes (10, 16, 25 & 40 sq mm) of open end and closed end battery cable terminals. The crimp must be complete before the tool ratchet can be released. A good quality compact tool.

150209 £57.62

Bullet Terminals

Bullet crimping tool for non-insulated bullets. (031001, 031002, 031003 & 031004).

150207 £26.90

Junior Power Timer

Heavy duty rachet type crimping tool for crimping Junior Power Timer terminals on cable up to 2mm². This tool ensures that the correct pressure is applied whilst crimping the terminals.

150212 £41.64

Bullet Inserting Tool

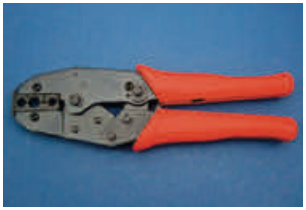
For inserting soldered or crimped bullets into connectors. For use on 031101, 031102, 031103 & 031104.

150301 £18.04

Battery Terminal Press Tool

Press tool for crimping open end and closed end battery cable terminals. Can crimp terminals up to 120mm². Squeeze in a vice or hit with a hammer!

150213 £17.59



HT Terminals

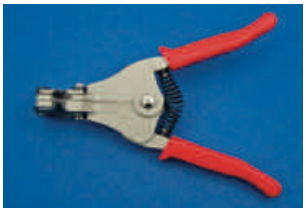
Heavy duty ratchet tool for crimping HT terminals to HT cable. Also available as part of the HT Terminal Kit 160108.

150601 £32.32

Cable Stripper - 0.5mm to 6.0mm² Cable

Automatic cable strippers and cutters for cables between 0.5 and 6.0mm². This tool is also suitable for crimping insulated and non-insulated terminals.

150401 £14.04



Cable Stripper - 0.5mm to 3.0mm² Cable

Automatic cable strippers for cables between 0.5 and 3.0mm².

150402 £15.55

OTHER TOOLS (contd)

Cable Cutter

"Pro's Kit" diagonal cutting pliers or 'snips'. A good quality cable cutter. These are the tools we use every day at AES Ltd to prepare customer orders. Capacity: copper wire 1.6mm diameter, Length: 125mm, Jaw length: 13mm. 45 degree blade angle, PVC handle covers, medium carbon steel construction.

150701 £9.28

Mate-N-Lok Terminal Extractor

Tool to extract the terminals from Universal Mate 'n' Lok plastic housings.

150801 £28.66

Expandable Sleeve Applicator

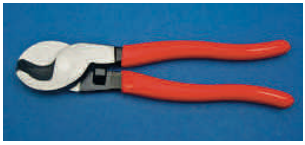
This tool is suitable for applying neoprene expandable sleeves, by stretching them during application.

150102 £40.07

Cable Cutter

These lightweight cutters are perfect for creating a clean cut with cable without splaying the core conductors. This helps with attaching terminals and creating a professional finish. For cutting single copper cables up to 120mm² or twin core up to 50mm². Tool length 420mm.

150502 £56.70



Heavy Duty Cable Cutter

For cutting copper cables up to 70mm². Tool length 235mm.

150501 £19.07

SOLDERING IRONS

240V

Antex XS25. 25W, 240V soldering iron. British made to EN-60335-2-45. Supplied with 1.5m of cable and 3mm diameter replaceable tip (see 220303). Supplied with small metal stand.

220301 £28.18

12V

Antex MLXS25. 25W, 12V soldering iron. British made to EN-60335-2-45. Supplied with 4m of cable with crocodile clips to power from a car battery. 3mm diameter replaceable tip (220303).

220302 £30.40

Butane Gas (Gascat60)

Antex GASCAT60 gas (butane) soldering iron. Supplied with 2.4mm diameter tip and safety cap with integral lighting flint. Spare tips available (see 220402 and 220403).

220401 £36.00

Gascat60 Kit

Antex GASCAT60 gas soldering iron kit. Contains GASCAT60 iron (220401) plus hot air tip, flame tip, hot knife tip and sponge in plastic case.

220404 £59.06

Soldering Iron with LED

A good quality economically priced 240V, 40w soldering iron. Has high quality ceramic heating element and built-in LED light designed to aid working in low light levels and awkward, tight areas. Supplied with a 1m lead & 1mm tip.

