



JANUARY 2026

BACK ALARMS
BATTERY ACCESSORIES
BEACONS
CABLE
CABLE ACCESSORIES
CCTV
CONNECTORS
ELECTRIC BRAKES
ENCLOSURES
FORWARD LIGHTING
FUSES & BREAKERS
HARNESS COMPONENTS
HEATSHRINK
LED GLOBES
LED INTERIOR LIGHTING
LED POWER SUPPLIES
LED TAPE
LED TRUCK & TRAILER LIGHTING
LED WORK LIGHTING
MIRRORS
RELAYS
TERMINALS
TOOLS
SOLENOIDS
SOLDER
SWITCHES
WIRING SUPPORTS

www.vanline.com.au
sales@vanline.com.au
Ph: 02 9603 9200

AUTOMOTIVE CABLE-SINGLE CORE

General purpose cables for automotive applications of low voltage/high amperage. See specifications section for more. Roll sizes marked with a red tick are available ex-stock and those with a black tick are available as special order.

A circular logo consisting of a black outer ring and a white inner circle. Inside the white circle are five orange rings, each with a small black dot in the center, arranged in a circular pattern.

SINGLE CORE CABLE



- CA2** - 2mm auto / 6A / 0.64mm² / 20AWG
- CA3** - 3mm auto / 10A / 1.13mm² / 16AWG
- CA4** - 4mm auto / 15A / 1.84mm² / 14AWG
- CA5** - 5mm auto / 25A / 3.25mm² / 12AWG
- CA6** - 6mm auto / 50A / 4.65mm² / 10AWG

Colours	30M	100M	500M
	✓	✓	✓
	✓	✓	✓
	✓	✓	✓
	✓	✓	✓
	✓	✓	✓

A circular logo with a black border. Inside the circle, there is a pattern of orange circles arranged in a grid-like fashion, creating a stylized 'bullseye' or 'target' effect.

SINGLE CORE TRACE CABLE

CA3 - 3mm auto / 10A / 1.13mm² / 16AWG

CA4 - 4mm auto / 15A / 1.84mm² / 14AWG

Trace colour



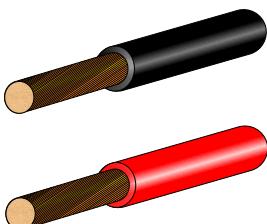
Supplied on 100m rolls

Trace colour

Supplied on 100m rolls

BATTERY & STARTER (B&S) CABLE

Current ratings are for intermittent duty (5sec). See specifications section for more.
Roll sizes ticked red are ex stock - black ticked sizes are special order

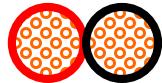


- C8B** - 8B&S / 90A / 7mm² / 8AWG. 5.5mm diameter
- C6B** - 6B&S / 140A / 15mm² / 6AWG. 7.3mm diameter
- C4B** - 4B&S / 170A / 20mm² / 4AWG. 8.8mm diameter
- C3B** - 3B&S / 200A / 23mm² / 3AWG. 10.2mm diameter
- C2B** - 2B&S / 240A / 33mm² / 2AWG. 11.2mm diameter
- C0B** - 0B&S / 300A / 50mm² / 0AWG. 13.0mm diameter
- C00B** - 00B&S / 360A / 65mm² / 2/0AWG. 16.6mm diameter
- C000B** - 000B&S / 420A / 83mm² / 3/0AWG. 17.6mm diameter

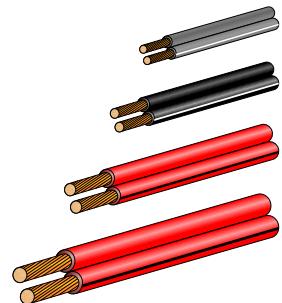
Colours	10M	30M	100M
			
			
			
			
			
			
			
			
			

AUTOMOTIVE CABLE

General purpose cables for automotive applications of low voltage/high amperage. See specifications section for more. Roll sizes marked with a red tick are available ex-stock and those with a black tick are available as special order. Information is given as: Application / Amps / Cross sectional area (CSA) / AWG and dimension



'FIGURE-8' CABLE



- 19514** - Speaker / 4A / 0.44mm² / 24AWG. 4.8x2.4mm
- F2875** - Speaker / 7.5A / 0.75mm² / 20AWG. 5.1x2.6mm
- C32** - 3mm auto / 10A / 1.13mm² / 16AWG. 5.3x2.6mm
- C42** - 4mm auto / 15A / 1.84mm² / 14AWG. 6.0x3.1mm

Colours	30M	100M	500M
Grey/Black	✓		✓
Black/White	✓	✓	✓
Red/Black	✓	✓	✓
Red/Black	✓	✓	✓



SINGLE SHEATHED 'GAS' CABLE

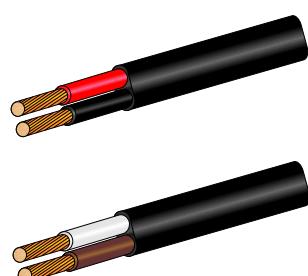


- CA2G** - 2mm auto / 6A / 0.64mm² / 22AWG. 3.2mm diameter
- CA3G** - 3mm auto / 10A / 1.13mm² / 16AWG. 3.6mm diameter
- CA4G** - 4mm auto / 15A / 1.84mm² / 14AWG. 4.1mm diameter
- CA5G** - 5mm auto / 25A / 3.25mm² / 12AWG. 5.1mm diameter
- CA6G** - 6mm auto / 50A / 4.65mm² / 10AWG. 5.8mm diameter

Colours	30M	100M	500M
Red	✓		✓
Red	✓	✓	✓
Red	✓	✓	✓
Red	✓	✓	✓
Red	✓	✓	✓



TWIN SHEATHED CABLE



- CA22** - 2mm auto / 6A / 0.64mm² / 22AWG. 5.6x3.2mm
- CA32** - 3mm auto / 10A / 1.13mm² / 16AWG. 6.4x3.6mm
- CA42** - 4mm auto / 15A / 1.84mm² / 14AWG. 7.2x4.1mm
- CA52** - 5mm auto / 25A / 3.25mm² / 12AWG. 9.0x5.1mm
- CA62** - 6mm auto / 50A / 4.65mm² / 10AWG. 9.8x5.6mm
- C8TW** - 8B&S / 90A / 7mm² / 8AWG. 14x10mm
- C6TW** - 6B&S / 140A / 15mm² / 6AWG. 17x12mm

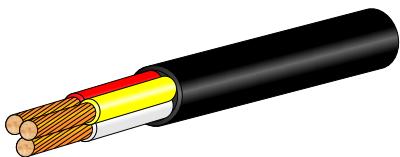
Colours	30M	100M	500M
Red/Black	✓		✓
Red/Black/Brown	✓	✓	✓
Red/Black/Brown	✓	✓	✓
Red/Black	✓	✓	✓
Red/Black	✓	✓	✓
Red/Black	✓	✓	✓
Red/Black	✓	✓	✓

AUTOMOTIVE TRAILER CABLE

General purpose cables for automotive applications of low voltage/high amperage. See specifications section for more. Roll sizes marked with a red tick are available ex-stock and those with a black tick are available as special order.



3 CORE TRAILER CABLE



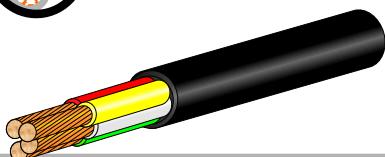
CA33 - 3mm auto / 10A / 1.13mm² / 16AWG. 6.2mm diameter
CA43 - 4mm auto / 15A / 1.84mm² / 14AWG. 8.5mm diameter
CA63 - 6mm auto / 50A / 4.65mm² / 10AWG. 15.1mm diameter

30M	100M	500M
✓	✓	✓
✓	✓	✓
✓		

Core colours



4 CORE TRAILER CABLE



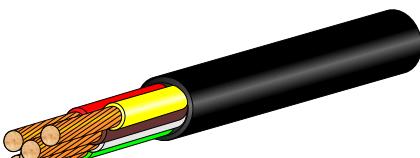
CA34 - 3mm auto / 10A / 1.13mm² / 16AWG. 7.0mm diameter

30M	100M	500M
✓	✓	✓

Core colours



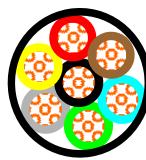
5 CORE TRAILER CABLE



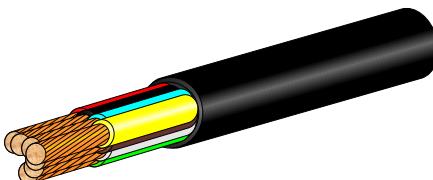
CA25 - 2.5mm auto / 6A / 0.64mm² / 20AWG. 6.9mm diameter
CA35 - 3mm auto / 10A / 0.92mm² / 16AWG. 7.7mm diameter
CA45 - 4mm auto / 15A / 1.84mm² / 14AWG. 9.3mm diameter
CA65 - 6mm auto / 50A / 4.65mm² / 10AWG. 13.6mm diameter

30M	100M	500M
✓	✓	✓
✓	✓	✓
✓	✓	✓
✓	✓	✓
✓	✓	✓

Core colours



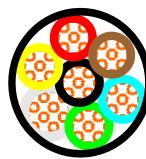
7 CORE TRAILER CABLE



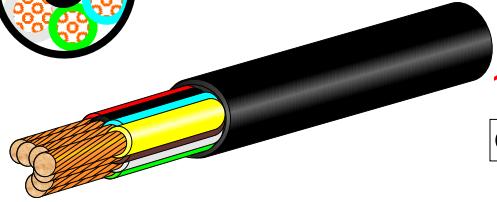
CA27 - 2.5mm auto / 6A / 0.64mm² / 20AWG. 7.6mm diameter
CA37 - 3mm auto / 10A / 0.92mm² / 16AWG. 8.5mm diameter
CA47 - 4mm auto / 15A / 1.84mm² / 14AWG. 10.5mm diameter
CA67 - 6mm auto / 50A / 4.65mm² / 10AWG. 17.0mm diameter

30M	100M	500M
✓	✓	✓
✓	✓	✓
✓	✓	✓
✓	✓	✓
✓	✓	✓

Core colours



7 CORE ROAD-TRAIN (COMPOSITE) TRAILER CABLE



19602 - 6x5mm auto (25A), 1x6mm auto (50A) / 15.6mm diameter

100M	500M
✓	✓

Core colours

SUZI-COILS

Electrical suzi-coils manufactured with V75 inner sheath and formed with a nylon outer sheath. Coil diameters approximate standard air suzi-coil diameters to reduce abrasion. Smaller coil diameters can greatly accelerate rubbing through of air and electrical coils posing a braking and/or fire hazard. When selecting a suzi-coil the current rating is determined by the current capacity of the earth/ground return conductor/core alone. See our molded suzi coils rated for extreme duty.

Heavy duty - 4mm auto 7 core short-tail



● Complies with AS2218

● Cable O.D: 8.8mm ● Coil O.D. 127mm ● Working length: 3.5M ● Total cable length: 5M ● 100VDC or 32VAC@15A max.



CS47

Unplugged short-tail coil.



CS47P

Plugged short-tail coil with 7pin D.I.N. metal truck plugs.

Heavy duty - 4mm auto 7 core long-tail



● Complies with AS2218

● Cable O.D: 8.8mm ● Coil O.D. 127mm ● Working length: 4.3M ● Total cable length: 6M ● 100VDC or 32VAC@15A max.



CL47

Unplugged long-tail coil.



CL47P

Plugged long-tail coil with 7pin D.I.N. metal truck plugs



CL47HD

Plugged long-tail coil with 7pin S.A.E. metal truck plugs



CL47X

Plugged long-tail coil with 7pin S.A.E. to 7pin D.I.N. plug.

MOLDED SUZI-COILS

Hytrel sheathed electrical suzi-coils are extensively proven and high performance and supplied, typically, to truck O.E.Ms. Constructed with black Hytrel and Arnitel engineering rubbers ensures total waterproofing of coils when used with molded plugs. They have superior resistance to abrasion, ozone, grease, oils, chemicals and a wide operating temperature range. Other types available upon request. Part numbers in red are stocked items - part numbers in black are special buy in.

Extreme duty - unplugged short-tail



- Hytrel over-sheath
- Arnitel inner-sheath
- High abrasion resistance
- Grease and oil resistant
- Various working lengths

19612

Unplugged short-tail 25A coil.
7x25A (max) cores.
3M working length

19610

Unplugged short-tail 25A coil.
7x25A (max) cores.
8M working length.

Extreme duty - Plugged short-tail



- Molded pre-wired plugs
- One piece molded construction
- Water, dust, oil and greaseproof
- High abrasion resistance

19603

Plugged short-tail 60A coil
with 7pin D.I.N plugs.
2x60A, 3x25A,
2x15A (max) cores.
4.5M working length.

19611

Plugged short-tail 25A coil
with 7pin D.I.N plugs.
7x25A (max) cores.
3M working length.

19617

Plugged short-tail 60A coil
with 7pin D.I.N plugs.
1x60A, 1x40A, 3x25A
2x15A (max) cores.
4.5M working length.

Extreme duty - plugged long-tail



- Molded pre-wired plugs
- One piece molded construction
- Water, dust, oil and greaseproof
- High abrasion resistance

19624

Plugged long-tail 25A coil
with 7pin S.A.E plugs.
7x25A max.
3M working length.

19616

Plugged long-tail 60A coil
with 7pin D.I.N plugs.
1x60A, 1x40A, 3x25A
2x15A max.
4M working length.

SPECIALITY COILS

Our curly-cords feature excellent memory and keep their shape longer. They are quality made in the EU to OEM specifications.

ABS/EBS suzi-coils are made from the same electrical coils used in our extreme duty range with EU made plugs. Many other types available upon request.

Medium duty - Curly-cords



- High shape memory
- Thick polyurethane over-sheath for durability

19970

Unplugged curly-cord.
2x10A (max) cores.
6M working length.
25mm coil diameter.
Ideal as beacon extension cable.

19972

Unplugged curly-cord.
7x5A (max) cores.
2M working length.
20mm coil diameter.
Ideal for hand controllers.

We have a huge range of coils available.
Call us with your requirements.

Heavy duty - plugged EBS short-tail

- Pre-wired ABS plugs
- Hytrel over-sheath for abrasion resistance
- 40A rated



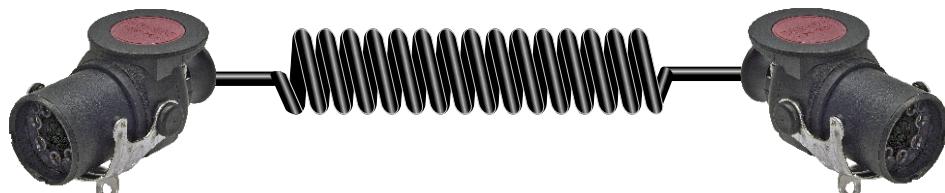
19605

Plugged long-tail EBS coil
with multi-fit 12 & 24V ABS plugs.
2x40A, 5x15A (max) cores.
55mm O.D. coil diameter.
5.2M working length.



19606

Plugged short-tail EBS coil
with multi-fit 12 & 24V ABS plugs.
2x40A, 5x15A (max) cores.
55mm O.D. coil diameter.
4.5M working length.

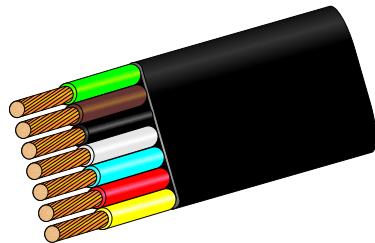


SPECIALTY CABLE

General purpose cables for automotive applications of low voltage/high amperage. See specifications section for more. Roll sizes marked with a red tick are available ex-stock and those with a black tick are available as special order.



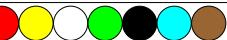
FLAT CABLE



CA27F - 2mm auto / 8A / 0.64mm² / 20 x 4.53mm

10M 100M



Core colours 

CABLE SPECIFICATIONS

Single, sheathed, figure-8 cable:

Conductor: plain annealed copper.
Sheath: PVC V75
Voltage: 100VDC or 32VAC max.
Standards: meets AS2218

Electric 'suzi-coil' cable:

Conductor: plain annealed copper.
Outer sheath: Nylon
Sheath: PVC V75
Voltage: 100VDC or 32VAC max.
Standards: meets AS2218

Marine cable:

Conductor: tinned annealed copper.
Sheath: PVC V75
Voltage: 100VDC or 32VAC max.
Standards: AS1125 (conductor) AS3147 (PVC)

Coaxial cable:

Conductor: plain annealed copper.
Braid: RG58C/U - tinned annealed copper
Braid: RG59B/U - plain annealed copper
Sheath: PVC V75
Dielectric: Solid polyethylene
Standards: AS1125 (conductor) AS3147 (PVC)

Battery (B&S) cable:

Conductor: plain annealed copper.
Sheath: PVC V75
Voltage: 100VDC or 32VAC max.
Standards: AS3147

Welding cable:

Conductor: plain annealed copper.
Sheath: Nitrile-Butadiene rubber
Inner sheath: PVC Copolymer
Conductor temp. 90°C max.
Voltage: 100VDC or 32VAC max.
Standards: International & AS3147

Current ratings:

Heat is a bi-product of current. The following factors all need to be considered when choosing cable for any application:

- Conductor cross-section (current capacity)
- Length of the cable used (voltage drop)
- Material of the conductor (conductivity)
- Adjacent cores (heat buildup)
- Duty cycle. The amount of time energised (%) versus the time de-energised (heat dissipation)

Other variables such as terminations (point resistance) and the age of the cable (oxidisation) should also be taken into consideration.

Specifications and examples below are for unterminated, new cable alone.

Voltage drop & test load comparison

Auto cable size	Voltage drop /amp/Mtr (V)	Test load (A)	Residual voltage at load (12v supply)	
			@15M(V)	@30M(V)
2mm	0.02930	2	11.3	10.1
2.5mm	0.02290	4	10.8	9.26
3mm	0.01640	6	10.7	9.4
4mm	0.01015	15	10.0	8.0
5mm	0.00560	20	10.3	8.6
6mm	0.00393	25	10.7	9.4
8B&S	0.00241	45	10.4	8.8
6B&S	0.00121	80	10.6	9.1
3B&S	0.00067	100	10.9	9.8
2B&S	0.00050	120	11.0	10.1
0B&S	0.00035	150	11.1	10.3
00B&S	0.00025	180	11.3	10.5

Continuous duty ratings - single & multi-core cable

Auto cable size	Continuous duty rating single core (A)	Continuous duty rating multi-core (A)
2mm	3	2
2.5mm	8	5
3mm	10	6
4mm	15	10
5mm	25	15
6mm	40	18

Continuous duty ratings - Battery (B&S) cable

B&S cable size	(A)
8B&S	45
6B&S	70
4B&S	85
3B&S	100
2B&S	120
0B&S	150

Note: These figures are nominal only. In certain applications, factors derating the cable further will apply.
Battery cable continuous ratings are nominal for 5 minute cycles.

CABLING BUSHES

A range of bushing products that protect cables that pass through holes cut into panels. They can be used for many applications such as protection for electrical harnesses, air, water and hydraulic hoses, cables and control rods. The naturally smooth and hard wearing features of Nylon make it ideal as a substitute for rubber grommets. Hole plugs are equally at home under the bonnet or on the dash of a vehicle. They are a quick, inexpensive and durable solution to fill or cover unwanted holes and they blend into the application with an O.E.M. finish



20508 - 8mm hole
205101 - 10mm hole
205131 - 13mm hole
205161 - 16mm hole
205191 - 19mm hole
205221 - 22mm hole
205261 - 26mm hole
205301 - 30mm hole
205381 - 38mm hole
205391 - 45mm hole

Snap bush - 100 packs

- Quicker and easier to install
- Cheaper than rubber grommets
- Won't perish like rubber
- For panels 0.8mm to 3.2mm thick
- Black Nylon66



20540 - 8mm hole
205411 - 10mm hole
205421 - 13mm hole
205431 - 16mm hole
205441 - 19mm hole
205471 - 22mm hole
205451 - 25mm hole
205461 - 30mm hole
205458 - 38mm hole
205501 - 45mm hole

Hole plug - 100 packs

- Stipple finish blends with vehicle interior
- Quicker and easier to install
- Cheaper than rubber grommets
- Won't perish like rubber
- For panels 0.8mm to 3.2mm thick
- Black Nylon66



20500 Assortment box

348 Hole plugs & Snap bushes in a hinged, see-through case with 3 spare compartments.
No-waste refills available.

Snap bush refill packs

Refill #	Hole size	Pcs
20508	8mm hole	100
20510	10mm hole	50
20513	13mm hole	25
20516	16mm hole	20
20519	19mm hole	10
20522	22mm hole	10
20526	26mm hole	5
20530	30mm hole	5
20538	38mm hole	5

Hole plug refill packs

Refill #	Hole size	Pcs
20541	10mm hole	50
20542	13mm hole	25
20543	16mm hole	20
20544	19mm hole	10
20545	25mm hole	8
20547	22mm hole	10
20546	30mm hole	5
20548	38mm hole	5
20549	52mm hole	2

HEAT SHRINKABLE PRODUCTS

A range of heat shrinkable products for covering, jointing, sealing cables and finishing connectors.

Heatshrink tube is available in standard 2:1 shrink ratio, non-adhesive lined, 3:1 adhesive lined (hot-melt glue) in two wall thicknesses and 4:1 adhesive lined in one wall thickness. Adhesive lined tube bonds to the cable sheath and environmentally seals the joint, provides strain relief, increases a cable's mechanical strength. Ideal for repairing damaged sheathes.



Woven Heatshrink Sleeve

- For bundling, protecting and finishing cables
- Allows for flat harnesses when left unshrunken
- 2:1 shrink ratio
- Shrink temperature: >90°C

2:1 Shrink Ratio - Not Adhesive Lined

Range	Black#	/pack
20-10mm	20230	4M
30-15mm	20231	4M
50-25mm	20232	4M

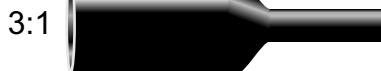


Heatshrink tube

- For insulating joints & components, repairing and insulating light cable.
- 2:1 shrink ratio • Shrink temperature: >90°C
- Operating temperature -55°C to +125°C
- Operating voltage: 600V max.
- Self extinguishing (VW1).
- Precut to 300mm lengths

2:1 Shrink Ratio - Not Adhesive Lined

Range	Black#	Red#	/pack
3.2-1.6mm	20203	20204	9.9M
4.8-2.2mm	20205	20206	9M
6.4-3.2mm	20207	20208	6.9M
10-5mm	20210	20211	5.1M
13-6.5mm	20213	20214	3.9M
16-8mm	20216	20217	3.9M
20-10mm	20220	20221	2.4M
25-12.5mm	20225	20226	2.1M
38-19mm	20238	-	1.2M
50-25mm	20250	-	0.9M



Dual Wall Heatshrink tube - adhesive lined

- 0.5mm wall thickness remains flexible
- For insulating & sealing joints & components, connecting conduit to connector housings, cosmetic finishing of cable to connector
- 3:1 shrink ratio • Shrink temperature: >110°C
- Operating temperature -55°C to +85°C
- Operating voltage: 15kV/mm • 300mm lengths

3:1 Shrink ratio - Dual Wall Adhesive Lined

Range	Black#	/pack	Red#	/pack
3.2-1.1mm	20251	1.2M	20271	1.2M
6.4-2.2mm	20253	1.2M	20273	1.2M
9.5-4.7mm	20254	1.2M	20274	1.2M
12-4.3mm	20255	1.2M	20275	1.2M
18-6.0mm	20259	1.2M	20280	1.2M
24-8.0mm	20260	1.2M	20282	1.2M
38-13mm	20264	1.2M		

Medium Wall Heatshrink tube - adhesive lined

- 1.0mm wall thickness provides thick insulation
- For insulating & sealing joints, repairing battery cables, strain reliefs for cables and connectors
- Other specifications as above

3:1 Shrink ratio - Medium Wall Adhesive Lined

Range	Black#	/pack
18-6.0mm	20261	1.2M



Dual Wall Heatshrink tube - adhesive lined

- 0.5mm wall thickness remains flexible
- For insulating & sealing joints of differing diameters
- 4:1 shrink ratio • Shrink temperature: >110°C
- Operating temperature -55°C to +85°C
- Operating voltage: 15kV/mm • 300mm lengths

4:1 Shrink ratio - Dual Wall Adhesive Lined

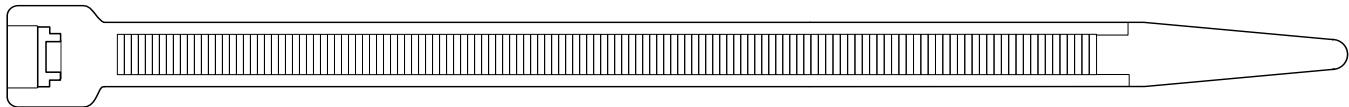
Range	Black#	/pack
6-1.5mm	20244	1.2M
20-5.0mm	20246	1.2M

CABLE TIES

All ties meet or exceed industry standards for tensile strength.

See our range of cable tie mounts and supports.

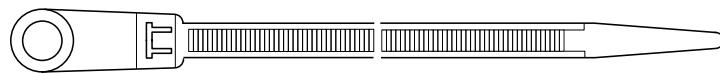
A wide range of lashing, pushmount and stainless steel ties to cover any application are available as special order.



Standard locking head cable tie

- Made from nylon66
- Black ties have carbonate A added for greater UV resistance
- Bent tip for easy insertion
- Exceeds most standards for tensile strength

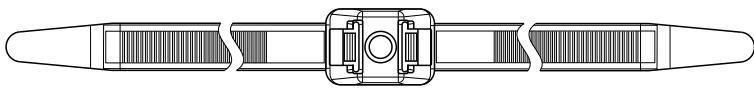
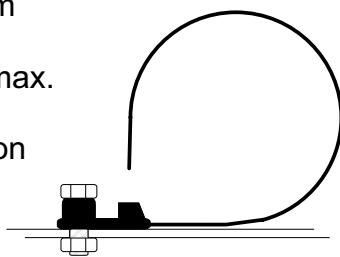
Part number	O.A.Length (mm)	Tie Width (mm)	Bundle Dia.(mm)	Tensile Min.(kg)	Colour
56400	100	2.5	25	8	●
56402	150	3.6	39	18	●
56404	200	4.8	55	22	●
56406	300	4.8	85	22	●
56408	368	4.8	85	22	●
56410	380	7.6	110	55	●
56414	550	8.0	166	80	●
56412	550	12.7	166	114	●



56401

Screw Mount Cable Tie

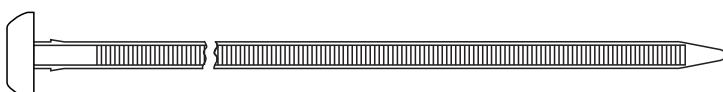
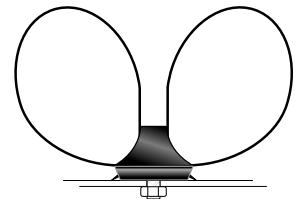
- Size (LxW) : 200x4.2mm
- Bundle size: 58mm
- Tensile strength: 22kg max.
- Mounting hole: 4.6mm
- Bent tip for easy insertion
- U.V. stabilised black



56415

Dual Head (handcuff) Cable Tie

- Size (LxW) : 200x12.7mm
- Bundle size: 2x 6-58mm
- Tensile strength: 670N
- Total load: 68kg min.
- Mounting hole: 6.35mm
- Bent tip for easy insertion
- Releasable so can be reused if permanently fixed
- U.V. stabilised black high impact PA66HIR material
- -40°C to +110°C continuous operating temperature
- Used to mount two harnesses/lines side-by-side while protecting from contact abrasion
- Used to mutually support two harnesses/lines



56416

Chassis Cable Tie

- Size (LxW) : 370x7.6mm
- Bundle size: 100mm
- Tensile strength: 700N
- Total load: 50kg min.
- Mounting hole: 12.7mm
- Ideal for use in chassis and cross-member holes
- Fully releasable prior to final tensioning
- U.V. stabilised black PA66HS material
- -40°C to +105°C continuous operating temperature

CABLE TAGS

These plastic cable tags can be attached with 2.5mm wide cables ties, 3mm fasteners such as rivets or screws, glued or backed with double sided tape. They are ideal where identifying specific circuits for assembly, installation or future servicing needs. They are laser engraved to provide a tactile and permanent marking that cannot be simply wiped off. We are able to manufacture custom types in a variety of colours to specification. **20909** is plain black and can be engraved with a hand engraver tool or the white side can be marked with a felt tip indelible marker.



● ● 20909	● VOLTAGE REDUCER ● 20922	● AUXILIARY SOCKET ● 20935
● DRIVING LAMPS ● 20910	● VOLTAGE INVERTOR ● 20923	● FRIDGE ● 20936
● FOG LAMPS ● 20911	● PHONE ● 20924	● GROUND ● 20937
● WORK LAMPS ● 20912	● CB RADIO ● 20925	● 240VAC ● 20938
● REVERSE LAMPS ● 20913	● UHF RADIO ● 20926	● BEACON ● 20939
● CANOPY LAMP ● 20914	● 2-WAY RADIO ● 20927	● PTO ● 20940
● INTERIOR LAMP ● 20915	● ELECTRIC BRAKES ● 20928	● SOLAR INPUT ● 20941
● +12 VOLT ● 20916	● REVERSING CAMERA ● 20929	● DC IN ● 20942
● + 24 VOLT ● 20917	● COMPRESSOR ● 20930	● DC OUT ● 20943
● FUSE ● 20918	● HORN ● 20931	● ESC ● 20944
● AUXILIARY BATTERY ● 20919	● WINCH ● 20932	 20950
● BATTERY ISOLATOR ● 20920	● TRAILER SOCKET ● 20933	
● SHUT-OFF SOLENOID ● 20921	● ANDERSON PLUG ● 20934	 20951
● BAR LAMP ● 20945	● ACCESSORIES ● 20946	

ENCLOSURES & CABLE GLANDS

A range of enclosures for applications such as electronics boxes, switch boxes to junction boxes.

While most boxes carry an IP rating making them water and dustproof, high pressure washing voids this specification.

Dimensions shown are external and allowance should be made for internal dimensions to suit your particular needs.

Where the enclosure is used in areas prone to water and dust, cable glands are essential to maintain proper sealing. See the Harness Protection Catalogue for our complete range of waterproof cabling and conduit accessories.



20801

Flange mount enclosure.
• ABS material
• Base plate is concealed when mounted
• 12mm cable entry hole



20802

Flange mount enclosure.
• ABS material
• Base plate is concealed when mounted



20815

Waterproof enclosure.
• IP66 dust & water rating
• ABS material
• Quick release screw lid
• Internal threaded bushes
• Internal mounting dowels



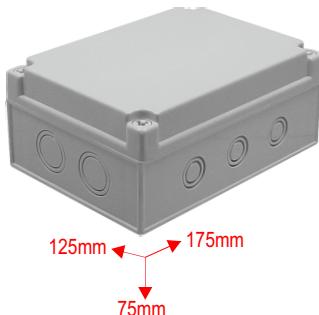
20816

Waterproof enclosure.
• IP66 dust & water rating
• ABS material
• Quick release screw lid
• Internal threaded bushes
• Internal mounting dowels



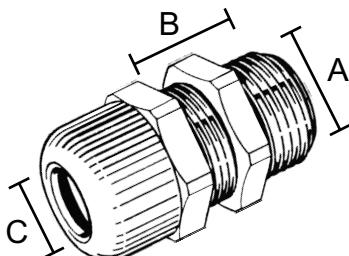
20804

Waterproof enclosure.
• IP66 dust & water rating
• ABS material
• Quick release screw lid
• Internal threaded bushes
• Internal mounting dowels



20803

Waterproof enclosure.
• IP66 dust & water rating
• ABS material
• Quick release screw lid
• Internal threaded bushes
• Internal mounting dowels



CABLE GLANDS

• IP68 rated
• Made from Nylon 66
• Standard metric size
For 4mm (*max) panels

Part # number	A	B	C	D
SR12	12mm	8.3mm	5.0mm	3-6.5mm
SR16	16mm	10.9mm	9.6mm	5-10mm
SR20	20mm	14.8mm	12.9mm	10-14mm
SR25*	25mm	18.6mm	16.4mm	13-18mm
SR32*	32mm	26.0mm	23.4mm	18-25mm
SR40*	40mm	31.4mm	30.6mm	22-32mm
SR50*	50mm	41.2mm	38.2mm	30-38mm
SR63*	63mm	54.1mm	42.8mm	34-44mm

Dimension 'D' is the gland's cable diameter clamp range

Glands are designed to be used with panels no thicker than around 2mm. When using thicker panels allow for the gland's panel nut thickness (min 5mm) to be deducted from the threaded length dimension 'B'.

Glands are designed to work with circular cable. Using other shapes or multiple cables through one gland will degrade the sealing ability of the gland. For optimum sealing performance use one circular cable per gland or use a cable harness covered with unsplit conduit. See our Harness Protection catalogue for more options.

HARNESS SUPPORTS

A range supports used to secure and fasten harnesses and other lines into place. They are made from durable materials. See our range of cable ties and mounts for more options. We carry a full range of harness protection products.



Plastic P-Clip

- For lighter weight harness applications
- Black U.V resistant Nylon66
- D1 = 5mm

20005 - D = 4.8mm, W = 9mm

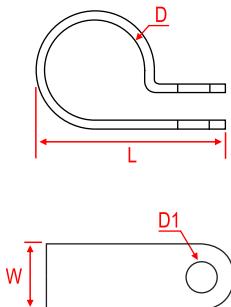
20006 - D = 6.4mm, W = 9mm

20011 - D = 7.9mm, W = 10mm

20009 - D = 9.5mm, W = 13mm

20012 - D = 12.5mm, W = 13mm

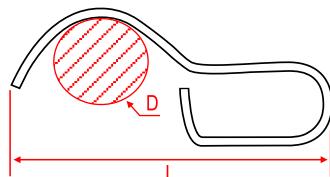
20014 - D = 15.8mm, W = 12mm



Chassis clip

- Cadmium plated spring steel
- Cost effective and quick to install
- Secures conduit to chassis flanges without the need to drill for fasteners

20172 - D = 8 to 13mm
L = 42mm



20173 - D = 16 to 20mm
L = 44mm



56478 - D = 6mm

56480 - D = 10mm

56481 - D = 13mm

56482 - D = 16mm

56483 - D = 19mm

56484 - D = 22mm

56485 - D = 27mm

56486 - D = 32mm

56487 - D = 35mm

56488 - D = 40mm

56489 - D = 45mm

56490 - D = 50mm

56491 - D = 55mm

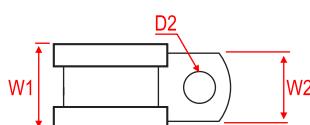
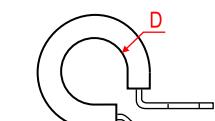
56492 - D = 60mm

56493 - D = 66mm

56494 - D = 76mm

Metal Tube Clamps

- Galvanised steel band
- UV resistant EPDM rubber band
- D2 = 6.8mm
- W1 = 17.8mm
- W2 = 13mm



CABLE TIE MOUNTS

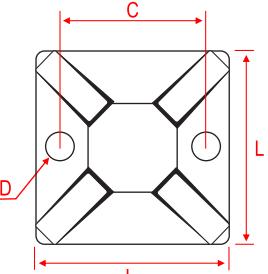
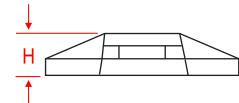
A range of mounts used with cable ties to secure and fasten harnesses and other lines into place. They are made from durable nylon66 material

Adhesive tie mounts should only be used for indoor applications and where the surface has been cleaned of any debris or oil. We carry a full range of cable clips and harness protection products.



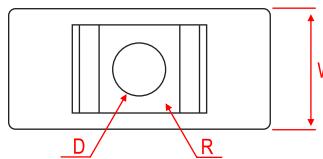
20019 Sticky Mount

- Quality self-adhesive backing
- Accepts ties up to 3.6mm
- 4 way tie insertion
- Optional mounting holes
- Black U.V. resistant Nylon66
- C = 12.7mm
- D = 2.6mm
- H = 5.3mm
- L = 19mm



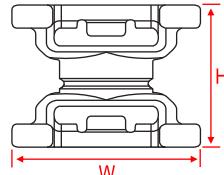
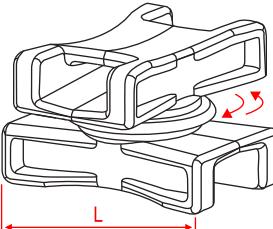
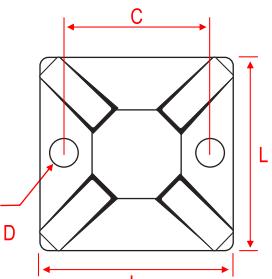
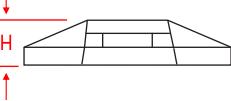
20003 - Cradle Mount

- Ties up to 12.7mm wide
- U.V. resistant Nylon66
- D = 6.3mm
- H = 16mm
- L = 40mm
- R = 12mm
- W = 13.5mm



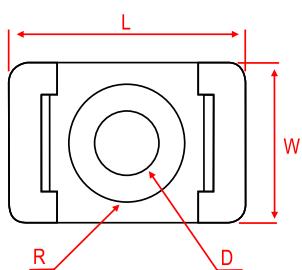
20028 Sticky Mount

- Quality self-adhesive backing
- Accepts ties up to 4.8mm
- 4 way tie insertion
- Optional mounting holes
- Black U.V. resistant Nylon66
- C = 18.5mm
- D = 3.6mm
- H = 6mm
- L = 28mm



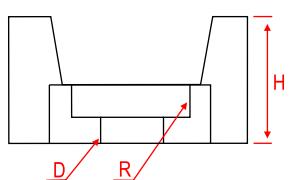
20004 - Cradle Mount

- Accepts ties up to 4.8mm wide
- U.V. resistant Nylon66
- D = 3.3mm
- R = 6.7mm
- L = 9.6mm
- W = 10mm
- H = 7mm



20002 - Cradle Mount

- Accepts ties up to 7.6mm wide
- U.V. resistant Nylon66
- D = 5mm
- R = 10.8mm
- L = 23mm
- W = 16mm
- H = 9.6mm



20001 - Swivel Lash Mount

Used to lash intersecting electrical, air, or hydraulic lines together for mutual support.

Used by many truck OEMs to secure lines between chassis rails where cross-members or other means of fastened supports are not available.

- Used to prevent chafing and wearing of lines
- Used to keep lines from contacting each other
- Supports lines that normally move
- Wide contact area avoids pinching and crushing
- Accepts ties up to 12.7mm wide
- U.V. resistant Nylon66
- H = 24mm
- L = 40mm
- W = 23mm

CABLE HARNESSING

In the past, vinyl tape contained lead compounds as thermal stabilizers. All our PVC tapes utilise a calcium-zinc material instead and all tapes are lead-free RoHS compliant.

We offer low cost PVC and OEM grade cloth harness wrapping tapes. Self fusing EPT tapes are useful to repair existing joints when it isn't possible to slip on adhesive lined heatshrink.



20103
Black harness tape.
20M x 19mm roll.

This tape was developed to protect and bind automotive harnesses.

- Contains no lead compounds
- Flame retardant
- PVC film over rubber adhesive
- Colour doesn't change over time
- Elongation: 190% - highly pliable
- Breakdown voltage: 3.5kV/mm
- Low sheen black finish - better esthetics
- Inexpensive



20099
Self fusing tape.
10M x 19mm roll.

This tape was developed as an adhesive free tape offering complete sealing.

- Excellent weatherability - 90°C continuous rated
- EPT film over rubber adhesive
- Elongation: 980% @ 40N/10mm² @ 23C°
- Breakdown voltage: 45kV/mm
- Supplied with liner for longer application time



20101
Red insulation tape.
20M x 18mm roll.

This tape was developed to provide insulation in all weather conditions.

- Contains no lead compounds
- Flame retardant to UL-510 flame test / IEC454-2
- PVC film over rubber adhesive
- Total thickness: 0.19mm
- Elongation: 160% @ 170N/mm²
- Dielectric strength: 9.5kV/mm
- Long shelf life. Colour doesn't change over time
- Low sheen red finish - better esthetics
- UV, abrasion, moisture, alkali, acid & solvent resistant.
- Non softening adhesive will not lift or peel
- Temperature range: -18°C to +105°C
- Inexpensive



20104
Cloth harness tape.
5M x 19mm roll.

This tape was developed to provide better performance in harness production.

- Currently used by most OEMs to wrap harnesses
- Contains no lead compounds - RoHS compliant
- Stitch-bond, Non-woven polyester fabric
- Total thickness: 0.3mm
- Elongation: 15% for easy tear-off
- Better esthetics to suit current OEM harnesses
- Abrasion resistance: VW60360 Class A
- Noise dampening: VW60360 Class A
- Temperature range: up to +105°C
- Won't leave adhesive residue behind
- Won't produce Dioxin when burnt
- Better flexibility over a wider temperature range
- Better abrasion resistance than PVC tapes
- Good for damping contact noise between plastic and metal surfaces and spring clip mounts

CABLE HARNESSING

We provide a wide range of OEM standard harness making and protection products.

Both Spiral Wrap and Harness sleeve expand to fit over harness bundles.

Spiral Wrap can be fit to dodge mounts and connectors and offers the most abrasion protection and best strain relief.

Harness sleeve offers less bulk and is used more for a high end aesthetic finish.



20106 - 6mm nom.

20108 - 8mm nom.

20110 - 10mm nom.

20112 - 12mm nom.

20115 - 15mm nom.

20124 - 24mm nom.

20130 - 30mm nom.

Spiral Wrap

- Ideal for protecting and bundling cables
- Easily applied and removed / reused
- Enhances insulation property of cable
- Expands to around 3 times nominal size
- Made from durable black PET



20161 - 6 to 10mm

20162 - 12 to 30mm

20164 - 20 to 40mm

Harness sleeve

- Ideal for protecting and bundling cables
- Gives harnesses a 'knitted sleeve' look
- Enhances abrasion resistance of harnesses where hard tubing can rub through wiring
- Expands to the shape and size of the harness
- Made from durable black monofilament PET
- Flame resistant to UL224
- Operating temp: -70°C to +120°C



Woven Heatshrink Sleeve

- For bundling, protecting and finishing cables
- Allows for flat harnesses when left unshrunken
- 2:1 shrink ratio
- Shrink temperature: >90°C

2:1 Shrink Ratio - Not Adhesive Lined

Range	Black#	/pack
20-10mm	20230	4M
30-15mm	20231	4M
50-25mm	20232	4M

CONDUIT

Corrugated loom tube is widely used for conduiting and protection for vehicle harnesses. The range is basically divided into two types. Low cost Polypropylene has a lower maximum operating temperature and has a lower crush-point. Polyamide PA6/6.6 material is used in heavy duty applications such as trucks, machines and military. Polyamide has a higher temperature rating, is acid and solvent tolerant and is more crush resistant. See Harness Protection page.



10M PACKS

20008 - 4.5mm
20007 - 7mm
20010 - 10mm
20013 - 13mm
20016 - 16mm
20022 - 20mm
20025 - 25mm
20029 - 29mm
20036 - 36mm
20048 - 48mm



10M PACKS

200071 - 7mm
200101 - 10mm
200131 - 13mm
200161 - 16mm
200221 - 20mm
200251 - 25mm
200291 - 29mm
200481 - 48mm



BULK ROLLS

20008B - 4.5mm x 100M
20007B - 7mm x 400M
20010B - 10mm x 250M
20013B - 13mm x 150M
20016B - 16mm x 100M
20022B - 20mm x 100M
20025B - 25mm x 50M
20029B - 29mm x 50M
20048B - 48mm x 50M



BULK ROLLS

200071B - 7mm x 400M
200101B - 10mm x 250M
200131B - 13mm x 150M
200161B - 16mm x 100M
200221B - 20mm x 100M
200251B - 25mm x 50M
200291B - 29mm x 50M
200401B - 40mm x 50M
200481B - 48mm x 50M

Unsplit corrugated loom tube

- Ideal for protecting and bundling cables
- Easily applied and removed / reused
- Enhances insulation property of cable
- Waterproof, dustproof
- Made from Polypropylene

Split corrugated loom tube

- Ideal for protecting and bundling cables
- Easily applied and removed / reused
- Enhances insulation & protection of harness
- Enhances wiring appearance
- Made from Polypropylene



20605 - 5mm I.D.
20607 - 7mm I.D.
20610 - 10mm I.D.
20613 - 13mm I.D.
20616 - 16mm I.D.
20620 - 20mm I.D.
20625 - 25mm I.D.

PVC sleeve

- Sold in 25M hanks
- Used as a highly conforming, soft conduit
- Enhances abrasion resistance of harness
- Made from black PVC - V105
- Max operating temp: +85°C
- Ends can be used with adhesive lined heatshrink to provide a low cost waterproof conduiting solution

HARNESS PROTECTION - CONDUIT

This product is predominantly used by the world's leading car, truck, bus and agricultural original equipment manufacturers.

Below is a condensed overview of the Schlemmer range of harness protection system. When correctly assembled, the system seals up to a rating of IP67. For more detailed information, refer to our Harness Protection Catalogue.



While this range is extensive, it is quite simple to use. The first step is to select the correct I.D. conduit sizes that provide the working clearances required over the harness. When looking up other components to use with the conduit, always refer to the greyed 'Nom.Size' column. The other dimensions shown here are for physical reference only.



- Made from Polyamide 4 ● -40°C to +120°C Continuous rating
- -40°C to +150°C Short term rating ● Flame Retardant
- Halogen Free ● U.V. Resistant ● Mechanically strong
- Full chemical compatibility specification available

Schlemmer 'Polyflex PA6' unsplit conduit

P/No.	Nom.Size	O.D.	I.D.	/Roll
1200068	6	7.1	5.0	100M
1200069	7	9.2	6.0	100M
1200070	8	10.0	6.7	50M
1200089	10	11.7	8.4	50M
1200100	12	13.0	9.9	50M
1200135	16	15.8	12.7	50M
1200178	20	21.2	16.6	50M
1200224	25	25.4	21.3	50M
1200291	32	34.5	29.0	25M
1200372	40	42.4	36.0	25M
1200500	50	54.0	47.7	25M



This symbol indicates that this product is part of the, newer, hinged range of fittings.

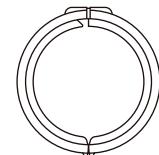


This symbol indicates that this product is part of the 'Threadconnect' range of fittings.

Below is a range of conduit and fitting fasteners. When looking up other fittings to use with conduit, always refer to the greyed 'Nom.Size' column.

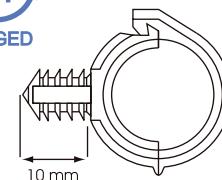
Clamping clips are used for mounting split or unsplit conduit and can be used on conduit ends.

P/No.	Nom.Size	/unit
SP101	8	10
SP102	10	10
SP103	12	10
SP104	16	10
SP108	20	10
SP109	25	10



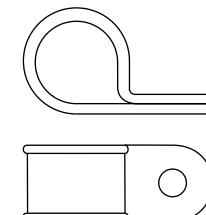
Push-mount clips are the same as above except that they incorporate a 6.5mm hole barb for self mounting.

P/No.	Nom.Size	/unit
SP304	8	10
SP305	10	10
SP306	12	10
SP307	16	10
SP308	20	10
SP309	25	10



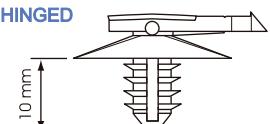
These 'P' clamps are thick walled and specifically designed for use with Polyflex conduit.

P/No.	Nom.Size	/unit
SP12	10	10
SP13	12	10
SP16	16	10
SP22	20	10
SP25	25	10



This push-mount clip is specifically designed for use with the ST range of hinged fittings. 6.5mm hole required.

P/No.	Nom.Size	/unit
STCLIP	All	10



HARNESS PROTECTION - THREADCONNECT

This product is predominantly used by the world's leading car, truck, bus and agricultural original equipment manufacturers.

Below is a condensed overview of the Schlemmer range of harness protection system. When correctly assembled, the system seals up to a rating of IP67. All cap-nuts need only be hand tightened, firmly. For more detailed information, refer to our Harness Protection Catalogue.