- Robust 40W Soldering Iron
- High quality ceramic heating element
- Built-in white LED worklight

220305 £9.82

12V Budget Soldering Iron

A 12v 30w economically priced soldering iron supplied with an extra long 3m lead.

- Supplied with battery clips
- Long 3m lead
- Ideal for outside work, automotive electrics.

220306 £10.49

Spare Tips for 220305 & 220306

0.5mm Pointed Soldering Tip

220307 £1.89

1mm Pointed Soldering Tip

220308 £1.89

2mm Chisel Soldering Tip

220309 £1.89

3mm Chisel Soldering Tip

220310 £1.89

SOLDERING EQUIPMENT & ACCESSORIES

Replacement Tip

3mm diameter replacement tip for XS25 soldering iron (220301) and MLXS25 soldering iron (220302).

220303 £4.99

Spare Tips

Spare tips for GASCAT60 (220401). Available in two diameters.

2.4mm diameter

220402 £9.53

4.8mm diameter

220403 £9.53

Bench Stand

Soldering iron bench stand Antex ST4.

220304 £7.21

Solder Sucker

Aluminium pump with teflon tip.

220501 £7.69

Solder

60/40 fluxed core solder (60% tin, 40% lead). 18 swg (1.2mm diameter). 500g roll.

220101 £23.67

Solder - 5m

5m length of 60/40 fluxed core solder (60% tin, 40% lead). 18 swg (1.2mm diameter). Approximately 40g.

220102 £2.56

Flux

"Fluxite" soldering paste. Contains zinc and ammonium chlorides in petroleum grease. 100g tin.

220201 £13.70

TESTING

12V Vehicle Charging Tester

12V vehicle charging tester. This unit indicates, using a series of LEDs, the state of charge of the battery, and also whether the charging system is working correctly. Hand held, but will also magnetically attach to any ferrous surface. Supplied with probe and alligator clip connections.

240101 £29.11

Chrome Plated Brass Circuit Tester

For voltage testing on 6V, 12V and 24V systems. Comes with removable screw on probe protecting cap.

240103 £6.93

Induction Ammeter

Induction ammeter. 30-0-30 Amps. Indicates approximate current and direction when clipped to cables. 57mm diameter.

240104 £22.68

CHARGING

Accumate 6V/12V Battery Conditioner

Designed to automatically charge and monitor batteries with no danger of over-charging, regardless of time. Suitable for all 6V and 12V lead acid batteries from 4Ah to 75Ah, making it perfect for owners of older vehicles which are not used on a daily basis.

Operation is completely automatic. The unit uses 1.2A constant current charge as the main stage while monitoring battery voltage. When this reaches a pre-set cut off point, it then switches to an intermediate constant voltage ‘float charge’. Only when it has detected that the battery is properly charged will it switch to the final stage for correct long-term battery maintenance. If at any time it detects that the battery has discharged, it will automatically revert to the constant current stage.

210107 £46.49

Accumate Vehicle Socket Adapter (SAE)

To allow connection of the Accumate battery conditioner via a vehicle's auxilliary socket. Suitable for both cigar lighter sockets and DIN sockets.

210105 £13.65

REPLACEMENT HIGH TORQUE STARTER MOTORS

High torque starter motors are modern gear driven units adapted to fit older vehicle applications. The main advantages over the original starter are weight and space saving, improved performance and a reduced strain on the vehicle's battery.

- Approximately twice as powerful as the original; consequently they run faster and start the engine more easily.
- They draw about half the current of the original starter, putting less strain on the battery and electrical system.
- Weight can be reduced by up to 50% from conventional starters.
- Usually smaller and easier to fit than the standard starter motors.
- Increased reliability due to use of modern materials and components.
- Manufactured in the UK by WOSP

We offer a wide range of starters, all of which are direct bolt-on replacements requiring no modification to wiring or fitting. All units are supplied with a wiring diagram and fitting instructions, and come with a 3 year warranty. Free delivery (UK mainland only).

REPLACEMENT ALTERNATORS

This range of units are alternators that have been cleverly engineered to look like older style dynamos. The advantage of this is that your vehicle will retain its original look, whilst having a more powerful and reliable charging system. Weight is also dramatically reduced. The range of these lightweight dynamo replacements includes C40, C42 and C45 Lucas types, along with replacements for the classic VW's, Porsches and Mercedes. They all come with a 3 year guarantee and are delivered to you free of charge (UK mainland only).