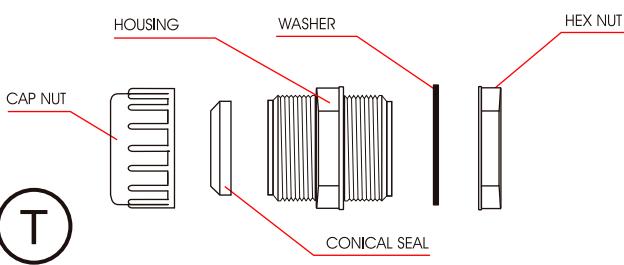


The 'Threadconnect' range is the traditional range of 'tees', manifolds and adaptors.

As the name implies, the fittings must be 'threaded' over the harness in sequence with the conduit.

They are supplied in kit form. When looking up other components to use with the conduit, always refer to the greyed 'Nom.Size' column. Any other dimensions shown are for physical reference only.

- Polyamide 6.6 adapter body
- Perbunanane washer
- Neoprene conical seal
- Flame Retardant
- U.V. Resistant
- Mechanically strong
- IP67 rated when used with seals
- Full chemical compatibility specification available



Threadconnect adapter compression fitting.

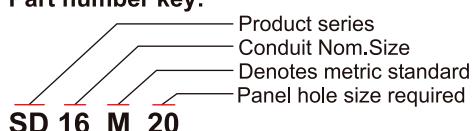
P/No.	Nom.Size	Panel Hole	/unit
SD10M16	10	16.5mm	5
SD12M16	12	16.5mm	5
SD12M20	12	20.5mm	5
SD16M16	16	16.5mm	5
SD16M20	16	20.5mm	5
SD20M20	20	20.5mm	5
SD25M25	25	25.5mm	5
SD32M32	32	32.5mm	1
SD40M40*	40	40.5mm	1
SD50M50	50	50.5mm	1

Notes:

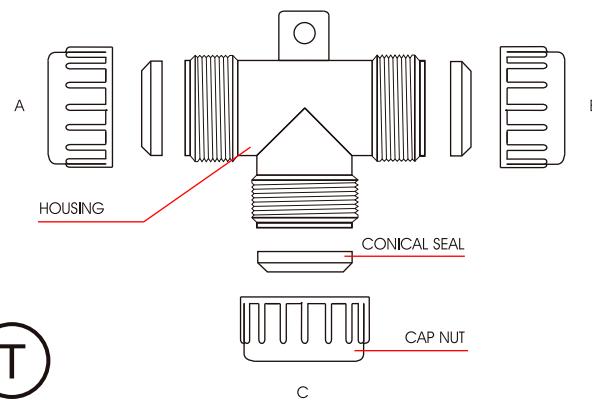
Check the orientation of the conical seals during assembly. Seals should be placed two corrugations back from end.

*Flat washer not supplied in this kit - IP54 rating.

Part number key:



- Polycarbonate housing
- Polyamide 6.6 nut
- Neoprene conical seal
- Flame Retardant
- U.V. Resistant
- Mechanically strong
- IP67 rated when used with seals
- Full chemical compatibility specification available

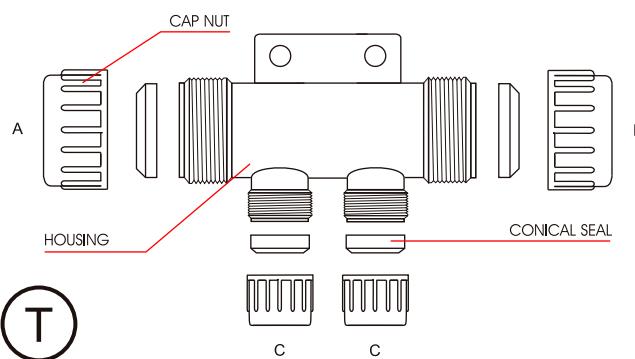


Threadconnect 'Tee' compression fitting.

P/No.	Nom.A	Nom.B	Nom.C	/unit
SE10	10	10	10	1
SE12	12	12	12	1
SE16	16	16	16	1
SE20	20	20	20	1
SE2520	20	20	25	1

Notes:

Check the orientation of the conical seals during assembly. Seals should be placed two corrugations back from end. Only SE20 & SE2520 have a mounting tab, otherwise SP series products can be used with the Threadconnect series.



Threadconnect manifold compression fitting.

P/No.	Nom.A	Nom.B	Nom.C	/unit
SE25X12	25	25	12	1

Notes:

Check the orientation of the conical seals during assembly. Seals should be placed two corrugations back from end.

HARNESS PROTECTION - QUICKCONNECT

This product is predominantly used by the world's leading car, truck, bus and agricultural original equipment manufacturers. Below is a condensed overview of the Schlemmer range of harness protection system. When correctly assembled, the system seals up to a rating of IP67. For more detailed information, refer to our Harness Protection Catalogue.



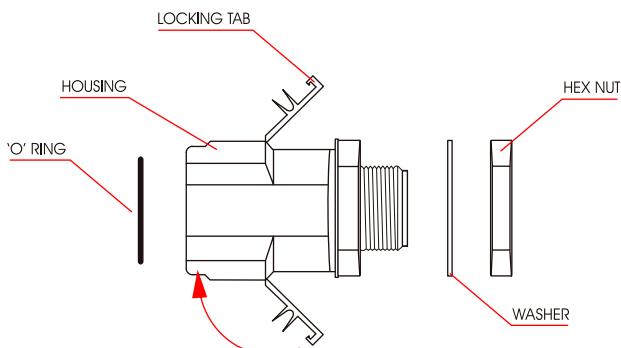
The 'Quickconnect' range is the latest generation of 'tees', adaptors and electrical connectors.

Unlike the Threadconnect range, fittings can be fitted to the conduit during or after final assembly instead in sequence with the conduit. They can be easily changed once the harness is installed or as the harness requires modification or repair.

When looking up other components to use with the conduit, always refer to the greyed 'Nom.Size' column.

Any other dimensions shown are for physical reference only.

- Polyamide 6.6 adapter body
- Perbunan washer & 'O'ring
- Flame Retardant
- U.V. Resistant
- IP67 rated when used with 'O' ring
- Full chemical compatibility specification available



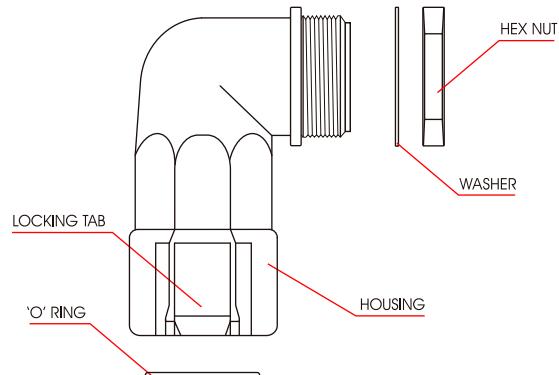
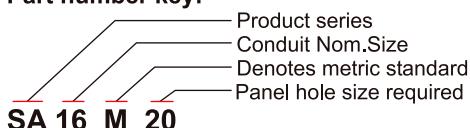
Quickconnect straight adapter.

P/No.	Nom.Size	Panel Hole	/unit
SA12M16	12	16.5mm	5
SA16M16	16	16.5mm	5
SA20M20	20	20.5mm	5
SA25M25	25	25.5mm	5
SA32M32	32	32.5mm	5

Notes:

While these adaptors can be used with split conduit as well, IP67 rating can only be assured when Schlemmer unsplit conduit is used with the supplied 'O' ring and washer.

Part number key:



Quickconnect 90° adapter.

P/No.	Nom.Size	Panel Hole	/unit
SA12M1690	12	16.5mm	5
SA16M1690	16	16.5mm	5
SA16M2090	16	20.5mm	5
SA20M2090	20	20.5mm	5
SA25M2590	25	25.5mm	5
SA32M3290	32	32.5mm	5

Notes:

While these adaptors can be used with split conduit as well, IP67 rating can only be assured when Schlemmer unsplit conduit is used with the supplied 'O' ring and washer.

Part number key:



HARNESS PROTECTION - HINGED TEES

The 'hinged' range is the latest generation of 'tees', and 'Y' piece fittings. Unlike the Threadconnect range, fittings can be fitted to the conduit during or after final assembly instead in sequence with the conduit. They can be easily changed once the harness is installed or as the harness requires modification or repair. For more detailed information refer to our Harness Protection Catalogue.



The SM range can also be used on unsplit conduit as they hold the conduit by locking into the corrugations - not by compressing it.

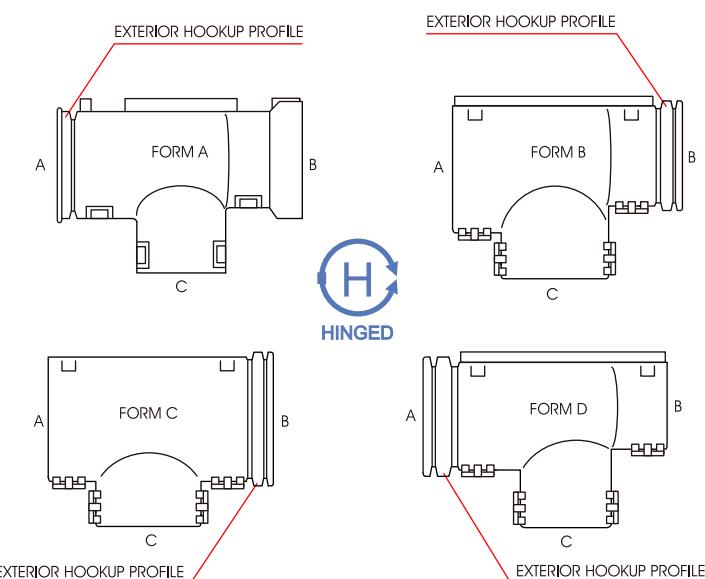
When used as stand alone fittings, the form letter becomes irrelevant as it denotes the exterior hookup profile's location.

Fittings with exterior hookup profile can be joined together to form manifolds. Only one outlet has this profile as indicated below. The size required for a hookup is the next size up from the outlet size - e.g. outlet size is 16, hookup size is 20. Refer to the relevant chart for form availability.

When looking up other components to use with the conduit, always refer to the greyed 'Nom.Size' column.

Any other dimensions shown are for physical reference only.

- Polyamide 6.6 adapter body
- Flame Retardant
- U.V. Resistant
- Mechanically strong
- IP54 rated
- Full chemical compatibility specification available



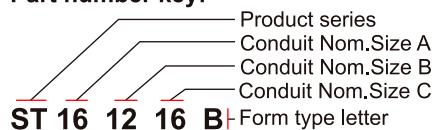
ST range hinged 'Tee'(outside gripping).

P/NO.	Nom.Size A-B-C	Form	Hookup	/unit
ST080808A	8 - 8 - 8	A	-	1
ST080808B	8 - 8 - 8	B	B	1
ST101210A	10 - 12 - 10	A	-	1
ST120808D	12 - 8 - 8	D	A	1
ST120812A	12 - 8 - 12	A	-	1
ST121208A	12 - 12 - 8	B	B	1
ST121210A	12 - 12 - 10	A	-	1
ST121212B	12 - 12 - 12	B	B	1
ST161608B	16 - 16 - 8	B	B	1
ST160816A	16 - 8 - 16	A	-	1
ST160816B	16 - 8 - 16	B	B	1
ST161206C	16 - 12 - 6	C	B	1
ST161210A	16 - 12 - 10	A	-	1
ST161212A	16 - 12 - 12	A	-	1
ST161212D	16 - 12 - 12	D	A	1
ST161216B	16 - 12 - 16	B	B	1
ST161608A	16 - 16 - 8	A	-	1
ST161610C	16 - 16 - 10	C	B	1
ST161612B	16 - 16 - 12	B	B	1
ST161616C	16 - 16 - 16	C	B	1
ST200820A	20 - 8 - 20	A	-	1
ST201612B	20 - 16 - 12	B	B	1
ST201608B	20 - 16 - 8	B	B	1
ST201616A	20 - 16 - 16	A	-	1
ST201616B	20 - 16 - 16	B	B	1
ST202008A	20 - 20 - 8	A	-	1
ST202008B	20 - 20 - 8	B	B	1
ST202010C	20 - 20 - 10	C	B	1
ST202012A	20 - 20 - 12	A	-	1
ST202012B	20 - 20 - 12	B	B	1
ST202025B	20 - 20 - 25	B	B	1
ST251212B	25 - 12 - 12	B	B	1
ST251225A	25 - 12 - 25	A	-	1
ST251620B	25 - 16 - 20	B	B	1
ST251625B	25 - 16 - 25	B	B	1
ST252016B	25 - 20 - 16	B	B	1
ST252025C	25 - 20 - 25	C	B	1
ST252512B	25 - 25 - 12	B	B	1
ST252512C	25 - 25 - 12	C	B	1
ST252516B	25 - 25 - 16	B	B	1
ST252520C	25 - 20 - 20	C	B	1
ST252525B	25 - 25 - 25	B	B	1

Notes:

These adaptors can be used with split conduit as well for an IP57 rating. Use STCLIP to directly mount any ST series or use any SP series to mount the conduit itself.

Part number key:



HARNESS PROTECTION - Y PEICES

The 'hinged' range is the latest generation of 'tees', and 'Y' piece fittings. Unlike the Threadconnect range, fittings can be fitted to the conduit during or after final assembly instead in sequence with the conduit. They can be easily changed once the harness is installed or as the harness requires modification or repair. For more detailed information refer to our Harness Protection Catalogue.



The SM range can also be used on unsplit conduit as they hold the conduit by locking into the corrugations not by compressing it.

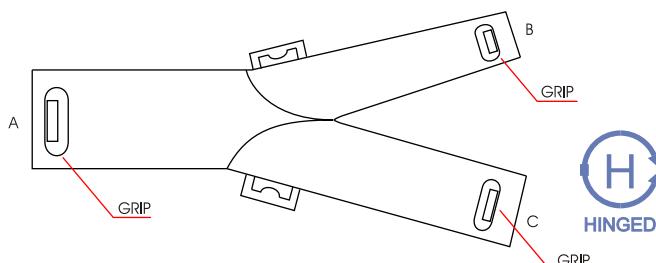
SN series are inserted into the conduit and grip the inner corrugations of the conduit.

Fittings with exterior hookup profile can be joined together to form manifolds. Only one outlet has this profile as indicated below. The size required for a hookup is the next size up from the outlet size - e.g. outlet size is 16, hookup size is 20. Refer to the relevant chart for form availability.

When looking up other components to use with the conduit, always refer to the greyed 'Nom.Size' column.

Any other dimensions shown are for physical reference only.

- Polyamide 6.6 adapter body
- Flame Retardant
- U.V. Resistant
- Mechanically strong
- IP54 rated
- Full chemical compatibility specification available

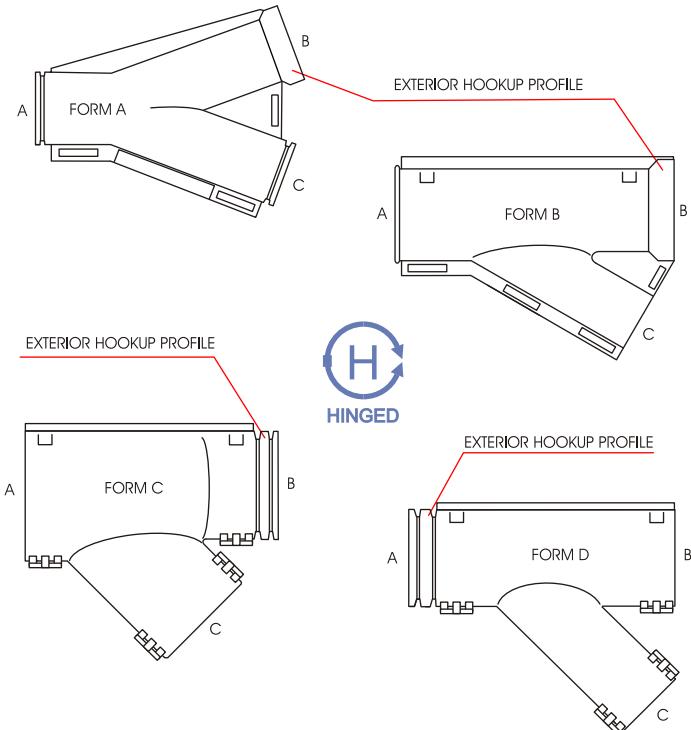


SN range hinged 'Y'(inside gripping).

P/NO.	Nom.Size A-B-C	/unit
SN101010	10 - 10 - 10	1
SN121010	12 - 10 - 10	1
SN121212	12 - 12 - 12	1
SN161212	16 - 12 - 12	1
SN161612	16 - 16 - 12	1
SN201212	20 - 12 - 12	1
SN201616	20 - 16 - 16	1
SN202012	20 - 20 - 12	1

Notes:

To secure SN series to split conduit, cable ties are required.



SM range hinged 'Y'(outside gripping).

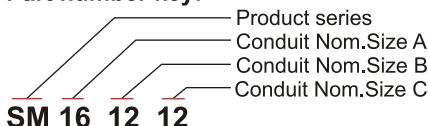
P/NO.	Nom.Size A-B-C	Form	Hookup	/unit
SM080808	8 - 8 - 8	A	-	1
SM121212	12 - 12 - 12	D	A	1
SM161208	16 - 12 - 08	C	C	1
SM161212	16 - 12 - 12	C	C	1
SM200812	20 - 8 - 12	C	C	1
SM201212	20 - 12 - 12	C	C	1
SM201612	20 - 16 - 12	C	C	1
SM202012	20 - 20 - 12	C	C	1
SM202016	20 - 20 - 16	B	-	1
SM252016	25 - 20 - 16	B	-	1
SM251225	25 - 12 - 25	C	C	1
SM251625	25 - 16 - 25	C	C	1
SM252525	25 - 25 - 25	C	C	1

Notes:

These adaptors can be used with split conduit as well for an IP57 rating. Use STCLIP to directly mount any SMseries or use any SP series to mount the conduit itself.

SM series can be joined with other SM & ST series to form manifolds.

Part number key:



HARNESS PROTECTION - SG CONNECTORS

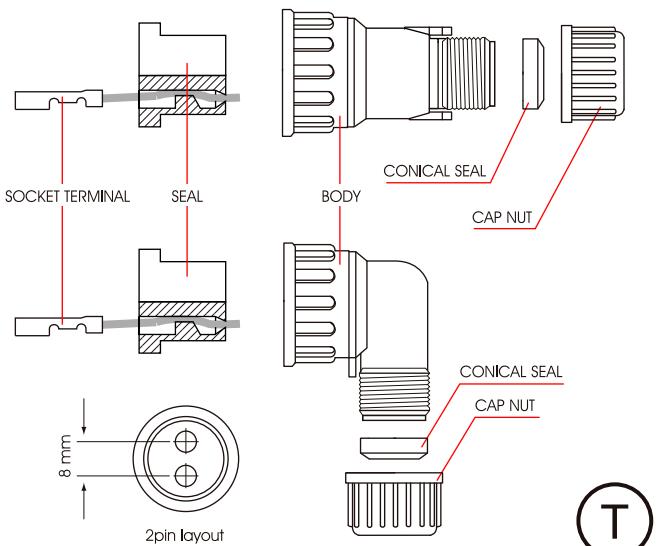
This product is predominantly used by the world's leading car, truck, bus and agricultural original equipment manufacturers.

Below is a condensed overview of the Schlemmer range of harness protection system. When correctly assembled, the system seals up to a rating of IP67. For more detailed information, refer to our Harness Protection Catalogue.



The SG range are 'conduit sealed' connectors - that is, the conduit and connector form part of the sealed system. The IP67 rating can only be assured with Schlemmer unsplit conduit and when the conical seals are fitted. When looking up other components to use with the conduit, always refer to the greyed 'Nom. Size' column. Any other dimensions shown are for physical reference only.

- Polyamide 6 connector housing
- Neoprene seals
- Flame Retardant
- U.V. Resistant
- IP67 rated
- Full chemical compatibility specification available



Conduit sealed 2 pin solenoid connectors.

P/No.	circuits	Nom.Size	angle	/unit
SG272	2	8	straight	1
SG24902*	2	12	90°	1
SG27902	2	12	90°	1

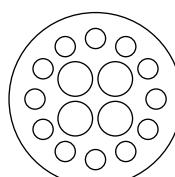
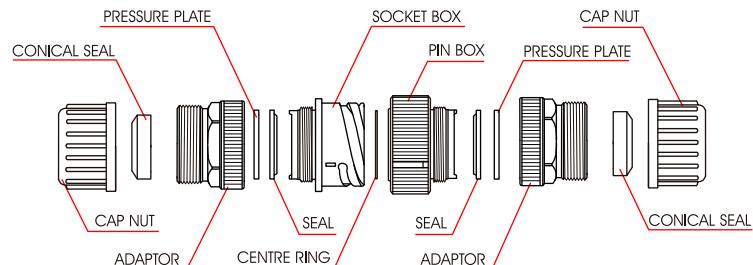
Notes:

Check the orientation of the conical seal during assembly.

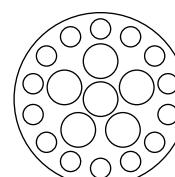
*SG24902 is M24x1 thread. All others are M27x1 thread.

SG272 / SG24902 / SG27902 kit contents:

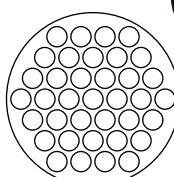
2 x socket terminals 3.5mm dia. - 2.5 - 6.0mm² CSA (P/No. 7702973)
 1 x conical seal
 1 x housing
 1 x cap nut



16pin layout



21pin layout



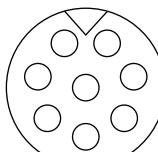
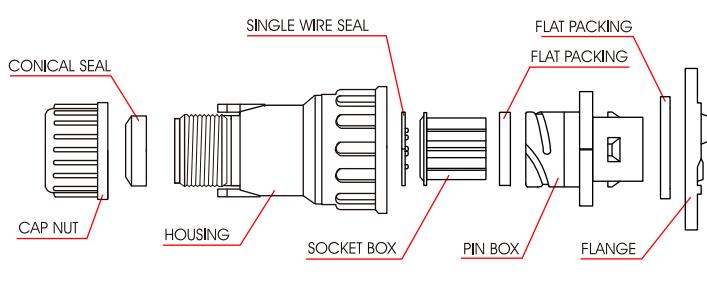
37pin layout

Conduit sealed 16, 21 & 37 pin connectors.

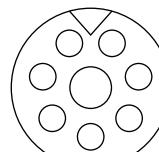
P/No.	circuits	Nom.Size	No. x CSA	/unit
SG16	16	25	12x1.5, 4x6.0	1
SG21	21	25	14x1.5, 7x6.0	1
SG37	37	25	37 x 1.5	1

Notes:

Check the orientation of the conical seal during assembly. For kit contents refer our Harness Protection Catalogue.



SG081 pin layout



SG082 pin layout

Conduit sealed 8 pin panel mount connector.

P/No.	circuits	Nom.Size	No. x CSA	/unit
SG081	8	8	8x1.5	1
SG082	8	8	1x6.0, 7x1.5	1

Notes:

Check the orientation of the conical seal during assembly. For kit contents refer our Harness Protection Catalogue.

HARNESS PROTECTION - SQ CONNECTORS

This product is predominantly used by the world's leading car, truck, bus and agricultural original equipment manufacturers.

Below is a condensed overview of the Schlemmer range of harness protection system. When correctly assembled, the system seals up to a rating of IP67. For more detailed information, refer to our Harness Protection Catalogue.

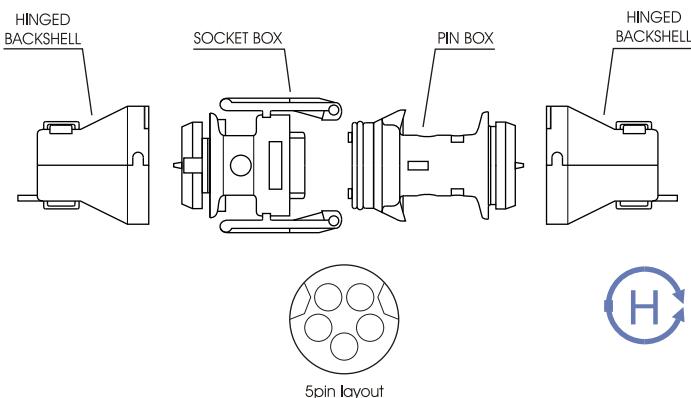


The SQ range are 'contact sealed' connectors - that is, the terminals are individually sealed. This method ensures a sealed connector regardless if split or unsplit conduit is used. Unlike the Threadconnect range, these connectors can be fitted to the conduit during or after final assembly instead of in sequence with the conduit. They can be easily changed once the harness is installed or backshells replaced if the harness requires modification or repair.

When looking up other components to use with the conduit, always refer to the greyed 'Nom.Size' column.

Any other dimensions shown are for physical reference only.

- Polyamide 6 connector housing
- Neoprene seals
- Flame Retardant
- U.V. Resistant
- IP67 rated
- Full chemical compatibility specification available



Contact sealed inline 5 pin connectors.

P/No.	circuits	Nom.Size	angle	/unit
SQ510	5	10	straight	1
SQ512	5	12	straight	1

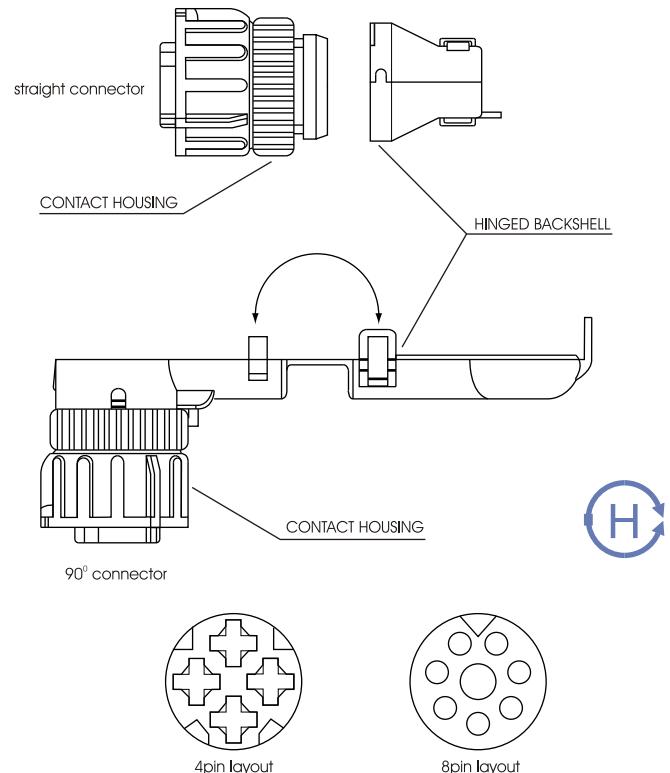
Notes:

These adaptors can also be used with split conduit.

SQ501 / SQ502 kit contents:

- 5 x socket terminals 4.0mm dia. - 0.75 - 1.5mm² CSA (P/No. 7814095)
- 1 x pin terminals 4.0mm dia. - 0.75 - 1.5mm² CSA (P/No. 7815045)
- 1 x socket box
- 1 x pin box
- 10 x seals (P/No. 7814138)
- 4 x cavity plugs (P/No. 7814135)
- 1 x 'O' ring
- 2 x hinged backshells

- Polyamide 6 connector housing
- Neoprene seals
- Flame Retardant
- U.V. Resistant
- IP67 rated
- Full chemical compatibility specification available



Contact sealed 4 & 8 pin connectors.

P/No.	circuits	Nom.Size	angle	/unit
SQ401	4	10	straight	1
SQ409	4	10	90°	1
SQ801	8	12	straight	1
SQ802	8	12	90°	1

Notes:

These adaptors can also be used with split conduit

SQ401 / SQ409 kit contents:

- 5 x socket terminals 6.7mm dia. - 0.5 - 1.5mm² CSA (P/No. 7814125)
- 4 x seals (P/No. 7814128)
- 2 x cavity plugs (P/No. 7814130)
- 1 x contact housing
- 1 x contact lock
- 1 x hinged backshell

SQ801 / SQ809 kit contents:

- 7 x socket terminals 5.2mm dia. - 0.5 - 1.0mm² CSA (P/No. 7814047)
- 1 x socket terminal 4.0mm dia. - 0.5 - 1.0mm² CSA (P/No. 7814050)
- 8 x seals (P/No. 7814140)
- 4 x cavity plugs (P/No. 7814136)
- 1 x contact housing
- 1 x contact lock
- 1 x hinged backshell

HEATSHRINK CRIMP TERMINALS

The part numbers below supercede any similar part catalogued elsewhere. Other types available as special order. Heatshrink terminals use an adhesive lined heatshrink which glues and seals the area or contact. They also provide strain relief where the cable meets the terminal's crimp point making them suited to applications subject to vibration.



56251

Red butt connector.
Crimp & shrink. For 2-3mm auto cable.



56252

Blue butt connector.
Crimp & shrink. For 4mm auto cable.



56253

Yellow butt connector.
Crimp & shrink. For 5-6mm auto cable.



56381

White solder splice.
Shrink & solder. For 1mm auto cable,
data and multi-core control cables.



56380

Red solder splice.
Shrink & solder. For 2-3mm auto cable.



56382

Blue solder splice.
Shrink & solder. For 4mm auto cable.



56384

Yellow solder splice.
Shrink & solder. For 5-6mm auto cable.



56358

4mm red ring terminal.
Crimp & shrink. For 2-3mm auto cable.



56360

5mm red ring terminal.
Crimp & shrink. For 2-3mm auto cable.



56362

6mm red ring terminal.
Crimp & shrink. For 2-3mm auto cable.



56364

5mm blue ring terminal.
Crimp & shrink. For 4mm auto cable.



56366

6mm blue ring terminal.
Crimp & shrink. For 4mm auto cable.



56368

8mm blue ring terminal.
Crimp & shrink. For 4mm auto cable.



56370

6mm yellow ring terminal.
Crimp & shrink.
For 5-6mm auto cable.



56372

8mm yellow ring terminal.
Crimp & shrink.
For 5-6mm auto cable.

PRE-INSULATED CRIMP TERMINALS

The part numbers below supercede any similar part catalogued elsewhere. Other types available as special order.

General purpose vinyl insulation
V Suit 2.5-3mm Auto Cable
V Suit 4mm Auto Cable
V Suit 5 - 6mm Auto Cable

Polycarbonate insulation
P Suit 2.5-3mm Auto Cable
P Suit 4mm Auto Cable
P Suit 5 - 6mm Auto Cable

High-temperature nylon insulation
N Suit 2.5-3mm Auto Cable
N Suit 4mm Auto Cable
N Suit 5 - 6mm Auto Cable

Adhesive lined heatshrink insulation
H Suit 2.5-3mm Auto Cable
H Suit 4mm Auto Cable
H Suit 5 - 6mm Auto Cable

				
12mm Pin V 562001 V 562002 V 562003	10mm Blade V 562007 V 562008 V 562009	6.4mm Q.C. male V 56120 V 56122 V 56124	6.4mm Q.C. male P 56111 P 56112 P 56113	6.3mm Piggyback Q.C. V 56130 V 56132
				
2.8mm Q.C. Female V 56133	4.8mm Q.C. Female V 56131 V 56135	6.4mm Q.C. Female V 56134 V 56136 V 56138	8mm Q.C. Female V 56137	9.5mm Q.C. Female V 56140
				
6.4mm Q.C. Female V 56142 V 56144 V 561452	6.4mm Q.C. Female N 561411 N 561431 N 561452	9.5mm Q.C. Female V 561451	Bullet male V 56146 V 56148 V 56155	Bullet male N 561471 N 561491 Red and blue nylon bullets will mate with each other
				
Bullet Female V 56150 V 56152 V 56157	Bullet female N 561511 N 561531	Butt Connector V 56154 V 56156 V 56158	Heatshrink Butt Connector H 56251 H 56252 H 56253	End Connector V 562061 V 562081 V 562101
	Red and blue nylon bullets will mate with each other			

PRE-INSULATED CRIMP TERMINALS

The part numbers below supercede any similar part catalogued elsewhere. Other types available as special order.

V Vinyl insulation
Suit 2.5 - 3mm
Auto Cable

V Vinyl insulation
Suit 4mm
Auto Cable

V Vinyl insulation
Suit 5 - 6mm
Auto Cable

H Adhesive lined heatshrink
Suit 2.5 - 3mm
Auto Cable

H Adhesive lined heatshrink
Suit 4mm
Auto Cable

H Adhesive lined heatshrink
Suit 5 - 6mm
Auto Cable



3mm Fork

V 56163
V 56165



4mm Fork

V 56162
V 56166



5mm Fork

V 56164
V 56168



3mm Ring

V 56169
V 561751



4mm Ring

V 56170
V 56176
V 56184



5mm Ring

V 56172
V 56178
V 56186



6mm Ring

V 56174
V 56180
V 56188



8mm Ring

V 56175
V 56182
V 56190



9.5mm Ring

V 56183
V 56192



13mm Ring

V 56193



562020
White ferrule.
Cable: 0.5mm²
to 2mm auto



562021
Blue ferrule.
Cable: 0.75mm²
to 2.5mm auto



562019
Red ferrule.
Cable: 1.0mm²
to 3mm auto



562022
Black ferrule.
Cable: 1.5mm² to
4mm auto



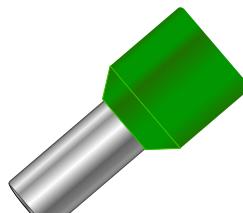
562022
Black dual ferrule.
Cable: 2x 1.5mm²
to 2x 4mm auto



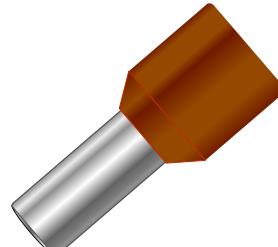
562023
Grey ferrule.
Cable: 2.5mm² to
5mm auto



562024
Orange ferrule.
Cable: 4mm²



562025
Green ferrule.
Cable: 6mm² to
6mm auto



562026
Brown ferrule.
Cable: 10mm² to
8B&S auto



561601
Scotchlock.
Suits 2-3mm Auto.
4 wire exits.

UNINSULATED CRIMP TERMINALS

The part numbers below supercede any similar part catalogued elsewhere. Other types available as special order.
 Closed ring terminals are ideal for soldering and crimping. They can be crimped with a closed barrel crimper that crimps the underside of the barrel - not along the seam - such as our 16209 ratchet crimper.

				
562241 6.3mm open barrel non-locking (tangless) female QC terminal. Tinned brass material. For 3-4mm auto cable.	56209 6.3mm female locking terminal. Suits 21511 & 215112 housings. For 3-4mm auto cable.	56196 8mm female locking flag suit terminal. Suits sealed beams, H4, H6, H7 and flasher housings. For 4mm auto cable.	562035 Female 4mm bullet terminal. Tinned brass. For 3mm auto cable	562313 3.2mm closed ring. Suit 2-3mm auto cable
				562314 4mm closed ring. Suit 2-3mm auto cable
56244 Insulating sleeve suit 562241	561961 8mm female locking terminal. Suits H4, H6, H7, sealed beam & flasher relay housings. For 3-4mm auto cable.	21510 6.3mm male locking terminal suits many connector housings. Tinned brass material. For 3-4mm auto cable	562032 Male 4mm bullet terminal. Tinned brass. For 3mm auto cable.	562315 5mm closed ring. Suit 3-4mm auto cable
				562316 6mm closed ring. Suit 2-3mm auto cable
21500 6.3mm female locking terminal suits many connector housings. Tinned brass material. For 3-4mm auto cable.	56195 6.3mm female non-locking (tangless) flag terminal. Tinned brass material. For 3mm auto cable.	215101 6.3mm male locking terminal suits many connector housings. Tinned brass material. For 5mm auto cable	562039 Insulating sleeve. Suit 562035	562325 5mm closed ring. Suit 4mm auto cable
				562326 6mm closed ring. Suit 4mm auto cable
215001 6.3mm female locking terminal suits many connector housings. Tinned brass material. For 5mm auto cable.	56197 Insulating sleeve suit 56195		562038 Insulating sleeve. Suit 562032.	562328 8mm closed ring. Suit 4mm auto cable
				562356 6mm closed ring. Suit 5-6mm auto cable
				562358 8mm closed ring. Suit 5-6mm auto cable

CONNECTORS

A range of connectors for a variety of applications. We also carry a range of waterproof connectors that can be line mounted or panel mounted and a range of enclosures to meet most needs.

We also carry stud connectors and buss bars for power distribution applications.



21280

Terminal strip with wire protectors.12 way.20A. 2.5mm diameter tunnels.

21281

Terminal strip with wire protectors.12 way.30A. 3.3mm diameter tunnels.

21282

Terminal strip with wire protectors.12 way.35A. 3.9mm diameter tunnels.

21283

Terminal strip with wire protectors.12 way.50A. 4.8mm diameter tunnels.



82105

Heavy duty accessory socket. All brass body. 6.3mm Q.C. terminals. 20A rated.

Mates with **82106** and **83406** with adapter collar removed.

83406

Heavy duty lighter and accessory plug. Fits standard cigarette lighter sockets & accessory sockets. Fits **82105** with adapter collar removed.

Fits **21205, 21206, 21560, 21561, 21566** with adapter collar fitted.



IP65

21138

Waterproof 8 way junction box fitted with 6 cable glands and 21018 junction block. Ideal size allows access for many wires. Strip can be optionally double layered with up to 8 terminals per stud. OEM made for large trailer manufacturers. Outer dimensions: 80x180x70mm. Extra junction block nuts: **16050**. Can be customised to special order.

STUD CONNECTORS

A range of stud connectors for power distribution applications. Junction blocks are used for single to multi-circuit connections while buss bars are used for high current source to supply power to high or medium current applications. All our stud connectors have encapsulated studs for intrinsic safety and are made from high temperature materials.



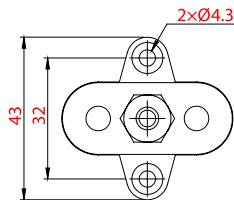
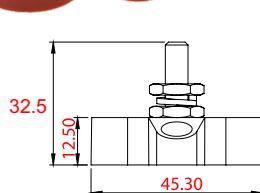
21008

Black insulated M8 stud.
Glass fibre reinforced
nylon enclosed base.
For use up to 48VDC.



21009

Red insulated M8 stud.
Glass fibre reinforced
nylon enclosed base.
For use up to 48VDC.



21011

1 Way Junction Block.
● 8mm stud.
● 60(W)x30(H)x26(D)



21015

5 Way Junction Block.
● 5mm studs.
● 115(W)x30(H)x19(D)



21018

8 Way Junction block.
● 5mm studs.
● 162(W)x30(W)x19(D)



26040

Jumper Stud.

- Feed through panel type.
- Black insulator cover.



26041

Jumper Stud.

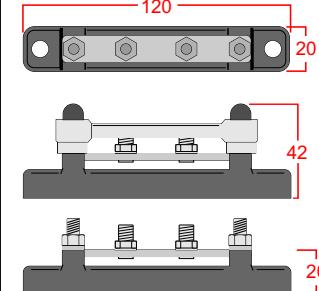
- Feed through panel type.
- Red insulator cover.



21012

4 Way Buss Bar

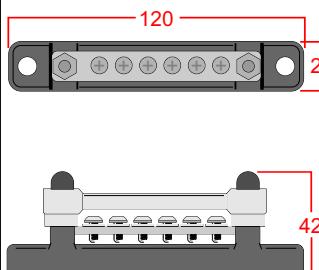
- Four 6mm studs
- 300VAC / 48VDC
- 130AAC / 150ADC
- Polycarbonate cover
- Stainless steel fasteners
- Nickle plated buss bar
- One piece nylon base block
- 120(W)x42(H)x20(D)



21016

8 Way Buss Bar

- 2x 6mm studs + 6x M4 screws
- 300VAC / 48VDC
- 130AAC / 150ADC
- Polycarbonate cover
- Stainless steel fasteners
- Nickle plated buss bar
- One piece nylon base block
- 120(W)x42(H)x20(D)



CONNECTOR HOUSINGS

A range of popular accessory socket panels and housings suit our 29mm diameter inserts (sockets and meters). Most available in two colours - black for general purpose automotive and white are popular for caravan, motorhome and marine.



21530
1 hole panel. Black.
60x42.5mm

21531
1 hole panel. White.
60x42.5mm



21536
4 hole panel. Black.
110(w)x100(h).
Accepts all 29mm connectors,
volt meters and switches.



21532
2 hole panel. Black.
105x42.5mm

21533
3 hole panel. White.
105x42.5mm



21534
3 hole panel. Black.
150x42.5mm



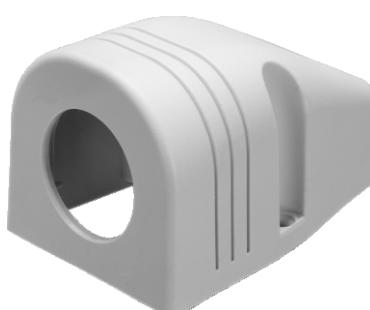
21542
2 hole housing. Black.
98(w)x50(h)x77(d)mm



21543
2 hole housing. White.
98(w)x50(h)x77(d)mm



21540
1 hole housing. Black.
53(w)x50(h)x80(d)mm



21541
1 hole housing. White.
53(w)x50(h)x80(d)mm



21544
3 hole housing. Black.
150(w)x50(h)x76(d)mm

ACCESSORY CONNECTORS

A range of popular 29mm circular sockets and meters. Most are available in two colours - black for general purpose automotive and white for RV and marine. Inserts can be used in existing panels to thicknesses shown below.



21550

Volt meter. Red LED.
5-30VDC. Black.
37(dia)x30(d)mm.
Panel thickness up to 10mm



21553

Volt/Amp meter. Red LED.
5-30VDC / 0-10A. Black.
37(dia)x47(d)mm.
Panel thickness up to 25mm



21567

Quick 3.0 & 4.0 charger outlet.
12 / 24VDC in.
Panel thickness up to 25mm.
USB A socket - 36W
USB C socket - 80W
Protected from over voltage,
over current, over temperature,
reverse polarity, short circuit.



21560

Accessory socket
12V/20A. Black.
37(dia)x50(d)mm.
Panel thickness up to 25mm

21561
As above in white



21562

Dual USB charger outlet.
5V/1.2A + 5V/2.1A. Black.
37(dia)x48(d)mm.
Panel thickness up to 28mm

21563
As above in white



21564

Engel type socket
12V/20A. Black.
37(dia)x50(d)mm.
Panel thickness up to 25mm



21570

Engel type plug.
12V/20A. Black. Fits **21564**



21538

Quick cover suits 21550, 21551,
21566, 21548 with terminals.
All others when fitted with
terminals in thick panels.



21566

Merit type socket
12V/20A. Black.
37(dia)x37(d)mm.
Panel thickness up to 15mm



21548

Illuminated rocker switch.
Suits all 29mm panels.
12VDC / 10A

50A HIGH CURRENT CONNECTORS

High current storage cell (SC) connectors are also known generically as 'Anderson Connectors'.

Our SC connectors mate with competitor brand equivalents and feature silver plated contacts that are self wiping during the mating and unmating cycle. The connector housings are not weatherproof and should be kept away from corrosive elements.

- Accepts 8B&S cable
- Stainless steel terminal retention springs
- Contact resistance: 200 uOhm
- Mating/unmating force: 5kg
- Design mating cycles: 10,000
- Insulation withstand: 2200VDC

Key pattern



21050

50A grey (keyed) connector kit.
Interconnects with black housings.

Key pattern



21058

50A red (keyed) connector kit.

Key pattern



21059

50A blue (keyed) connector kit.

Key pattern



21060

50A black (keyed) connector kit.
Interconnects with grey housings.

Key pattern



21061

50A yellow (keyed) connector kit.



21051

Black 50A supply end surface mounting SC connector kit.

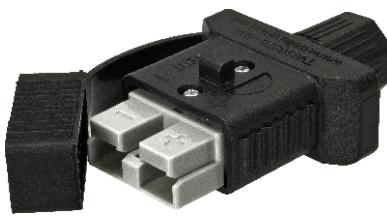
- Spring hinged lid and rear seal helps keep out contaminants
- Supplied with 21050 connector
- Holds all colour 50A connectors



21051R

Red 50A supply end surface mounting SC connector kit.

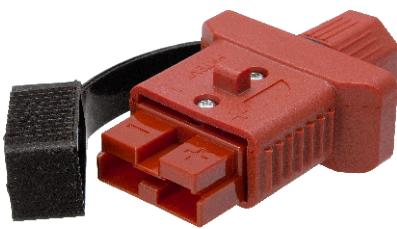
- Spring hinged lid and rear seal helps keep out contaminants
- Supplied with 21058 connector
- Holds all colour 50A connectors



21053

Black 50A load end line plug SC connector kit.

- Rubber cap and rear cable gland helps keep out contaminants
- 12V LED indicates live voltage
- Supplied with 21050 connector
- Holds all colour 50A connectors



21053R

Red 50A load end line plug SC connector kit.

- Rubber cap and rear cable gland helps keep out contaminants
- 12V LED indicates live voltage
- Supplied with 21058 connector
- Holds all colour 50A connectors



21052

Spare terminal suit all 50A SC connectors.



21054

Black 50A SC connector supply end panel mounting kit.

- Spring hinged lid and rear seal helps keep out contaminants
- Supplied with 21050
- Holds all colour 50A connectors

50A HIGH CURRENT CONNECTORS

High current storage cell (SC) connectors are also known generically as 'Anderson Connectors'.

Our SC connectors mate with competitor brand equivalents and feature silver plated contacts that are self wiping during the mating and unmating cycle. The connector housings are not weatherproof and should be kept away from corrosive elements.

- Accepts 8B&S cable
- Stainless steel terminal retention springs
- Contact resistance: 200 uOhm
- Contact retention force: 22.7kg
- Design mating cycles: 10,000
- Voltage rating: 600VDC



57247

Black protective soft cap suit all 50A SC connectors.
For capping in-line housings.



57251

Black protective hard cap suit all 50A SC connectors.
For capping mounted housings.



57245

Pull handle suit all 50A housings.



21062

Supply end boot suit all 50A SC connectors.

- Rubber housing helps keep out contaminants to IP64
- Mates with 21062 kit for an in-line sealed connection
- Tapered cable sleeves suits various diameter cables



21063

Load end boot suit all 50A SC connectors.

- Rubber housing helps keep out contaminants to IP64
- Mates with 21062 kit for an in-line sealed connection
- Tapered cable sleeves suits various diameter cables



21066

50A SC connector surface mount housing kit

- Supplied unassembled with 50A grey SC connector
- Matte black PA66 nylon
- Stainless steel fixing screws
- 90x90x55mm

120A HIGH CURRENT CONNECTORS

High current storage cell (SC) connectors are also known generically as 'Anderson Connectors'.

Our SC connectors mate with competitor brand equivalents and feature silver plated contacts that are self wiping during the mating and unmating cycle. The connector housings are not weatherproof and should be kept away from corrosive elements.

- Accepts 3B&S cable
- Stainless steel terminal retention springs
- Contact resistance: 200 uOhm
- Mating/unmating force: 9kg
- Design mating cycles: 10,000
- Voltage rating: 600VDC



21120

120A grey (keyed) connector kit.



21128

120A red (keyed) connector kit.



21123

Pull handle suit 21120.



21121

Black protective rubber cap suit all 120A SC connectors.
For capping in-line housings.



21122

Red protective rubber cap suit all 120A SC connectors.
For capping in-line housings.



21124

Supply end boot suit all 120A SC connectors.

- Rubber housing helps keep out contaminants to IP64
- Mates with 21125 kit for an in-line sealed connection
- Tapered cable sleeves suits various diameter cables



21125

Load end boot suit all 120A SC connectors.

- Rubber housing helps keep out contaminants to IP64
- Mates with 21124 kit for an in-line sealed connection
- Tapered cable sleeves suits various diameter cables

175A HIGH CURRENT CONNECTORS

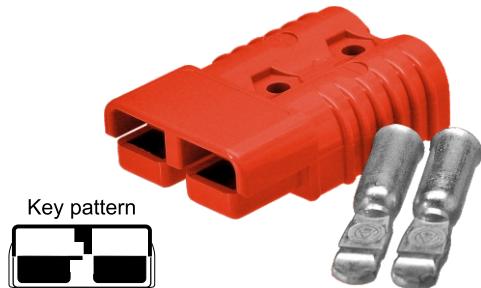
High current storage cell (SC) connectors are also known generically as 'Anderson Connectors'.

Our SC connectors mate with competitor brand equivalents and feature silver plated contacts that are self wiping during the mating and unmating cycle. The connector housings are not weatherproof and should be kept away from corrosive elements.

- Accepts 0B&S cable
- Stainless steel terminal retention springs
- Contact resistance: 200 uOhm
- Mating/unmating force: 11kg
- Design mating cycles: 10,000
- Voltage rating: 600VDC



21175
175A grey (keyed) connector kit.



21178
175A red (keyed) connector kit.



57248
Black protective soft cap suit
all 175A SC connectors.
For capping in-line housings.



21172
Red protective soft cap suit
all 175A SC connectors.
For capping in-line housings.



57252
Black protective hard cap suit
all 175A SC connectors.
For capping mounted housings.



57246
Pull handle suit all 175A housings.



21176
Black 175A supply end surface
mounting SC connector kit.

- Spring hinged lid and rear seal
helps keep out contaminants
- Supplied with 21175 connector



21180
Supply end boot suit all 175A SC
connectors.

- Rubber housing helps keep out
contaminants to IP64
- Mates with 21181 kit for an
in-line sealed connection
- Tapered cable sleeves suits
various diameter cables



21181
Load end boot suit all 175A SC
connectors.

- Rubber housing helps keep out
contaminants to IP64
- Mates with 21180 kit for an
in-line sealed connection
- Tapered cable sleeves suits
various diameter cables



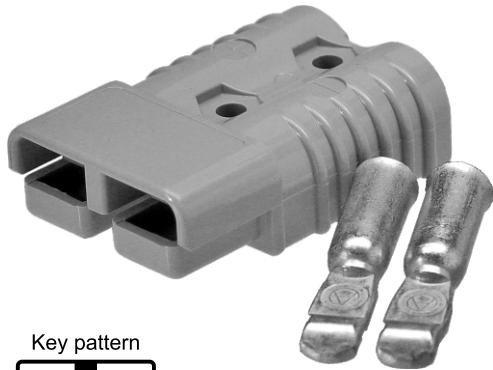
21177
Terminal suit all 175A housings

350A HIGH CURRENT CONNECTORS

High current storage cell (SC) connectors are also known generically as 'Anderson Connectors'.

Our SC connectors mate with competitor brand equivalents and feature silver plated contacts that are self wiping during the mating and unmating cycle. The connector housings are not weatherproof and should be kept away from corrosive elements.

- Accepts 00B&S cable
- Stainless steel terminal retention springs
- Contact resistance: 200 uOhm
- Mating/unmating force: 14kg
- Design mating cycles: 10,000
- Voltage rating: 600VDC



Key pattern



21350

350A grey (keyed) connector kit.



57249

Black protective soft cap suit
all 350A SC connectors.
For capping in-line housings.



21351

Red protective soft cap suit
all 350A SC connectors.
For capping in-line housings.



57253

Black protective hard cap suit
all 350A SC connectors.
For capping mounted housings.



57246

Pull handle suit all 350A housings



21352

Terminal suit all 350A housings

TRAILER CONNECTORS

Our 7 & 12pin flat connectors conform to Australian (ADR) Standards. 7pin flat plugs can mate with 12pin flat sockets. The 13pin to 12pin & 7pin adapters provide as much functionality that is possible between the European and Australian standards. Where there is no common pin-for-pin functionality between the two standards, no wiring is included.



82202

12pin flat trailer ADR socket to 7pin ADR flat plug adapter.

- Connects vehicles fitted with 7pin ADR standard tow socket to trailers fitted with ADR standard 12pin flat plug.
- Provides functionality for Stop/ Tail / Indicators / Reverse Lights / Electric Brakes
- Tinned conductors at grub screws
- Overall length 225mm



82200

7pin flat trailer ADR socket to 13pin ISO plug adapter.

- Connects vehicles fitted with 13pin European tow socket to trailers fitted with Australian standard 7pin flat plug.
- Provides functionality for Stop/ Tail / Indicators / Reverse Lights / Vehicle's Coupling Indicator
- Left and right hand park circuits maintain isolation within vehicle's electrical system.
- 13pin plug parking cap included.
- Tinned conductors at grub screws
- Overall length 250mm



82201

12pin flat trailer ADR socket to 13pin ISO plug adapter.

- Connects vehicles fitted with 13pin European tow socket to trailers fitted with Australian standard 12pin flat plug.
- Provides functionality for Stop/ Tail / Indicators / Reverse Lights / Vehicle's Coupling Indicator / 25A Continuous +V supply / Separate 25A ground for continuous supply
- Left and right hand park circuits maintain isolation within vehicle's electrical system.
- 13pin plug parking cap included.
- Tinned conductors at grub screws
- Overall length 250mm



01510

7pin pre-wired flat trailer ADR socket

- Pre-wired with 3mm auto (10A) circular trailer cable
- Cable length 1.5M
- All circuits colour coded to Australian Standard

TRAILER CONNECTORS

Our 7 flat connectors conform to Australian (ADR) Standards. 7pin flat plugs can mate with 12pin flat sockets. The 9pin connectors will not mate with 7 or 12pin flat connectors and are meant to be solution to specific applications requiring an auxiliary high current supply connection.



10140

7pin flat Metal trailer socket.
Screw-less Quick-fit housing. Gland cable clamp.
Stainless steel grub screws.



10141

7pin flat Metal trailer plug.
Screw-less Quick-fit housing.
Three way cable clamp - Gland, flat and round.
Stainless steel grub screws.



10143

Integrated 9pin flat trailer socket.
7pin trailer plug with 2x50A connections for remote battery,
fridges, accessories, charge wiring, etc.
Three way cable clamp suits trailer cable and 8B&S cable.
Solderless connections, stainless steel grub screws.



10144

Integrated 9pin flat trailer plug.
7pin trailer plug with 2x50A connections for remote battery,
fridges, accessories, charge wiring, etc.
Three way cable clamp suits trailer cable and 8B&S cable.
Solderless connections, stainless steel grub screws.

TRAILER CONNECTORS - TRUCK TYPE

Our connectors meet all relevant ADR standards.

The ADR/SAE 7pin connector is the latest heavy duty version of the national truck standard and feature floating contacts for extended mating/unmating cycles and ease of operator use.

The DIN/ISO/ADR 7pin connector is the older national truck standard and is still in current use.

82062BL

7pin DIN/ISO/ADR trailer socket.

- 30A @12V rated contacts
- Accepts 6mm auto cable
- Numbered terminals
- Mates with 82161
- Alloy housing
- Spring loaded lid



10162 - Bulk pack of 25pcs

82161BL

7pin DIN/ISO/ADR trailer plug.

- 30A @12V rated contacts
- Accepts 6mm auto cable
- Numbered terminals
- Mates with 82062
- Alloy housing



10161 - bulk pack of 25pcs

820941

7pin ADR/SAE trailer socket.

- 40A @12V rated contacts
- Accepts 6mm auto cable
- Accepts 8B&S earth return cable
- Numbered terminals
- Mates with 821941
- Alloy housing
- Supplied with terminal boot



820941/25 - bulk pack of 25pcs



821941

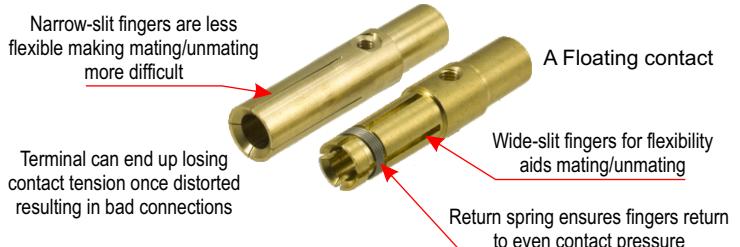
7pin ADR/SAE trailer plug.

- 40A @12V rated contacts
- Accepts 6mm auto cable
- Accepts 8B&S earth return cable
- Numbered terminals
- Floating contacts for long service life
- Mates with 820941
- Alloy housing with strain relief spring

821941/25 - bulk pack of 25pcs

Why Floating Contacts are better

Trailer connectors require more mating force due to their size and friction. Most users 'wriggle' the plug to make unmating easier and, because of this action, can distort and damage the plug's terminals over time. A floating contact is designed to allow easier mating/unmating and withstand 'wriggling' through the use of a spring wrapped around the terminal's fingers. This system maintains both uniform contact pressure and alignment.



TRAILER CONNECTORS - SPECIALTY

Our 2pin SAE connectors are used for high current trailer applications up to 200A such as load covers and winches. The DIN/ISO 13pin connector is the European car standard trailer connector but is ideal for many other applications.



82096

2pin SAE trailer socket.

- 200A rated contacts
- 6mm lug bolts
- Polarity marked centres
- Mates with 82196
- Alloy housing
- Supplied with boot



82196

2pin SAE trailer plug.

- 200A rated contacts
- Accepts up to 6B&S cable
- Polarity marked centres
- Mates with 82096
- Alloy housing



82097

13pin DIN/ISO trailer socket

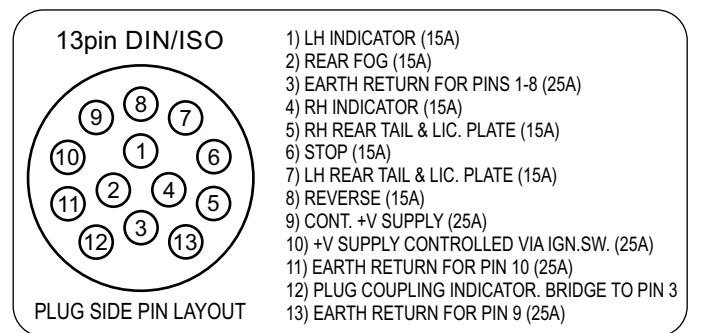
- European standard car socket
- Screw terminals
- ABS housing
- Mates with 82197



82197

13pin DIN/ISO trailer plug

- European standard car plug
- Screw terminals
- ABS housing
- Bayonet easy-action
- Mates with 82097



TRAILER CONNECTORS - ABS/EBS

We offer ABS connectors that are keyed specifically keyed for either 12 or 24V systems to avoid mismatching as well as a universal plug that is keyed for both 12 and 24V sockets. Caution should be used when deciding which plug to use. Our EBS suzi-coil uses universally keyed plugs.



82090

7pin ABS/EBS trailer socket.

- Keyed for 12V systems
- Screw terminals
- Mates with 82190 12V plug
- Mates with 82192 multivolt plug

82091

7pin ABS/EBS trailer socket.

- Keyed for 24V systems
- Screw terminals
- Mates with 82191 plug
- Mates with 82192 multivolt plug



82190

7pin ABS/EBS trailer plug.

- Keyed for 12V systems
- Screw terminals
- Mates with 82090 12V socket

82191

7pin ABS/EBS trailer plug.

- Keyed for 24V systems
- Screw terminals
- Mates with 82091 24V socket

82192

7pin ABS/EBS trailer plug.

- Keyed for both 12 & 24V systems
- Screw terminals
- Mates with 82091 12V socket
- Mates with 82092 24V socket

82088

Flat mounting bracket

- Suits all ABS/EBS sockets
- 4mm mill finish Aluminium
- Suits M8 fasteners
- Interchanges with pre-wired sockets



82089

Angle mounting bracket

- Suits all ABS/EBS sockets
- 4mm mill finish Aluminium
- Suits M8 fasteners
- Interchanges with pre-wired sockets



19605

Plugged long-tail universal EBS coil.

- Keyed for 12 & 24V ABS sockets
- 2x40A, 5x15A (max) cores
- 70mm O.D. coil diameter
- Abrasion resistant Hytrel over-sheath
- 4M working length



19606

Plugged short-tail universal EBS coil.

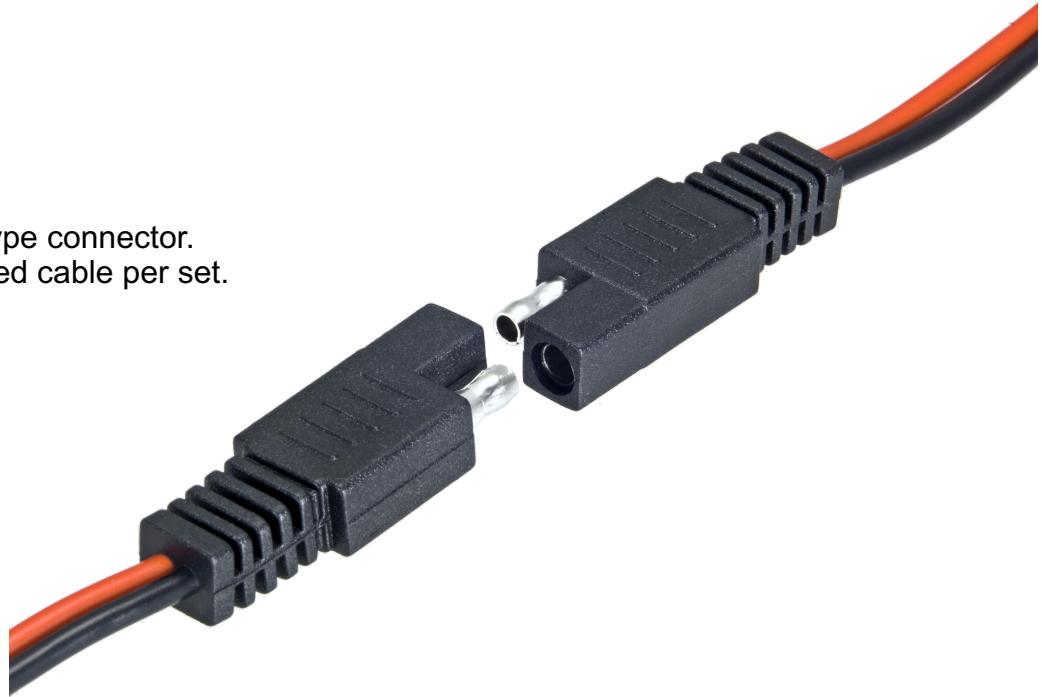
- Keyed for 12 & 24V ABS sockets
- 2x40A, 5x15A (max) cores
- 70mm O.D. coil diameter
- Abrasion resistant Hytrel over-sheath
- 3M working length

PRE-WIRED CONNECTORS

A range of pre-wired connectors for a variety of applications. We also carry a range of sealed connectors for harsh environment applications for repair, re-power and manufacturing markets.

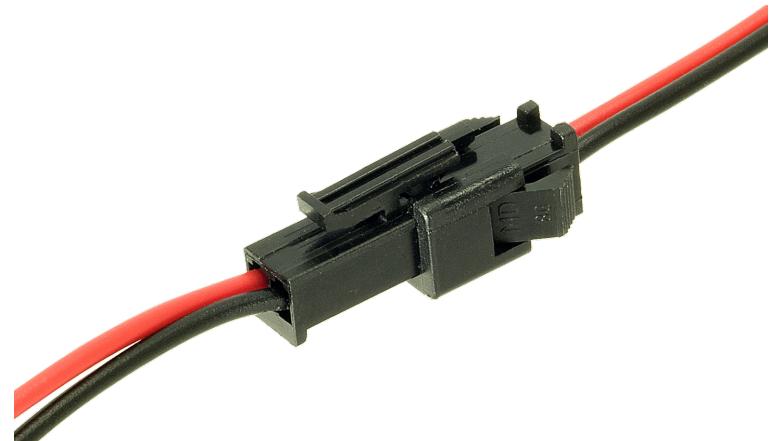
21702

Pre-wired molded 2pin bullet type connector.
Pre-wired with 720mm of 10A rated cable per set.



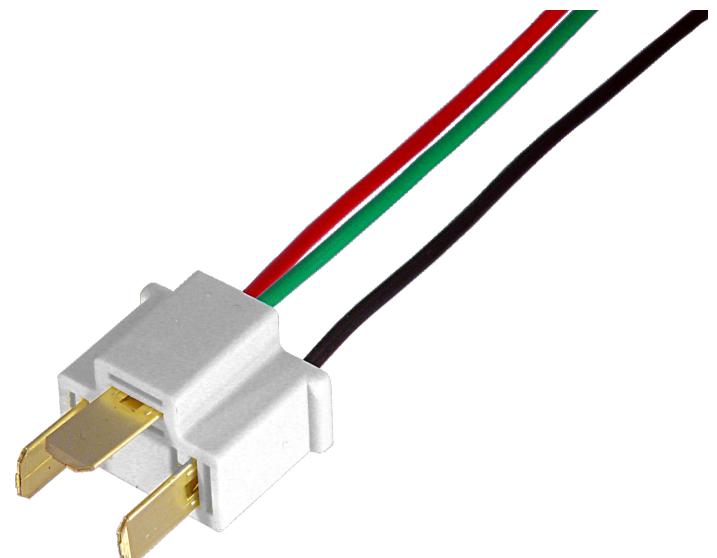
21710

Miniature latching 2pin connector.
Pre-wired with 480mm of 3A rated cable per set.
Mated body size: 22mm(L) x 10x10mm (max.)



21005

3pin H4 & H6 globe plug.
Commonly used in H.I.D & drivelamp triggers,
globe & flasher unit wiring extensions and
headlamp polarity swap circuits.
Pre-wired with 150mm of 5A rated cable.



TAIL LAMP HARNESES

Our tail lamp harnesses provide a quick way to connect aftermarket tail lamps to OEM wiring harnesses. They are aimed at tray top manufacturers and fitters and work with our pre-wired plug and play tail lamp assemblies. All harnesses are minimum 600mm in length. The DT connector can simply be cut off for other lamp applications.



21720

Suit Mitsubishi Triton MN to 6pin male DT connector. Can be used with our pre-plugged tail lamps. 600mm length. Sold as pairs.



21744

Suit LDV T60 to 6pin male DT connector. Can be used with our pre-plugged tail lamps. 600mm length. Sold as pairs.



21722

Suit Nissan D40 to 6pin male DT connector. Can be used with our pre-plugged tail lamps. 600mm length. Sold as pairs.



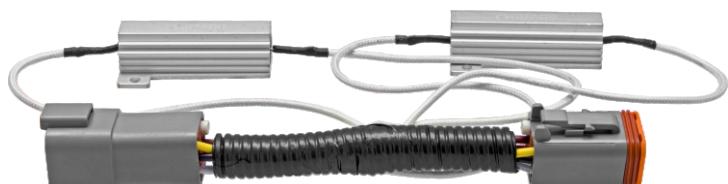
21738

6pin DT plug to tails. Vehicle side wiring for use with our pre-wired lamps. 600mm length. Sold as pairs.



21728

Suit Nissan NP300 to 6 pin male DT connector. Can be used with our pre-plugged tail lamps. 600mm length. Sold as pairs.



90007

Resistor harness. Suits our plug and play OEM to aftermarket lamp adapter cables. Dummy loads stop and indicators circuits. Sold as pairs.

TAIL LAMP HARNESES

Our tail lamp harnesses provide a quick way to connect aftermarket tail lamps to OEM wiring harnesses. They are aimed at tray top manufacturers and fitters and work with our pre-wired plug and play tail lamp assemblies. All harnesses are minimum 600mm in length. The DT connector can simply be cut off for other lamp applications.



21724

Suit Isuzu D-Max to 6 pin male DT connector. Can be used with our pre-plugged tail lamps. 600mm length. Sold as pairs.



21732

Suit Ford Ranger & Mazda BT50 to 6 pin male DT connector. Can be used with our pre-plugged tail lamps. Sold as pairs.



21726

Suit GMH Colorado to 6 pin male DT connector. Can be used with our pre-plugged tail lamps. 600mm length. Sold as pairs.



21734

Suit Toyota Hi-Lux to 6 pin male DT connector. Can be used with our pre-plugged tail lamps. 600mm length. Sold as pairs.



21730

Suit Mitsubishi MQ to 6 pin male DT connector. Can be used with our pre-plugged tail lamps. 600m length. Sold as pairs.



21740

600mm extension harness suit Toyota Landcruiser and Hi-Lux. 600mm length. Sold as pairs.

PLUG AND PLAY TAIL LAMPS

Our tail lamp harnesses provide a quick way to connect aftermarket tail lamps to OEM wiring harnesses.

The plug & play ready to suit our pre-plugged tail lamp 86710P (popular among tray top manufacturers) and other lamps such as 93SO282ARWM2LR which comes with pre-wired load resistors.

All harnesses are minimum 600mm in length. The DT connector can simply be cut off for other lamp applications.



86710P

Tail lamp assembly fitted with 6pin DT receptacle.

Fits our 90005 bracket
Stop/tail/indicator/reverse/reflector.
Fully ADR approved.
Accepts bayonet globes (not included).

275(W)x100(H)x58(D)mm.



93SO282ARWM2LR

LED tail lamp assembly fitted with 6pin DT receptacle.

Stop/tail/indicator/reverse with load resistors.
12V applications. Fully ADR approved.
Sealed to IP67.
284(W)x100(H)x27(D)mm.



90225P - Left hand

90226P - Right hand

- Plug and play ready with 6pin DT receptacle
- Fits our 90005 bracket
- LED combination tail lamp
- Stop/tail/sequential indicator/fog/reverse/reflector
- ADR approved (ECER3, r6,r7,r10,r23,r38)
- 10-30VDC multivoltage use
- Popular two bolt mounting - 238x100x37mm
- Sealed to meet IP67
- Polycarbonate lens
- Horizontal mounting
- TIR Optics



90007

Resistor harness. Suits our plug and play OEM to aftermarket lamp adapter cables.
Dummy loads stop and indicators circuits.
Sold as pairs.



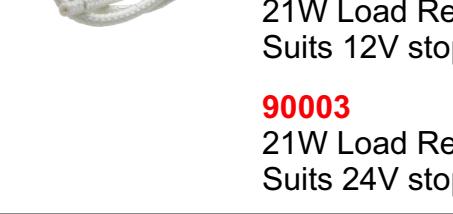
90002

10W Load Resistor
Suits 12V park circuits
sold in pairs



90001

21W Load Resistor
Suits 12V stop or indicator circuits
sold in pairs



90003

21W Load Resistor
Suits 24V stop or indicator circuits
sold in pairs

MULTI-PIN SOLDER CONNECTORS

These low cost multi-pin connectors feature all chrome plated metal bodies with integral cable clamp on the plug side. They use fixed solder type terminals, so, don't require special crimping tools and have good current carrying capability. These connectors are not weatherproof.



28820

2pin deck plug with gasket/cap

- Nickel plated brass
- 12V/25A terminals
- 8-10mm circular cable clamp range
- 16mm body diameter
- 32mm socket mounting flange
- 41mm mated length

19mm



28821

2pin military/aviation connector

- Nickel plated brass
- 12V/10A terminals
- 4-5mm circular cable clamp range
- 10mm body diameter
- 15mm socket mounting flange
- 33mm mated length

12mm



28822

2pin connector

- Nickel plated brass
- 12V/10A terminals
- 6-8mm circular cable clamp range
- 13mm body diameter
- 19mm socket mounting flange
- 34mm mated length

16mm



28824

4pin connector

- Nickel plated brass
- 12V/10A terminals
- 6-8mm circular cable clamp range
- 13mm body diameter
- 19mm socket mounting flange
- 34mm mated length

16mm



28826

6pin connector

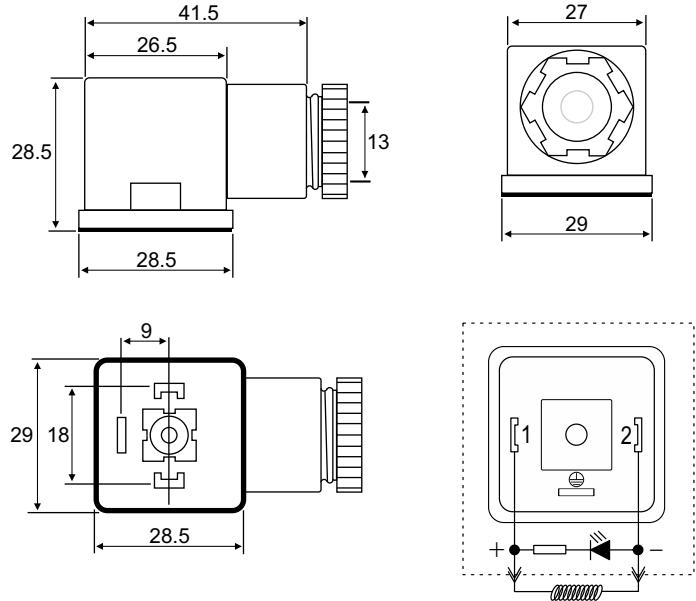
- Nickel plated brass
- 12V/6A terminals
- 6-8mm circular cable clamp range
- 13mm body diameter
- 19mm socket mounting flange
- 34mm mated length

16mm

DIN43650 PNEUMATIC CONNECTORS

D.I.N Standard 43650 connectors commonly used on pneumatic control systems such as air solenoids. Terminations are via screw clamp. Models fitted with an LED indicator can operate on 12V & 24VDC circuits.

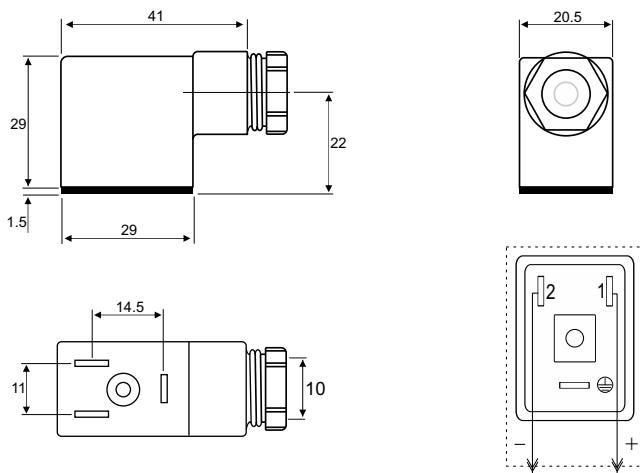
DIN43560A



21321

DIN43650A connector kit.
With clear case and 12-24VDC LED.

DIN43560B



21320

DIN43650B connector kit.
Black housing. No LED.

MULTIWAY CONNECTORS

A range of popular and inexpensive non-environmentally sealed connectors for general purpose applications that aren't exposed to the elements. Each circuit is rated to 20A. Derating factors may apply for multiple circuits.

The gender of a housing is determined by the housing alone - not the type of terminal it accepts. Some series of housings can accept both male & female terminals (reverse gender), so using this methodology saves confusion when ordering.

Material is black Nylon66 with a maximum service temperature rating of 106°C - higher than standard automotive cables.



21511
1 circuit
male housing



21501
1 circuit
female housing



215112

1 circuit male housing suit
sender units with a slide-on
button terminal.



21512
2 circuit male
'tee' housing



21502
2 circuit female
'tee' housing



56209

Female locking terminal
suit 21511 & 215112 housings.
Quality tinned brass material.
For cable up to 4mm auto.



21513
3 circuit
male housing

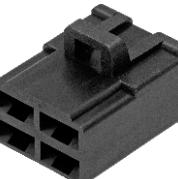


21503
3 circuit
female housing



21500

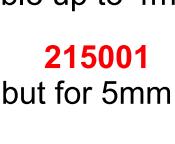
Female locking terminal
suit all male housings except
21511 & 215112 (use 56210)
Quality tinned brass material.
For cable up to 4mm auto.



21514
4 circuit
male housing

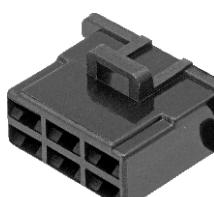


21504
4 circuit
female housing



215001

As 21500 but for 5mm auto cable.



21516
6 circuit
male housing



21506
6 circuit
female housing



21510

Male locking terminal suit
all female housings.
Quality tinned brass material.
For up to 4mm auto cable



21518
8 circuit
male housing



21508
8 circuit
female housing



As 21510 but for 5mm auto cable

**STOCK BOX AVAILABLE.
SEE OUR KITS SECTION
FOR MORE DETAILS**

COMPACT 1 CONNECTORS

Commonly used with Bosch system fuel pumps, injectors, engine control, pressure & temperature sensors in most European cars, 4WDs and light trucks.

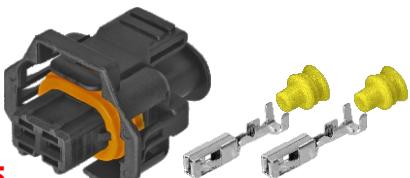
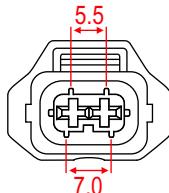
JPT/BSK terminals are used on sensors. BDK terminals are used in diesel systems. Some can be used with boots where applicable.

Specifications: • Cable Range: 0.35 to 1mm² / 2-3mm Auto • Current Range: 0-14A • Temperature Range: -40°C to +150°C
• Watertight to IP54K, IP69K when assembled correctly



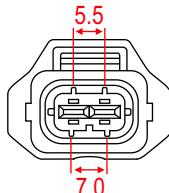
28402
Male 2 circuit connector kit.

Supplied with JPT BSK terminals.
As Bosch 1.928.403.698 Code1



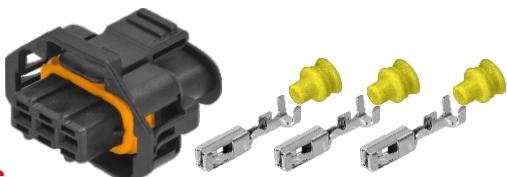
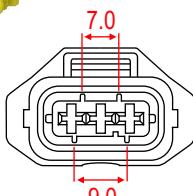
28405
Male 2 circuit connector kit.

Supplied with BDK terminals.
Suit Bosch diesel applications.
As Bosch 1.928.403.874 Code1



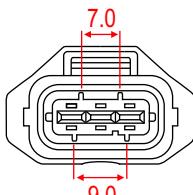
28403
Male 3 circuit connector kit.

Supplied with JPT BSK terminals.
As Bosch 1.928.403.870 Code1



28406
Male 3 circuit connector kit.

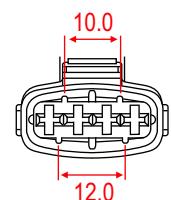
Supplied with BDK terminals.
Suit Bosch diesel applications.
As Bosch 1.928.403.968 Code1
Mates with 28407.



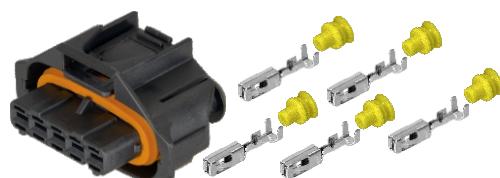
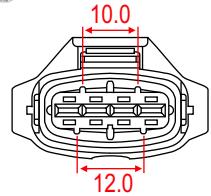
28407
Female 3 circuit connector kit.
Supplied with BDK terminals.
Mates with 28406.



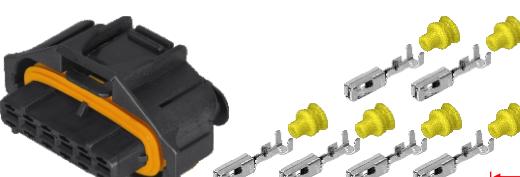
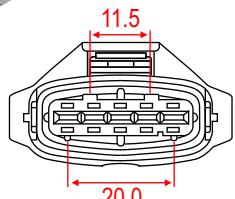
28404
Male 4 circuit connector kit.
Supplied with JPT BSK terminals.
As Bosch 1.928.404.745



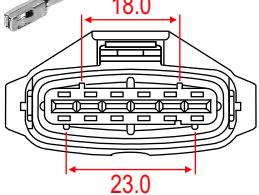
28408
Male 4 circuit connector kit.
Supplied with BDK terminals.
Suit Bosch diesel applications.
As Bosch 1.928.403.736 Code1



28409
Male 5 circuit connector kit.
Supplied with BDK terminals.
Suit Bosch diesel applications.
As Bosch 1.928.403.836 Code1



28410
Male 6 circuit connector kit.
Supplied with BDK terminals.
Suit Bosch diesel applications.
As Bosch 1.928.403.740 Code1



SUPERSEAL CONNECTORS

Superseal series is a general purpose sealed automotive connector. Commonly used with sensors, oil pressure senders, water temperature monitors, LED lighting etc. Preassembled secondary lock ensures correct terminal insertion and seal retention..

Superseal Specifications:

- Cable Range: 0.5 to 1mm² / 2-3mm Auto
- Current Range: 0-14A
- Temperature Range: -40°C to +125°C
- Resistance: 3milliOhm@10mA
- Watertight to IEC529 / IP67 when assembled correctly



28701
Female 1 circuit
connector kit



28701/10
Female 1 circuit
housing only



28711
Male 1 circuit
connector kit



28711/10
Male 1 circuit
housing only



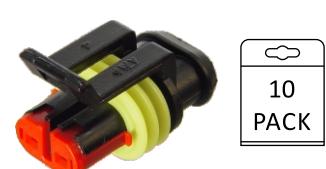
28702
Female 2 circuit
connector kit



28702/10
Female 2 circuit
housing only



28712
Male 2 circuit
connector kit



28712/10
Male 2 circuit
housing only



28703
Female 3 circuit
connector kit



28703/10
Female 3 circuit
housing only



28714
Male 4 circuit
connector kit



28714/10
Male 4 circuit
housing only



28713
Male 3 circuit
connector kit



28713/10
Male 3 circuit
housing only



28704
Female 4 circuit
connector kit



28704/10
Female 4 circuit
housing only

SUPERSEAL CONNECTORS

Superseal series is a general purpose sealed automotive connector. Commonly used with sensors, oil pressure senders, water temperature monitors, LED lighting etc. Preassembled secondary lock ensures correct terminal insertion and seal retention..

Superseal Specifications:

- Cable Range: 0.5 to 1mm² / 2-3mm Auto
- Current Range: 0-14A
- Temperature Range: -40°C to +125°C
- Resistance: 3milliOhm@10mA
- Watertight to IEC529 / IP67 when assembled correctly



28705
Female 5 circuit connector kit



28705/10
Female 5 circuit housing only



28715
Male 5 circuit connector kit



28715/10
Male 5 circuit housing only



28706
Female 6 circuit connector kit



28706/10
Female 6 circuit housing only



28716
Male 6 circuit connector kit



28716/10
Male 6 circuit housing only



28799
Stock box assortment.
436pcs. See the end
of this section for
more details.



28797
Rubber boot suit
2,3 & 4 circuit housings



28798
Rubber boot suit
5 & 6 circuit housings



28790
Female terminal.
Suit 3mm auto cable.



28791
Male terminal.
Suit 3mm auto cable.



28795
Wire seal.
Suit 3mm auto cable.



28796
Cavity plug.



16207
Ratchet crimper suit
Superseal terminals and
seals in one step.

CONNECTOR STOCK BOXES

Our stock boxes offer an assortment of connectors are based on popular types with the correct quantity mixes based on common usage. They are ideal for field service vehicles and workshops alike and represent exception value for money.



27990

264 piece DT type sealed connectors

Contains:

- 27901** - 12 circuit female housing + wedge x 1
- 27902** - 2 circuit female housings + wedges x 17
- 27903** - 3 circuit female housings + wedges x 3
- 27904** - 4 circuit female housings + wedges x 6
- 27906** - 6 circuit female housings + wedges x 3
- 27908** - 8 circuit female housing + wedge x 1
- 27911** - 12 circuit male housing + wedge x 1
- 27912** - 2 circuit male housings + wedges x 17
- 27913** - 3 circuit male housings + wedges x 3
- 27914** - 4 circuit male housings + wedges x 6
- 27916** - 6 circuit male housings + wedges x 3
- 27918** - 8 circuit male housing + wedge x 1
- 27921** - plastic mounting bracket x 1
- 27030** - solid socket terminal suit 3mm auto cable x 100
- 27031** - solid pin terminal suit 3mm auto cable x 100
- 27035** - removal tool suit 3mm cable x 1



28690

402 piece Weatherpack type sealed connectors.

Contains:

- 28101** - 1 circuit female housings x 8
- 28102** - 2 circuit female housings x 11
- 28103** - 3 circuit female housings x 7
- 28104** - 4 circuit female housings x 6
- 281041** - 4 circuit female housings x 8
- 28106** - 6 circuit female housings x 6
- 28111** - 1 circuit male housings x 10
- 28112** - 2 circuit male housings x 11
- 28113** - 3 circuit male housings x 8
- 281132** - 3 circuit male housing x 1
- 281133** - 3 circuit male housing x 4
- 28114** - 4 circuit male housings x 8
- 281141** - 4 circuit male housings x 8
- 28116** - 6 circuit male housings x 6
- 28504** - male 4mm auto cable terminal x 100
- 28514** - female 4mm auto cable terminal x 100
- 28602** - wire seal suit 2.5 - 4mm auto cable x 100



28799

436 piece Superseal type sealed connectors.

Contains:

- 28701** - 1 circuit female housings x 20
- 28702** - 2 circuit female housings x 20
- 28103** - 3 circuit female housings x 10
- 28104** - 4 circuit female housings x 8
- 28105** - 4 circuit female housings x 6
- 28106** - 6 circuit female housings x 8
- 28711** - 1 circuit male housings x 10
- 28712** - 2 circuit male housings x 20
- 28713** - 3 circuit male housings x 10
- 28714** - 4 circuit male housings x 10
- 28715** - 4 circuit male housings x 6
- 28716** - 6 circuit male housings x 8
- 28790** - male 2-4mm auto cable terminal x 100
- 28791** - female 2-4mm auto cable terminal x 100
- 28795** - wire seal suit 2-4mm auto cable x 100



21520

144 piece Multiway basic connectors.

Contains:

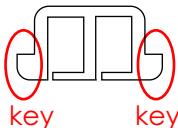
- 21501** - 1 circuit female housings x 10
- 21502** - 2 circuit female housings x 20
- 21503** - 3 circuit female housings x 10
- 21504** - 4 circuit female housings x 12
- 21506** - 6 circuit female housings x 10
- 21508** - 8 circuit female housings x 8
- 21511** - 1 circuit male housings x 10
- 21512** - 2 circuit male housings x 22
- 21513** - 3 circuit male housings x 10
- 21514** - 4 circuit male housings x 12
- 21516** - 6 circuit male housings x 10
- 21518** - 8 circuit male housings x 10
- 21500** - male 3-4mm auto cable terminal x 100
- 21510** - female 3-4mm auto cable terminal x 100
- 56209** - female 3-4mm auto cable terminal x 10

2PIN CONNECTORS

General purpose sealed automotive connectors used extensively in engine, sensor and body systems. Female connector halves are commonly embedded into sensor or controlled unit.

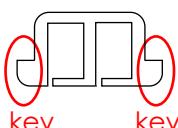
MP150.02 connector has a one piece integral wire seal. The wire is fed through the seal and housing from the rear. The conductor is crimped onto the terminal and then pulled back into the housing. These are known as a "pull-to-seat" (PTS) terminal.

All other terminals using separate wire seals require the wire seal and conductor to be crimped to the terminal before insertion.



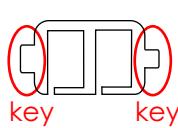
28215

Male MP150.2 (PTS) 2 circuit connector kit.
Dual bottom keys.



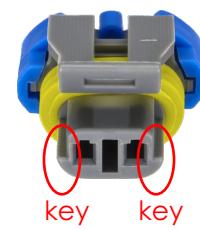
28216

Male MP150.2 (PTS) 2 circuit connector kit.
Dual bottom keys.



28217

Male MP150.2 (PTS) 2 circuit connector kit.
Dual mid keys.



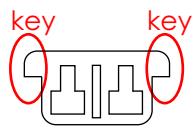
28218

Male MP150 2 circuit connector kit.
Dual bottom keys.



28219

Male MP150 2 circuit connector kit.
Centre key.



28212

Male MP280 2 circuit connector kit.
Top keys.
Suit 2-3mm auto / 0.5-1mm² CSA cable



28221

Male MP280 2 circuit connector kit.
No TPA. Quick release tabs. Centre key.
Suit 2-3mm auto / 0.5-1mm² CSA cable



28222

Male MP280 2 circuit connector kit.
With TPA. Centre key.
Suit 2-3mm auto / 0.5-1mm² CSA cable



28223

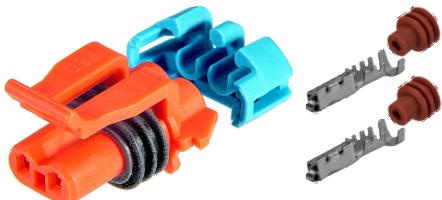
Male MP280 2 circuit connector kit.
With TPA. Centre key.
Suit 2-3mm auto / 0.5-1mm² CSA cable.

2PIN CONNECTORS

General purpose sealed automotive connectors used extensively in engine, sensor and body systems. Female connector halves are commonly embedded into sensor or controlled unit.

MP150.02 connector has a one piece integral wire seal. The wire is fed through the seal and housing from the rear. The conductor is crimped onto the terminal and then pulled back into the housing. These are known as a "pull-to-seat" (PTS) terminal.

All other terminals using separate wire seals require the wire seal and conductor to be crimped to the terminal before insertion.



282123

Male MP150 2 circuit connector kit.
Centre key.



28417

2 circuit connector kit.
Older models with US Bosch EV6.
Suits LS2/LS3/LS7/LS9.



28452

2 circuit connector kit.
Suit Sumotomo HX series.
Injector and sensor applications.



28411

2 circuit connector kit.
Suit Bosch EV6 system.



28416

2 circuit connector kit.
Suit US Bosch EV6.



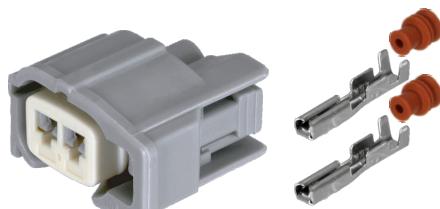
28453

2 circuit connector kit.
Suit Keihin fuel injectors.
Honda B & D series engines
after 1997 to current.



28412

2 circuit connector kit.
Suit Bosch EV1 low profile
fuel injectors and sensors.



28450

2 circuit connector kit.
Suit Sumotomo TS series.
Toyota coil and injector.



21301

2 circuit housing with quick
release locking spring.
Suit Bosch system.
JPT terminals.



28413

2 circuit connector kit.
Suit US Bosch EV6.
Later model GM, Ford, Dodge.
Suits LS2/LS3/LS7/LS9.



28451

2 circuit connector kit.
Suit Delphi Micropack 064 series.
LS & Multec 2 injector connector.



21310

2 circuit connector kit.
Mates with 21301, 21312.

2PIN CONNECTORS

General purpose sealed automotive connectors used extensively in engine, sensor and body systems. Female connector halves are commonly embedded into sensor or controlled unit.

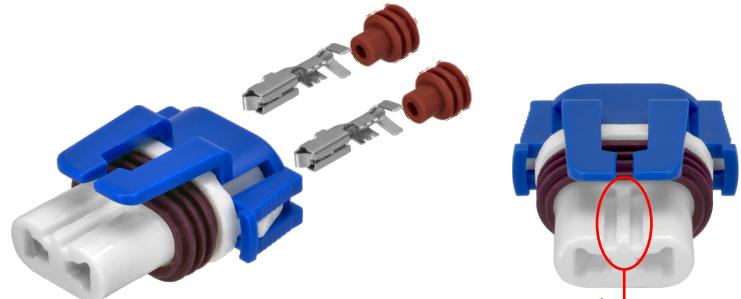
MP150.02 connector has a one piece integral wire seal. The wire is fed through the seal and housing from the rear. The conductor is crimped onto the terminal and then pulled back into the housing. These are known as a "pull-to-seat" (PTS) terminal.

All other terminals using separate wire seals require the wire seal and conductor to be crimped to the terminal before insertion.



21302

Boot suit 21301 and 21310
2 circuit housings.



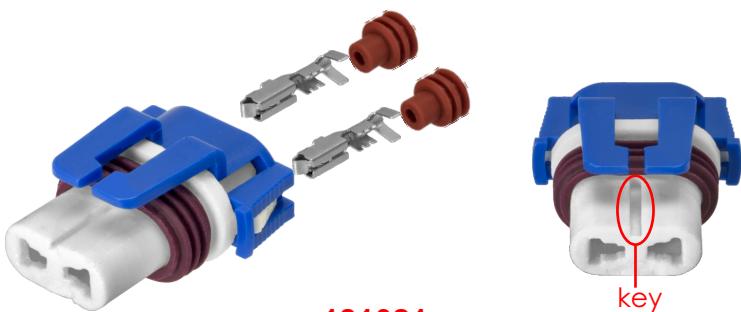
181011

2 circuit MP280 connector kit.
High temperature ceramic housing.
Suits HB3/9005 halogen globes.
Dual centre key.



21314

2 circuit connector kit.
Suit AMP Econoseal system.
Nippondenso applications



181021

2 circuit MP280 connector kit.
High temperature ceramic housing.
Suits HB4/9006 halogen globes.
Single centre key.



21312

2 circuit MP280.1 (PTS) connector kit.
Suit U.S. Bosch system.
Pull-to-seat terminals.



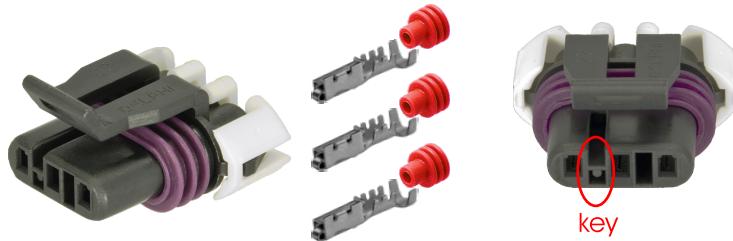
28457

2 circuit connector kit.
Suit Japanese vehicles.

3PIN CONNECTORS

General purpose sealed automotive connectors used extensively in engine, sensor and body systems. Female connector halves are commonly embedded into sensor or controlled unit.

MP150.02 connector has a one piece integral wire seal. The wire is fed through the seal and housing from the rear. The conductor is crimped onto the terminal and then pulled back into the housing. These are known as a "pull-to-seat" (PTS) terminal.
All other terminals using separate wire seals require the wire seal and conductor to be crimped to the terminal before insertion.



4PIN CONNECTORS

General purpose sealed automotive connectors used extensively in engine, sensor and body systems. Female connector halves are commonly embedded into sensor or controlled unit.

MP150.02 connector has a one piece integral wire seal. The wire is fed through the seal and housing from the rear. The conductor is crimped onto the terminal and then pulled back into the housing. These are known as a "pull-to-seal" (PTS) terminal.

All other terminals using separate wire seals require the wire seal and conductor to be crimped to the terminal before insertion.



Male MP150.2 (PTS) 4 circuit connector kit.
Dual mid keys.



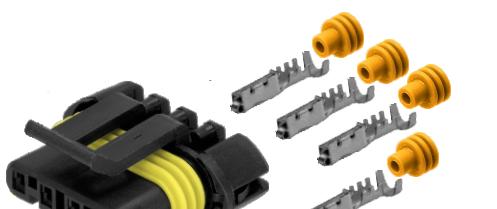
Male MP150.2 (PTS) 4 circuit connector kit.
Dual bottom keys.



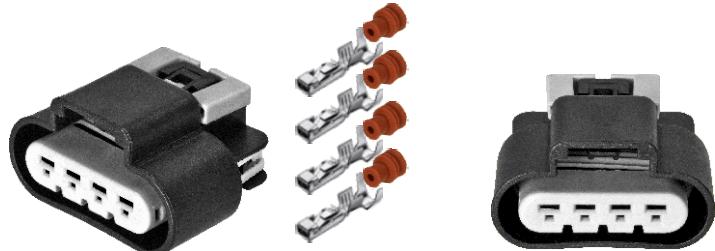
Male MP150 4 circuit connector kit.
Right hand key.



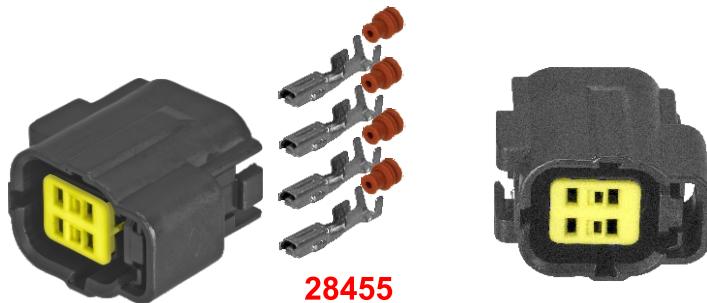
Male MP150 4 circuit connector kit.
Left hand key.