- Looks identical to an original Bosch or Lucas dynamo and is a direct replacement.
- Has up to 80% more power across all rev. ranges.
- Is lightweight - approximately 60% weight of original unit.
- Has increased reliability due to use of modern materials and components.
- Manufactured in the UK by WOSP

Both starter motors and alternators are available for many makes and models of older vehicles.

To check availability, please call us on 01584 819552, or visit our web site: www.autoelectricsupplies.co.uk.

NOTES

DELIVERY

UK MAINLAND

STANDARD:

Up to £20 (exc. VAT)	£3.50 + VAT	2 - 3 working days
£20.01 to £100 (exc. VAT)	£4.50 + VAT	2 - 3 working days
Over £100 (exc. VAT)	FREE	2 - 3 working days

Goods are despatched as soon as possible subject to stock levels.
Most packages are sent by post, but ***heavier parcels*** *will be despatched by Courier and* ***will require a signature on delivery.*** *Most standard deliveries arrive within 2-3 days.*

COURIER:

Courier - up to 30kg	£5.50 + VAT	NOT next working day

Goods are despatched as soon as possible subject to stock levels.
Packages are sent by Courier, and ***will require a signature on delivery****. You will be emailed a tracking number upon despatch (provided you have supplied us with your email address).*

NEXT WORKING DAY: ***(orders must be received before 1pm)***

Up to 30kg	£7.00 + VAT	Next WORKING day

Goods are despatched on the same day as the order is placed, subject to stock levels. Packages are sent either by Special Delivery or by Courier, and ***will require a signature on delivery****. Although the vast majority of packages will arrive the following working day, please note that this service is NOT guaranteed.* ***NOTE:*** *Any 'Next Working Day' orders received on a Friday will be delivered the next working day (ie. there are no deliveries on Saturdays, Sundays or Bank Holidays).*

OVERSEAS, SCOTTISH ISLES, CHANNEL ISLANDS & N. IRELAND

STANDARD:

Charged at £1.50 + cost, subject to a minimum charge of £3.75 + VAT.

Goods are despatched as soon as possible subject to stock levels. The chosen method of despatch is dependent on the weight and/or value of the goods ordered, and will be the most cost effective available. ***NOTE:*** *A next day service is not available to Scottish Islands. Should you require a Courier service or confirmation of delivery costs, please contact us on 01584 819552, or info@autoelectricsupplies.co.uk*

TERMS & CONDITIONS

Choice of Items
It is the customer's responsibility to ensure that the selected goods are suitable for their intended application. Auto Electric Supplies Ltd (AES Ltd) can take no responsibility or liability for misuse of the goods supplied.

Description of Goods
The design and/or materials of goods supplied to AES Ltd may change due to circumstances beyond their control, and AES Ltd reserves the right therefore to change without notice the design and/or materials used in the products supplied by it, provided that the specification of such goods supplied is not compromised. AES Ltd are suppliers only of the goods in this catalogue and are not manufacturers of any of the products supplied.

Pricing
All catalogue prices shown are in pounds sterling and are exclusive of VAT which will be charged at the standard rate on all items, and delivery costs. Due to circumstances beyond our control, prices quoted may vary from those shown in the catalogue from time to time. Up to date pricing information can be found on our website.

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All goods supplied by AES Ltd shall remain the property of AES Ltd until such time as payment for the order has been received in full.

Company Details
Company Registration Number: 5140360 registered in England & Wales
VAT Registration Number: GB771307831
Registered Office: Granville House, 11 Cross Street, Tenbury Wells, WR15 8EF, UK

Returns Policy
If the goods supplied are no longer required, return them to us in unused condition within 10 working days of their supply date. We will either offer you a full refund, or credit the returned items against the cost of exchange goods. The cost of returning the original goods will be borne by you. A delivery charge will be made for any exchange goods.

Faulty goods should be returned to us for testing. If we have supplied faulty goods we will either offer replacement items free of charge, or a full refund. The cost of returning the goods to us will be refunded.

Please note that cut lengths of cable, sleeving, etc., cannot be returned.

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