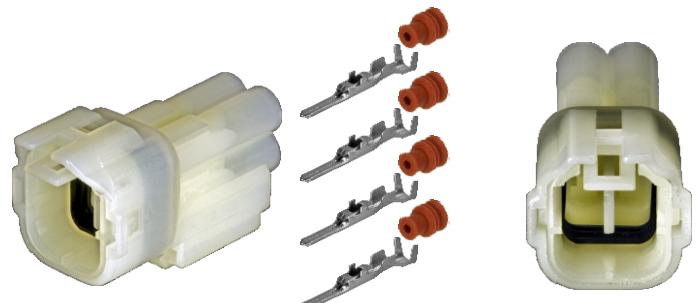
Male MP150 4 circuit connector kit.
Mid keys.



Male GT280 4 circuit connector kit.



4 circuit connector kit.
Suit AMP Econoseal J MkII Series 070 connectors.



4 circuit connector kit.
Suit Japanese vehicle sensor applications.



4 circuit housing with locking spring.
Suit Bosch system. Boot to suit: 21304

5-7PIN CONNECTORS

General purpose sealed automotive connectors used extensively in engine, sensor and body systems. Female connector halves are commonly embedded into sensor or controlled unit.

MP150.02 connector has a one piece integral wire seal. The wire is fed through the seal and housing from the rear. The conductor is crimped onto the terminal and then pulled back into the housing. These are known as a "pull-to-seat" (PTS) terminal.

All other terminals using separate wire seals require the wire seal and conductor to be crimped to the terminal before insertion.



Male MP150.2 5 circuit connector kit.
Dual mid keys



28231

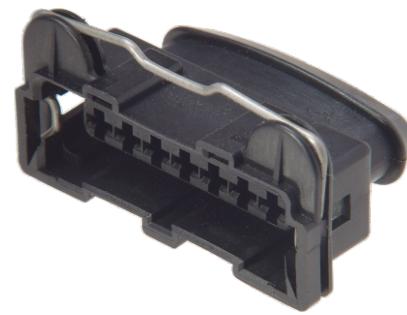
key

Male MP150.2 6 circuit connector kit.
Dual bottom keys



21307

5 circuit housing with locking spring.
Suit Bosch system.



21308

7 circuit housing with locking spring.
Suit Bosch system.



21304

Boot suit 21303, 21306, 21307
housings

WEATHER-PACK CONNECTORS

Weather-Pack series is a general purpose sealed automotive connector. Connectors shown on this page are common types for general purpose connections. Terminals and wire seals shown at the end of this section.

Weather-pack Specifications:

- Cable Range: 0.35-3.0mm²
- Current Range: 0-20A
- Temperature Range: -40°C to +125°C
- Resistance: <10milliOhm@20mV
- Voltage Drop: <3.0mV/A
- Terminal Centres: 7.7mm



28111
Male housing.
1 circuit.



**COC
key**

28113

Male 3 circuit housing.
Double keyed.
Suit Delphi 1bar
MAP sensor.



28101
Female housing.
1 circuit.



28106
Female housing.
6 circuit.



28112
Male housing.
2 circuit.



28114
Male housing.
4 circuit.



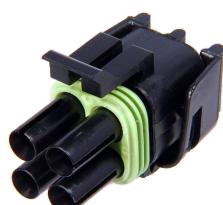
28102
Female housing.
2 circuit.



28103
Female housing.
3 circuit.



28113
Male housing.
3 circuit.



281141
Male housing.
4 circuit.



28104
Female housing.
4 circuit.



28116
Male housing.
6 circuit.



281041
Female housing.
4 circuit.

TERMINALS, SEALS & REMOVAL TOOLS

More specialised connectors are sold as kits and include terminals and seals.

Popular housings and those that accept a choice of terminals and/or seals to accommodate various cable sizes, terminals and seals are sold separately. All connectors are stocked in bulk and at considerable cost savings - (Minimum Order Quantities apply). The same applies for most terminals and wire seals. Seals are made from silicon rubber and the minimum wire diameter should be adhered to for good sealing. The maximum diameter can often be exceeded due to the material's elasticity. See our Wiring Tool section for applicable crimp tools.

Male Weatherpack



28513 - 3mm auto
28514 - 4mm auto
28515 - 5mm auto

*NOTE: Weatherpack can be used reverse gendered.

Female Weatherpack



28503 - 3mm auto
28504 - 4mm auto
28505 - 5mm auto

*NOTE: Weatherpack can be used reverse gendered.

MetriPack 150



12048074 - 3mm auto.

MetriPack 150.2 pull-to-seat



12124075 - 3mm auto.

MetriPack 280



12077411 - 2-3mm auto.

MetriPack 280.01 pull-to-seat



12077939 - 3mm auto.
 Suits 21312 U.S. Bosch connector.

Male Terminal



28458
 Suit 28456 & 28457
 2-2.5mm auto.

Male JPT



21310 - 2-3mm auto.

Female JPT



21300 - 2-3mm auto.

Female Compact1 BSK



28400 - 2-3mm auto.

Female Compact1 BDK



28401 - 2-3mm auto.

Weatherpack and MP280* housings & 6.35- 6.5mm cavities



28610
 Cavity plug



28602
 Wire seal.
 1.7 to 2.5mm dia. Cable.



28604
 Wire seal.
 2.0 to 3.5mm dia. Cable.



28608
 Wire seal.
 3.5 to 5mm dia. Cable.

MP150, GT280, JPT, COMPACT1 & 5 - 5.7mm cavities



28601
 Wire seal.
 1.5 to 2.5mm dia. Cable.

3.5 - 3.9mm cavities



28600
 Wire seal.
 1.3 to 2mm dia. Cable.

4 - 4.6mm cavities



28603
 Wire seal.
 1.3 to 2mm dia. Cable.

Suit Superseal



28795
 Wire seal.
 2 to 3mm dia. Cable.



28796
 Cavity plug.

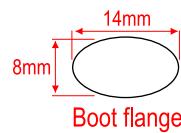
*When using the above seals in MP280 housings, a minimum of 4mm dia. cable should be used to ensure good sealing.



28011
 Terminal removal tool.
 Suit Weatherpack.

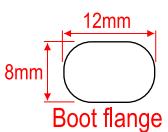
CONNECTOR BOOTS

Connector boots are primarily used to provide a means of cable support such as a cable strain relief. They also enhance appearance and provide an attachment point for conduit or other harnessing accessory. Protection from fluids and contamination is normally integrated, and designed into, the connector housing itself. Fluids can also be trapped within the boot if precautions are not taken. Boots and backshells to suit Deutsch connectors are shown elsewhere in this catalogue.



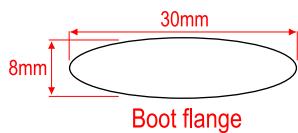
28797

Boot suit **28702, 28703, 28704, 28712, 28713, 28714** Superseal type housings.



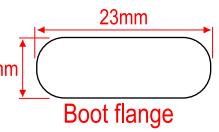
21302

Boot suit **21301** and **21312** Bosch/AMP JPT type housings.



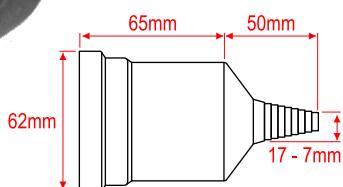
28798

Boot suit **28705, 28706, 28715, 28716** Superseal type housings.



21304

Boot suit **21303, 21306, 21307** Bosch/AMP JPT type housings.



24074

Boot suit 55mm diameter circular housings.
Suits **24072**.

DEUTSCH DT SERIES CONNECTORS

Deutsch standard transport connectors.

- Accept cable sizes 3 and 4mm auto (18 to 14 AWG)
- 1500VAC rated
- -65°C to 125°C rated
- 13A continuous rating per circuit
- Submersible to 3'
- Vibration tested to 20G
- Shock tested to 50G
- Many mounting and application options available



27902
2 circuit female DT
housing & wedge.
Use with terminals
27031/033/041/043

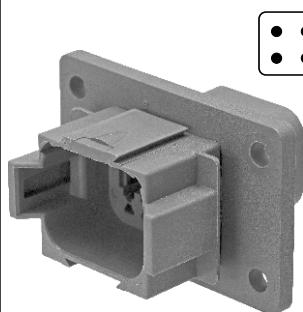
279021
As above but with
heatshrink adapter



27904
4 circuit female DT
housing & wedge.
Use with terminals
27031/033/041/043

279041

As above but with
heatshrink adapter



DT04-08PA-L012-W
As 27908 but with
mounting flange



DT04-12PA-LE01
As 27901 but with
sealed mounting flange.

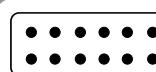
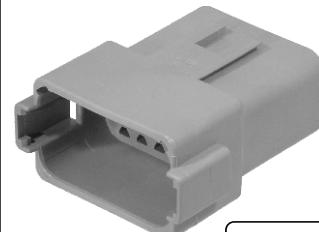


27903
3 circuit female DT
housing & wedge.
Use with terminal
27031/033/041/043

279031
As above but with
heatshrink adapter



DT04-4P-L012-W
As 27904 but with
mounting flange



27901
12 circuit female DT
housing & wedge.
Use with terminals
27031/033/041/043

279011

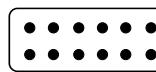
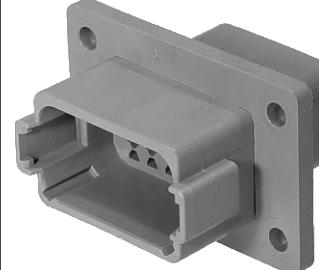
As above but with
heatshrink adapter



DT04-3P-L012-W
As 27903 but with
mounting flange



27906
6 circuit female DT
housing & wedge.
Use with terminals
27031/033/041/043



DT04-12PA-L012-W
As 27901 but with
mounting flange



279211

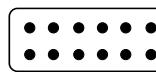
Mounting bracket suit
8 way DT female
housings only



DT04-3P-P007
DT tee connector
for J-1939 C.A.N. bus.
Use with
DT06-3S-P006.



27908
8 circuit female DT
housing & wedge.
Use with terminals
27031/033/041/043



279212

Metal mounting bracket
suit 2,4,5,6 & 12 way DT
female housings only.
11mm mounting hole.

DEUTSCH DT SERIES CONNECTORS

Deutsch standard transport connectors.

- Accept cable sizes 3 and 4mm auto (18 to 14 AWG)
- 1500VAC rated
- -65°C to 125°C rated
- 13A continuous rating per circuit
- Submersible to 3'
- Vibration tested to 20G
- Shock tested to 50G
- Many mounting and application options available



27912

2 circuit male DT housing & wedge.
Use with terminals
27030/032/040/042

279121

As above but with
heatshrink adapter



27914

4 circuit male DT housing & wedge.
Use with terminals
27030/032/040/042



27911

12 circuit male DT housing & wedge.
Use with terminals
27030/032/040/042



27035

Terminal removal tool.
Use with terminal
27030/031/032/033



27913

3 circuit male DT housing & wedge.
Use with terminal
27030/032/040/042

279131

As above but with
heatshrink adapter



27916

6 circuit male DT housing & wedge.
Use with terminals
27030/032/040/042



27046

Cavity plug suit DT housings. White.
Used to seal unused terminal cavities.



27045

Terminal removal tool.
Use with terminal
27040/041/042/043



27006

Wedge removal tool.
Suit DT,DTM,DTHD.



27004

Generic crimp tool.
Use with terminals
27030/031/032/033
27040/041/042/043



DT06-3S-P006

DT terminating resistor
for J-1939 C.A.N. bus.
Use with
DT04-3P-P007.



27918

8 circuit male DT housing & wedge.
Use with terminals
27030/032/040/042

WIRE SIZE TO TERMINAL

3mm auto / 18-16AWG - 27030
4mm auto / 16-14AWG - 27040
Gold plated terminals available

OPTIONS

-Caterpillar spec.
(black with seal retainer)

ACCESSORIES

-Soft boots
-Straight backshells
-90° backshells

SPARE PARTS

-Rib seals
-Wedge locks

DEUTSCH DT - CATERPILLAR SPEC.

Deutsch Caterpillar specification transport connectors.

- Accept cable sizes 3 and 4mm auto (18 to 14 AWG)
- 13A continuous rating per circuit
- Shock tested to 50g
- 1500VAC rated
- Submersible to 3'
- Integrated wire seal retainer
- -65°C to 125°C rated
- Vibration tested to 20g



27901C
12 circuit female DT
housing & wedge.
Use with terminals
27031, 27033, 27041, 27043



27902C
2 circuit female DT
housing & wedge.
Use with terminals
27031, 27033, 27041, 27043



27903C
3 circuit female DT
housing & wedge.
Use with terminals
27031, 27033, 27041, 27043



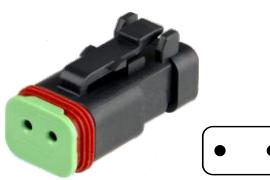
27904C
4 circuit female DT
housing & wedge.
Use with terminals
27031, 27033, 27041, 27043



27906C
6 circuit female DT
housing & wedge.
Use with terminals
27031, 27033, 27041, 27043



27908C
8 circuit female DT
housing & wedge.
Use with terminals
27031, 27033, 27041, 27043



27912C
2 circuit male DT
housing & wedge.
Use with terminals
27030, 27032, 27040, 27042



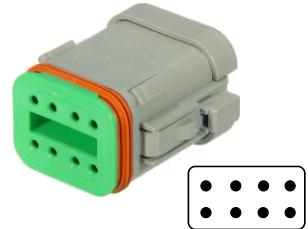
27913C
3 circuit male DT
housing & wedge.
Use with terminals
27030, 27032, 27040, 27042



27914C
4 circuit male DT
housing & wedge.
Use with terminals
27030, 27032, 27040, 27042



27916C
6 circuit male DT
housing & wedge.
Use with terminals
27030, 27032, 27040, 27042



27918C
8 circuit male DT
housing & wedge.
Use with terminals
27030, 27032, 27040, 27042



27911C
12 circuit male DT
housing & wedge.
Use with terminals
27030, 27032, 27040, 27042



27035
Terminal removal tool.
Use with terminals
27030, 27031, 27032,
27033



27045
Terminal removal tool.
Use with terminal
27040, 27041, 27042,
27043



27006
Wedge removal tool.
Suit DT, DTM, DTHD.



27004
Generic crimp tool.
Use with terminals
27030, 27031, 27032,
27033, 27040, 27041,
27042, 27043

ACCESSORIES

- Soft boots
- Straight backshells
- 90° backshells
- Mounting brackets

SPARE PARTS

- Rib seals
- Wedge locks

DEUTSCH DT BACKSHELLS

Deutsch's range of hard backshells suit their DT range of connectors. Whilst they do not increase the already high environmental rating of the connector, they are intended as a means to attach conduit, heatshrink or other forms harness covering. The backshells also act as a cable strain-relief.



Deutsch DT Connector Backshells

- Simply clip onto the DT housing prior to assembly
- Clips over loom tube of varying sizes - has multiple grip ranges
- Works with heashrink - has grip ridges for attaching adhesive lined heatshrink
- No tools required for assembly
- Quick to assemble hinged shell
- Black suits conduit
- Works with split and unsplit conduit sizes
- No tools required for disassembly
- Reusable
- Available in straight or 90° degree angle

P/No.	DT Housing	Angle	Suits Polyethylene Conduit	Suits Polyflex Conduit
DT2S-BS	27912	Straight	20007 / 200071 / 20010 / 200101	1200070 / 1200089 / 1200100
DT2S-BS90	27912	90°	20007 / 200071 / 20010 / 200101	1200070 / 1200089 / 1200100
DT2P-BS	27902	Straight	20007 / 200071 / 20010 / 200101	1200070 / 1200089 / 1200100
DT2P-BS90	27902	90°	20007 / 200071 / 20010 / 200101	1200070 / 1200089 / 1200100
DT3S-BS	27913	Straight	20007 / 200071 / 20010 / 200101	1200070 / 1200089 / 1200100
DT3S-BS90	27913	90°	20007 / 200071 / 20010 / 200101	1200070 / 1200089 / 1200100
DT3P-BS	27903	Straight	20007 / 200071 / 20010 / 200101	1200070 / 1200089 / 1200100
DT3P-BS90	27903	90°	20007 / 200071 / 20010 / 200101	1200070 / 1200089 / 1200100
DT4S-BS	27914	Straight	20007 / 200071 / 20010 / 200101	1200070 / 1200089 / 1200100
DT4S-BS90	27914	90°	20007 / 200071 / 20010 / 200101	1200070 / 1200089 / 1200100
DT4P-BS	27904	Straight	20007 / 200071 / 20010 / 200101	1200070 / 1200089 / 1200100
DT4P-BS90	27904	90°	20007 / 200071 / 20010 / 200101	1200070 / 1200089 / 1200100
DT6S-BS	27916	Straight	20007 / 200071 / 20010 / 200101	1200070 / 1200089 / 1200100
DT6S-BS90	27916	90°	20007 / 200071 / 20010 / 200101	1200070 / 1200089 / 1200100
DT6P-BS	27906	Straight	20007 / 200071 / 20010 / 200101	1200070 / 1200089 / 1200100
DT6P-BS90	27906	90°	20007 / 200071 / 20010 / 200101	1200070 / 1200089 / 1200100
DT8S-BS	27918	Straight	20010 / 200101	1200089 / 1200100 / 1200135
DT8S-BS90	27918	90°	20010 / 200101	1200089 / 1200100 / 1200135
DT8P-BS	27908	Straight	20010 / 200101	1200089 / 1200100 / 1200135
DT8P-BS90	27908	90°	20010 / 200101	1200089 / 1200100 / 1200135
DT12S-BS	27911	Straight	20010 / 200101 / 20013 / 200131 / 20016 / 200161	1200100 / 1200135 / 1200178
DT12S-BS90	27911	90°	20010 / 200101 / 20013 / 200131 / 20016 / 200161	1200100 / 1200135 / 1200178
DT12P-BS	27901	Straight	20010 / 200101 / 20013 / 200131 / 20016 / 200161	1200100 / 1200135 / 1200178
DT12P-BS90	27901	90°	20010 / 200101 / 20013 / 200131 / 20016 / 200161	1200100 / 1200135 / 1200178

DEUTSCH DT CONNECTOR BOOTS

Deutsch's range of soft boots suit their DT range of connectors. Whilst they do not increase the already high environmental rating of the connector, they are often used in situations where there is an esthetic / high performance requirement. The boots also provide an area for adhesive lined heat-shrinking conduit to a DT connector or cable strain-relief. Boots are available for DTM housings as special order.



DT2P-BT
Boot suit 27902 2pin female
DT housing.



DT8P-BT
Boot suit 27908 8pin female
DT housing.



DT4S-BT
Boot suit 27914 4pin male
DT housing.



DT3P-BT
Boot suit 27903 3pin female
DT housing.



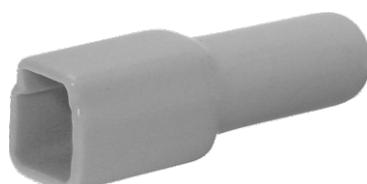
DT12P-BT
Boot suit 27901 12pin female
DT housing.



DT6S-BT
Boot suit 27916 6pin male
DT housing.



DT4P-BT
Boot suit 27904 4pin female
DT housing.



DT2S-BT
Boot suit 27912 2pin male
DT housing.



DT8S-BT
Boot suit 27918 8pin male
DT housing..



DT6P-BT
Boot suit 27906 6pin female
DT housing.



DT3S-BT
Boot suit 27913 3pin male
DT housing.



DT12S-BT
Boot suit 27911 12pin male
DT housing.

DEUTSCH DTM SERIES CONNECTORS

Deutsch mini transport connectors.

- For use with 2 to 2.5mm auto cable (24-20AWG)
- 1500VAC rated
- -55°C to 125°C rated
- 7.5A continuous rating per circuit
- Submersible to 3'
- Vibration tested to 20G
- Shock tested to 50G
- Options include mounting bracket and gold plated terminals



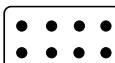
27942

2 circuit female DTM housing & wedge.
Terminals **27021/023**



27948

8 circuit female DTM housing & wedge.
Terminals **27021/023**



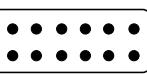
27943

3 circuit female DTM housing & wedge.
Terminals **27021/023**



27941

12 circuit female DTM housing & wedge.
Terminals **27021/023**



27944

4 circuit female DTM housing & wedge.
Terminals **27021/023**



27026

Cavity plug suit DTM housings. Red.
Used to seal unused terminal cavities



27946

6 circuit female DTM housing & wedge.
Terminals **27021/023**



27025

Terminal removal tool.
Use with terminals
27020/021/022/023



27921

Mounting bracket suit
2,3,4,6 & 12 way female
DTM housings



27006

Wedge removal tool.
Suit DT, DTM, DTHD.



279211

Mounting bracket suit
8 way female DTM
housings only



279212

Mounting bracket suit
2,3,4,6,12way female
DTM housings only



27005

Generic crimp tool.
Use with terminals
27020/021/022/023

SPARE PARTS

- Rib seals
- Wedge locks

TERMINAL OPTIONS

- Standard finish
- Gold plated

See terminals section
for more information.

DEUTSCH DTM SERIES CONNECTORS

Deutsch mini transport connectors.

- For use with 2 to 2.5mm auto cable (24-20AWG)
- 1500VAC rated
- -55°C to 125°C rated
- 7.5A continuous rating per circuit
- Submersible to 3'
- Vibration tested to 20G
- Shock tested to 50G
- Options include gold plated terminals and heatshrink adapter version



27952

2 circuit male DTM housing & wedge.
Terminals [27020/022](#)

279521

As above but with heatshrink adapter.
Terminals [27020/22](#)



27953

3 circuit male DTM housing & wedge.
Terminals [27020/022](#)

279531

As above but with heatshrink adapter.
Terminals [27020/022](#)



27954

4 circuit male DTM housing & wedge.
Terminals [27020/022](#)

279541

As above but with heatshrink adapter.
Terminals [27020/022](#)

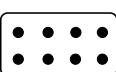


27956

6 circuit male DTM housing & wedge.
Terminals [27020/022](#)

279561

As above but with heatshrink adapter.
Terminals [27020/022](#)

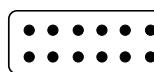


27958

8 circuit male DTM housing & wedge.
Terminals [27020/022](#)

279581

As above but with heatshrink adapter.
Terminals [27020/022](#)

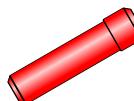


27951

12 circuit male DTM housing & wedge.
Terminals [27020/022](#)

279511

As above but with heatshrink adapter.
Terminals [27020/022](#)



27026

Cavity plug suit DTM housings. Red.
Used to seal unused terminal positions.



27005

Generic crimp tool.
Use with terminals
[27020/021/022/023](#)



27025

Terminal removal tool.
Use with terminal
[27020/021/022/023](#)



27006

Wedge removal tool.
Suit DT,DTM,DTHD.

ACCESSORIES

- Soft boots
- Straight backshells
- 90° backshells

SPARE PARTS

- Rib seals
- Wedge locks

TERMINAL OPTIONS

- Standard finish
- Gold plated

See terminals section for more information.

DEUTSCH SPECIALTY CONNECTORS

Deutsch specialty transport connectors fill a diverse range of applications.

Jiffy splices offer a quick, reusable and sealed solution to joining wires - either temporary or permanent.

DTHD and DTP power connectors offer a sealed solution for connections rated 25A and greater.

DTMN connectors are a non-environmentally miniature connector rated at 7.5A



DTHD04-1-12P

DTHD female housing.
Cable: 5mm auto.
Use with terminal 27051

DTHD04-1-8P

DTHD female housing.
Cable: 8B&S.
Use with terminal 27081



DTHD06-1-12S

DTHD male housing.
Cable: 5mm auto.
Use with terminal 27050

DTHD06-1-8S

DTHD male housing.
Cable: 8B&S.
Use with terminal 27080



27922

2 circuit female DTP
housing.
Use terminals 27051



27932

2 circuit male DTP
housing.
Use terminals 27050



27924

4 circuit female DTP
housing.
Use terminals 27051



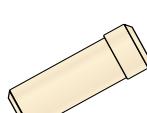
27934

4 circuit male DTP
housing.
Use terminals 27050



27921

Mounting bracket suit
DTHD and DTP female
connector housings



27046

Cavity plug suit DT
housings. White.
Used to seal unused
terminal cavities



27035

Terminal removal tool.
Use with terminals
27030/031/032/033



27045

Terminal removal tool.
Use with terminals
27040/041/042/043



27055

Terminal removal tool.
Use with terminals
27050/051/052/053



27065

Terminal removal tool.
Use with terminals
27080 and 27081



27006

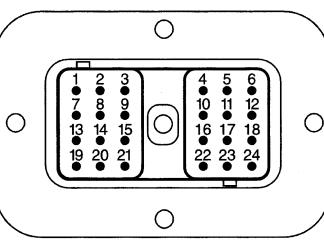
Wedge removal tool.
Suit DT,DTM,DTHD.

DEUTSCH DRC CONNECTORS

Deutsch DRC series bulkhead connectors.

Commonly used on heavy vehicles and machines. Larger shell size for greater circuit densities.

- Available in 3 key types
- 1500VAC rated
- -55°C to 125°C rated
- Submersible to 3'
- Vibration tested to 20g's
- Shock tested to 50g's
- Corrosion resistance per MIL-STD 1344



DRC12-24PA

24 circuit flange mount panel socket.'A' key.
Terminals: 27031 or 27041

DRC12-40PA

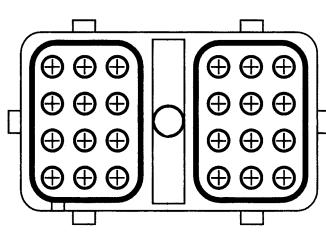
40 circuit flange mount panel socket.'A' key.
Terminals: 27031 or 27041

DRC12-40PB

40 circuit flange mount panel socket.'B' key.
Terminals: 27031 or 27041

DRC12-70PA

70 circuit flange mount panel socket.'A' key.
Terminals: 27031 or 27041

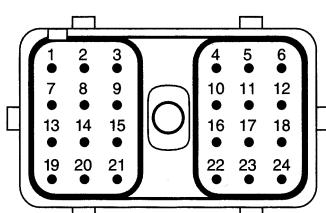


DRC16-24SA

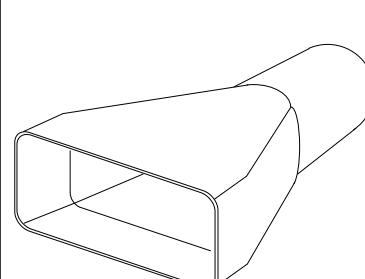
24 circuit line plug.
'A' key.
Terminals: 27030 or 27040

40 circuit line plug.
'A' key.
Terminals: 27030 or 27040

70 circuit line plug.
'A' key.
Terminals: 27030 or 27040



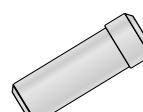
24 circuit line socket.
'A' key.
Terminals: 27031 or 27041



DRC24-BT
Soft boot suit 24pin DRC
plug housings

DRC40-BT
Soft boot suit 40pin DRC
plug housings

DRC70-BT
Soft boot suit 70pin DRC
plug housings



27046
Cavity plug suit DRC
housings. White.
Used to seal unused
terminal cavities.



27004
Generic crimp tool.
Use with terminals
27030, 27031,
27040, 27041



27035
Terminal removal tool.
Use with terminal
27030 and 27031



27045
Terminal removal tool.
Use with terminal
27040 and 27041

OPTIONS

- Other keying options
- Flange gaskets
- 50 circuit OEM versions
- Gold plated terminals

SPARE PARTS

- Face seals

DEUTSCH HD10 CONNECTORS

Deutsch HD10 connectors.

- Accept cable sizes 3 to 4mm auto (16 to 14 AWG)
- 13A continuous rating per circuit
- Shock tested to 50G
- 1500VAC rated
- Submersible to 3'
- Corrosion resistance per MIL-STD 1344
- -55°C to 125°C rated
- Vibration tested to 20G



HD10 line plug

Rotating locking collar
Accepts 3&4mm auto cable
Threaded accepts strain relief



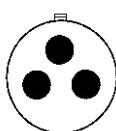
HD10 panel socket

Flange mounting
Accepts 3&4mm auto cable
Threaded accepts strain relief



HD10 Diagnostic plug

Locking or non-locking
Accepts 5mm auto cable
Accepts strain relief

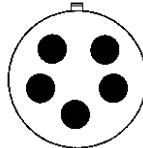


27103

3 circuit line plug housing. Threaded.
Terminals 27030/032/27040/042

27113

3 circuit panel socket housing. Threaded
Terminals 27031/031 27041/27043



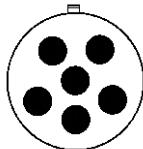
27105

5 circuit line plug housing.
Unthreaded.

Terminals 27030/032/27040/042

27115

As above but panel socket.
Terminals 27031/033 27041/043



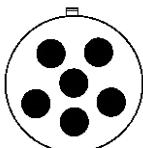
27106

6 circuit line plug housing.
Threaded.

Terminals 27030/032/27040/042

27116

As above but panel socket.
Terminals 27031/033/27041/27043



27100

6 circuit diagnostic plug housing. Threaded.
Non-locking.

Terminals 27050/052

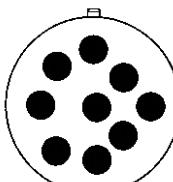
27101

6 circuit diagnostic plug housing. Threaded
Locking.

Terminals 27050/052

27117

As above but panel socket.
Terminals 27051/053



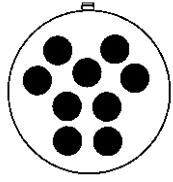
27109

9 circuit line plug housing.
Threaded.

Terminals 27030/032 27040/042

27119

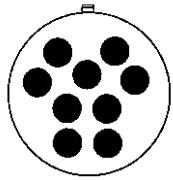
As above but panel socket
Terminals 27031/033 27041/043



27110

9 circuit line socket housing. Unthreaded.

Terminals 27031/033 27041/043



271091

9 circuit line plug housing.
Unthreaded.

Terminals 27030/032

27040/042

271191

As above but panel socket.
Terminals 27031/033 27041/043



27173

Strain relief suit 3 circuit housings.

27180

Strain relief suit 6 circuit housings.

27179

Strain relief suit 9 circuit housings.



27181

Dust cap suit 5pin panel socket.

27184

Dust cap suit 3 circuit panel socket.

27187

Dust cap suit 6 circuit panel socket.

27190

Dust cap suit 9 circuit sockets.



27183

Dust cap suit 3 circuit line plug.

27186

Dust cap suit 6 circuit line plug.

27189

Dust cap suit 9 circuit line plug.

DEUTSCH HD30-SIZE 18 CONNECTORS

Deutsch HD30, Size 18 connectors.

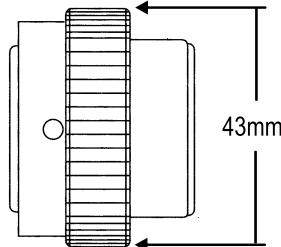
Commonly used on heavy vehicles and machines. Smaller shell size for lower circuit densities.

- Accept specific cable sizes
- 1500VAC rated
- -55°C to 125°C rated
- Submersible to 3'
- Vibration tested to 20G
- Shock tested to 50G
- Corrosion resistance per MIL-STD 1344



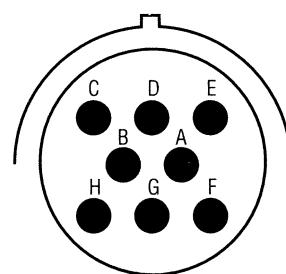
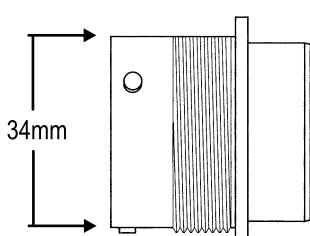
HD30 plug

Rotating locking collar
Backshell option
Available in reverse-gender



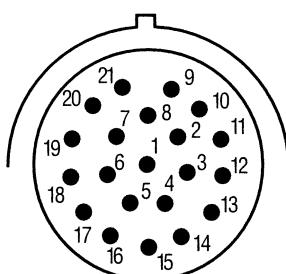
HD30 socket

Rotating locking collar
Two housing sizes
Backshell option
Available in reverse-gender



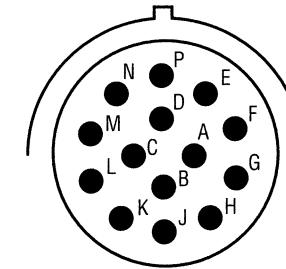
HD36-18-8SN
8 circuit line plug.
Terminals: 8x 27050

HD34-18-8PN
8 circuit panel socket.
Terminals: 8x 27051



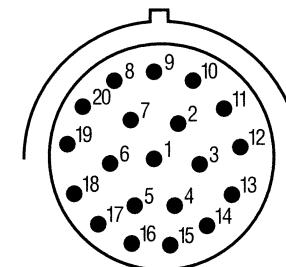
HD36-18-21SN
21 circuit line plug.
Terminals 27020/022

HD34-18-21PN
21 circuit panel socket
Terminals 27021/023



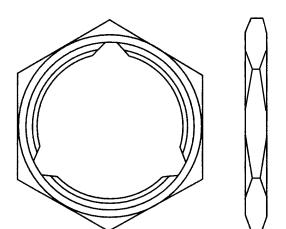
HD36-18-14SN
14 circuit line plug.
Terminals 27030/032/
27040/042

HD34-18-14PN
14 circuit panel socket
Terminals: 27031/033
27041/043

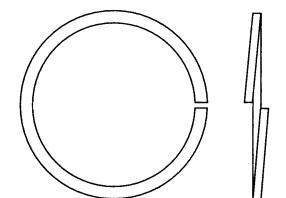


HD36-18-20SN
20 circuit line plug.
Terminals 27030/032
27040/042

HD34-18-20PN
20 circuit panel socket
Terminals 27031/033
27041/043



27389
Panel nut suit size18
panel socket



27391
Lock washer suit size18
panel socket



27380
Straight strain relief
suit size18 housings



27382
90° strain relief
suit size18 housings



27385
Line plug cap suit
suit size18 housings



27387
Panel socket cap suit
suit size18 housings

27395
Enclosed backshell with drain
holes & cable clamp option
Available as special order.



HDB
Breakaway plug option.
Can be specified with
27395 option.
Breakaway force required is
22.6kg min. to 45.4kg max.
Available as special order.

DEUTSCH HD30-SIZE 24 CONNECTORS

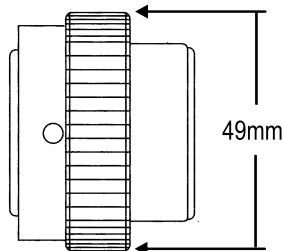
Deutsch HD30, Size24 connectors.

Commonly used on heavy vehicles and machines. Larger shell size for greater circuit densities.

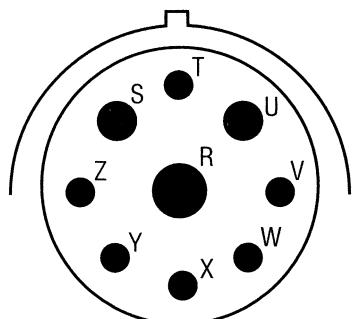
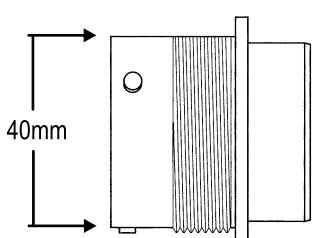
- Accept specific cable sizes
- 1500VAC rated
- -55°C to 125°C rated
- Submersible to 3'
- Vibration tested to 20G
- Shock tested to 50G
- Corrosion resistance per MIL-STD 1344



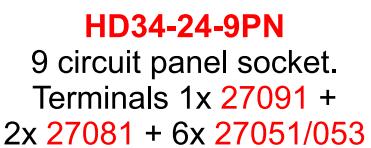
HD30 line plug
Rotating locking collar
Backshell option
Available in reverse-gender



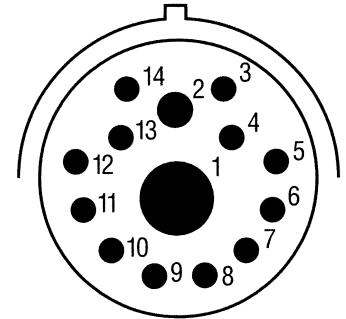
HD30 socket
Rotating locking collar
Two housing sizes
Backshell option
Available in reverse-gender



HD36-24-9SN
9 circuit line plug.
Terminals 1x 27090 +
2x 27080 + 6x 27050/052

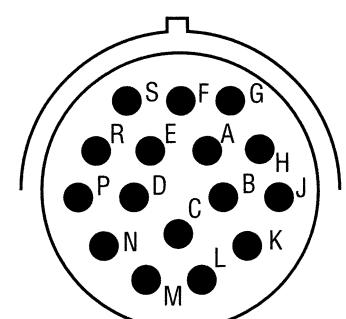


HD34-24-9PN
9 circuit panel socket.
Terminals 1x 27091 +
2x 27081 + 6x 27051/053



HD36-24-14SN
14 circuit line plug.
Terminals 1x 27090 +
1x 27050 + 12x 27030/032/
040/042

HD34-24-14PN
14 circuit panel socket.
Terminals 1x 27091 +
1x 27051/053 + 12x 27031/
033/041/043



Continued next column

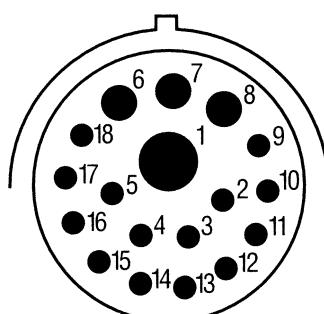
From previous column

HD36-24-16SN

16 circuit line plug.
Terminals 16x 27050/052

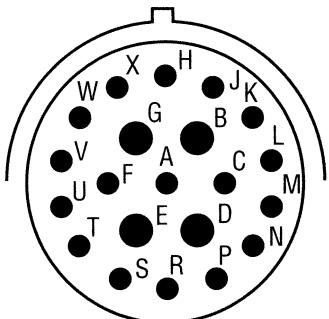
HD34-24-16PN

16 circuit panel socket.
Terminals 16x 27051/053



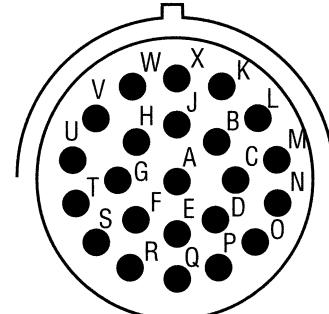
HD36-24-18SN
18 circuit line plug.
Terminals 1x 27080 +
2x 27050/052 + 14x 27030/
032/040/042

HD34-24-18PN
18 circuit panel socket.
Terminals 1x 27081 +
3x 27051/053 + 14x 27031/
033/041/043



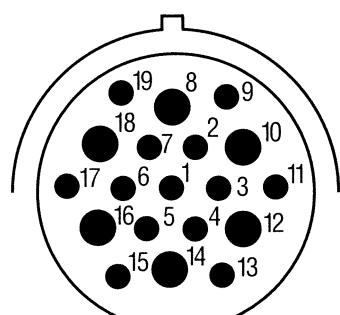
HD36-24-21SN
21 circuit line plug.
Terminals 4x 27050/052
+ 17x 27030/032/040/042

HD34-24-21PN
21 circuit panel socket.
Terminals 4x 27051/053
+ 17x 27031/033/041/043



HD36-24-23SN
23 circuit line plug.
Terminals 23x 27030/032/
040/042

HD34-24-23PN
23 circuit panel socket.
Terminals 23x 27031/033/
041/043



HD36-24-19SN
19 circuit line plug.
Terminals 6x 27050/052 +
13x 27030/032/040/042

HD34-24-19PN
19 circuit panel socket.
Terminals 6x 27051/053 +
13x 27031/033/041/043

Continued next page



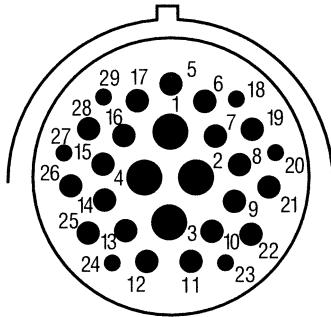
DEUTSCH HD30-SIZE 24 CONNECTORS

Deutsch HD30, Size 24 connectors.

Commonly used on heavy vehicles and machines. Larger shell size for greater circuit densities.

- Accept specific cable sizes
- 1500VAC rated
- -55°C to 125°C rated
- Submersible to 3'
- Vibration tested to 20G
- Shock tested to 50G
- Corrosion resistance per MIL-STD 1344

From previous page

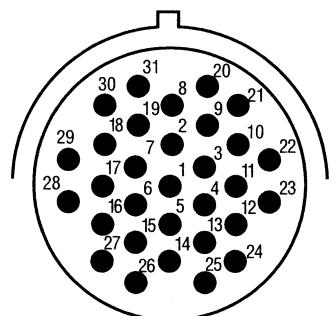


HD36-24-29SN

29 circuit line plug.
Terminals 4x 27050/052
+ 19x 27030/032/040/
042 + 6x 27020/022

HD34-24-29PN

29 circuit panel socket.
Terminals 4x 27051/053
+ 19x 27031/033/041/
043 + 6x 27021/023

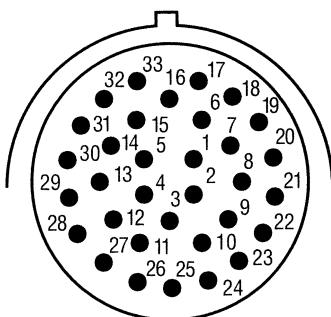


HD36-24-31SE

31 circuit line plug.
Terminals 31x 27030/032/
040/042

HD34-24-31PE

31 circuit panel socket.
Terminals 31x 27031/033/
041/043



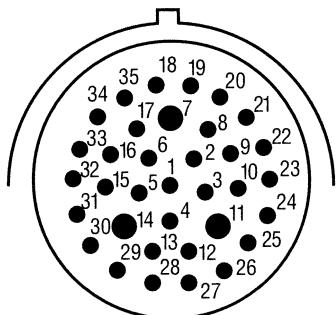
From previous column

HD36-24-33SN

33 circuit line plug.
Terminals: 33x 27020/022

HD34-24-33PN

33 circuit panel socket.
Terminals: 33x 27021/23

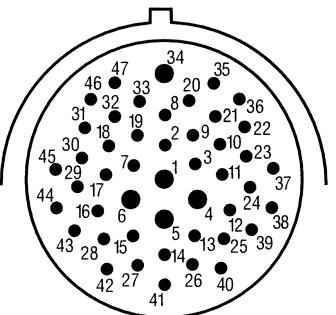


HD36-24-35SN

35 circuit line plug.
Terminals 3x 27030/032/
040/042 + 32x 27020/022

HD34-24-35PN

35 circuit panel socket.
Terminals 3x 27031/033/
041/043 + 32x 27021/023

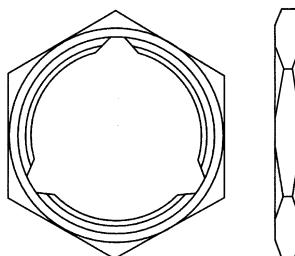


HD36-24-47SN

47 circuit line plug.
Terminals 5x 27030/032/
040/042 + 42x 27020/022

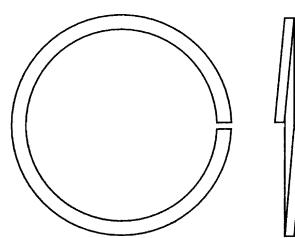
HD34-24-47PN

47 circuit panel socket.
Terminals: 5x 27031/033/
041/043 + 42x 27021/023



27390

Panel nut suit size 24
panel socket



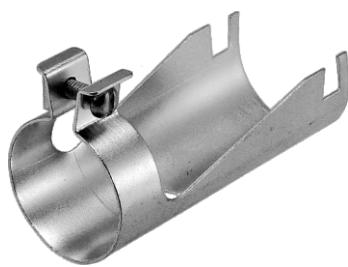
27392

Lock washer suit size 24
panel socket



27384

90° strain relief
suit size 24 housings



27383

Straight strain relief
suit size 24 housings



27386

Line plug cap suit
suit size 24 housings



27388

Panel socket cap suit
suit size 24 housings

27395

Enclosed backshell with drain
holes & cable clamp option
Available as special order.

HDB

Breakaway plug option.
Can be specified with
27395 option.

Breakaway force required is
22.6kg min. to 45.4kg max.
Available as special order.

Continued next column

DEUTSCH TERMINALS & TOOLS

All our Deutsch type crimp tools are ideal for small production, workshop and field repair work. The selector chart below, provides an easy lookup table to match every terminal in the Deutsch range to the correct cable size and tooling. Using the information provided on this page assures correct results - every time.



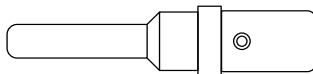
27004
Generic crimp tool
Crimp range: 18 to 14AWG
3 to 4mm auto

27005
Generic crimp tool
Crimp range: 20AWG
2 to 2.5mm auto

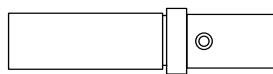
27007
Generic crimp tool
Crimp range: 12AWG
5mm auto



27006
Wedge removal tool
for all DTM, DT & DTP
housings



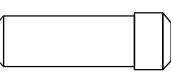
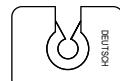
Pin terminal



Socket terminal



Terminal removal tool



Cavity plug

TERMINAL, CAVITY PLUG, REMOVAL TOOL, CRIMPING TOOL SELECTOR

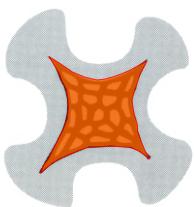
Cable Auto	Cable AWG	Pin Standard	Socket Standard	Pin Gold	Socket Gold	Cavity plug	Removal Tool	Removal Tool Colour	Crimping Tool
2mm	24-20	27021	27020	27023	27022	27026	27025	Red	27000, 27005
3mm	16-18	27031	27030	27033	27032	27046	27035	Dark blue	27000, 27004
4mm	14-16	27041	27040	27043	27042	27046	27045	Light blue	27000, 27004
5mm	12	27051	27050	27053	27052	27046	27055	Yellow	27000, 27007
8B&S	8	27081	27080	-	-	27086	27085	Green	16120
4B&S	4	27091	27090	-	-	27096	27095	White	16120

Why crimp?

Because of the new environments to which electrical connectors are subjected, and the environmental and occupational health issues associated with lead, there has been a drastic change in thinking relating to the use of precision crimp joints in preference over solder joints.

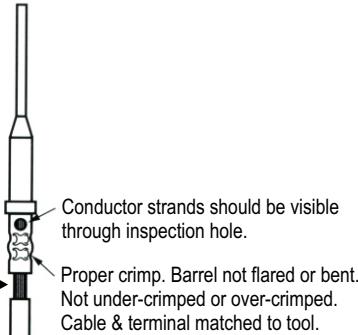
Crimping tools can be more expensive than soldering tools, but this is more than offset by lower installation and maintenance costs together with more repeatable and reliable outcomes. To realise these advantages it is imperative that the operator understands how to crimp properly by matching cable to terminal size coupled with correct tool use. Below are examples of the good and the bad.

Hints for correct crimping:

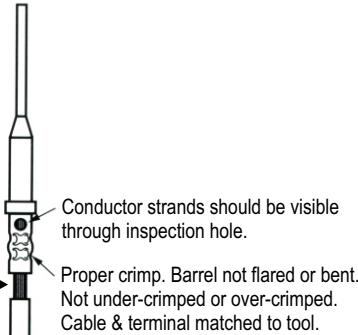


Compression crimp cross-section

The Good

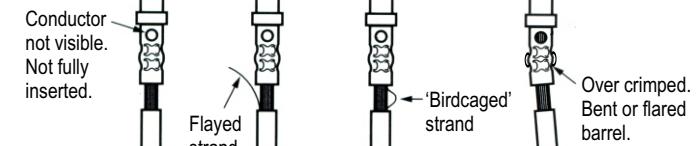


Where the cable is subjected to vibration or regular handling, leaving an insulation gap reduces point stress at the terminal which could lead to broken strands.



Conductor strands should be visible through inspection hole.
Proper crimp. Barrel not flared or bent.
Not under-crimped or over-crimped.
Cable & terminal matched to tool.

The Bad

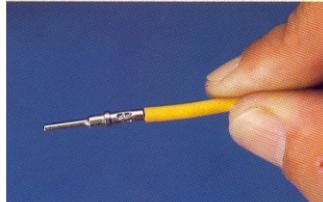


Conductor not visible.
Not fully inserted.
Flayed strand
'Birdcaged' strand
Over crimped. Bent or flared barrel.

USING DEUTSCH CONNECTORS

Understanding how to assemble Deutsch connectors is the key to Deutsch's performance and reliability. Common terminals across the entire range ensure easy upgrade and expansion plus interfacing with the huge range of manufactured equipment now fitted with Deutsch connectors as standard. Using the information provided on this page assures correct operation - every time.

Assembly for: DT, DTM & DTP series



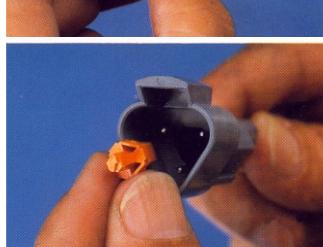
Male housings use socket terminals and female housings use pin terminals. Grip crimped terminal approx. 25mm behind barrel



All Deutsch connectors accept terminals from the housing's rear. Identify terminal cavity to insert terminal into.

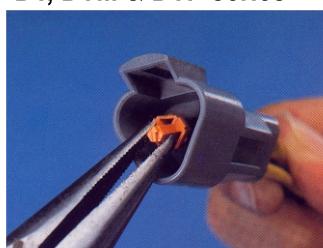


Push terminal straight into connector seal until a click is felt. A slight tug will confirm that it is locked into place



Once all terminals are in place, insert the retention wedge. Checking orientation will assure correct alignment. Unused cavities can be sealed off using cavity plugs. Plug heads should sit proud of the seal to allow easy removal and can be installed with or without the wedge in place.

Disassembly for: DT, DTM & DTP series



Remove the wedge using a hooked tool such as a strong seal pick. Be careful not to pull towards yourself so as not to cause injury. 3 circuit female housing wedges will require pointy-nose pliers, as illustrated.



To remove terminals, using a small blade screwdriver release the locking finger away from the terminal whilst at the same time gently pulling the cable rearwards until it is released.

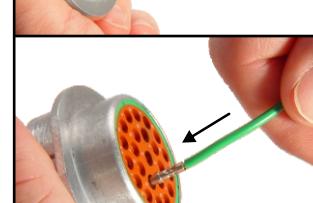


Once the terminal is released, and while holding the seal in place with your thumb, pull the cable out fully. The crimped terminal can be re-inserted.

Assembly for: HD10 & HD30 series

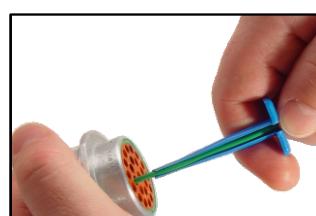


HD30 series connectors are available in reverse gender. It is recommended that panel sockets use pin terminals and plugs use socket terminals to reduce the chance of user damage to terminals. Grip crimped terminal approx. 25mm behind barrel

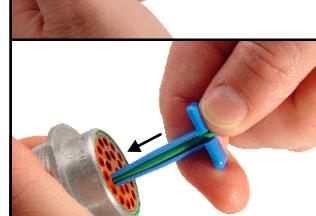


Identify terminal cavity to insert terminal into. Push terminal straight into connector seal until a click is felt. A slight tug will confirm that it is locked into place. Once all terminals are in place seal off any unused cavities with cavity plugs. The plug head should sit proud of the seal to allow easy removal.

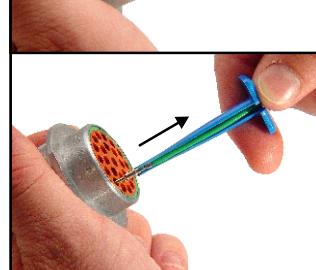
Disassembly for: HD10 & HD30 series



Grip the housing as shown if the panel socket is not already mounted. Using the correct removal tool for the terminal to be removed, slide the tool over the cable as shown.



Slide the removal tool into the cavity until it engages the terminal retention fingers and resistance is felt. Do not bend or twist the tool as it is designed to break rather than damage the retention fingers and rendering the housing useless. The removal tool is many times cheaper than the housing. Never use metal removal tools for this reason alone.



Once the removal tool engages, gently pull the cable back through the tool to release it and then withdraw both from the housing. If the terminal won't disengage, re-insert the removal tool at a different angle around the cable to try and engage the terminal locking fingers. Once removed it can be re-inserted.

A CD-ROM is available with the full line of Deutsch connectors plus more handy hints on using Deutsch



SOLDERING TOOLS

A range of soldering irons to meet most applications. From electronics work to automotive repair work.

Hints for long tip life: Periodically remove and clean the tip and barrel junction to maintain good heat transfer.

Never file a tip clean - whilst still hot, simply wipe over with a damp sponge or rag to remove any residue. Filing should only be done as a last resort. Also limit the use of solders with acids by cleaning the job before soldering. Use crimp type connections where possible as they are superior to solder types and far more efficient to use.



MICRON

16421

240VAC/20W soldering iron

- Iron-clad chrome plated barrel
- Chrome plated long life tip
- Tip is easily removed/replaced
- Complete with stand
- Supplied with 1.6mm conical tip
- Comfortable rubber finger grip
- 370°C high efficiency element
- Designed for electronics work



16307

Gas flame torch.

- Piezo trigger ignitor
- Uses refillable lighter
- Safety trigger lock

20147

Resin core solder.

- 40% tin / 60% lead
- 0.71mm diameter
- 500g roll
- Recommended for electrical & PCB jointing

20145

Resin core solder.

- 40% tin / 60% lead
- 1.6mm diameter
- 500g roll
- Recommended for electrical jointing

20146

Resin core solder.

- 40% tin / 60% lead
- 3.2mm diameter
- 500g roll
- Recommended for electrical wire jointing

20045

Acid core solder.

- 40% tin / 60% lead
- 1.6mm diameter
- 500g roll
- Not recommended for electrical wire jointing

20046

Acid core solder.

- 40% tin / 60% lead
- 3.2mm diameter
- 500g roll
- Not recommended for electrical wire jointing



MICRON

16429

240VAC/80W soldering iron

- Electroplated copper, pre-tinned replaceable tip
- On/Off switch in handle
- Complete with stand
- Supplied with 7mm chisel tip
- Comfortable compact handle
- Rubber sheath cable
- Designed for workshop & trade

WIRING TOOLS

When crimping terminals to cable it is important that the tool, terminal and cable size are all matched to make a reliable connection. Under-crimping leaves voids within the crimp that promote intermittent loose connections while producing high resistance and heat. Over-crimping damages the terminal and tool and adds nothing to the reliability of the connection. Crimping, when done properly, is simpler, safer and superior in performance to soldering.

16120

Copper tube hex crimping.
Crimps lug sizes 10mm²
through to 120mm²



16272

Crimper/cutter/stripper.
Light duty trade tool.
Crimps pre-insulated
terminals.
Hard handles.



16200

Crimper/cutter/stripper.
Heavy duty trade tool.
Crimps pre-insulated
terminals.
Soft handles.



16202

Ratchet crimping tool suitable for many open barrel terminals such as 6.3mm, 8mm and 9.5mm tab types.
Rubberised plastic handles.

16203

Ratchet crimping tool suitable for red, blue & yellow standard pre-insulated terminals.
Rubberised plastic handles.

16206

Ratchet crimping tool suitable for ferrules and bootlace terminals 0.5mm² up to 10mm².
Rubberised plastic handles.

16208

Ratchet crimping tool suitable for heatshrinkable butt connectors, closed barrel crimp terminals & small cable lugs up to 10mm².
Won't pierce heatshrink when crimping.
Rubberised plastic handles.

56515

Shear cut battery cable cutter.
Cuts cable up to 00B&S.
Parrot beak blades hold cable while cutting.



TESTERS

A range of inexpensive test gear. The mini multimeter is ideal where expensive bench models could be subject to damage or loss when moved from job to job.

The probe type circuit testers provide quick and easy indication of voltage. LED testers should be used where there is a possibility of encountering logic (computer) circuits.



16906

Low cost LCD digital multimeter with temp. probe

- Backlit 4000 count LCD auto range display
- 600V CAT3 meter and CAT4 insulated tip probes
- DC volts accurate to 0.5%
- Auto power-off
- Data hold function
- K-type temperature probe
- Continuity checker (buzzer @ <2000Ohm)
- Diode tests (forward voltage test)
- Relative measurement function
- Duty cycle test
- Non-contact voltage detection
- Capacitance test: 40nF to 100uF
- Frequency test: 5Hz to 10Mhz
- DC voltage: 400mV to 600V
- AC voltage: 400mV to 600V
- AC & DC current: 400uA to 10A
- Resistance (Ohm): 400 Ohm to 40M Ohm
- Temperature: -20°C to +760°C +/-3%
- Protection: 400mA and 10A fuses
- Supplied with 9V battery



16601

Light duty 6-12V circuit tester.

Change to a 24V BA9s globe for 28V use.

16602

5-28VDC LED circuit tester.

Computer safe - draws less than 21mA @12VDC
Polarity sensing - red/green LED.



16603

3-28VDC LED cordless circuit tester.

- Grounding is made by simply touching any painted or grounded metal surface - no ground lead required.
- Computer safe - almost zero loading on test circuit.
- Audible (buzzer) and visual (LED) indication.
- Supplied with v-groove cable spike protector.



16604

3.3-48VDC LCD display circuit tester.

- 200 count LCD with +0.3VDC accuracy
- Dual colour backlit shows polarity
- LCD displays voltages between 3.3-48VDC
- Computer safe - draws <10mA (not for air bags)
- Surge protected
- Complete with carry case

STORAGE

Our parts cases are ideal for repair parts such as terminals, connector housings, cable accessories to many other uses.

They are economical and functional.



16718

18 compartment parts case

- WxDxH: 274x188x40mm (over all)
- 40x40mm to 167x40mm compartment size
- Clear see-through plastic lid.
- Long lasting two piece double hinge.
- Movable 'dove-tailed' partitions
- Flip catches to secure lid

TOGGLE SWITCHES

A range of popular and universal application switches for automotive use. Our range, when used in conjunction with our distribution catalogues, cover almost any application.

Switch operation symbols explained....



Off/on switch
O=Off position
I=On position



On/on switch
I=On position
II=On position



On/off/on switch
I=On position
II=On position



Momentary type
Centre off
On>off<on switch
I=On position
O=Off position
II=On position



24003

Mini metal toggle switch.
On/on (SPDT)
Solder tab terminals.
240VAC or 28VDC@2A



24024

Metal toggle switch.
Mom. On>off<on (SPDT)
Screw terminals.
12VDC@15A



24505

Metal toggle switch.
On/off/on (DPDT)
Screw terminals.
12VDC@10A



24030

Waterproof switch.
Plasticised & pre-wired.
On/off (SPST)
12VDC@25A



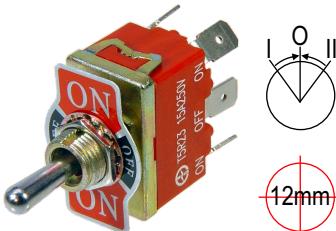
24026

Metal toggle switch.
Off/on (SPST)
Q.C. terminals.
12VDC@15A



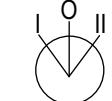
24028

Metal toggle switch.
Mom. On>off<on (SPDT)
Q.C. terminals.
12V@15A



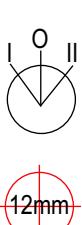
24550

Metal toggle switch.
Mom. On>off<on (DPDT)
Q.C. terminals.
12V@15A



24032

Waterproof switch.
Plasticised & pre-wired.
On/off/on (SPDT)
12VDC@25A



24027

Metal toggle switch.
On/off/on (SPDT)
Q.C. terminals.
12VDC@15A



24029

Metal toggle switch.
Mom. Off<on (SPST)
Screw terminals.
12VDC@15A

TOGGLE SWITCH ACCESSORIES

Our range of covers, boots and decals suit the majority or our toggle switches. They also fit most of our distribution brands as well as many competitor brands.

We are able to custom manufacture many types of legend plates. Contact us for more details.



24062

12mm black boot nut
suit standard toggle
switches

12mm



24002

6mm boot nut suit
mini toggle switches

6mm



24063

12mm yellow boot nut
suit standard toggle
switches

12mm



12mm

60059

Safety cover suit
12mm standard toggle
switches

12mm



24064

12mm red boot nut
suit standard toggle
switches

12mm



12mm

24940

UP/DOWN legend suit
12mm standard toggle
switches.
Brushed metal finish
plastic material



12mm

24065

12mm green boot nut
suit standard toggle
switches



24010

ON/OFF legend plate
suit 12mm standard toggle
switches.
Printed plated metal
material

12mm



24011

ON/OFF/ON legend plate
suit 12mm standard toggle
switches.
Printed plated metal
material

12mm



24012

ON/ON legend plate
suit 12mm standard toggle
switches.
Printed plated metal
material

12mm

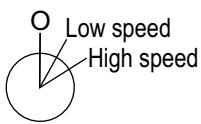
PUSH & ROTARY SWITCHES

A range of popular and universal application switches for automotive use. Our range, when used in conjunction with our distribution catalogues, cover almost any application..

Some symbols explained....



Mounting hole diameter
in millimeters



O=Off position
Other positions as shown



IP65
IK09

24930

Push on mini-switch.
Normally open.
12mm hole.
Screw terminals.
2A/48VDC.

12mm



12mm

24123

Brakelight switch.
Normally closed.
Suit early Ford & GMH.



12mm

24935

Push-on switch.
Normally open.
Q.C. tabs. 12V/10A

24120

Brakelight switch.
Normally closed.
Suit Nissan.

10mm



12mm

24936

Push-on switch.
Normally open.
Q.C. tabs. 12V/10A



10mm

24121

Brakelight switch.
Normally closed.
Suit Toyota.



16mm

60033

Heavy duty start switch.
Normally open.
Screw tabs. 12V/60A

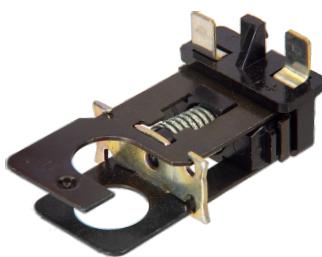


IP65
IK09

24930

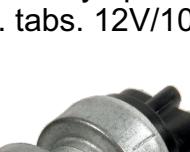
Push on mini-switch.
Normally open.
12mm hole.
Screw terminals.
2A/48VDC.

12mm



24125

Brakelight switch.
Normally open.
Suit Ford EL-BA



12mm

24930

Push on mini-switch.
Normally open.
Screw terminals. 12V/60A



12mm

24930

Push on mini-switch.
Normally open.
Screw terminals. 12V/60A



12mm

24930

Push on mini-switch.
Normally open.
Screw terminals. 12V/60A



12mm

24930

Push on mini-switch.
Normally open.
Screw terminals. 12V/60A



12mm

24930

Push on mini-switch.
Normally open.
Screw terminals. 12V/60A



12mm

24930

Push on mini-switch.
Normally open.
Screw terminals. 12V/60A



12mm

24930

Push on mini-switch.
Normally open.
Screw terminals. 12V/60A



12mm

24930

Push on mini-switch.
Normally open.
Screw terminals. 12V/60A



12mm

24930

Push on mini-switch.
Normally open.
Screw terminals. 12V/60A



12mm

24930

Push on mini-switch.
Normally open.
Screw terminals. 12V/60A



12mm

24930

Push on mini-switch.
Normally open.
Screw terminals. 12V/60A



12mm

24930

Push on mini-switch.
Normally open.
Screw terminals. 12V/60A



12mm

24930

Push on mini-switch.
Normally open.
Screw terminals. 12V/60A



12mm

24930

Push on mini-switch.
Normally open.
Screw terminals. 12V/60A



12mm

24930

Push on mini-switch.
Normally open.
Screw terminals. 12V/60A



12mm

24930

Push on mini-switch.
Normally open.
Screw terminals. 12V/60A



12mm

24930

Push on mini-switch.
Normally open.
Screw terminals. 12V/60A



12mm

24930

Push on mini-switch.
Normally open.
Screw terminals. 12V/60A



12mm

24930

Push on mini-switch.
Normally open.
Screw terminals. 12V/60A



12mm

24930

Push on mini-switch.
Normally open.
Screw terminals. 12V/60A



12mm

24930

Push on mini-switch.
Normally open.
Screw terminals. 12V/60A



12mm

24930

Push on mini-switch.
Normally open.
Screw terminals. 12V/60A



12mm

24930

Push on mini-switch.
Normally open.
Screw terminals. 12V/60A



12mm

24930

Push on mini-switch.
Normally open.
Screw terminals. 12V/60A



12mm

24930

Push on mini-switch.
Normally open.
Screw terminals. 12V/60A



12mm

24930

Push on mini-switch.
Normally open.
Screw terminals. 12V/60A



12mm

24930

Push on mini-switch.
Normally open.
Screw terminals. 12V/60A



12mm

24930

Push on mini-switch.
Normally open.
Screw terminals. 12V/60A



12mm

24930

Push on mini-switch.
Normally open.
Screw terminals. 12V/60A



12mm

24930

Push on mini-switch.
Normally open.
Screw terminals. 12V/60A



12mm

24930

Push on mini-switch.
Normally open.
Screw terminals. 12V/60A



12mm

24930

Push on mini-switch.
Normally open.
Screw terminals. 12V/60A



12mm

24930

Push on mini-switch.
Normally open.
Screw terminals. 12V/60A



12mm

24930

Push on mini-switch.
Normally open.
Screw terminals. 12V/60A



12mm

24930

Push on mini-switch.
Normally open.
Screw terminals. 12V/60A



12mm

24930

Push on mini-switch.
Normally open.
Screw terminals. 12V/60A



12mm

24930

Push on mini-switch.
Normally open.
Screw terminals. 12V/60A



12mm

24930

Push on mini-switch.
Normally open.
Screw terminals. 12V/60A



12mm

24930

Push on mini-switch.
Normally open.
Screw terminals. 12V/60A



12mm

24930

Push on mini-switch.
Normally open.
Screw terminals. 12V/60A



12mm

24930

Push on mini-switch.
Normally open.
Screw terminals. 12V/60A



12mm

24930

Push on mini-switch.
Normally open.
Screw terminals. 12V/60A



12mm

24930

Push on mini-switch.
Normally open.
Screw terminals. 12V/60A



12mm

24930

Push on mini-switch.
Normally open.
Screw terminals. 12V/60A



12mm

24930

Push on mini-switch.
Normally open.
Screw terminals. 12V/60A



12mm

24930

Push on mini-switch.
Normally open.
Screw terminals. 12V/60A



12mm

24930

Push on mini-switch.
Normally open.
Screw terminals. 12V/60A



12mm

24930

Push on mini-switch.
Normally open.
Screw terminals. 12V/60A



12mm

24930

Push on mini-switch.
Normally open.
Screw terminals. 12V/60A



12mm

24930

Push on mini-switch.
Normally open.
Screw terminals. 12V/60A



12mm

24930

Push on mini-switch.
Normally open.
Screw terminals. 12V/60A



12mm

24930

Push on mini-switch.
Normally open.
Screw terminals. 12V/60A



12mm

24930

Push on mini-switch.
Normally open.
Screw terminals. 12V/60A



12mm

KEY SWITCHES

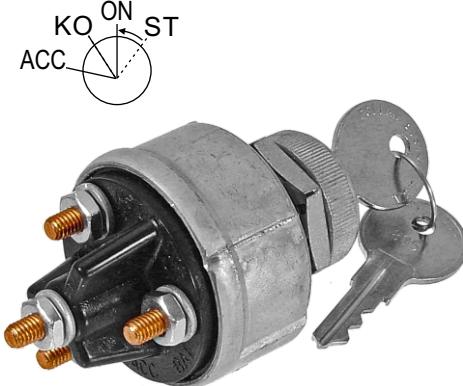
A range of popular and universal application switches for automotive use. Our range, when used in conjunction with our distribution catalogues, cover almost any application. Keyed alike switches are ideal for fleet equipment such as hire plant.

Switch operation symbols explained....

KO KI K=Key removable position
O=Off position
I=On position

KO ON ST K=Key removable position
ACC ACC=Accessories position
O=Off position
ON=On position
ST=Start position

K=Key removable position
O=Off position
ON=On position
ST=Start position
PRE=Pre-heat position
KP=Key removable + park lighting position



24008

Ignition switch.

Acc/off/on/start. Popular universal application. Numbered keys.



24009

Ignition switch. Suit IHC truck.
Acc/off/on/start. Numbered keys.



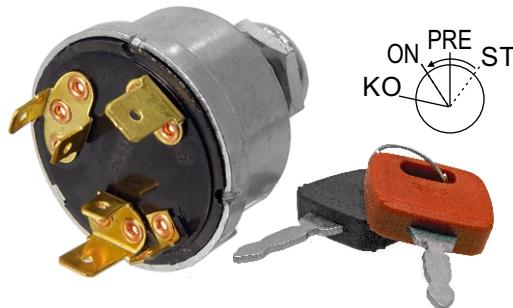
24111

Mini Key switch. On/off.
SPST. 12V/2A.12mm panel hole.
Key removes in both positions.
Keyed alike.



24112

As above except key removes in off position only.



24070

Pre-heat ignition switch.
Off/on/pre-heat/start.
Equivalent Lucas 34228.
Keyed alike.
Spare key: **24071**



24068

Marine Ignition switch.
Off/on/start.

For magneto ignition only.
Drain holes. Numbered keys.



24072

Preheat ignition switch.
Park/Off/On/Pre-heat/start.
Parking light position for plant and equipment.

Spring loaded key lid keeps out water and dust when key is removed. Ideal for hire fleets.

Equivalent Hella 4005

Keyed alike.

Spare key: **24073**



24052

Compact Ignition switch.
Acc/off/on/start.
Drain Holes.

24074

Rubber wiring cover boot suit 24072 switch.

ROCKER SWITCHES

A range of popular and universal application switches for automotive use. Our range, when used in conjunction with our distribution catalogues, cover almost any application.

Switch operation symbols explained....



Off/on switch
0=Off position
1=On position



On/off/on switch
I=On position
II=On position

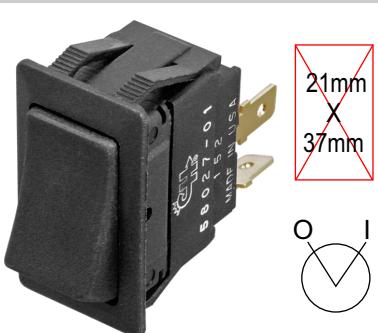


Momentary type
Centre off
On>off<on switch
I=On position
0=Off position
II=On position



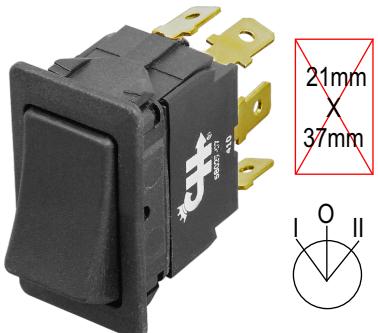
24160 - 12V amber
241601 - 24V amber
24161 - 12V green
24162 - 12V red
241621 - 24V red
24164 - 12V blue

Illuminated rocker switch.
On/off (SPST)
12VDC@25A
24VDC@12A



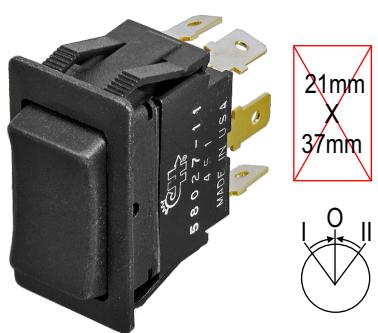
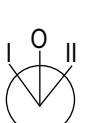
24171

Plain rocker switch.
On/off (SPST)
12VDC@25A
24VDC@12A



24172

Plain rocker switch.
On/off/on (DPDT)
12VDC@25A
24VDC@12A



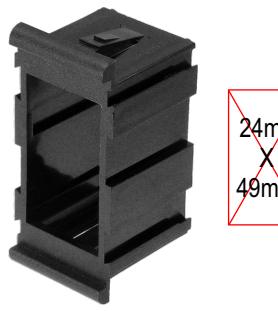
24170

Plain rocker switch.
Mom. On>off<on (DPDT)
12VDC@25A
24VDC@12A



24182

Rocker panel.
Single section.
Useful for adapting into
a larger switch cutout.
Suits 24160 thru 24172.



24180

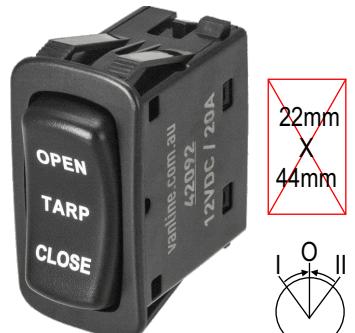
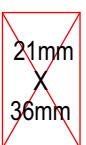
Rocker panel.
Interlocking centre section.
Suits 24160 thru 24172.



24091

Rocker switch for use
with tarping systems.
Mom. On>off<on.
SPDT.

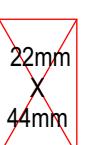
12VDC@20A
24VDC@10A



24092

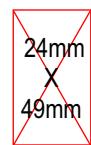
Rocker switch for use
with tarping systems.
Mom. On>off<on.
SPDT.

12VDC@20A
24VDC@10A



24181

Rocker panel.
Interlocking end section.
Suits 24160 thru 24172.



ENG

444 SERIES SWITCHES

ENG switches are a drop in replacement for SWF equivalents and are designed for automotive applications from cars and trucks to tractors and industrial machines or any 12V/24V application not exposed to the elements.

The illumination function is separate to the switching circuit and is therefore optional and highly configurable.

All switches & indicators are supplied with a 24V globe fitted and a 12V globe included in the packaging where relevant.

All switches & indicators require the use of an insert over the illumination opening. See 'Inserts' sections for more options.

All switches are rated at 4-14VDC@16A and 15-28VDC @ 8A. Panel cutout is 44.1mm x 22.1mm

Lighting positions - Switches can display illumination in different modes. This is useful where a switch is required to be dull in the 'off' position and bright in the 'on' position. They can also be ordered to operate in dull or bright mode exclusively.

When illumination is required, order the part number with the corresponding illumination mode:

A=Bright illumination in any switch position.

B=Dull illumination in any switch position

C=Dull illumination in off position and bright illumination in on position(s)

The dull effect is obtained through a mechanical 'shading' of the globe in the dull position. Only 1.2W globes should be used.



Basic switch



Assembled switches



Assembled 6 hole mounting panel

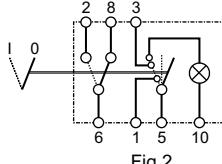
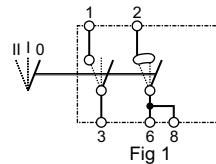


Basic indicator

Specialty Switches

Mode

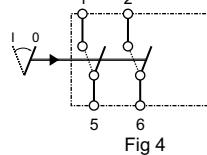
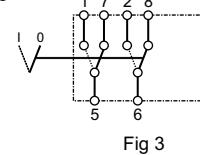
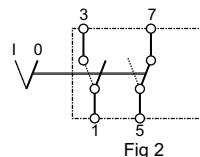
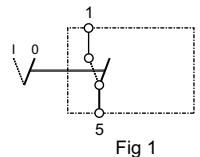
444137 Off/On+On (Collective) D.P.	C	Fig.1
444191 Hazard	-	Fig.2



Two Position Switches

Mode

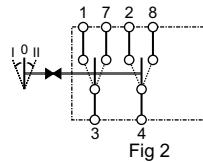
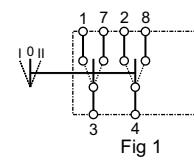
444001 On/Off S.P.	A	Fig.1
444006 On/Off S.P.	C	Fig.1
444039 On/On S.P. (or exclusive D.P.)	C	Fig.2
444111 On/On D.P.	C	Fig.3
444131 On>Off D.P.	B	Fig.4
444239 On/On D.P. (Locks in off pos.)	C	Fig.3



Three Position Switches

Mode

444054 On/Off/On D.P.	B	Fig.1
444059 On>Off<On D.P.	B	Fig.2



Accessories

611503 Dual indicator lamp assembly	Fig.1
613328 Pilot lamp plug housing	Fig.2
694801 Mounting panel centre section	Fig.3
694802 Mounting panel end section	Fig.4
695502 Mounting panel. 3 hole bezel	Fig.5
695502 Mounting panel. 6 hole bezel	*
696273 Hole blank for switches/indicators	Fig.6
696289 Switch plug housing	Fig.7
696710 Globe holder with 24V globe fitted	Fig.8
696956 Globe holder with 12V globe fitted	Fig.8
21500 Terminal to suit 613328 & 696289	-

* Same as Fig.5 but 6 hole.

Note: This is a condensed range - many other switch configurations are available upon request.

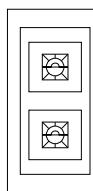


Fig 1



Fig 2

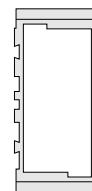


Fig 3

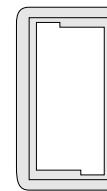


Fig 4

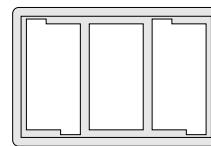


Fig 5

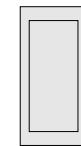


Fig 6

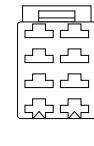


Fig 7

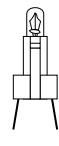
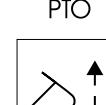
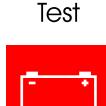


Fig 8

444 SERIES INSERTS & DECALS

Below is the condensed range of inserts/decals used in the 444 series switches and indicators. They are compatible with competitor brands and some are orientated for horizontal mounting. All inserts/decals are keyed to orientate correctly to follow industry standards. Where a plain, non-illuminated switch is required use a black insert.

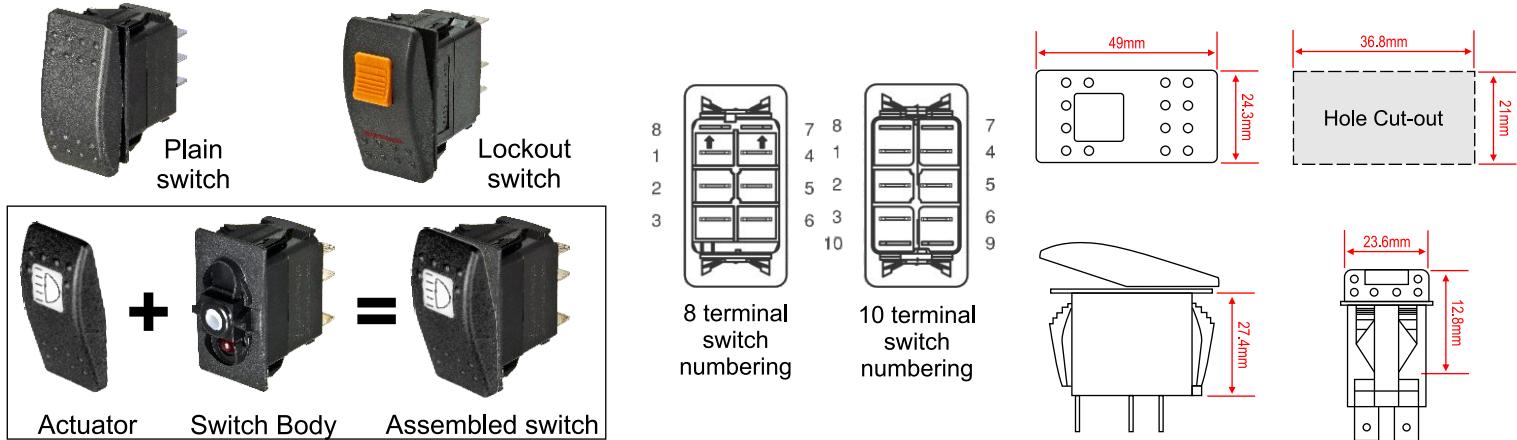
 896650 Green blank	 894441 TV	 896641 Interior light	 896191 Hazard	 896106 Socket	 895969 Slow
 896615 Red blank	 894442 Monitor	 896189 Headlight	 896228 Beacon	 896120 Preheat	 895971 Fast
 896610 Yellow blank	 896186 Music	 896169 Headlight	 896426 Beacon	 895425 Fuel	 894709 Speed control
 896320 Orange blank	 896301 Window lift	 896648 High beam	 892916 Beacon	 896171 Oil	 896338 Decelerator
 895620 Blue blank	 896122 Window	 896313 Worklamp - Left	 896196 Horn	 895199 Oil	 893045 Axe lock
 896620 Black blank	 896194 Door	 894767 Worklamp - Right	 895137 Mirror heater	 895101 Temperature	 894402 PTO
 892022 Heat/Vent	 896603 Wiper/Washer	 894461 Indicator - Left	 896123 Test	 895194 Brake	 895409 Raise/Lower
 896101 Air conditioner	 896627 Windscreen Washer	 894460 Indicator - Right	 896153 Battery/Charge	 895148 Brake	 895177 Trailer
 894700 Fan	 896625 Wiper	 895200 Double indicator	 896198 Battery/Charge	 896173 Park	 892518 Raise/Lower
				 894434 STOP	 892906 Tailgate

420 SERIES SWITCHES

420 series Carlingswitches are designed for automotive applications from cars, trucks, tractors and industrial machines to marine or any 12V/24V application exposed to the elements. Modern styling make them ideally suited for passenger vehicles. Non illuminated switches are sold complete with a plain black actuator.

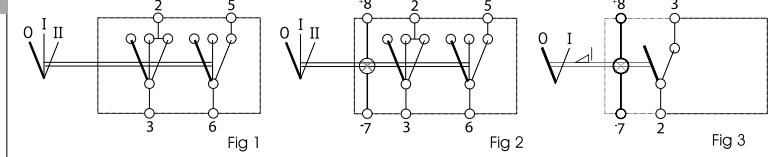
Illuminated switches are sold as two parts - the switch body and an actuator. Actuators are available with a plain white illumination window that is coloured by the LED or with a range of printed decals and are replaceable without having to remove or disassemble the switch making them ideal for future field refurbishment, replacement or re-use.

- Panel cutout is 37mm x 21mm
- Panel thickness to 4mm
- Connector housings available for harness integration
- Silver alloy contacts for long life
- All switches are rated at 4-14VDC@20A, 15-28VDC@15A, 250VAC@10A
- 150,000 cycle operation minimum design life
- 12V or 24V LED illumination
- Actuators made of polycarbonate overlaid with hard wearing nylon - IP67 rating
- Panel gasket seal rated to IP68
- Actuation and illumination submersion tested to 1M for 30mins
- -40°C to +85°C working temperature range
- Meets MIL standards for corrosion, vibration, shock, dust, salt spray and thermal shock
- Meets UL standards for ignition protection for marine applications



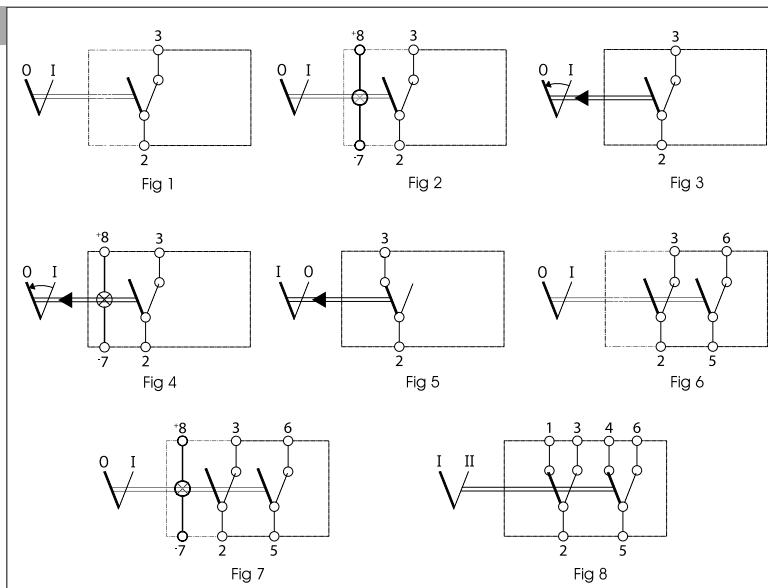
Specialty Switches

		Volt	Colour	Fig.
42040	Off/On+On (Collective) D.P.	-	Plain	Fig.1
42041R	Off/On+On (Collective) D.P.	12	Red	Fig.2
42050	Off/On with lockout	12	Red	Fig.3
42051	Off/On with lockout	24	Red	Fig.3



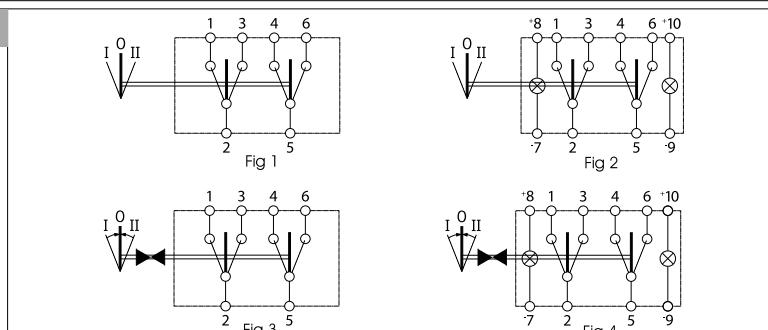
Two Position Switches

		Volt	Colour	Fig.
42010	Off/On S.P.	-	Plain	Fig.1
42011A	Off/On S.P.	12	Amber	Fig.2
42011G	Off/On S.P.	12	Green	Fig.2
42011R	Off/On S.P.	12	Red	Fig.2
42012A	Off/On S.P.	24	Amber	Fig.2
42012G	Off/On S.P.	24	Green	Fig.2
42012R	Off/On S.P.	24	Red	Fig.2
42020	Off<On Momentary N.O.	-	Plain	Fig.3
42021R	Off<On Momentary N.O.	12	Red	Fig.4
42022R	Off<On Momentary N.O.	24	Red	Fig.4
42050	On<Off Momentary N.C.	-	Plain	Fig.5
42030	Off/On D.P.	-	Plain	Fig.6
42031A	Off/On D.P.	12	Amber	Fig.7
42031R	Off/On D.P.	12	Red	Fig.7
42032A	Off/On D.P.	24	Amber	Fig.7
42032R	Off/On D.P.	24	Red	Fig.7
42060	On/On D.P.	-	Plain	Fig.8



Three Position Switches

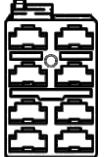
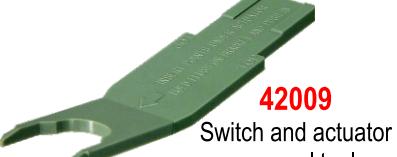
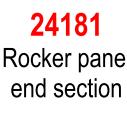
		Volt	Colour	Fig.
42080	On/Off/On D.P.	-	Plain	Fig.1
42081GG	On/Off/On D.P.	12	Green	Fig.2
42081RR	On/Off/On D.P.	12	Red	Fig.2
42082RR	On/Off/On D.P.	24	Red	Fig.2
42090	On>Off<On D.P.	-	Plain	Fig.3
42091RR	On>Off<On D.P.	12	Red	Fig.4
42092RR	On>Off<On D.P.	24	Red	Fig.4



420 SERIES ACTUATORS & ACCESSORIES

420 series accessories include connector housings to allow integration with harnesses. Use terminal 21500 with these housings. All two position switches use 8 terminal connectors - all three position switches use 10 terminal connectors. Dual indicators use LEDs for illumination and are voltage specific. The removal tool is used to remove actuators and switches.

Accessories

	42001RR Dual 12V red Indicator		42000 Switch/panel blank								
	42005 Connector housing suit 8 terminal switches		42006 Connector housing suit 10 terminal switches		42009 Switch and actuator removal tool		24180 Rocker panel centre section		24181 Rocker panel end section		24182 Rocker panel single section

Actuators and Decals

	421000 Plain Black		421007 Fan		421014 Side Markers		421021 Windscreen Wiper		421028 Demister		421035 'Yard'
	421001 Searchlight		421008 Windscreen Washer		421015 Headlamps		421022 Worklamp		421029 Auxiliary Fuel		421036 'PTO'
	421002 Horn		421009 Spot Lamp		421016 Increase Speed		421023 Left Arrow		421030 Auxillary		421037 Tail Gate
	421003 Service Lamps		421010 High Beam		421017 Hazard Lamps		421024 Strobe Beacon		421031 Front Lamps		421038 Arrow Down/Up
	421004 Air Filter		421011 Air Conditioner		421018 Dome Lamp		421025 Left Worklamp		421032 Rear Lamps		421099 Unprinted White
	421005 Fog Lamp Warning		421012 Transmission Temp		421019 Rotating Beacon		421026 Right Worklamp		421033 Arrow Up		
	421006 Differential Lock		421013 Fog Lamps		421020 Water Temp		421027 Engine Oil Pressure		421034 Reverse Lamp		

PILOT LAMPS

Our range of popular LED pilot lamps used in automotive and universal applications. Some feature multi-volt operation.

This page should be used in conjunction with our distribution catalogues to cover almost any application.



16mm

24740
LED pilot lamp - Green.
Water resistant.
Wide viewing angles.
4.8mm Q.C. terminals.
12-24V/0.1A operation.

24741
As above but blue

24742
As above but red

24743
As above but amber



14mm

62090BL
LED pilot lamp - Amber.
Chrome metal bezel.
Wide viewing angles.
6.4mm Q.C. terminals.
12VDC/0.02A operation.

62091BL
As above but green

62092BL

As above but red

62093BL

As above but blue



14mm

62095BL
LED pilot lamp - Amber.
Chrome metal bezel.
Wide viewing angles.
6.4mm Q.C. terminals.
24VDC/0.02A operation.

62096BL
As above but green

62097BL

As above but red

62098BL

As above but blue



8mm

24725
Flashing red LED.
Snap fit design.
Prewired 200mm tail.
12VDC operation.



12mm

24726
LED warning light.
Alternates red/green.
10mm jumbo Led.
12-24VDC applications.
Snap fit design.

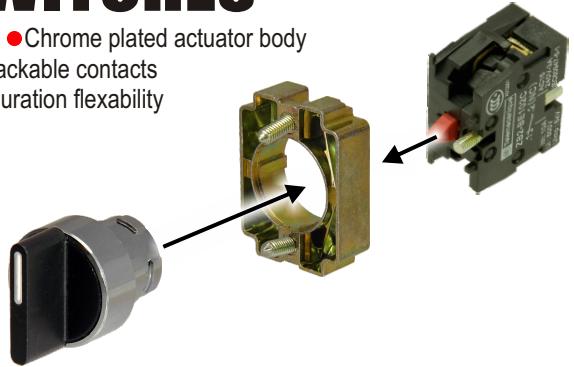
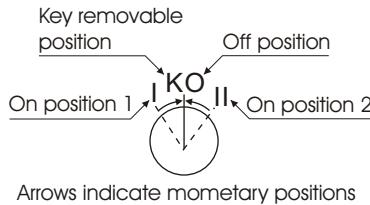
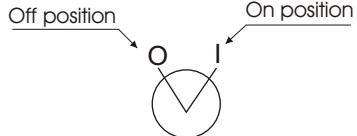
22MM INDUSTRIAL SWITCHES

Features:

- Industry standard 22mm mounting hole
- Metal actuator body and mounting collar
- Chrome plated actuator body
- No-spin locking screws in collar
- To IP66 rated
- Contacts rated @10A
- Stackable contacts
- Most widely used and proven range
- Sold in component form for maximum configuration flexibility

Note: Actuators should not be exposed to directly to weather or water jets.

Some actuator operations explained.....



BA Series
Flush pushbutton actuator.
Shroud protects against accidental operation

BA2 - Black
BA3 - Green
BA4 - Red
BA5 - Yellow
BA6 - Blue

See next page for collars and contacts



ZLP2
90mm legend plate



ZLP3
60mm legend plate



BS54
40mm red actuator.
Latching - Turn to reset
BT4
40mm red actuator.
Push - Pull



BR4
60mm red actuator.
Momentary

See next page for collars and contacts



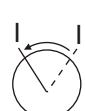
BD2
2 pos. selector actuator.
On/On
L-R



BD3
3 pos. selector actuator.
On/Off/On
L-C-R



BD4
2 pos. selector actuator.
On/On Mom.
L<R



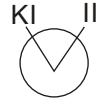
BD5
2 pos. selector actuator.
On Mom./Off/On Mom.
L>C<R



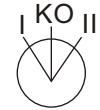
See next page for collars and contacts



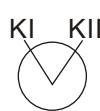
BG2
2 pos. key actuator.
On/On
L-R



BG3
3 pos. key actuator.
On/Off/On
L-C-R



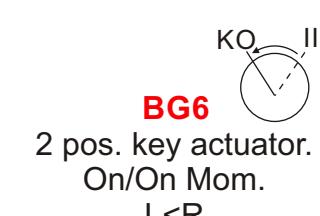
BG4
2 pos. key actuator.
On/On
L-R



BG5
3 pos. key actuator.
On Mom./Off/On Mom.
L>C<R



See next page for collars and contacts



BG6
2 pos. key actuator.
On/On Mom.
L<R



22MM INDUSTRIAL SWITCHES

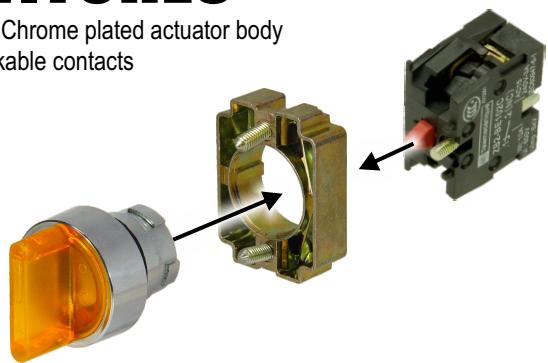
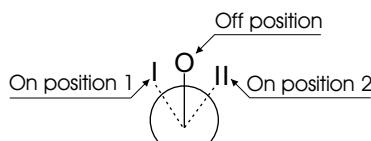
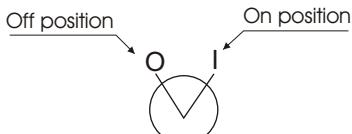
Features: ● Industry standard 22mm mounting hole ● Metal actuator body and mounting collar ● Chrome plated actuator body

● No-spin locking screws in collar ● To IP66 rated ● Contacts rated @10A ● Stackable contacts

● Most widely used and proven range ● Sold in component form

Note: Actuators should not be exposed to directly to weather or water jets.

Some actuator operations explained.....



BW Series

Flush illuminated pushbutton actuator.
Shroud protects against
accidental operation

BW33 - Green
BW34 - Red
BW35 - Yellow
BW36 - Blue
BW37 - Clear

IP65



BK30 Series

3pos. Illuminated
selector actuator.
On/Off/On
L-C-R

BK33 - Green
BK34 - Red



BZ009

Metal mounting collar.

IP65



BK20 Series

2pos. Illuminated
selector actuator.

On/On
L-R

BK23 - Green
BK24 - Red
BK25 - Yellow
BK26 - Blue
BK27 - Clear



BE101

N.O. 10A contact set



BE102

N.C. 10A contact set

IP66



PA22

2 axis joystick control.
Self centres to off.
Metal actuator &
mounting collar.

IP66



PA24

4 axis joystick control.
Self centres to off.
Metal actuator &
mounting collar.

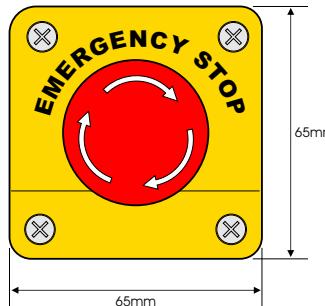
40MM E-STOP SWITCHES

Our Emergency Stop Switches feature industry standard 22mm mounting hole switches and are environmentally sealed up to IP65. Emergency Stop enclosures feature hi-visibility yellow lids. Supplied with N.O. & N.C. contacts make them versatile for all applications. See our accessory page for options such as IP69K boot, branch deflectors, and lockout covers. Actuators and enclosures should not be exposed to water jets or immersion.

24302

40mm Emergency Stop Switch.

- Twist to reset
- IP65 rated plastic enclosure
- Compact size: 65x65x50mm
- Integral sealing gasket
- Supplied with replaceable N.O. (BE101) & N.C. (BE102) 10A contact sets
- Supplied with 16mm gland



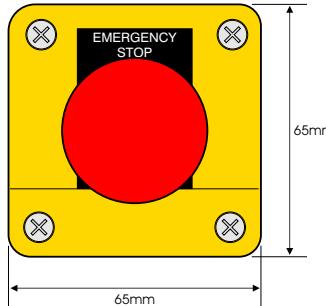
SERIES 1



24303

40mm Emergency Stop Switch.

- Push-Pull (maintained on/off)
- IP65 rated plastic enclosure
- Compact size: 65x65x50mm
- Integral sealing gasket
- Supplied with replaceable N.O. (BE101) & N.C. (BE102) 10A contact sets
- Supplied with 16mm gland



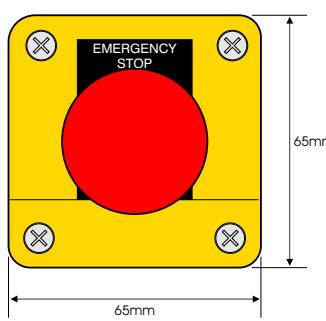
SERIES 1



24304

40mm Emergency Stop Switch.

- Momentary (spring return)
- IP65 rated plastic enclosure
- Compact size: 65x65x50mm
- Integral sealing gasket
- Supplied with replaceable N.O. (BE101) & N.C. (BE102) 10A contact sets
- Supplied with 16mm gland



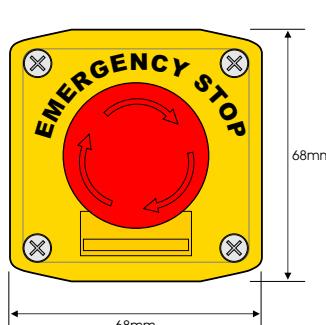
SERIES 1



24306

40mm Emergency Stop Switch

- Twist to reset actuator
- Actuator fixed to lid and contacts are mounted into base keeps the wiring within the enclosure when the lid is removed
- IP65 rated plastic enclosure
- Enclosure: 68x68x58mm
- Integral sealing gasket
- Supplied with replaceable N.O. & N.C.
- 10A contact sets
- Supplied with 16mm gland



SERIES 2



40MM E-STOP SWITCHES

Our Emergency Stop Switches feature industry standard 22mm mounting hole switches and are environmentally sealed up to IP65. Emergency Stop enclosures feature hi-visibility yellow lids with text plate. Metal screws and nuts ensure good sealing performance. Actuators and enclosures should not be exposed to water jets or immersion.



BS542

Emergency stop switch.

- Metal 40mm twist to reset head.
- Metal mounting collar.
- Supplied with one 10A N.C. contact (BE102)
- Normally open contact available (BE101)
- 2 position switch mounting collar (N.O. + N.C.)



24308

Deflector shroud

- Suits all 22mm actuators up to 40mm diameter
- Protects actuators from unintentional operation such as falling or passing objects
- Protects actuators from damage by falling or passing objects
- Water drainage port for horizontal applications
- Optional ZLP7 'Emergency Stop' sticker available



24310

Bellows type boot for e-stop switches.

- Prevents moisture ingress via the actuator
- Enhances service life and reliability of e-stop switch
- Designed to suit our 24302, 24306 & BS542 switches
- Works with almost all similar type competitor e-stops



24309

Switch lockout cover

- Suits all 22mm actuators up to 40mm diameter
- Clear lid shows switch position
- Cover can be padlocked or sealed closed where power lockout is required for repairs etc.
- Can be used to protect a critical power circuit from accidental user shutdown
- Can be used with 24301 for double lockout redundancy
- Recommended for horizontal mounting application
- Optional 'Emergency Stop' sticker available



ZLP2

90mm dia. Legend Plate

- Suits all 22mm hole switches
- Fits all 22mm hole actuators and E-Stops with 90mm actuators



ZLP6

Emergency stop sticker

- 25mm diameter
- Designed for 24308 shroud
- Clear background / black text
- Laminated for long life



ZLP7

Emergency stop sticker

- 40mm diameter
- Designed for 24309 cover
- Yellow background / black text
- Laminated for long life

SEALED E-STOP SWITCH

Our sealed Emergency Stop Switch is ideally suited to applications exposed to the elements.

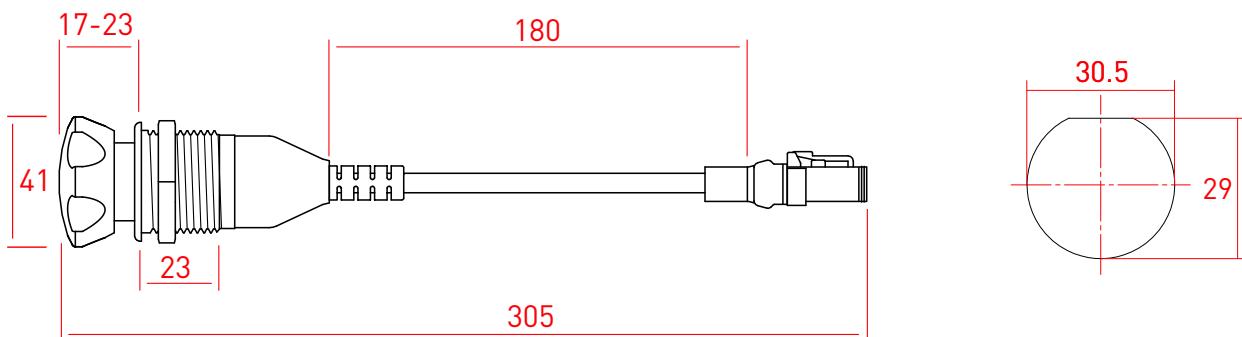
When mounted correctly, the actuator can be used in proximity to areas are pressure washed due to its IP6K9K rating. The switch is also vibration tested and can withstand 50G of shock making it suited to wood chippers and road rollers etc.



24320

Sealed E-Stop switch

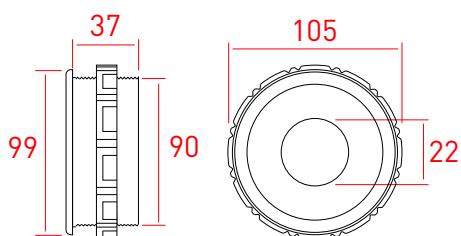
- With one each N.C. & N.O. 10A continuous switch contacts
- 30mm panel hole
- Environmental protection to IEC 60529, IP67, IP6K7K
- Vibration tested to ISO 16750-3
- 180mm re-wired cable with strain reliefs
- Supplied with 4pin DT receptacle
- Rugged glass-filled Polyamide 25 switch body and actuator



24319

Recess mount for 22mm mounting hole switches

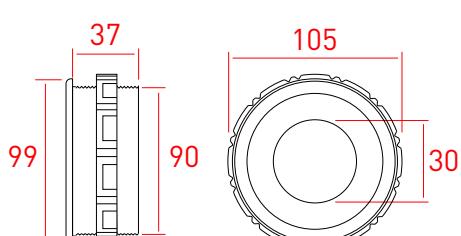
- Rugged Nylon construction
- 90mm panel hole



24322

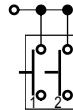
Recess mount for 30mm mounting hole switches

- Rugged Nylon construction
- 90mm panel hole



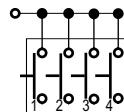
PENDANT CONTROLS

With a common feeds (bus) to reduce wiring time and wire clutter. They are rainproof and not intended to be washed down or mounted/stored in areas subject to the elements. Customised tail-lift legend label sets are available by special order.



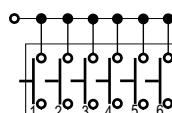
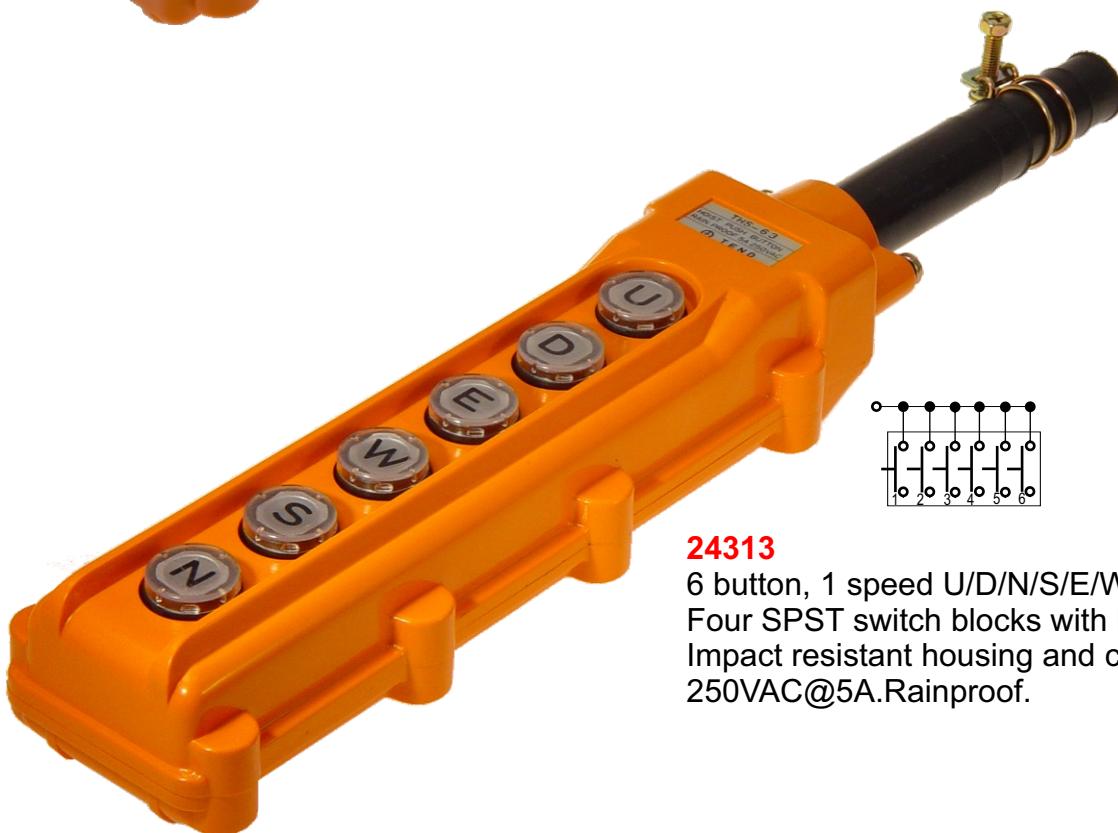
24311

2 button, 1 speed U/D pendant controller with interlocked switching. Two SPST switch blocks with bussed interlinks. Impact resistant housing and cable clamp. Rainproof. 250VAC@5A.



24312

4 button, 1 speed U/D/E/W pendant controller with interlocked switching. Four SPST switch blocks with bussed interlinks. Impact resistant housing and cable clamp. Rainproof. 250VAC@5A.



24313

6 button, 1 speed U/D/N/S/E/W pendant controller. Four SPST switch blocks with bussed interlinks. Impact resistant housing and cable clamp. 250VAC@5A. Rainproof.

MICROSWITCHES

A range of popular and universal application microswitches. All of the switches below are rated for mains (250VAC) use and are industry standard dimensions and mounting centres.

All microswitches come as a 1pole change-over (SPDT) switch - i.e: N.C./N.O. switch contact.

Where the operating object is moving (i.e. a cam or moving rod) use a roller type actuator to help minimise wear.

Actuator travel should be minimal - typically within 2mm at the actuation point. If more travel is required, a spring actuator such as 24101 will handle much more over-travel.

Mounting holes should never be drilled as this will cause damage to, and expose, the switch contacts.

4mm mounting hole switches are sealed to IP65 and are suitable for low voltage use where exposed to periodic splash.



4mm

24100

Microswitch.

Button plunger actuator.

Off/on (SPDT) N.C./N.O. contact.

Commonly used on fuel pump
in engine brake system.

12VDC@15A.

4mm mounting holes.



4mm

24106

Microswitch.

Roller plunger actuator.

Off/on (SPDT). 12VDC@15A.

4mm mounting holes.



24104

Microswitch soft backshell
with 45° cable exit strain relief.

Suits **24100, 24101, 24106,**
24328, 24329, 24330.



360°
actuator

4mm

24101

Microswitch. Spring actuator.

Off/on (SPDT)

Commonly used on clutch pedal
in engine brake system.

Ideal for universal applications
where actuator over-travel and/or
switch actuation over 360° is
required such as linkage or
levers. This actuator also
makes for easy adaptation to
many applications.

12VDC@15A.

4mm mounting holes.



4mm

24328

Microswitch.

65mm lever actuator.

Off/on (SPDT). 12VDC@15A



3mm

24105

Mini microswitch.

27mm lever actuator.

Off/on (SPDT). 12VDC@6A



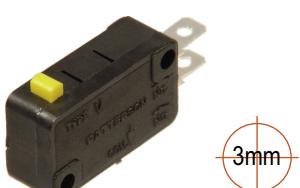
4mm

24329

Microswitch.

47mm lever roller actuator.

Off/on (SPDT). 12VDC@15A



3mm

24107

Mini microswitch.

Button actuator.

Off/on (SPDT). 12VDC@3A

BATTERY SWITCHES

All units below are quality made to OEM specifications.

Lockout kits are offered for applications that require switches to locked in the off position to comply with safety or security regulations.

When tightening connections, two spanners should be used to prevent the terminal stud from breaking out of the switch body.



61070

Battery switch. Suits light truck and plant equipment.

- Lever actuator
- Lug covers
- With alternator field cut circuit
- Continuous load - 180A@12VDC
- Maximum load - 1000A@12VDC for 20 seconds



61075

Battery switch. Suits light truck and plant equipment.

- Lever actuator & indexing post
- With alternator field cut circuit
- Continuous load - 180A@12VDC
- Maximum load - 1000A@12VDC for 20 seconds
- Lug covers



61077

Lockout kit suit 61070 & 61075. Plain silver metal finish.



61077R

Lockout kit suit 61070 & 61075. Red painted finish.



61077Y

Lockout kit suit 61070 & 61075. Yellow painted finish.



610701

Mounting bracket suit 61053, 61070, 61075 switches

- 90x90mm face plate area
- 90x60mm mounting face area
- Multiple fastener holes
- Indexing post hole
- 'BATTERY ISOLATOR' label



BATTERY ISOLATOR

STARTER ISOLATOR

610702

Mounting bracket suit 61053, 61070, 61075 switches and 175A & 350A SC connector.

- 90x90mm face plate area
- 90x60mm mounting face area
- Mounting surface for SC connector
- Multiple fastener holes
- Indexing post hole
- Includes fasteners for 175A & 350A SC connectors
- 'BATTERY ISOLATOR' label
- 'STARTER ISOLATOR' label

BATTERY SWITCHES

All units below are quality made to OEM specifications in EEC, Australia or New Zealand.

We offer a range of through panel and surface mounting switches.

When tightening connections, two spanners should be used to prevent the terminal stud from breaking out of the switch body.



61050

Single pole battery switch kit.
Suits heavy truck.

- Includes 'BATTERY ISOLATOR' decal
- Black, yellow and red key boots
- Removable key with key chain
- Includes terminal lug covers
- Sealed to IP61 (excludes terminals)
- Continuous load - 250A@12-24VDC
- Maximum load - 2500A for 5 seconds



610634

Mine Spec battery switch lockout.

- Suits both our 61050 & 61063 switches
- Dual 8mm mounting holes
- Heavy duty cast steel construction
- Red powder coat finish
- Rubber flange gasket and actuator seal
- Accepts common 5mm dia. shackle



61051

Replacement key suit 61050



610502

Yellow lockout
bracket
suit 61050



610505

Angle mounting
bracket
suit 61050



61053

Battery switch. Suits 4WD, truck, mining and marine applications.

- Integrated lockout feature
- Sealed to IP67 (excludes terminals)
- Removable selector knob.
- Continuous load - 300A@12VDC
- Maximum load - 3000A@12VDC for 15 seconds



**BATTERY
ISOLATOR**

**STARTER
ISOLATOR**

610702

Mounting bracket suit 61053, 61070, 61075 switches and 175A & 350A SC connector.

- 90x90mm face plate area
- 90x60mm mounting face area
- Mounting surface for SC connector
- Multiple fastener holes
- Indexing post hole
- Includes fasteners for 175A & 350A SC connectors
- 'BATTERY ISOLATOR' label
- 'STARTER ISOLATOR' label



610503

Decal suit
61050 & 61063



610504

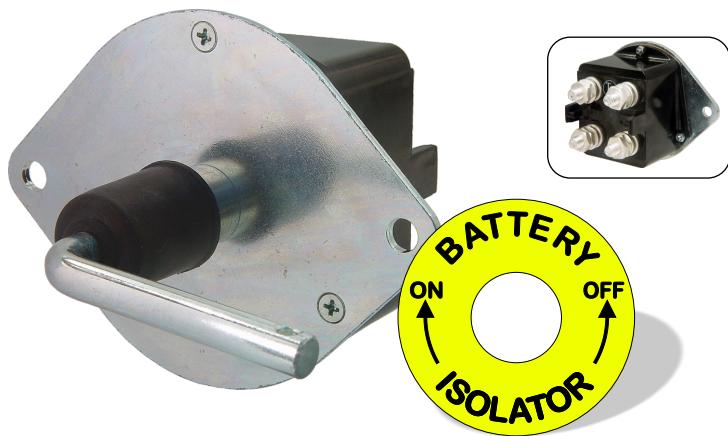
Decal suit
61050 & 61063

BATTERY SWITCHES

All units below are quality made to OEM specifications in EEC, Australia or New Zealand.

Lockout kits are offered for applications that require switches to locked in the off position to comply with safety or security regulations.

When tightening connections, two spanners should be used to prevent the terminal stud from breaking out of the switch body.



61063

Dual pole battery switch. Suits heavy truck, plant & earthmoving.

- Supplied with warning decal, removable key and boot
- 10mm terminal studs
- Continuous load - 250A@12-24VDC
- Maximum load - 2500A @12V for 5 seconds
- 1250A @24V (1250A per circuit) for 5 seconds



610633
Angle mounting bracket
suit 61063



610631
Red lockout bracket
suit 61063

610532
Yellow lockout bracket
suit 61063



610504
"Battery Isolator" decal
suit 61050 and 61063.
Self adhesive backed.



610634

Mine Spec battery switch lockout.

- Suits both our 61050 and 61063 switches
- Dual 8mm mounting holes
- Heavy duty cast steel construction
- Red powder coat finish
- Rubber flange gasket and actuator deal
- Accepts common 5mm diameter padlock shackle



61045

Marine grade battery switch.

Suits petrol engines and
light truck diesel engines.

IP61 rated.

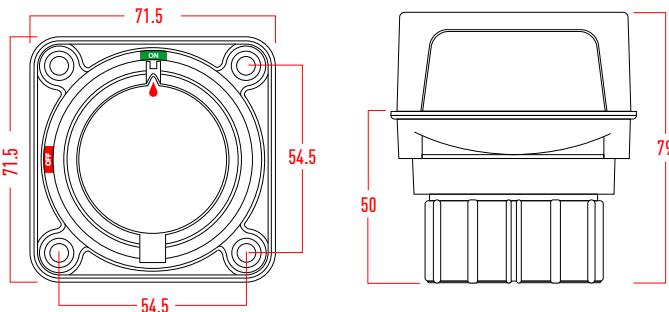
Cont. load: 100A@12-24VDC

Max load: 500A@5 seconds

Replacement key: **61046**

BATTERY SWITCHES

All units below are quality made and suit cars, commercial and service vehicles, RVs, 4WDs, caravans and marine applications.
Compact size allows them to be mounted in more locations and are ideal for accessory circuit isolation switches.



Can be panel mounted with supplied gasket via 60mm mounting hole.

61062

- Single pole battery switch with volt meter.
- 5-60VDC blue LED voltmeter operates in ON position
- Max. continuous load - 250A@12VDC
- Max. intermittent load - 300A @12V for 30 seconds.
- Silver plated contacts
- Rugged housing for -40°C to +80°C environments
- Surface mounting enclosure with removable cut outs
- Can be panel mounted with supplied gasket
- 10mm battery cable studs



61045

Marine grade battery switch.

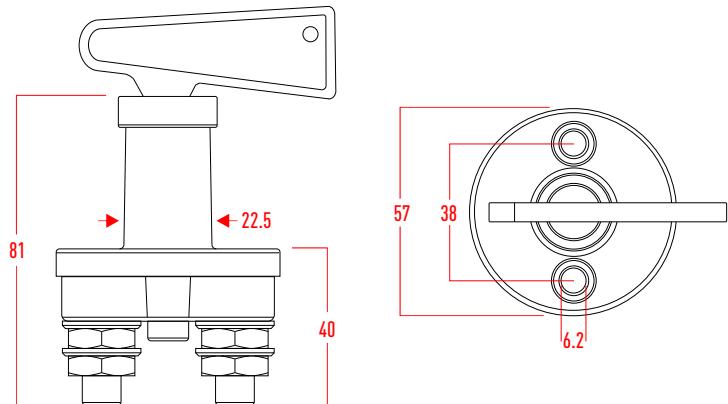
Suits petrol engines and light truck diesel engines.

IP61 rated.

Cont. load: 100A@12-24VDC

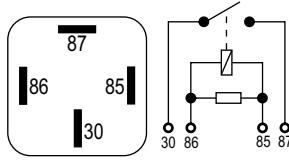
Max load: 500A@5 seconds

Replacement key: **61046**



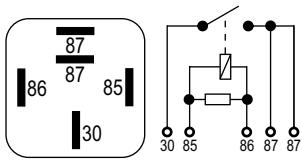
RELAYS - UNIVERSAL

Our standard mini relays are supplied by makers that manufacture predominately to O.E.M. customers in the automotive industry. All our mini relays are supplied with separate metal mounting brackets making them suitable for relay boxes as well as stand alone use and feature silver alloy contacts. Most common types are epoxy sealed to IP67. We also provide a range of relay holders and relay blocks for mini and micro relays and some can be stacked with fuse boxes to form combinations of, and multiples of, relay-fuse boxes.



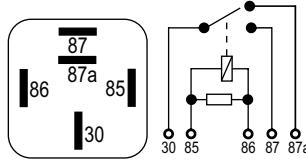
23405

4pin relay. 12V/40A.
Silver contacts.
Standard pinout.
Resistor protected.



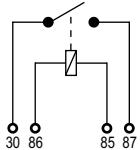
23312

5pin relay. 12V/40A.
Silver contacts.
Standard pinout.
Resistor protected.
Sealed to IP67.



23512

5pin changeover relay.
12V/40A.
Silver contacts.
Standard pinout.
Resistor protected.
Sealed to IP67.

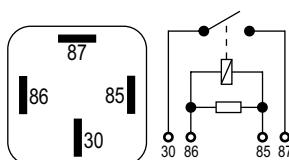


68022

High Current Relay.
12V/200A rated.
SPST silver contacts
6.3mm Q.C coil terminals
6mm ring load terminals

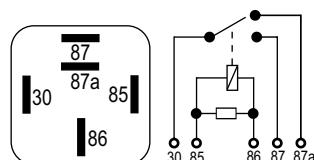


IP67



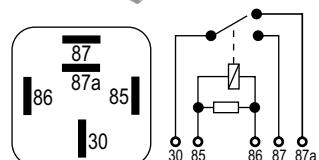
68012

4pin relay. 12V/80A.
Silver contacts.
Standard pinout.
Resistor protected.
9.5mm Q.C. terminals.
Sealed to IP67.



23209

5pin changeover relay.
12V/30A. Silver contacts.
European pinout.
Resistor protected.
Removable bracket.



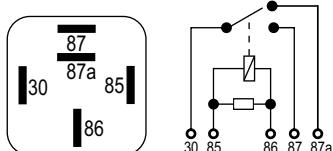
68013

5pin changeover relay.
12V/60A.
Standard pinout.
Resistor protected.
9.5mm Q.C. terminals.

68012 but 24V/50A.
Silver contacts.
Standard pinout.
Resistor protected.
9.5mm Q.C. terminals.

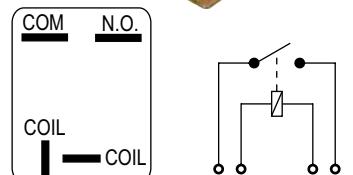
RELAYS - REPLACEMENT

Our standard mini relays are supplied by makers that manufacture predominately to O.E.M. customers in the automotive industry. Most of our relays are supplied with separate metal mounting brackets making them suitable for relay boxes as well as stand alone use. We also provide a range of relay holders and relay blocks for mini and micro relays and some can be stacked with fuse boxes to form combinations of, and multiples of, combination relay / fuse boxes.



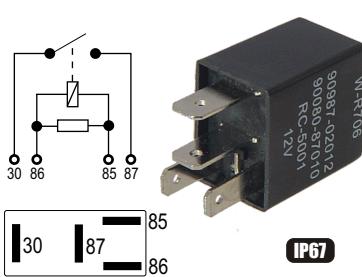
23209

5pin changeover relay.
12V/40A. Silver contacts.
Removable bracket.
European pinout suit
GMH applications.



23314

4pin glow plug relay.
Intermittent duty.
12V/100A.
Removable bracket.



23210
4pin micro relay.
12V/35A. Silver contacts.
Resistor protected.
Sealed to IP67

23214
As above but 24V/35A.



Our waterproof relays are commonly found on many applications subject to moisture and dust such as marine, earthmoving, 4WD and heavy transport.



28506

Spare terminal suit
23500 relay base.
Accepts 5mm auto
(12AWG) cable.

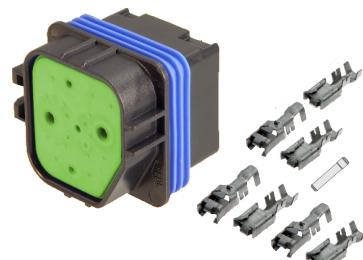
28507

Spare terminal suit
23500 relay base.
Accepts 3-4mm auto
(16-14AWG) cable.



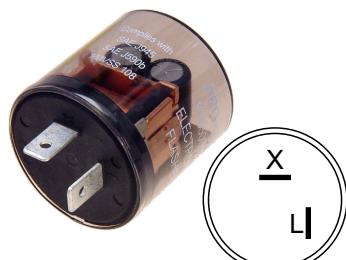
27046

Spare cavity plug suit
23500 relay base.



23500

Water & dustproof relay base suit
23501/23502/23503 relays. Supplied with terminlas to suit 5mm & 4mm auto cable & cavity plug.



Ef12

2pin universal flasher.
Non load sensing.
12V/20A



23501

12V/40A 5pin relay

23502

12V/40A 5pin
changeover relay

23503

24V/40A 5pin relay



EF13

3pin universal flasher.
Non load sensing.
12V/20A

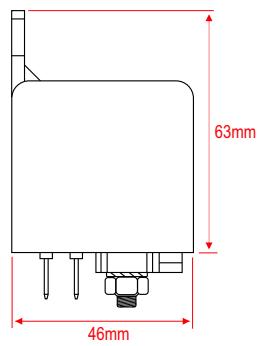
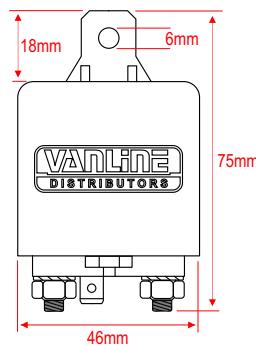
RELAYS - SPECIALTY

Our specialty relays are supplied by makers that manufacture predominately to O.E.M. automotive & industrial customers.

68022

High Current Relay

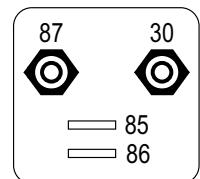
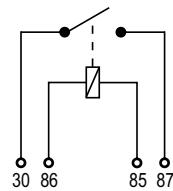
- 12V/200A rated
- SPST silver contacts
- 6.3mm Q.C coil terminals
- 6mm ring load terminals



68023

High Current Relay

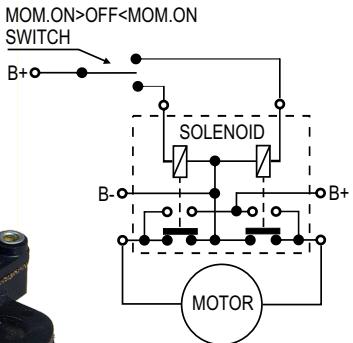
- 24V/100A rated
- SPST silver contacts
- 6.3mm Q.C coil terminals
- 6mm ring load terminals



SOLENOIDS

When selecting a solenoid switch it is important to match the type of solenoid to the application. Plastic case solenoids are ideal for most transport environments and exceed most standard metal case solenoids for performance and corrosion resistance.

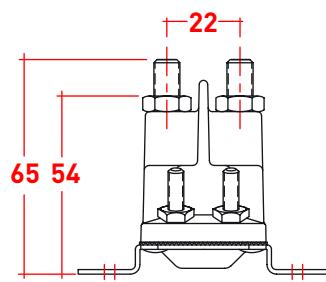
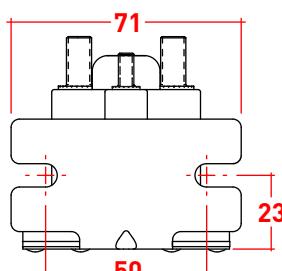
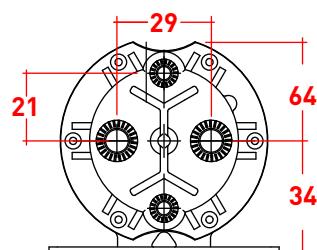
Motor reversing solenoids do the work of two high performance winch solenoids without the time consuming, inefficient interlink arrangement and lend themselves to simpler field servicing with the advantages of a corrosion resistant housing.



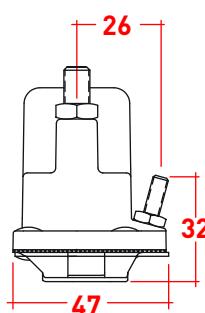
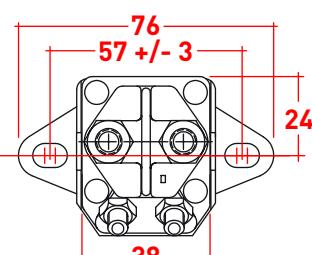
23081
12V cont. duty solenoid

- 200A continuous nom.
- 1000A inrush
- Silver alloy contacts
- Corrosion resistant
- Sealed to IP66/IP67, IEC 60529.

23083
As above but 24V



24624
As above but 24V

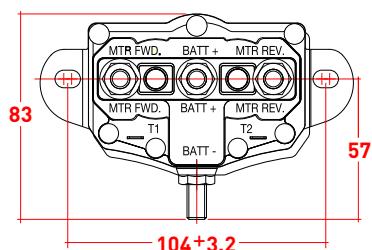
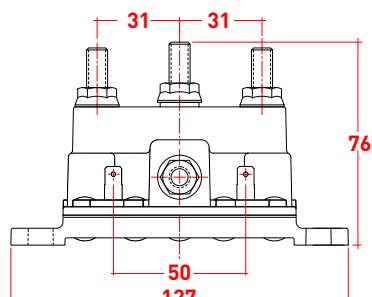


24450
12V motor reversing solenoid.

- Intermittent duty.
- Glass-filled nylon body
- Provides dynamic braking for permanent magnet motors when de-energised
- Corrosion resistant housing
- 75A for 5min/125A for 30sec (Allow 5min. off time between cycles.)

More specs. available.

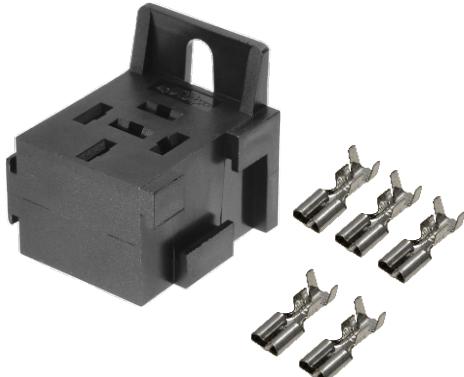
24451
As above but 24V.



23088
24V/ 80A continuous duty. Copper contacts.

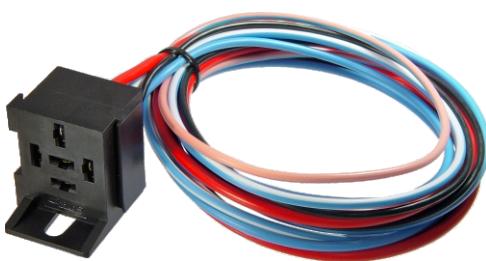
RELAY HOLDERS

Our relay block are stackable to expand capacity for a quick and inexpensive solution for smaller applications requiring plug-in relays. Where four or more mini relays or seven or more micro relays are required it is recommended that relay boxes be used. These provide for simple expandability, integrated and multiple supply bussing all with an OEM finish. Our relay boxes can be integrated with our standard and mini blade fuse boxes for an all-in-one power distribution solution.



23000

Mini relay base suit 4 & 5pin mini relays with 6.4mm tab Q.C. terminals. Stackable. Supplied with terminals.



23001

Pre-wired 23000 relay base. Pin 30 wired with 5mm auto cable. Pins 87/87(a) are wired with 4mm auto cable. All cable is uniformly colour coded and 1M in length.



23006

Pre-wired 23005 relay plug. Pre wired with 4mm auto cable. All cable is uniformly colour coded and 1M in length.



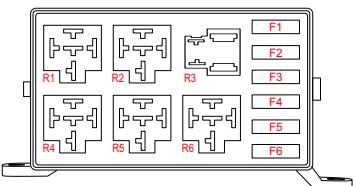
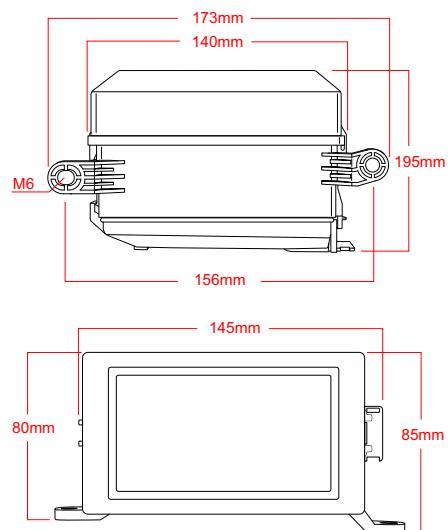
68082

Mini relay base suit 4 & 5pin mini relays with 9.5mm & 6.4mm tab Q.C. terminals. Stackable. Supplied with terminals.



23005

Mini relay plug suit 4 & 5pin mini relays with 6.4mm tab Q.C. terminals. Supplied with terminals.



23007

Combination relay and fuse box. Accepts five mini relays and six standard blade fuses.



68086

Micro relay base suit 4 & 5pin micro relays with 6.4mm & 4.8mm tab Q.C. terminals. Stackable in two axis. Supplied with terminals.

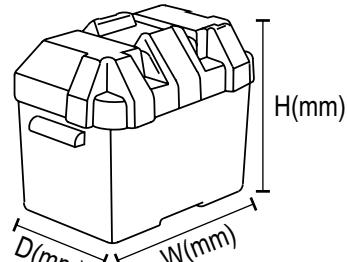
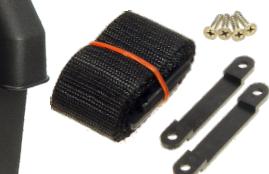
BATTERY ACCESSORIES

A range of battery accessories. Battery boxes are ideal for boats and auxiliary or remote battery applications. Batteries should be a snug fit in a battery box - a loose fit can damage the battery and/or box, loosen and weaken connections and pose a potential fire hazard. Suitable battery sizes shown are nominal only.



26072

Battery box. Complete with hold-down strap. 275(H)x275(W)x188(D) Suit N50Z size battery.



Base dimensions and overall height

26073

Battery box. Complete with hold-down strap. 267(H)x310(W)x188(D) Suit N70ZZ size battery.



26080

178mm (7") battery hold-down clamp set. Non corrosive plastic crossbar and cadmium plated steel hooks and wingnuts.

26081

140mm (5 1/2") battery hold-down clamp set. Non corrosive plastic crossbar and cadmium plated steel hooks and wingnuts.

09956

Battery terminal protector spray. Use immediately after cleaning to provide long term protection from acid salt residue build up. Leaves a blue film. Can be used on connections such as grounding cables, earth straps and terminal/barrier strips. 140g pressure pack



26090

Alligator clips. Ideal for test leads. 5A rated. Colour coded.



26100

Charger clips. Ideal for battery chargers. 50A rated. Colour coded.



26106

Jumper clamps. Fully insulated jaws. Inbuilt shunt. Rated to 500A. Colour coded.

BATTERY TERMINALS

A range of popular battery terminals for most applications. Unless otherwise noted, all terminals fit standard size battery terminal posts. Some terminals are universal fitting while others are designed specifically for negative or positive size posts. All our terminals are brass while solder types are tinned brass.



26006

'Marine' wingnut type.
Negative only. 8mm stud.



26004

'Marine' bolt & lug type.
Negative. 8mm stud

26005

As above but Positive.



26040

Jumper terminal with
black boot.
Panel mounting.
10mm stud with cover.



26085

Battery terminal & post
cleaner tool



26007

'Marine' wingnut type.
Positive only. 8mm stud



26019

'Marine' heavy duty
bolt & lug type.
Positive only. 10mm stud

26020

As above but Negative.



26015

'Marine' heavy duty
wingnut type.
1ea negative & positive.
10mm stud.



26010

Saddle back type.
Universal fit.
Suits up to 1B&S cable.

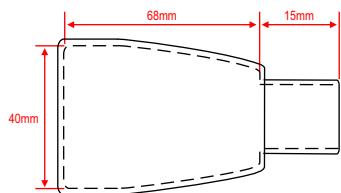
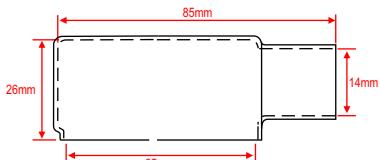


26041

Jumper terminal with
red boot.
Panel mounting.
10mm stud with cover.

STRAIGHT BATTERY TERMINAL COVERS

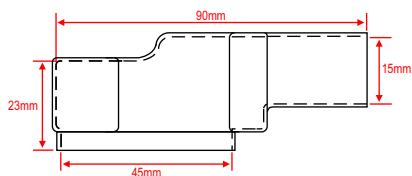
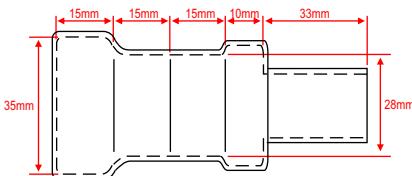
Terminal insulators are commonly used to protect exposed terminals from inadvertent cross and short circuiting. They are often mandatory fitment to storage cells such as vehicle batteries in mining and other high risk areas. All insulators are made from self extinguishing V105 vinyl material, service rated to 105C°.



13310 - RED

13311 - BLACK

Suit entry battery terminals such as 26002, 26005, 26019, 26020 & 26025.

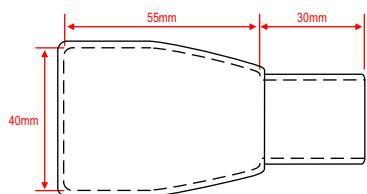
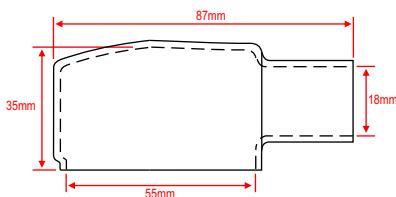


13326 - RED

13327 - BLACK

Specifically designed to suit end entry saddle-back battery terminals such as 26010 & 26011.

Provides snug fitment around terminal shape.



13314 - RED

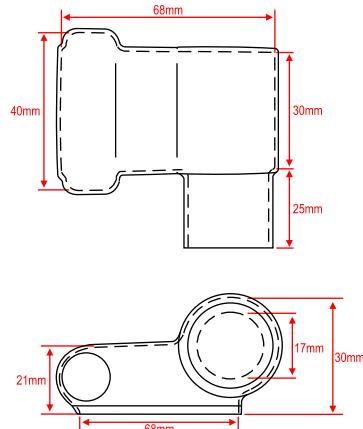
13315 - BLACK

Suit end entry battery terminals such as 26002, and bolt-on types 26019, 26020 all with cable up to 000B&S.

Suit smaller wing-nut type terminals such as 26006 & 26007.

ANGLED BATTERY TERMINAL COVERS

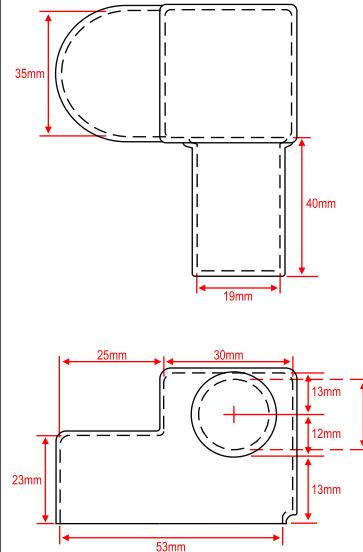
Terminal insulators are commonly used to protect exposed terminals from inadvertent cross and short circuiting. They are often mandatory fitment to storage cells such as vehicle batteries in mining and other high risk areas. All insulators are made from self extinguishing V105 vinyl material, service rated to 105C°.



13322 - RED

13323 - BLACK

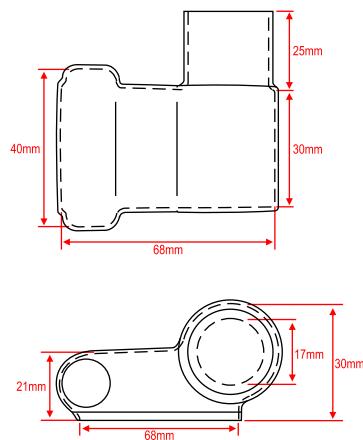
Suit RH side entry terminals battery terminals such as 26005, 26006, 26007, 26021, 26025.



13330 - RED

13331 - BLACK

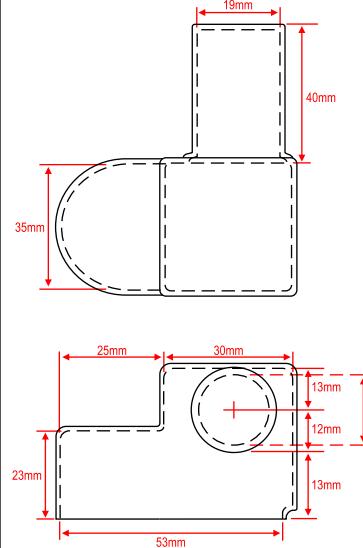
Suit RH side entry terminals battery terminals such as 26005, 26006, 26007, 26021, 26025.



13318 - RED

13319 - BLACK

Suit LH side entry terminals battery terminals such as 26005, 26006, 26007, 26021, 26025.



13334 - RED

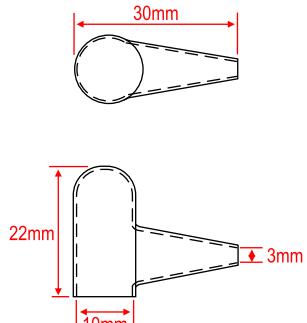
13335 - BLACK

Suit LH side entry terminals battery terminals such as 26015, 26016, 26019, 26020.



TERMINAL STUD INSULATORS

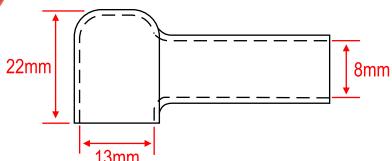
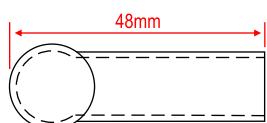
Terminal insulators are commonly used to protect exposed terminals from inadvertent cross and short circuiting. They are often mandatory fitment to storage cells such as vehicle batteries in mining and other high risk areas. All insulators are made from V105 vinyl, service rated to 105C°.



13226 - RED

13227 - BLACK

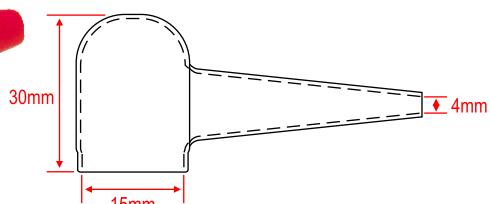
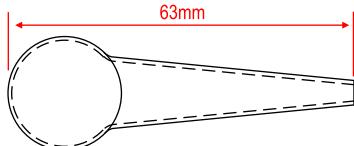
Suit studs with 11m dia. nuts. Specifically designed for use on 21015 & 21018 stud strip & auto reset circuit breakers with long studs used for terminal stacking. Also suit ignition switches, solenoids and heavy duty relays.



13218 - RED

13219 - BLACK

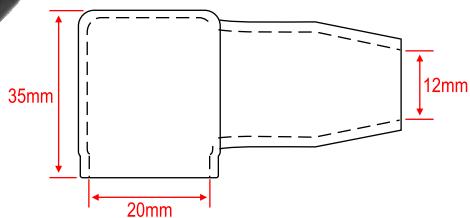
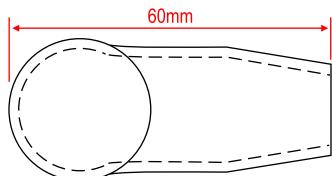
Suit studs with 13m dia. nuts such as solenoids and relays. For cable up to 6B&S.



13222 - RED

13223 - BLACK

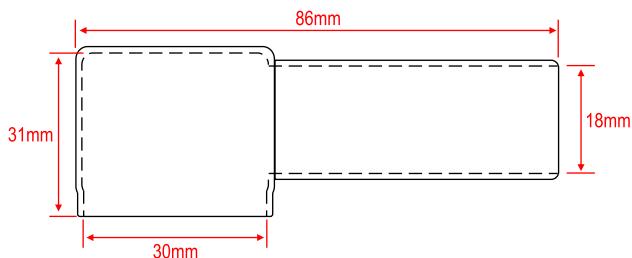
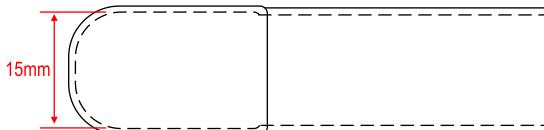
Suit studs with 15m dia. nuts such as 21011 distribution block, and battery switches. For cable 4mm auto to 6B&S (trim to suit).



13214 - RED

13215 - BLACK

Suit studs with 19m dia. nuts such as battery switches. For cable up to 2B&S.



13210 - RED

13211 - BLACK

Suit studs with 19m dia. nuts such as battery switches. For cable up to 000B&S. Rectangular opening better suits the palm shape of large cable lugs.

CABLE LUGS

All lugs and links are manufactured from 99.9% pure oxygen-free copper. They provide high conductivity / low resistance - essential for high current applications such as starter, alternator and battery connections. Barrels are long enough for double crimping, if desired, and provide a large contact area when soldering lugs. Bell mouth barrel entry guides cable strands and an inspection hole provides a visual indication of fitment. Lugs and links work with all Australian standard tooling.



CABLE LUGS

Part Number	Cross Section	Crimping Size	Soldering Size	Stud Size
26116	10mm ²	8B&S	-	6mm
26118	10mm ²	8B&S	-	8mm
26111	10mm ²	8B&S	-	10mm
26166	16mm ²	6B&S	8B&S	6mm
26168	16mm ²	6B&S	8B&S	8mm
26161	16mm ²	6B&S	8B&S	10mm
26256	25mm ²	3B&S	6B&S	6mm
26258	25mm ²	3B&S	6B&S	8mm
26251	25mm ²	3B&S	6B&S	10mm
26356	35mm ²	2B&S	3B&S	6mm
26358	35mm ²	2B&S	3B&S	8mm
26351	35mm ²	2B&S	3B&S	10mm
26508	50mm ²	1&0B&S	2B&S	8mm
26501	50mm ²	1&0B&S	2B&S	10mm
26502	50mm ²	1&0B&S	2B&S	12mm
26708	70mm ²	00B&S	1&0B&S	8mm
26701	70mm ²	00B&S	1&0B&S	10mm
26702	70mm ²	00B&S	1&0B&S	12mm
26951	95mm ²	000B&S	00B&S	10mm
26952	95mm ²	000B&S	00B&S	12mm
26122	120mm ²	0000B&S	000B&S	12mm



CABLE LINKS / JOINERS

- Repair damaged cable instead of replacing*
- Extend or join cable instead of re-wiring*

Part Number	Cross Section	Crimping Size	Link Length
26160	16mm ²	6B&S	22mm
26125	25mm ²	3B&S	48mm
26135	35mm ²	2B&S	48mm
26150	50mm ²	1&0B&S	48mm
26170	70mm ²	00B&S	52mm
26195	95mm ²	000B&S	54mm

*Adhesive lined heatshrink is recommended to insulate and environmentally seal the joint.



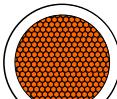
16120

Copper tube hexagonal crimping. Crimps lug and link sizes 10mm² through 120mm² and cable 8B&S through 0000B&S

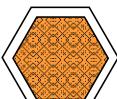
Hints on fitting lugs and links to cable

- Match the correct size cable to the correct size lug or link
- Match the hex die size to lug or link size - never over crimp
- Cable should be a snug fit inside the barrel
- Avoid contaminating the conductor, such as handling it with greasy, oily or dirty fingers, once the cable is stripped
- Use shear-cut cable cutters to avoid deforming strands
- Ensure conductor is visible at the lug inspection hole
- Use adhesive lined heatshrink to environmentally seal and electrically insulate the joint.

Barrel cross-section



Before crimping



After crimping

Lugs and links are compression terminals. They are designed to be crimped (compressed). The best form of crimping is using a die that forms a hexagonal compression pattern - known as a 'hex' crimp.

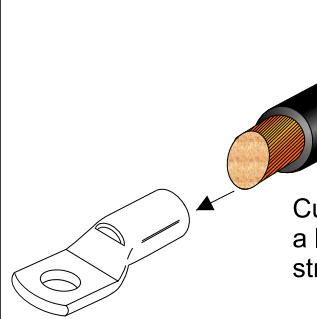
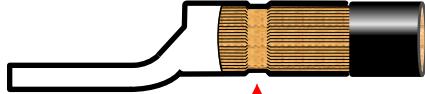
The copper, being soft, is compressed into a solid block. Voids are removed at the point of contact between the conductor and the barrel of the terminal.

Tools and terminals are designed to work within certain compression ranges, so matching terminal to cable size is important to avoid bad connections, heat buildup and tool damage.

'Indent' type crimpers do not evenly compress the conductor and tend to introduce voids and distort the terminal barrel.

Hex crimp

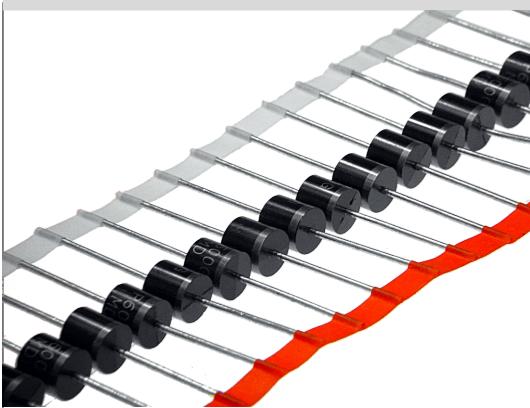
Strands are compressed into a solid block. The connection point is physically stronger than the cable alone.



Cutting cable at a slight angle provides a leading edge and helps minimise strands from splaying.

BLOCKING DIODES

Other models are available as special order - see our Distribution catalogues for more.



08201

1A rectifier/blocking diode

- For 2-100VDC systems
- Peak reverse voltage: 300V
- Max blocking voltage: 300V
- Max RMS voltage: 140V
- Max surge current: 50A
- Body diameter: 2.7mm

08203

3A rectifier/blocking diode

- For 2-100VDC systems
- Peak reverse voltage: 1000V
- Max blocking voltage: 1000V
- Max RMS voltage: 700V
- Max surge current: 125A
- Body diameter: 5mm

08206

6A rectifier/blocking diode

- For 2-100VDC systems
- Peak reverse voltage: 1000V
- Max blocking voltage: 1000V
- Max RMS voltage: 700V
- Max surge current: 300A
- Body diameter: 9mm

CHARGERS + BATTERY PACKS

All reducers carry a 2 year warranty. Jump packs carry a 1 year warranty
Using these units for other than their intended use will void warranty.



26095

12VDC 20Ah Battery pack

- For jump starting and general 12VDC power supply source
- Will start most 12V vehicles
- Powers 12VDC accessories
- Powers 19VDC laptops
- Lithium Polymer battery
- Fully protected jump clamps
- Reverse polarity protected
- Inbuilt LED torch
- Multiple USB charge out ports
- Backlit LCD & audible indicators
- USB fast charge input
- Comes with jumper clamps, mains charger, car charger, multi phone charger cables, carry case
- Compact - full carry kit is 190x250x60mm (LxWxH)



08160

12VDC battery voltage level indicator.

- Indicates voltage levels via varying colour and constant or flashing light
- Push fit jumbo 10mm LED
- Soft, even light output is easy on the eye when driving at night
- Diffused light for wide viewing angle
- <10.7VDC - fast red pulse light
- 10.7VDC - red flashing light
- 11VDC - steady red light
- 11.2VDC - Yellow fast pulse light
- 11.5VDC - Yellow flashing light
- >12.1VDC - steady green light

VOLTAGE REDUCERS + DOUBLERS

All reducers carry a 2 year warranty. Using these units for other than their intended use will void warranty.
Other models as special order. All units are convection cooled and ventilation must be provided.



08006

Mini voltage reducer.

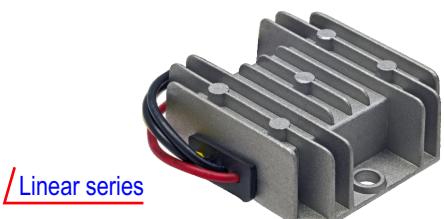
- 18-80VDC input
- 12VDC output
- 3A total load
- Over-current, voltage, temp., polarity, short circuit protection
- Auto recovery from fault
- IP68, CE, RoHS compliant
- LxWxH: 65x24x20mm
- Ideal for lighting applications



08003

Mini voltage reducer.

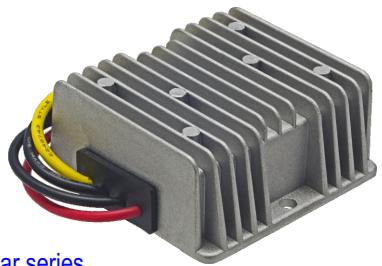
- 18-35VDC input
- 12VDC output
- 5A total load
- Over-current, voltage, temp., polarity, short circuit protection
- Auto recovery from fault
- IP68, CE, RoHS compliant
- LxWxH: 64x32x18mm
- Ideal for lighting applications



08001

Compact voltage reducer

- 10A/120W continuous
- 18-36VDC input / 12VDC out
- <2% load regulation
- <80mVp-p ripple
- Over-current, voltage, temp., polarity, short circuit protection
- Auto fault recovery
- Potted electronics - IP68 rated
- LxWxH: 57x64x23mm
- CE, RoHS compliant



08004

- 12-24VDC voltage doubler
- 20A/240W continuous
- 10-23VDC input / 24VDC out
- <1% load regulation
- <200mVp-p ripple
- Over-current, voltage, temp., polarity, short circuit protection
- Auto fault recovery
- Potted electronics - IP68 rated
- LxWxH: 73x73x33mm
- CE, RoHS compliant



08002

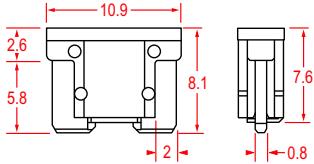
Compact voltage reducer

- 20A/240W continuous (250W peak)
- 15-40VDC input / 12VDC out
- <2% load regulation
- <50mVp-p ripple
- Over-current, voltage, temp., polarity, short circuit protection
- Auto fault recovery
- Potted electronics - IP68 rated
- LxWxH: 73x73x33mm
- CE, RoHS compliant

MICRO & MINI BLADE FUSES

A range of popular fuses to meet most applications. Current ratings are nominal maximum values and generally the point at which the fuse will go open circuit. These fuses can be classed as fast acting when compared to thermal devices such as circuit breakers and fusible links etc. Unless otherwise indicated, all fuse holders and fuse boxes are rated to 32VDC and should not be exposed to the elements. Splashproof fuse holders are designed for infrequent exposure to large water droplets - not pressure washing or immersion.

Micro (ATT) blade fuse



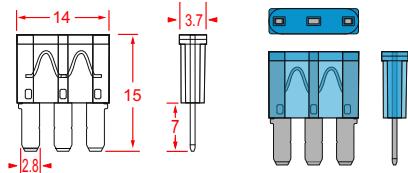
52505 - 5A
52507 - 7.5A
52510 - 10A
52515 - 15A
52520 - 20A
52525 - 25A
52530 - 30A



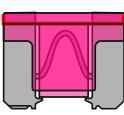
29232

Power-take off.
Suit micro blade fuses.

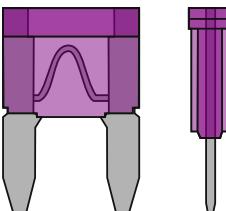
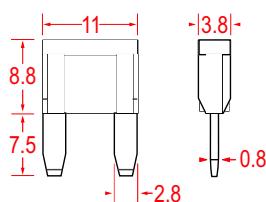
Micro 3 (ATL) blade fuse



29731 - 5A
29732 - 7.5A
29733 - 10A
29734 - 15A

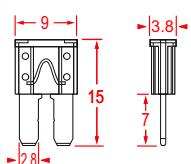


Mini (ATM) blade fuse



29748 - 3A
29741 - 5A
29742 - 7.5A
29743 - 10A
29744 - 15A
29745 - 20A
29746 - 25A
29747 - 30A

Micro 2 (ATR) blade fuse

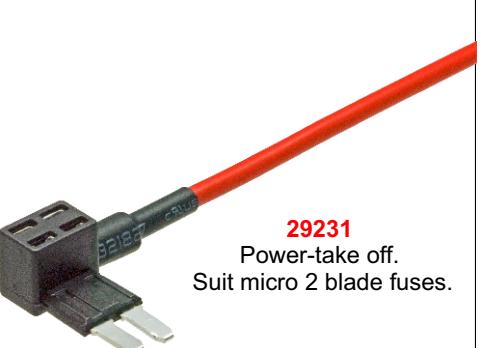


29721 - 5A
29722 - 7.5A
29723 - 10A
29724 - 15A
29725 - 20A
29726 - 25A



29233

Power-take off.
Suit mini blade fuses.



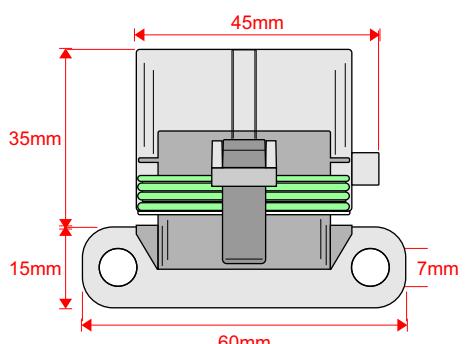
29231

Power-take off.
Suit micro 2 blade fuses.



29201

Mini blade fuseholder with cover.
30A. Molded vinyl with cap.
Pre-wired with 5mm auto cable.
Splashproof.

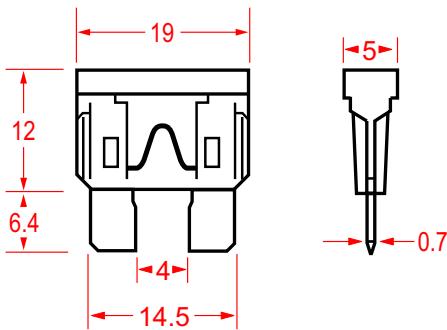


29214

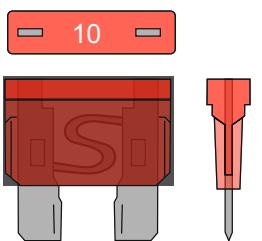
4 way waterproof mini blade fuseholder with clear cover.
Suits mini blade fuse and mini blade circuit breaker.
Complete kit with wire seals, terminals and bracket.

STANDARD & MAXI BLADE FUSES

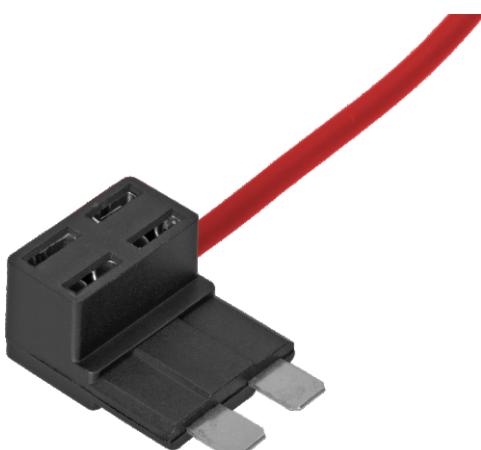
A range of popular fuses to meet most applications. Current ratings are nominal maximum values and generally the point at which the fuse will go open circuit. These fuses can be classed as fast acting when compared to thermal devices such as circuit breakers and fusible links etc. Unless otherwise indicated, all fuse holders and fuse boxes are rated to 32VDC and should not be exposed to the elements. Splashproof fuse holders are designed for infrequent exposure to large water droplets - not pressure washing or immersion.



Standard (ATC) blade fuse



- 29701** - 3A
- 29702** - 5A
- 29703** - 7.5A
- 29704** - 10A
- 29705** - 15A
- 29706** - 20A
- 29707** - 25A
- 29708** - 30A
- 29709** - 40A



29234

Power-take off.
Suit standard blade fuses.



29203

Standard blade fuseholder.
30A. Molded vinyl with cap.
Pre-wired with 5mm auto cable.
Splashproof.

29209

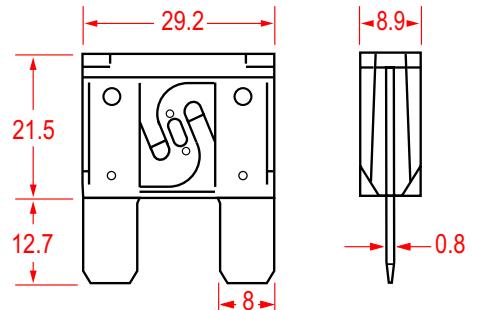
As 29203 but with 10A cable



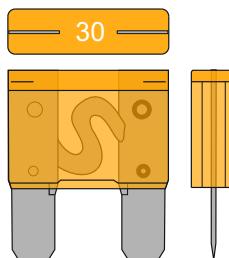
29205

Standard blade fuseholder.
30A. Waterproof.
Supplied with terminals (**28506**)
to suit 5mm auto cable &
(**28507**) to suit 3-4mm auto cable.

292051
As 29205 but pre-wired
with 150mm of 25A cable.



Maxi (APX) blade fuse



- 29751** - 100A
- 29752** - 20A
- 29753** - 30A
- 29754** - 40A
- 29755** - 50A
- 29756** - 60A
- 29757** - 70A
- 29758** - 80A



29213

Maxi blade fuseholder.
80A. Molded vinyl with cap.
Pre-wired with 8B&S auto cable.
Splashproof.

STANDARD BLADE FUSE BOXES

A range of popular standard blade (ATC) fuse boxes to meet most applications.

Unless otherwise indicated, all fuse boxes should not be exposed to the elements.

Pressure cleaning at any pressure or temperature may cause moisture ingress and corrosion.

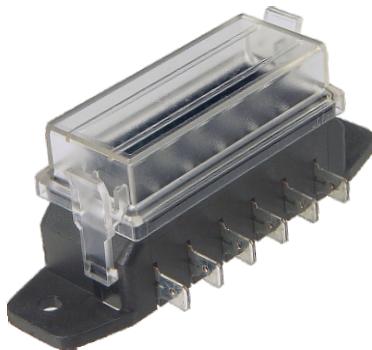


29221

Standard blade fuse box.

4 way with clear lid.

Terminals are encased in base
via QC tabs.



54422

Standard blade fuse box.

6 way with clear lid.

6 circuits in - 6 circuits out.
Side entry QC tabs.



54431

Standard blade fuse box.

6 circuit with clear lid
and decals. Q.C. tabs.

1 circuit in - 6 circuits out.

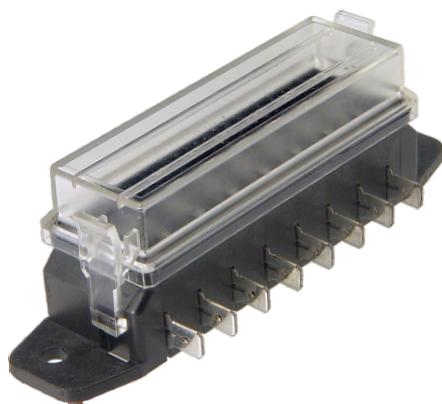


29222

Standard blade fuse box.

6 way with clear lid.

Terminals are encased in base
via QC tabs.



54424

Standard blade fuse box.

8 way with clear lid.

8 circuits in - 8 circuits out.
Side entry QC tabs.

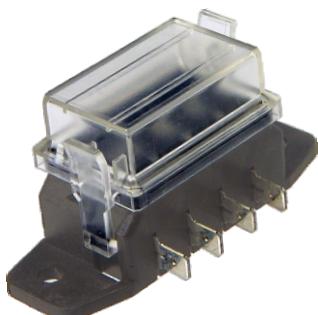


54433

Standard blade fuse box.

8 circuit with clear lid
and decals. Q.C. tabs.

1 circuit in - 8 circuits out.



54420

Standard blade fuse box.

4 way with clear lid.

4 circuits in - 4 circuits out.
Side entry QC tabs.



54450

Standard blade fuse box.

12 way with clear lid.

2 circuits in - 12 circuits out.
Screw terminations.
Grounding stud.



54435

Standard blade fuse box.

10 circuit with clear lid
and decals. Q.C. tabs.

1 circuit in - 10 circuits out.

FUSE BOXES WITH GROUND BUSSING

A range of popular size fuse boxes featuring bussing for centralised ground (-ve) returns making them convenient for use with accessory add-on applications such as RV, 4WD, marine, plant and equipment etc. They can also be used as a basic fuse box without the bussing feature. These utilise very high quality materials such as polycarbonate covers, nylon or polyester bases and stainless steel fasteners and fuse contacts. Fuse boxes should not be directly subjected to the elements but can be regarded as splash-proof (infrequent exposure to large water droplets)

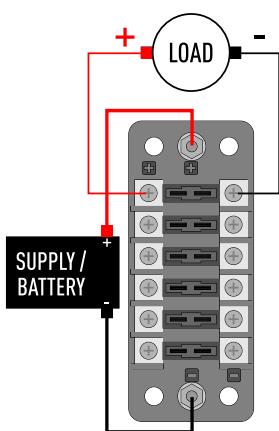
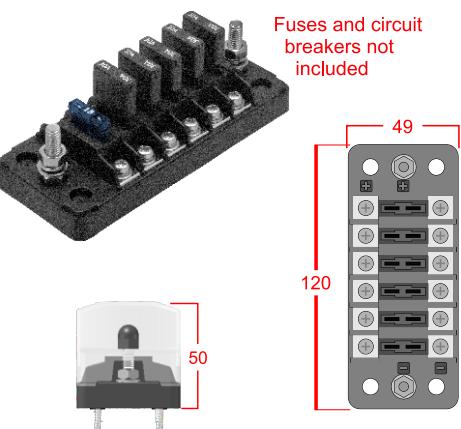


29240

1 in - 6 out blade fuse box

- Accepts standard blade fuses and blade fuse circuit breakers
- Six way ground buss link
- 0-32VDC (max.) rated
- 75A total supply current capacity
- M6 +V and -V main studs
- M4 breakout circuit screws for use with ring (recommended) or fork terminals
- Stainless steel fasteners and fuse contacts
- Polycarbonate fasten-down lid covers all terminations
- Thermoplastic (PA66) base and back
- Comprehensive 120pc label set

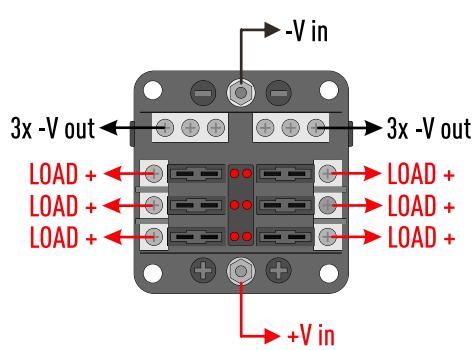
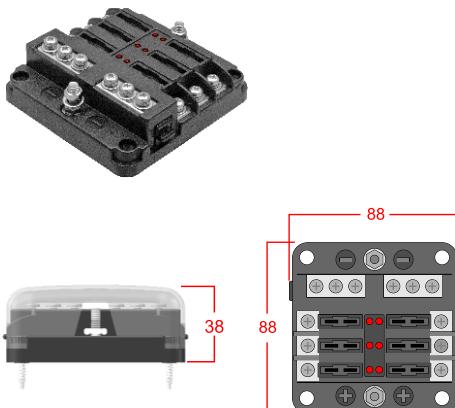
Fuses and circuit breakers not included



29244

1 in - 6 out blade fuse box

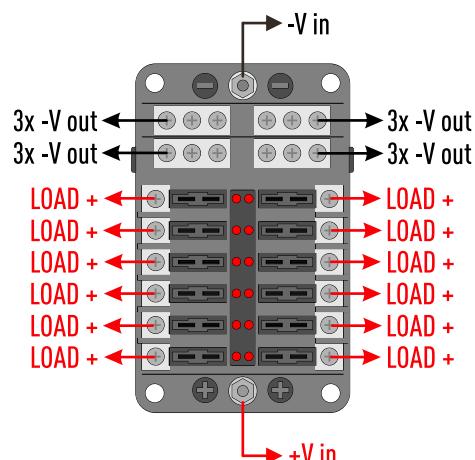
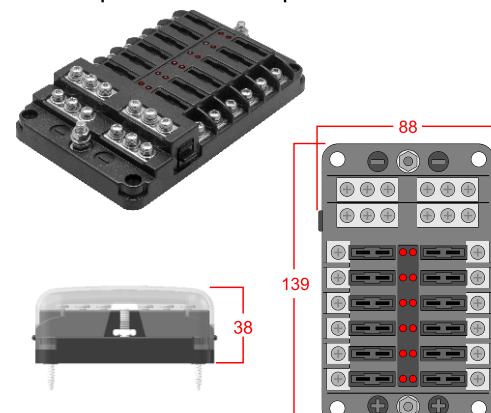
- Accepts standard blade fuses
- Individual LEDs indicates blown fuse
- Six way ground buss link
- 4-32VDC (max.) operation
- 100A total supply current capacity
- M5 +V and -V main studs
- M4 breakout circuit screws for use with ring (recommended) or fork terminals
- Stainless steel fasteners and fuse contacts
- Polycarbonate snap on lid covers all terminations
- Thermoplastic (PBT) base and back
- Comprehensive 120pc label set



29246

1 in - 12 out blade fuse box

- Accepts standard blade fuses
- Individual LEDs indicates blown fuse
- Twelve way ground buss link
- 4-32VDC (max.) operation
- 100A total supply current capacity
- M5 +V and -V main studs
- M4 breakout circuit screws for use with ring (recommended) or fork terminals
- Stainless steel fasteners and fuse contacts
- Polycarbonate snap on lid covers all terminations
- Thermoplastic (PBT) base and back
- Comprehensive 120pc label set



FUSE & RELAY BOX

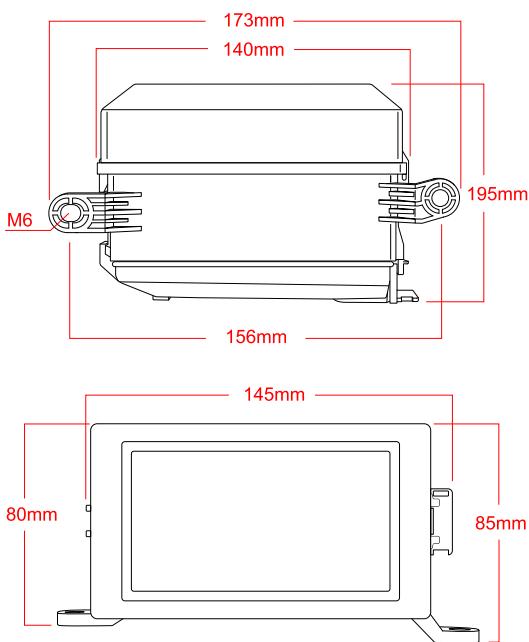
Our combination fuse and relay box is a quick and inexpensive solution for smaller add-on applications. Provides for simple a expandable, integrated solution with multiple supply bussing all with an OEM finish.
For more options see our dedicated fuse boxes and relay boxes.



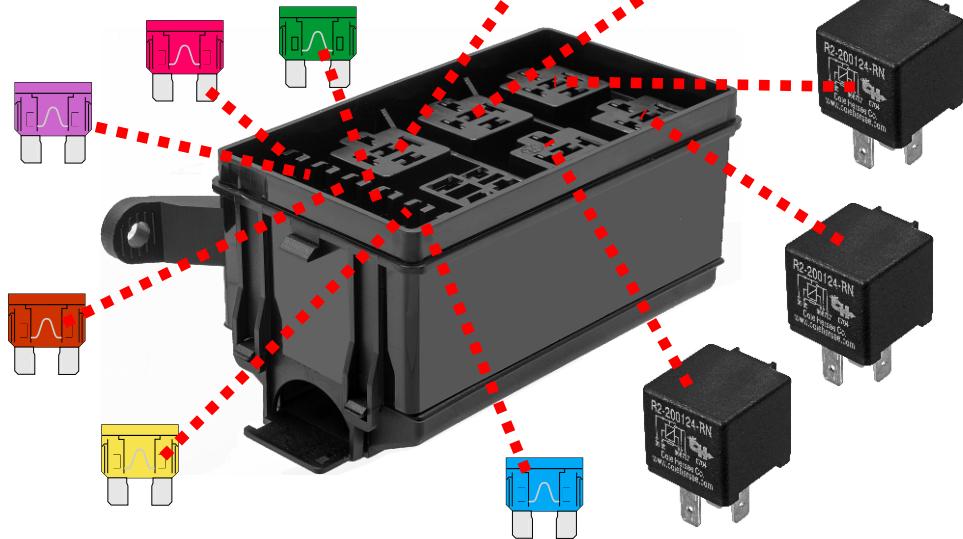
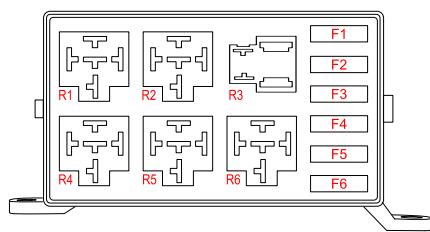
23007

Combination fuse & relay box.

- Accepts five mini relays
- Accepts six standard blade fuses
- Snap fit lid and base cover
- Cable tie tongue for conduit fixing
- Complete with terminals



RELAYS & FUSES NOT INCLUDED



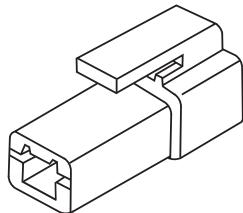
FUSIBLE LINKS

Circuit protection devices such as fusible links are used where a slow blow characteristic is required such as main battery feed for motors and lighting.

They are commonly used on vehicles as the primary bus protection between fuse boxes and the battery or supply source.

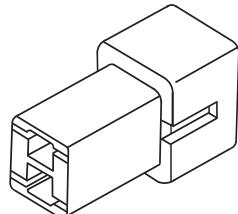
Fusible links have a very slow-blow characteristic and are therefore more tolerant to short term over current applications requiring high start-up current.

Their 100% duty cycle rating is a function of its length. The stated ratings are based on fusible link wire length of 150mm.



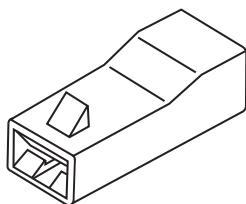
29095

1 circuit female fusible link housing



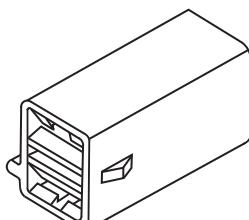
29096

2 circuit female fusible link housing



29097

1 circuit male fusible link housing



29098

2 circuit male fusible link housing



29099

Female 8mm fusible link terminal



29100

Male 8mm fusible link terminal



29104

Yellow fusible link wire.
13 strands of 0.32mm.
23A (150mm nominal length)



29106

Blue fusible link wire.
26 strands of 0.32mm.
30A (150mm nominal length)

HIGH CURRENT FUSES & FUSEHOLDERS

A range of popular high current fuses & fuse holders to meet most applications. Current ratings shown are nominal - derating factors will apply in some installations. They are designed for voltages up to 32VDC.

Unless otherwise indicated, all fuse holders should not be exposed to the elements. Pressure cleaning at any pressure or temperature may cause moisture ingress or corrosion.



- AMI cartridge fuse
- 32VDC max.
- 40x12mm overall

29351 - 30A
29352 - 40A
29353 - 50A
29354 - 60A
29355 - 70A
29356 - 80A
29357 - 100A
29358 - 125A



- AMG mega fuse
- 32VDC max.
- 69x19mm overall

29375 - 60A
29376 - 80A
29360 - 100A
29361 - 125A
29362 - 150A
29363 - 175A
29364 - 200A
29366 - 250A
29367 - 300A
29368 - 350A
29371 - 400A
29373 - 450A
29369 - 500A



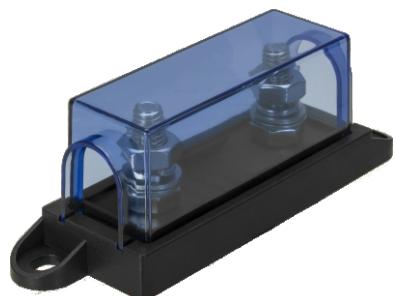
29218
AMI & strip fuse fuseholder
with window cover.
For cables up to 6B&S.
2 bolt mounting.
Stackable.



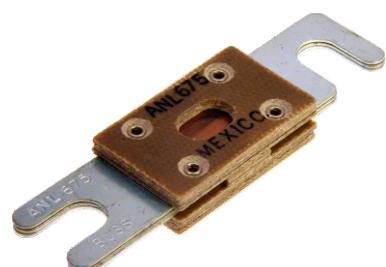
29219
AMG mega fuse holder with
rubber cover.



29217
AMG mega fuse holder.
In-line or surface mounting via
two hole mount push-clips.



29216
AMG mega fuse holder.
Surface mounting with
snap in polycarbonate lid.



29370 - 675A
29372 - 100A
29374 - 150A
29377 - 250A



29220
ANL mega fuse holder.
Surface mounting with
snap in polycarbonate lid.
Spare fuse retainer on lid.

PANEL MOUNT CIRCUIT BREAKERS

Circuit protection devices such as circuit breakers are a critical component. The current rating of a thermal breaker is the maximum rating the breaker will continuously handle without tripping - not the point at which it trips. The trip point is a function of current and time - either the longer the time or greater the excess current (over the breaker rating) determines when a breaker will trip and is usually shown on a time versus current chart. From this chart the action of a thermal breaker can be predicted. This information is available on request.



29542 - 7A
29543 - 10A
29544 - 15A
29545 - 20A
29546 - 25A
29548 - 35A
29549 - 40A

Panel mount manual reset circuit breaker

- Panel mounting via 11mm hole - 8.5mm thread length
- Manual resetting via button
- Slimline thermoplastic housing for close mounting
- Extra mounting nut embossed with 'PUSH TO RESET'
- 6.4mm quick-connect terminals



Circuit breakers
not included



29510 - 10A
29515 - 15A
29520 - 20A
29525 - 25A
29530 - 30A

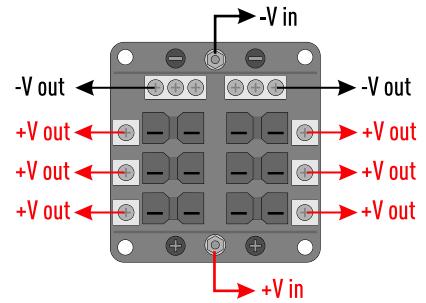
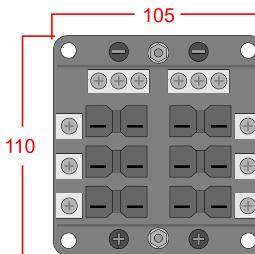
Panel mount manual reset circuit breaker

- Panel mounting via 11mm hole - 11mm thread length
- Manual resetting via button
- Slimline thermoplastic housing for close mounting
- Operating temperature: -23°C to 65°C
- Rated to 32VDC / 250VAC
- 200A/250VAC interrupt capacity
- Supplied with two mounting nuts and legend plate
- Complies to UL 1077; UL E74569; and others



29509

Waterproof boot nut suit all our panel mount manual reset circuit breakers.



29248

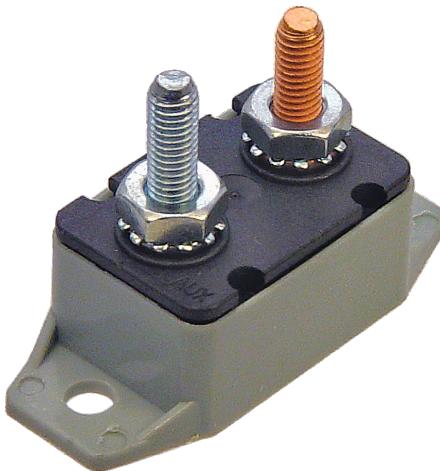
1 in - 6 out circuit breaker box with bussing

- Accepts any of our panel mount circuit breakers
- M6 stud +ve supply rated to 75A/32VDC (max.)
- M4 stud +ve out each rated to 20A/32VDC
- Stainless steel fasteners and fuse contacts
- Base is made from heat resistant PA66 nylon.
- One in/six out ground (-ve) buss block
- Splash proof & dust proof actuator boot covers
- Enclosed back design
- See through polycarbonate fastened lid for safety
- All connections are made via lug/ring terminals
- 120pc label set included
- 105(W)x110(H)x65(D)

CIRCUIT BREAKERS

Circuit protection devices such as circuit breakers are a critical component. The current rating of a thermal breaker is the maximum rating the breaker will continuously handle without tripping - not the point at which it trips. The trip point is a function of current and time - either the longer the time or greater the excess current (over the breaker rating) determines when a breaker will trip and is usually shown on a time versus current chart. From this chart the action of a thermal breaker can be predicted. This information is available on request.

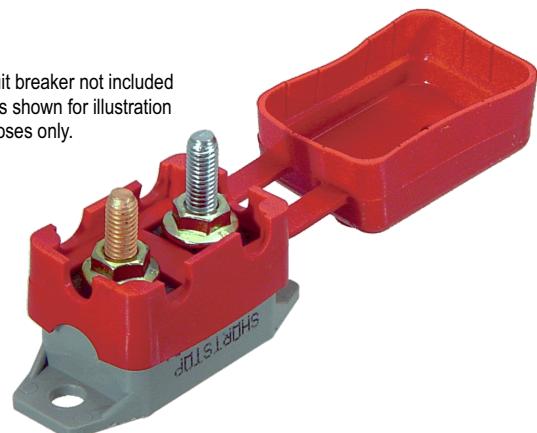
- 29008** - 8A
- 29010** - 10A
- 29015** - 15A
- 29020** - 20A
- 29025** - 25A
- 29030** - 30A
- 29040** - 40A
- 29050** - 50A



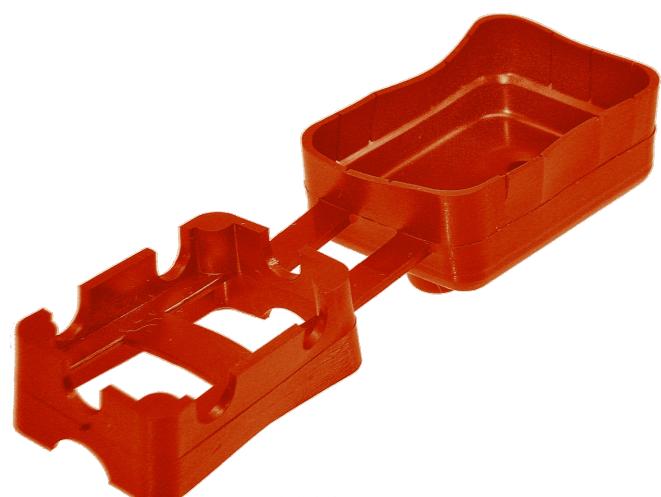
Auto resetting circuit breaker

- Standard two hole mounting
- Auto resetting (cycling)
- Thermoplastic housing is splash-proof, corrosion-proof, and short circuit-proof
- Operating temperature: -23°C to 65°C
- Complies to SAE J553

Circuit breaker not included and is shown for illustration purposes only.



29006
Terminal cover suit
29008 through 29050
Black.



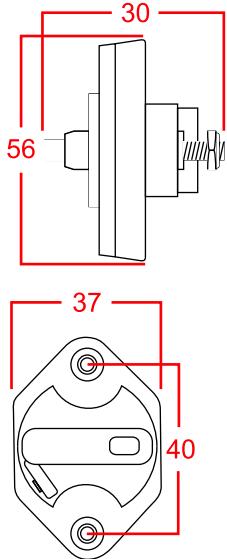
29007
Terminal cover suit
29008 through 29050
Red.

PANEL MOUNT CIRCUIT BREAKERS

Circuit protection devices such as circuit breakers are a critical component. The current rating of a thermal breaker is the maximum rating the breaker will continuously handle without tripping - not the point at which it trips. The trip point is a function of current and time - either the longer the time or greater the excess current (over the breaker rating) determines when a breaker will trip and is usually shown on a time versus current chart. From this chart the action of a thermal breaker can be predicted. This information is available on request.



29561 - 10A
29562 - 15A
29563 - 20A
29564 - 25A
29565 - 30A
29566 - 35A
29567 - 40A
29568 - 50A



reset lever
trip button



Manual reset circuit breaker with manual trip

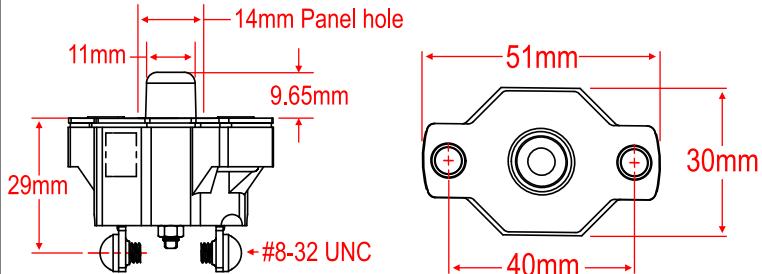
- Panel mounting via 32mm hole - 40mm mounting centres
- Marine spec. Waterproof, corrosionproof, ignitionproof
- Supplied with stainless steel terminals and hardware
- Manual reset via lever / manual trip via button
- Visual indication when tripped
- Operating temperature: -23°C to +65°C
- Operating voltage: 6VDC to 32VDC
- Interrupt capacity meets SAE J142B (5000A max)
- Complies to SAE J533



29571 - 10A
29572 - 15A
29573 - 20A
29574 - 30A
29575 - 40A

Manual reset circuit breaker

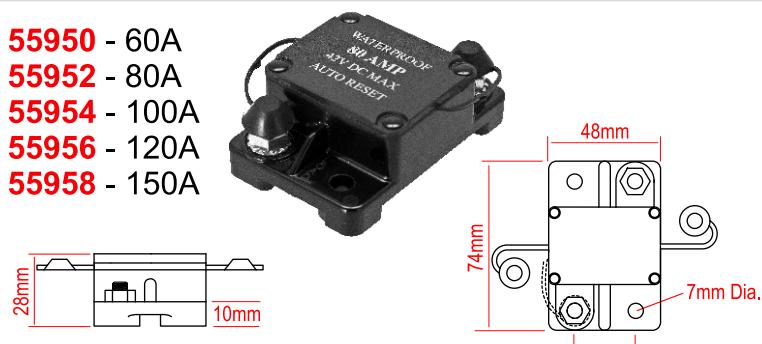
- Commonly used on truck-trailer breaker boxes
- Panel mounting via 14mm hole - 40mm mounting centres
- Waterproof, corrosionproof, ignitionproof
- Terminations via #8 UNC screw terminals
- Manual reset via button
- Operating temperature: -51°C to +71°C (max)
- Operating voltage: 32VDC or 120VAC (max)
- Trips at 135% of load (trip curves available)
- Meets MIL-STD 202 for vibration, salt and insulation tests
- Interrupt capacity meets SAE J553
- Weatherproof to SAE J1171



HIGH CURRENT CIRCUIT BREAKERS

Circuit protection devices such as circuit breakers are a critical component. The current rating of a thermal breaker is the maximum rating the breaker will continuously handle without tripping - not the point at which it trips. The trip point is a function of current and time - either the longer the time or greater the excess current (over the breaker's rating) determines when a breaker will trip and is usually shown on a time versus current chart. From this chart the action of a thermal breaker can be predicted. This information is available on request.

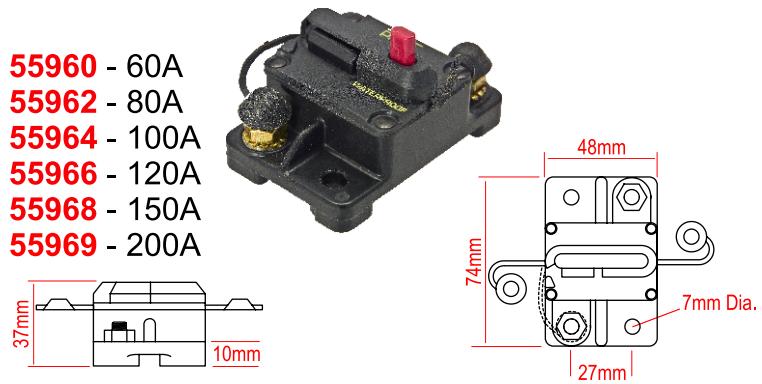
55950 - 60A
55952 - 80A
55954 - 100A
55956 - 120A
55958 - 150A



Surface mount auto reset circuit breaker

- Auto resetting via thermal cycling
- Thermoplastic housing with 6mm stud terminations
- Waterproof - ideal for marine applications
- Operating temperature: -32°C to 82°C
- Operating voltage: 12-42V
- 8mm diameter mounting holes

55960 - 60A
55962 - 80A
55964 - 100A
55966 - 120A
55968 - 150A
55969 - 200A



Surface mount manual trip & reset circuit breaker

- Manual trip via button also acts as a switch
- Manual resetting via lever indicator
- Thermoplastic housing with 6mm ring terminations
- Waterproof - ideal for marine applications
- Operating temperature: -32°C to 82°C
- Operating voltage: 12-42V
- 8mm diameter mounting holes

29561 - 10A **29565** - 30A
29562 - 15A **29566** - 35A
29563 - 20A **29567** - 40A
29564 - 25A **29568** - 50A



Manual reset circuit breaker with manual trip

- Panel mounting via 32mm hole - 40mm mounting centres
- Marine spec. Waterproof, corrosionproof, ignitionproof
- Supplied with stainless steel terminals and hardware
- Manual reset via lever / manual trip via button
- Visual indication when tripped
- Operating temperature: -23°C to +65°C
- Operating voltage: 6VDC to 32VDC
- Interrupt capacity meets SAE J142B (5000A max)
- Complies to SAE J533

29581 - 50A
29582 - 100A
29583 - 150A

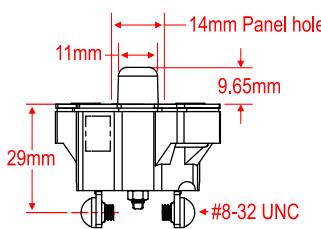


Flange mount manual trip & reset circuit breaker

- Manual trip via button also acts as a switch
- Manual resetting via lever indicator
- Thermoplastic housing with 6mm stud terminations
- Waterproof - ideal for marine applications
- Operating temperature: -32°C to 82°C
- Operating voltage: 12-42V



29571 - 10A
29572 - 15A
29573 - 20A
29574 - 30A
29575 - 40A



Manual reset circuit breaker

- Commonly used on truck-trailer breaker boxes
- Panel mounting via 14mm hole - 40mm mounting centres
- Waterproof, corrosionproof, ignitionproof
- Terminations via #8 UNC screw terminals
- Manual reset via button
- Operating temperature: -51°C to +71°C (max)
- Operating voltage: 32VDC or 120VAC (max)
- Trips at 135% of load (trip curves available)
- Meets MIL-STD 202 for vibration, salt and insulation tests
- Interrupt capacity meets SAE J553
- Weatherproof to SAE J1171

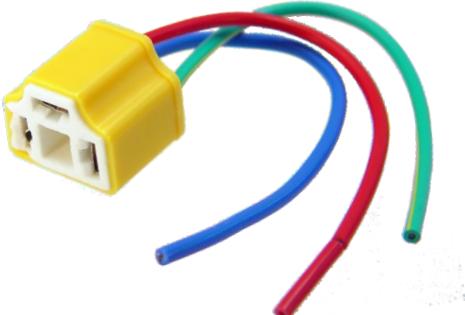
GLOBE HOLDERS & PLUGS

Globe plugs with universal applications can often be adapted to fit or repair a large range of housings where the genuine replacement option is either too costly to buy or too costly to install.
Ceramic globe plugs are designed to resist the high running temperatures of halogen globes without melting or distorting.
Also see our Narva catalogue for more.



21004

Pre-wired plug suit H4/H6 globes, sealed beams and common flasher relays.
Hi-temperature bakelite housing.



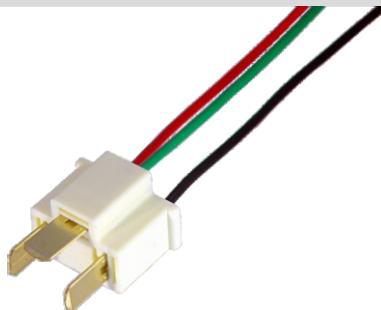
18104

Pre-wired plug suit H4/H6 globe.
Hi-temperature ceramic housing.



181041

Plug kit suit H4/H6 globe.
Hi-temperature ceramic housing.
End entry.



21005

Pre-wired 3pin extender plug suit sealed beam, H4/H6 sockets and flasher sockets.



18107

Pre-wired plug suit H7 globe.
Hi-temperature ceramic housing.



18062

Globeholder suit BAY15d globes.
GMH application.



181051

Plug kit suit HB1/HB5 & 9004/9007 globes.



181011

Plug kit suit HB3/9005 globes.
Hi-temperature ceramic housing.



181021

Plug kit suit HB4/9006 globes.
Hi-temperature ceramic housing.



28221

Plug kit suit H8 & 11.
No TPA. Quick release tabs.
Suit 2-3mm auto cable

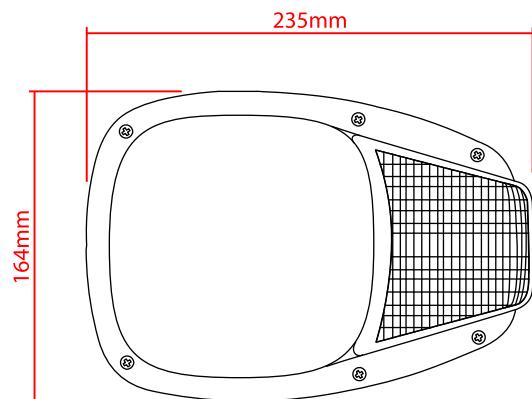
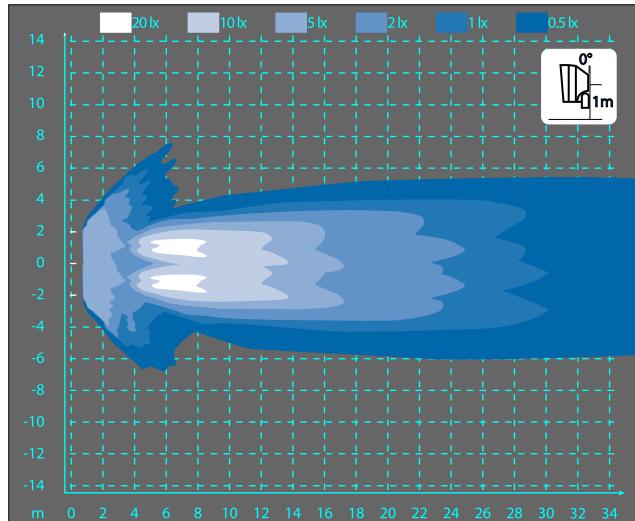


28222

Plug kit suit H8 & H11.
With wire seal retainer.
Suit 2-3mm auto cable

HEADLAMP POD

Our headlamp pod is an original equipment grade unit for a wide variety of applications. Headlamp pods are ideal for tractors, road plant etc that are to be road registered and need to meet ADR requirements. Retro fitting is quick and easy to mount and adjust.



89130

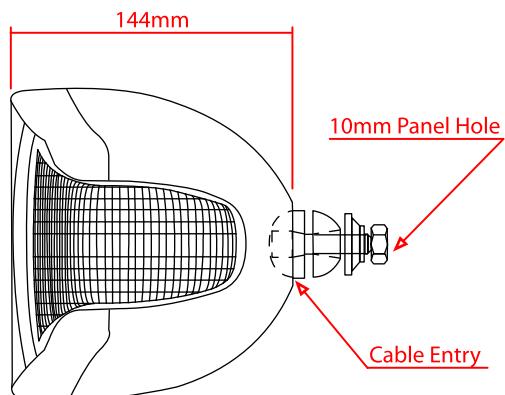
Left hand (near side) assembly

89131

Right hand (off side) assembly

Headlamp/park/indicator Pod

- Functions: High/low beam, park, indicator
- ADR compliant
- Requires H4 P43t halogen globe for high/low
- Requires BA9s globe for park
- Requires BAU15s globe for indicator
- Easy to mount via single bolt ball mounting
- Easy to aim via ball mounting
- Rugged, water and dustproof, modern design
- Glass lens and epoxy housing
- Free form optics



LED HEADLAMP

Our L.E.D. headlamp has been road tested by a fleet of on/off road bulk transport tippers and outperforms in terms of light intensity, best light pattern for high & low beam, resistance to water and dust ingress, retro fitment, reliability when compared to more and less expensive competitor units.

95060

7" LED headlamp.

- Industry leading light output
- High / Low / park-DRL functions
- Circular LED park ring
- Suits standard headlamp buckets
- 9-33VDC operation
- Low current draw <2.5A max.
- IP67 dust and waterproof
- Polycarbonate lens
- Fits OEM headlight buckets on Freightliner and Kenworth etc
- 2 year warranty



Park Lamp



Low Beam



High Beam

LED FLOOD/DRIVE LAMPS

Our range of L.E.D. lamps feature high output CREE brand LEDs, compact size, rugged cast alloy housings and intense white light making them ideal for car, 4WD, RV, truck, RV and plant equipment.

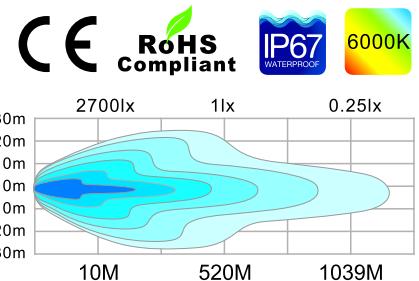
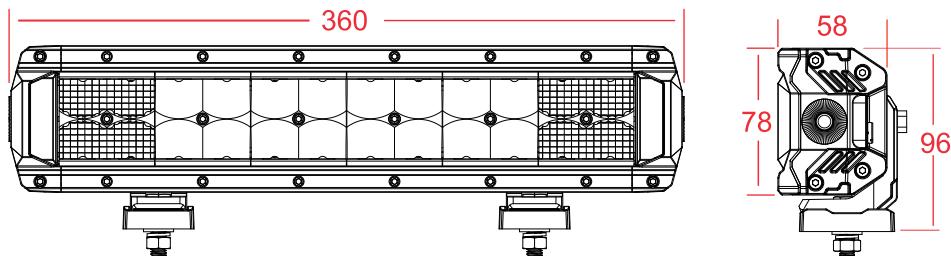


INDIRECT LIGHTING VIRTUALLY ELIMINATES GLARE

95050

- 72W 13" LED bar lamp.
- 24 x 3watt 6000K CREE LEDs
- Combo 8° + 90° light spread
- 6480 raw lumen light output
- 10-30VDC operation
- 4.5A @12VDC - 2.4A @24VDC
- IP67 rated metal housing
- Polycarbonate lens
- Rear Mount Brackets
- 2pin waterproof connector
- 2 year warranty

LED Chip:  OSRAM

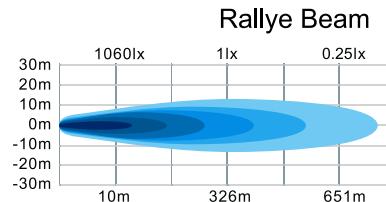
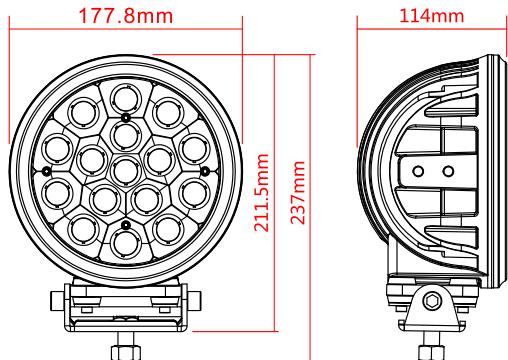


95045

80W 7"/180mm LED bar lamp.

- 16 x 3watt 6000K CREE LEDs
- Rallye beam 10° light spread
- 6720 raw lumen light output
- 10-30VDC operation
- 5.4A @12VDC - 2.7A @24VDC
- IP67 rated housing
- Polycarbonate lens with free-form optics
- Cast alloy housing + stainless steel mounting hardware
- Single bolt mount bracket with 4 shock mounts
- Provision for steady bars or side mount brackets
- 2 year warranty
- Includes Polycarbonate Clear Cover - **95046**

 CREE



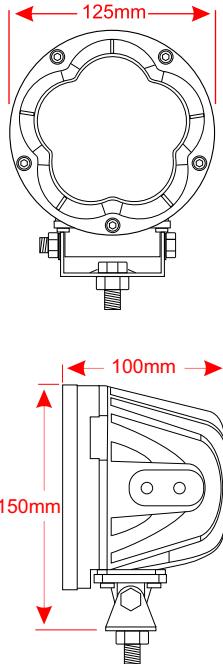
LED DRIVE LAMPS

Our range of L.E.D. lamps feature high output CREE brand LEDs, compact size, rugged cast alloy housings and intense white light making them ideal for car, 4WD, RV, truck, RV and plant equipment.

95047

60W 125mm Compact LED Drive Lamp

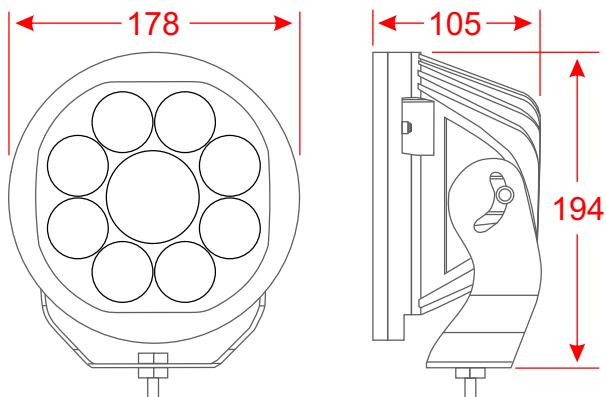
- 6 x 10watt 6000K CREE LEDs
- Combo 10° light spread
- 5400 raw lumen light output
- 10-30VDC operation
- 4.1A @12VDC - 2.0A @24VDC
- IP67 rated cast alloy housing
- Free form optics
- Polycarbonate lens & protector cover
- Provision for dual side mounting stay bars
- Ideal for smaller vehicles with limited space



95052

90W 7"/178mm off-road LED Drive Lamp.

- 9 x 10watt 6000K CREE LEDs
- Rallye beam 10° light spread
- 8100 raw lumen light output
- 10-30VDC operation
- 6.5A @12VDC - 3.3A @24VDC
- IP67 rated housing
- Free-form optics
- Polycarbonate lens and protector cover
- Cast alloy housing + stainless steel mounting hardware
- Dual tilt lock fasteners
- Stainless steel heavy duty U bracket
- Provision for three U bracket mounting fasteners

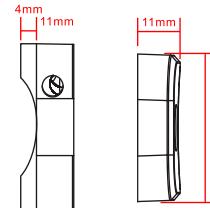
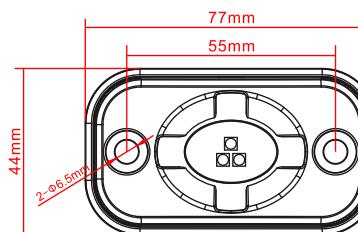


LED WORK LAMPS

A range of L.E.D. work lamps featuring high output for their size and intense white light making them ideal for marine, truck, RV, forklift, railway and plant equipment.

95013

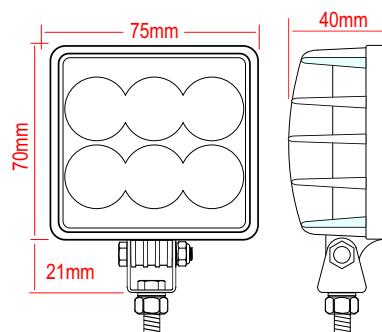
- '15W' LED work lamp.
- 3 x 5watt LEDs - 1260 Lumen
- 6000K colour temperature
- Super wide 120° light pattern
- 10-30VDC @ 0.33A (max)
- IP68 rated housing
- 77(W)x11(D)x44(H)mm
- With flat & pipe mount pad
- 3 year warranty



CREE

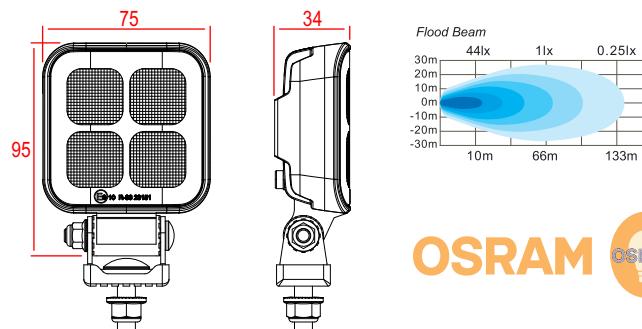
95028

- '18W' LED reversing lamp.
- 6000K LEDs
- 60° light spread
- 1080 lumen (18W class)
- 1.1A@12V / 0.6A@24V
- IP68, ECE R23 (reversing lamp)
- Polycarbonate lens
- 2 year warranty



95025

- TCS LED Wide Floodlamp.
- 5700K LEDs
- 120° light spread
- Temperature Controlled System
- 2929 raw lumen (2202-1376 effective)
- 1.11-1.7A @12VDC / 0.53-0.84A @24V
- IP67, CE, RoHS, CISPR25 class3 ECE-R10, ECE-R148
- Polycarbonate lens
- 2 year warranty

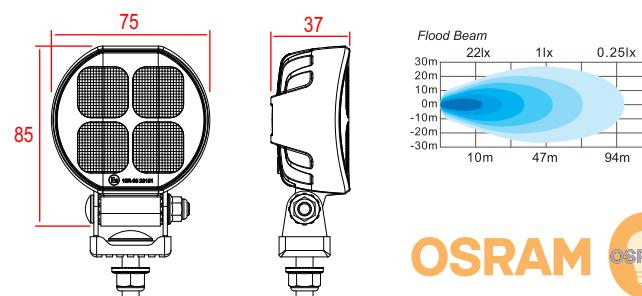


OSRAM



95026

- TCS LED Wide Floodlamp.
- 5700K LEDs
- 120° light spread
- Temperature Controlled System
- 2929 raw lumen (2202-1376 effective)
- 1.18-1.88A @12VDC / 0.52-0.94A @24V
- IP67, CE, RoHS, CISPR25 class3 ECE-R10, ECE-R148
- Polycarbonate lens
- 2 year warranty



OSRAM



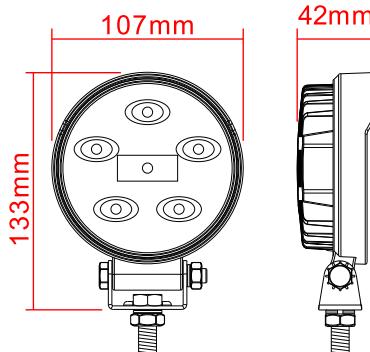
LED WORK LAMPS

A range of L.E.D. work lamps featuring high output for their size and intense white light making them ideal for marine, truck, RV, forklift, railway and plant equipment.

95040

'18W' LED work lamp.

- Osram 6000K LEDs
- 60° light spread
- 700 Lumen (18W class)
- 0.75A@12V / 0.38A @24V
- IP67K rated housing
- Polycarbonate lens / alloy housing
- 2 year warranty
- CE, RoHS, E-mark



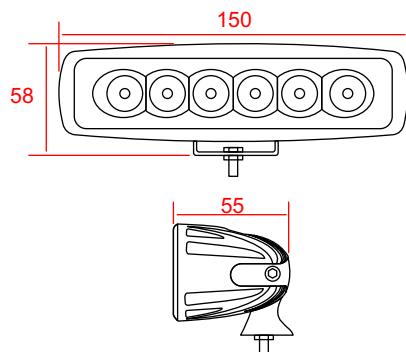
OSRAM



95027

'30W' LED flood lamp.

- 6000K LEDs
- Narrow flood pattern
- 2100 lumen (30W class)
- 10-30VDC operation
- 1.2A@12V / 0.6A@30V
- IP67
- Polycarbonate lens
- 2 year warranty



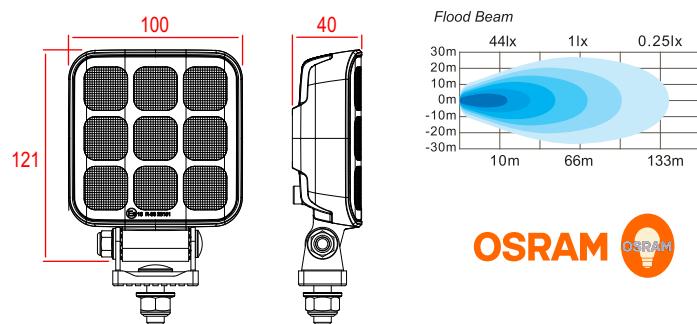
CREE



95033

TCS LED work lamp.

- Osram 5700K LEDs
- 60° light spread
- Temperature Controlled System
- 6591 raw lumen (4200-2652 effective)
- 2.57-3.89A@12V / 1.12-1.86A@24V
- IP67, IP69K, CE, CISPR25 class 3, ECE-R148, ECE-R10, RoHS
- Polycarbonate lens
- 2 year warranty



OSRAM



LED WORK LAMPS

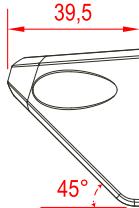
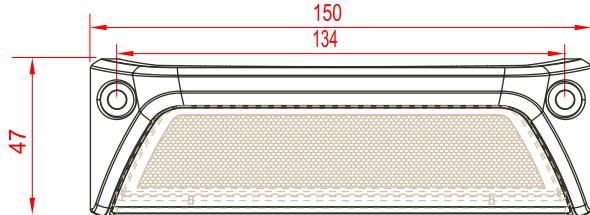
A range of L.E.D. work lamps for specialised applications. 95053 is designed for a wide range of applications such as RV, caravan, service vehicles, cab and storage areas, pantech and load areas.

95053

'52W' LED Awning/Scene/Blindspot Lamp.

- For mounting to vertical surfaces (walls)
- 52 x 1W Osram LEDs
- 120° light spread
- 2260 effective lumen / 960lux @1M
- 10-40VDC operation
- 1.54A@12V / 0.8A@24V
- IP67, CE, RoHS
- Polycarbonate lens
- IP68 & IP69K, CE, RoHS certified
- 2 year warranty

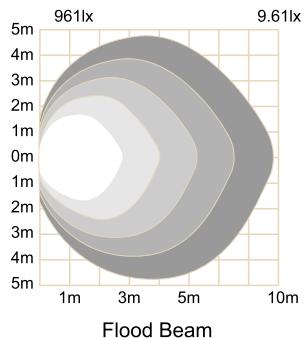
OSRAM
LED CHIPS



CE  **RoHS**
Compliant

 **IP68**
WATERPROOF

 **IP69K**
PRESSURE
WASH



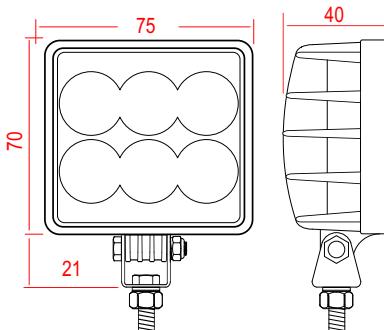
LED REVERSING LAMPS

These heavy duty LED surface mount reversing lamps feature the latest LED chips and lens designs to produce intense and controlled light output. They comply with ECE-R23 and so are street legal for use as a reverse lamp.

95028

'18W' LED reversing lamp.

- 6000K LEDs
- 60° light spread
- 1080 lumen (18W class)
- 1.1A@12V / 0.6A@24V
- IP68, ECE R23 (reversing lamp)
- Polycarbonate lens
- 2 year warranty

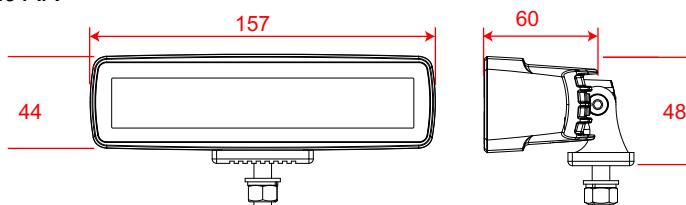


95034

LED Combination Amber Warning Lamp and Reversing Lamp.

Reverse Lamp:

- 12-24VDC multivolt operation - 1.7A@12V / 0.94A@24V
- Indirect illumination with free-form optical reflector reduces glare
- Bezel-less hard coated polycarbonate window is easy clean
- 2280 raw / 1727 Effective Lumen reverse lamps meets ECE-R23 AR
- 5700K trapezoidal light pattern



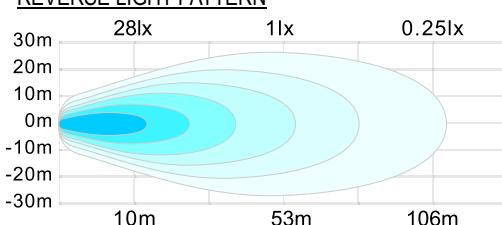
Warning Lamp:

- Amber double flash pattern complies with ECE-R65 Xa1
- Direct illumination for maximum impact

General:

- Metal alloy housing can be pendent or pedestal mounted
- Complies with ECE-R10, IP67
- 157mm (W) x 48mm (H) x 60 (D)
- Reverse and warning functions on separate circuits
- 2 year warranty

REVERSE LIGHT PATTERN



OSRAM OSRAM

CE

IP67

RoHS
Compliant

AHD CCTV SYSTEMS

Our heavy-duty colour AHD (Analogue High Definition) CCTV kits feature upgraded flicker free, high contrast picture, 3 camera inputs, 1080p capable camera. Our CCTVs are built for RV, truck, plant & equipment and have all the features expected such as on-screen menu, audio, camera triggering, automatic monitor ambient light control, IR night vision mode, remote menu control etc.

83005

Heavy-duty colour 5" AHD CCTV kit

- Built for RV, truck, plant & equipment
- 5" TFT LCD screen - 1024x600pixels
- On-screen & wireless remote menu adjustment
- 3 triggerable camera inputs
- Auto-switching camera override trigger inputs
- IP69K rated camera with adjustable hood (1 supplied)
- Infra red night vision function
- 9-32VDC multi-voltage operation
- PAL / NTSC auto switching
- Mirror video function
- 120° Horizontal by 100° vertical view
- "C-Tick" EMC compliant
- Built in audio
- 20M camera cable extension
- Monitor wiring harness
- Adjustable monitor mount
- Remote menu control



83007

Heavy-duty colour 7" AHD CCTV kit

- Built for RV, truck, plant & equipment
- 7" TFT LCD screen - 1024x600pixels
- On-screen & wireless remote menu adjustment
- 3 triggerable camera inputs
- Auto-switching camera override trigger inputs
- IP69K rated camera with adjustable hood (1 supplied)
- Infra red night vision function
- 9-32VDC multi-voltage operation
- PAL / NTSC auto switching
- Mirror video function
- 120° Horizontal by 100° vertical view
- "C-Tick" EMC compliant
- Built in audio
- 20M camera cable extension
- Monitor wiring harness
- Adjustable monitor mount
- Remote menu control



CCTV SYSTEMS

Below, is our current range of spare parts and accessories to suit our CCTV kits.



83006

AHD CCTV camera

- Suits all our CCTV kits
- Output up to 1080p resolution
- Supports NTSC & PAL screens
- Built in microphone for audio
- 120° Horizontal by 100° vertical view
- I.R. LEDs for night vision function
- "C-Tick" EMC compliant / IP69K rated
- Adjustable mount with adjustable shade hood



83012

CCTV camera trailer extension kit

- For connecting remote cameras on trailers
- Suits all our CCTV kits
- Comprises of a 20M trailer-side extension socket, a 5M tractor-side extension socket and a 2.5M working length plugged suzi-coil



83001

5M CCTV camera extension cable

- Suits all our CCTV kits
- 5 metre cable with moulded 4pin screw connectors

83002

10M CCTV camera extension cable

- Suits all our CCTV kits
- 10 metre cable with moulded 4pin screw connectors

83003

30M CCTV camera extension cable

- Suits all our CCTV kits
- 30 metre cable with moulded 4pin screw connectors

83004

20M CCTV camera extension cable

- Suits all our CCTV kits
- 20 metre cable with moulded 4pin screw connectors

WARNING - AUDIBLE

Our range is designed to cover a wide range of applications and requirements. From our inexpensive mechanical buzzer to our most popular dual function piezo buzzer and the fast pulsing piezo warning buzzer, these are all meant for internal applications and are not intended to take the place of a back alarm. Our back alarm covers applications from cars to plant equipment. See our Broadband Back Alarm page for the next generation in back alarms.



72550

Piezo warning buzzer.

- Intermittent single tone.
- Sound Level @1M: 90dB(A).
- Operating voltage: 12-24VDC.
- Current: 30mA @ 12VDC
- Size (WxHxD): 40x50x34mm
- Single screw hole mounting
- Q.C. terminals



22074

Piezo warning buzzer

- With 100mm leads.
- 2 hole or panel mounting.
- Fast intermittent tone.
- Sound Level @30cm: 90dB(A)
- Frequency: 3.2KHz (nom.)
- Operating voltage: 3-15VDC
- Current: 10mA @ 12VDC
- Size (Dia.xH): 30x25mm
- Hole Centres: 34mm



22071

Piezo warning buzzer.

- Panel mounting.
- Adjustable volume via shutter.
- Dual function intermittent or continuous tone.
- Sound Level @30cm: 90dB(A) max.
- Frequency: 2.9KHz (nom.)
- Operating voltage: 6-28VDC
- Current: 20mA @ 12VDC



22072

Mini piezo buzzer.

- 3 tones.
- Sound Level @1M: 91dB(A).
- Descending frequencies: 2.7kHz, 2.5kHz, 2.2kHz.
- Operating voltage: 12-30VDC.
- Current: 65mA @ 12VDC
- Body size (LxDia): 25x15mm
- Hole Size: 12mm - Snap fit



22694

Dual tone back alarm.

- Selectable broadband & single tone
- Waterproof.
- Sound Level @1M: 97dB(A).
- Low cost. 12 month warranty
- Operating voltage: 10-80VDC.
- Current: 0.6A @ 12VDC
- Size (WxHxD): 102x69x40mm
- Hole Centres: 82mm
- IP67

BROADBAND BACK ALARMS

Broadband backalarms are the latest generation of reversing alarms. They primarily have two major advantages over conventional single tone alarms. Their location can be more easily pinpointed amongst ambient noise and therefore are a more effective safety device. The other advantage is that their sound decays far more quickly over distance therefore presenting less of a noise pollution issue to those outside the vehicle's work vicinity, such as nearby residents and other unrelated worksites. These back alarms carry a lifetime warranty. 36-80VDC models also available on request.



22687

Ideal for forklift, light commercial, MPV & car.

- Sound Level @1m: 87dB(A) ● Voltage: 12/24VDC
- Current: 0.5A ● Size (WxDxH): 104x30x65mm
- Hole Centres: 76mm

22692

Ideal for truck, bus, light plant, forklift, industrial.

- Sound Level @1m: 92dB(A) ● Voltage: 12/24VDC
- Current: 0.5A ● Size (WxDxH): 104x65x30mm
- Hole Centres: 76mm

22697

Ideal for truck, bus, light plant, forklift, industrial.

- Sound Level @1m: 97dB(A) ● Voltage: 12/24VDC
- Current: 0.6A ● Size (WxDxH): 104x65x30mm
- Hole Centres: 76mm



Smart Alarm

226971

Self adjusting smart alarm

- Sound Level @1m: 77-97dB(A) ● Voltage: 12/24VDC
- Current: 0.6A ● Size (WxDxH): 127x65x76mm
- Hole Centres: 98-108mm

These specifications apply to all BBS-TEK alarms:

- Lifetime warranty
- Conform to SAE J994 environmental standards
- Tough, durable, guaranteed waterproof (IP68)
- Solid-state, spark-free electronics, epoxy-sealed against mud, water and vibration
- Can be steam-cleaned and pressure-washed
- CE and 'e' marked (EMC)

Selecting the right model:

To efficiently reduce noise in the workplace raises the effectiveness of a reversing alarm, and as a result, better workplace safety - the two go hand-in-hand.

6 models are shown. 3 general applications are shown each with 2 sound levels - a lower and a higher rating.

These guides should make selecting the correct model for an application easy while still obtaining effective benefits in safety while reducing noise pollution.

Smart alarm versions further enhance performance and benefit in various work areas that have differing ambient noise levels.

ROTATING BEACONS

Visionalert beacons are built to last and outperform the competition. The use of Free-form Optics reflectors effectively gives 20% more light output in a low profile package. Polycarbonate lenses handle heat and hits better than acrylic. Whilst Visionalert magnetic mount beacons are rated for 112Km/h intermittent use, they should not be used in place of a permanent mount beacon. Motors operate at either 12V or 24V by setting belt location. H1 globes not included.



83403
Rotating beacon.
3 point flange mounting.
12/24V. 145mm tall.



83402
Rotating beacon.
Plug-on-tube mounting.
12/24V. 220mm tall



83400
Rotating beacon.
Magnetic/suction seal mounting.
112km/h rated. Supplied with
curly cord and multi-ifit plug.
24/24V. 150mm tall



83405
Plug base beacon adapter
Durable rubber base deflects
and soaks up vibration.
Suits all DIN standard 130mm
PCD beacons.
Converts any flange base beacon
to Plug-on-Tube.
Fits all DIN standard plug bases



83408
Replacement plug-on-tube
base suit 83402.



83409
Replacement amber polycarbonate
lens suit 83400, 83401, 83402,
83403. Other colours by
special order.



83413
Replacement belt suit 83400,
83401, 83402, 83403.



83414
Globe retaining clip suit
83400, 83401, 83402, 83403



83406
Multi-fit plug suit cigarette and
D.I.N. standard accessory sockets.
Replacement part for 83400.



19970
Extended curly cord.
5M working length.
Two 3mm auto cable cores.

TRUE ROTATING LED BEACONS

We offer both types of LED rotating pattern beacons - True Rotating & Sequential Rotating. The light cycle from a true rotating LED beacon is characterised by a moderate rise time then a high intensity flash followed by a moderate decay time making the 'on' time duration longer. This mimics the light effect of the classic rotating halogen beacon. Sequential rotating beacons switch LEDs sequentially and their light effect isn't as distinct as true rotating beacons.



83383

True Rotating Amber LED Beacon.

- SAE Class 1, CA T13, CE, ECE-R10 approvals
- DIN 130mm PCD, 3 bolt flange mount
- 10-30VDC operation
- Current draw: 1.63A@12.8VDC
- 147mm dia. x 155mm tall.
- Silicone drive belt & ball bearing rotor
- Free-form optics reflector, PC lens
- 185FPM
- 12 month warranty
- Can be used with any of our DIN standard mounting bases and accessories.

LED WARNING LAMPS

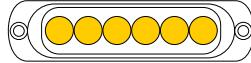
These heavy duty LED surface mount warning lamps feature the latest LED chips and lens designs to produce intense and controlled light output. The combination amber/white model is particularly effective as the light changes between the two colours. They feature over 11 flash patterns and the ability to sync with a second unit.

6LED low profile warning lamp.

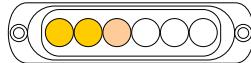
- Six high output 1W LEDs
- 9-30VDC multivolt operation
- 12 flash patterns
- Pattern synchronises with a second unit
- Polycarbonate lens
- Metal base for better reliability and structural strength
- Low profile housing is supplied with rubber gasket
- 112mm (W) x 28mm (H) x 10 (D)
- Epoxy filled electronics
- Weather proof and dust proof to IP68
- CE compliant



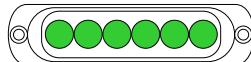
83665 - Amber/amber warning light



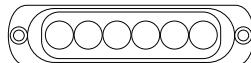
83666 - As above but in amber/white



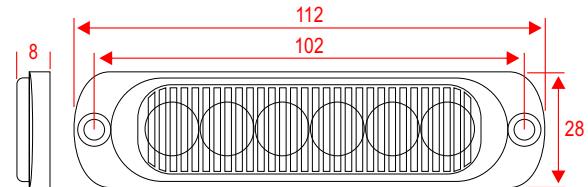
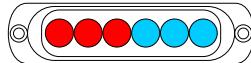
83667 - As above but in green/green



83668 - As above but in white/white



83669 - As above but in red/blue

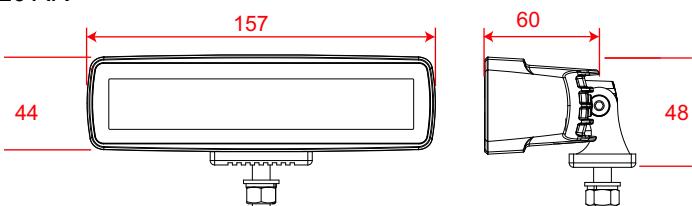


95034

LED Combination Amber Warning Lamp and Reversing Lamp.

Reverse Lamp:

- 12-24VDC multivolt operation - 1.7A@12V / 0.94A@24V
- Indirect illumination with free-form optical reflector reduces glare
- Bezel-less hard coated polycarbonate window is easy clean
- 2280 raw / 1727 Effective Lumen reverse lamps meets ECE-R23 AR
- 5700K trapezoidal light pattern



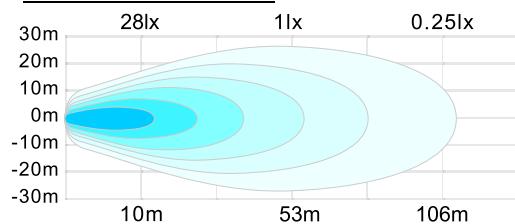
Warning Lamp:

- Amber double flash pattern complies with ECE-R65 Xa1
- Direct illumination for maximum impact

General:

- Metal alloy housing can be pendent or pedestal mounted
- Complies with ECE-R10, IP67
- 157mm (W) x 48mm (H) x 60 (D)
- Reverse and warning functions on separate circuits
- 2 year warranty

REVERSE LIGHT PATTERN



OSRAM OSRAM

CE

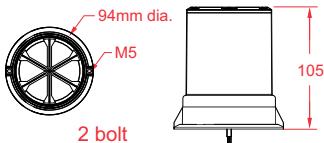
OSRAM
WATERPROOF

IP67

RoHS
Compliant

FLANGE MOUNT LED BEACONS

These beacons use the latest generation of LEDs and optics. They are constructed with corrosion free materials. Class 2 beacons are specified for use on all applications except emergency vehicles or for clearing traffic. Class 1 is for emergency vehicles and for clearing traffic. Class 1 beacons can be used for all applications as they represent beacons with the highest light output with their corresponding optic parameters.



83364

Mini amber LED flange mount beacon.

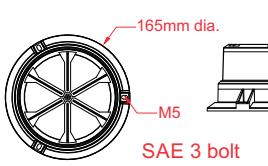
- Two M5 bolt flange mounting
- 10-30VDC
- 10 flash patterns including rotate
- Synchronise function
- Current draw: 0.8A@12VDC / 0.4A@24VDC
- 95mm dia. x 105mm tall
- Polycarbonate lens
- Nylon PA-66 base
- Potted electronics
- Sealed unit - IP67 rated
- SAE J845 Class 2



85368

Mini amber LED flange mount beacon.

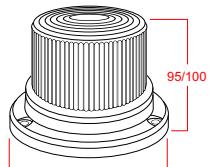
- Three M5 bolt flange mounting
- 10-30VDC
- 10 flash patterns including rotate
- Synchronise function
- Current draw: 1.2A@12VDC / 0.7A@24VDC
- 130mm dia. x 85mm tall
- Polycarbonate lens
- Nylon PA-66 base
- Potted electronics
- Sealed unit - IP67 rated
- SAE J845 Class 2



83354

Mini amber LED flange mount beacon.

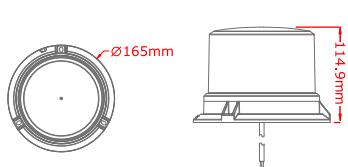
- SAE three bolt flange mounting
- 10-30VDC
- 10 flash patterns including rotate
- Synchronise function
- Current draw: 2.1A@12VDC / 1.1A@24VDC
- 165mm dia. x 78mm tall
- Polycarbonate lens
- Nylon PA-66 base
- Potted electronics
- Sealed unit - IP67
- SAE J845 Class 2



83372

DIN Flange Base LED Beacon.

- DIN mid height three bolt flange mounting
- 10-30VDC operation
- 3 flash patterns including rotate
- Current draw: 2.4A@12VDC / 1A@24VDC
- 143mm dia. x 95mm tall
- DIN base - 130mm PCD
- Polycarbonate lens, base, reflector
- ECE - R65 Class 1, ECE-R10, CE
- Works with all our DIN accessories



83369

Mid profile amber LED flange mount beacon.

- SAE three bolt flange mounting
- 10-30VDC
- 10 flash patterns including rotate
- TIR Optics
- Synchronise function
- Current draw: 2.1A@12VDC / 1.1A@24VDC
- 165mm dia. x 115mm tall
- Polycarbonate lens
- Nylon PA-66 base
- Potted electronics
- Sealed unit - IP67 rated
- ECE-R65 Class 1, ECE-R10

DIN BASE LED BEACONS

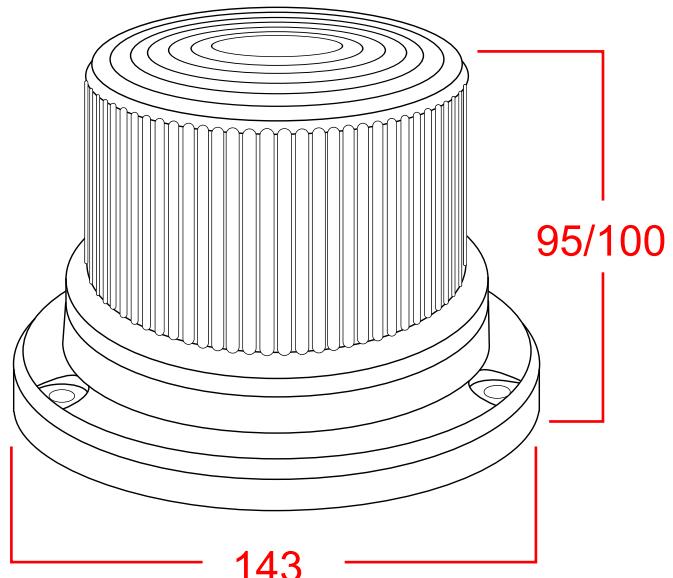
These beacons use high output LEDs and are based on DIN standard base dimension (13mm PCD). They are Class 1 rated and can be used for all applications as they represent beacons with the highest light output with their corresponding optic parameters.



83372

DIN Flange Base LED Beacon.

- DIN mid height three bolt flange mounting
- 10-30VDC operation
- 3 flash patterns including rotate
- Current draw: 2A@12VDC / 1A@24VDC
- 143mm dia. x 95mm tall
- DIN base - 130mm PCD
- Polycarbonate lens, base, reflector
- ECE - R65 Class 1, ECE-R10, CE
- Works with all our DIN accessories



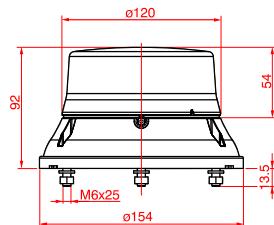
83373

DIN Magnetic Base LED Beacon.

- 2M cable with on/off + pattern switch on plug
- 10-30VDC operation
- 3 flash patterns including rotate
- Current draw: 2A@12VDC / 1A@24VDC
- 143mm dia. x 100mm tall
- Polycarbonate lens, base, reflector
- ECE - R65 Class 1, ECE-R10, CE

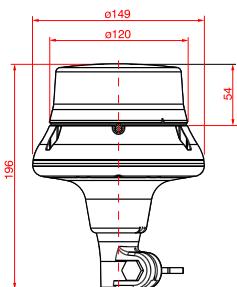
LOW PROFILE - HIGH OUTPUT LED BEACONS

These low profile LED beacons suit applications where a full height beacon is susceptible to strike hazards. They are suitable for outdoor use where strong sunlight wont mask the light output of these higher power units. Magnetic beacons are to be used at speeds lower than 20km/h should and must not be used in place of a permanent mount beacon. European made to ECE65 & SAE-J845



83397 - Low profile flange base LED beacon

- Low profile - 92mm Overall Height
- 8 High Intensity 180ms Double Flash LEDs
- 3 Bolt 130mm PCD DIN Standard Flange Base
- Aluminium Base and Polycarbonate Lens
- 9-32VDC Multi-Voltage Operation @1.5A Peak
- Sealed to IP65
- EMC Certified



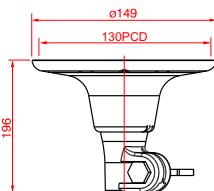
83399 - Low profile plug base LED beacon

- Low profile - 108mm Overall Height
- 8 High Intensity 180ms Double Flash LEDs
- Rubberised Magnetic Base with Curley Cord and Plug
- Aluminium Base and Polycarbonate Lens
- 9-32VDC Multi-Voltage Operation @1.5A Peak
- Sealed to IP65
- EMC Certified



83398 - Low profile magnetic LED beacon

- Low profile - 108mm Overall Height
- 8 High Intensity 180ms Double Flash LEDs
- Rubberised Magnetic Base with Curley Cord and Plug
- Aluminium Base and Polycarbonate Lens
- 9-32VDC Multi-Voltage Operation @1.5A Peak
- Sealed to IP65
- EMC Certified

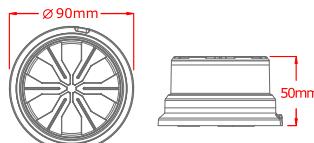


83405 - Plug base beacon adapter

- Durable Rubber Base Deflects and Soaks Up Vibration
- Suits all DIN Standard 130mm PCD beacons
- Converts any Flange base Beacon to Plug-on-Base
- Fits all DIN Standard Plug Bases
- Pre-wired plug-on-tube base

MAGNETIC & TUBE BASE LED BEACONS

Class 2 beacons are specified for use on all applications except emergency vehicles or for clearing traffic. Class 1 is for emergency vehicles and for clearing traffic. Class 1 beacons can be used for all applications as they represent beacons with the highest light output with their corresponding optic parameters.



83341

Mini LED magnetic mount beacon.

- 10 flash patterns including rotate and combo
- ECE-R65, ECE-R10, SAE J845, IP67
- 10-30VDC multivolt operation
- On/off + program switch on plug
- 50mm (high) x 90mm (dia)



83355

Mini amber LED magnetic mount beacon.

- Magnetic mounting with rubber suction base
- 10 flash patterns including simulated rotate
- 10-30VDC ● 222mm dia. x 95mm tall
- Current draw: 2.1A@12VDC / 1.1A@24VDC
- Polycarbonate lens ● Nylon PA-66 base
- Potted electronics ● Sealed unit - IP67
- SAE J845 Class 2



83373

DIN Magnetic Base LED Beacon.

- 2M cable with on/off + pattern switch on plug
- 10-30VDC operation
- 3 flash patterns including rotate
- Current draw: 2.0A@12VDC / 1.0A@24VDC
- 143mm dia. x 100mm tall
- Polycarbonate lens, base, reflector
- ECE - R65 Class 1, ECE-R10, CE



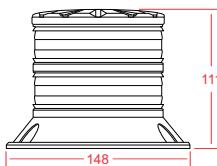
83371

Compact amber LED plug-on-tube beacon.

- DIN plug base mounting with spring neck
- 7 flash patterns including simulated rotate
- 10-30VDC ● 110mm dia. x 135mm tall
- Current draw: 1.7A@12VDC / 0.85A@24VDC
- Metal beacon base
- Polycarbonate lens
- Potted electronics
- Sealed unit - IP67
- ECE-R10, ECE-R65, CE

SPECIAL APPLICATION LED BEACONS

These beacons use high output LEDs. They are constructed with corrosion free materials and feature metal alloy bases. Class 2 beacons are specified for use on all applications except emergency vehicles or for clearing traffic. Class 1 is for emergency vehicles and for clearing traffic. Class 1 beacons can be used for all applications as they represent beacons with the highest light output with their corresponding optic parameters.



83346

Amber/green dual LED beacon.

- 36 high intensity LEDs
- 17 flash patterns including rotate
- Can be set for off (disabled)
- ECE R65 / Class 1, SAE CAT13
- ECE-R10 EMC compliant
- Exceeds SAE J575 vibration test
- Green and amber sections can operate independently or in alternating sync.
- Can be dimmed for night use
- Alloy flange base and top cap
- Sync feature for use with 2 or more beacons
- 11-30VDC (@2A max.) multivolt operation
- Reverse polarity protected
- 111mm (high) x 148mm (dia)
- DIN flange base (130mm PCD)

LED BAR BEACONS

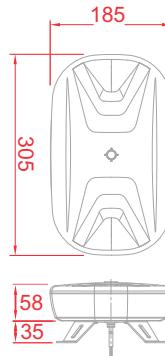
Our LED light bars provide a very cost effective alternative to full size light bars. These represent the latest generation design in optics and meet the required standards.

No magnetic beacon should be used in place of a permanent mount beacon or used at speeds exceeding 20KPH.

LOW PROFILE



Fitted with uplift brackets

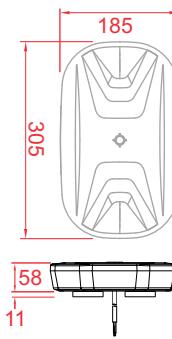


83350

Compact LED Fixed Mount Beacon.

- 72 high intensity LEDs ● TIR optics
- 10 flash patterns ● 10-30VDC operation
- Low profile - 58mm over-all height
- Supplied with 35mm uplift bracket
- 305x185mm ● 2.3A@12V max.
- ECE-R65, ECE-R10, SAE J845, IP67

LOW PROFILE



83351

Compact LED Magnetic Mount Beacon.

- 72 high intensity LEDs ● TIR optics
- 10 flash patterns ● 10-30VDC operation
- Low profile - 69mm over-all height
- Supplied with pattern switch plug
- 305x185mm ● 2.3A@12V max.
- ECE-R65, ECE-R10, SAE J845, IP67

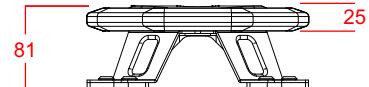
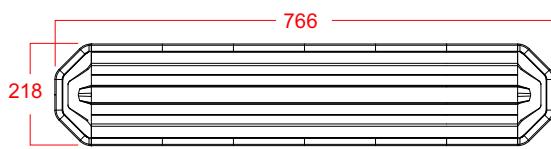
LOW PROFILE



83365

766mm LED Fixed Mount Beacon.

- All metal super low profile housing
- 132 high intensity LEDs (82W)
- 19 flash patterns
- 10-30VDC operation
- 7.2A@12VDC / 3.42A@24VDC
- Low profile - 90mm over-all height
- Supplied with all metal mounting kit
- 766(w)x218(d)x81(h)mm
- ECE-R65 Class 2 TA-2, CISPR 25 Class 3, ECE-R10, SAE J845, IP67



BEACON ACCESSORIES

Our range of beacon cages suit our beacons as well as many competitor brands. When choosing the correct model, check the diameter and height of your beacon with those of the cage. Cages are made of welded steel wire finished in either plated chrome or black powder coat.



83490

Protective wire cage suit SAE & DIN flange base beacons.
Suits all beacons with maximum dimensions 170mm diameter and 140mm high.
Suits our 83368, 83392, 83397, 83403, 83391 beacons
Suits Narva 85454, 85444, 85446, 85350, 85352, 85356, 85360.
Suits Hella 6750 & 551 series.
Suits Britax 880-H-12-G, CL199A, CL199A-36 BXAPMG1, LS222A, LSS222CA, LSS222AM and others.



83491

Protective wire cage suit SAE & DIN flange base beacons.
Suits 83392, 83397, 83403.
Suits all beacons with maximum dimensions 170mm diameter and 190mm high.
Suits our 83380.
Suits Narva 85270, 85410, 85459, 85650.
Suits Hella 602 series, 1786, 1787, 1732, 1732-24.
Suits Britax B21-00, B20-00, 320-00, 390-00, 396-00-12V, 550A, 95QAS and others.



85339

Protective wire cage suit mini LED & xenon strobe beacons.
Suits our 86368A & 85369A.
Suits similar beacons with maximum dimensions 128mm diameter and 95mm high.



85339P

Tube mount adapter.
Suits our 86368A and similar beacons with 128mm maximum diameter and 115mm PCD.
Adapts to 25mm O.D. tube using 4mm through bolt (supplied).
Black plastic material.
Can be used in conjunction with 85339 cage.



83406

Multi-fit plug suit cigarette and DIN standard accessory sockets.
Replacement part for 83400



19970

Extended curly-cord.
2x3mm auto. 5m working length.



83405

Rubber plug-on-tube beacon adapter base.
Suits all DIN standard 130mm P.C.D. plug base beacons.
Pre-wired electrical connection.
Durable rubber deflects and soaks up vibration

BEACON MOUNTS

Our range of beacon mounts suit all European DIN standard beacons regardless of brand. We carry flat mounting plates to suit DIN standard beacons with 130mm PCD & SAE full size beacons with 156mm PCD and SAE mini size beacons with 115mm PCD flange mounting points.



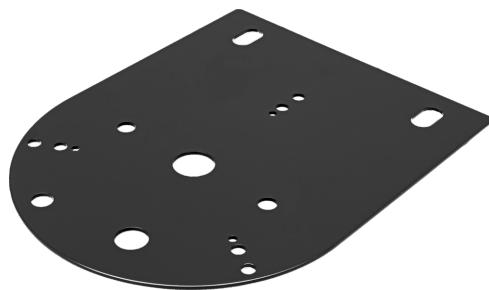
83492

Mounting plate suits 83403 and all DIN standard 130mm PCD flange mount beacons. Black powdercoat finish.



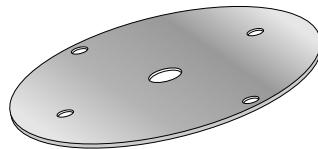
83493

Mounting plate suits 83403 and all DIN standard 130mm PCD flange mount beacons. Black powdercoat finish.



83497

Mounting plate for all DIN, SAE & SAE mini flange mount beacons in roof rack, channel or headboard mounted applications. Black powdercoat finish.



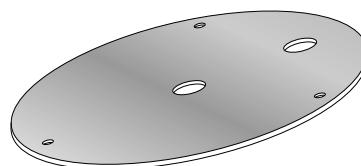
83499

Mounting plate suits 93mm dia. mini 2-bolt flange mounting beacons. 2mm thick aluminium. Ideal for roof rack bars & utility tray headboards.



85491

Mounting base suits 83402 and all DIN standard plug-on-tube base beacons and worklamps. Fastener mounting.



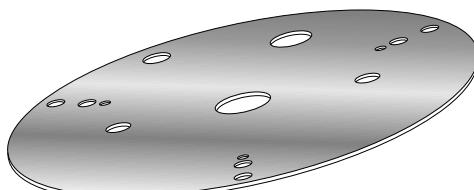
83496

Mounting plate suits 85368A mini SAE standard 115mm PCD 3-bolt flange mounting beacons. 2mm thick aluminium. Ideal for roof rack bars & utility tray headboards.



85490

Mounting base suits 83402 and all DIN standard plug-on-tube base beacons and worklamps. Weld on mounting.

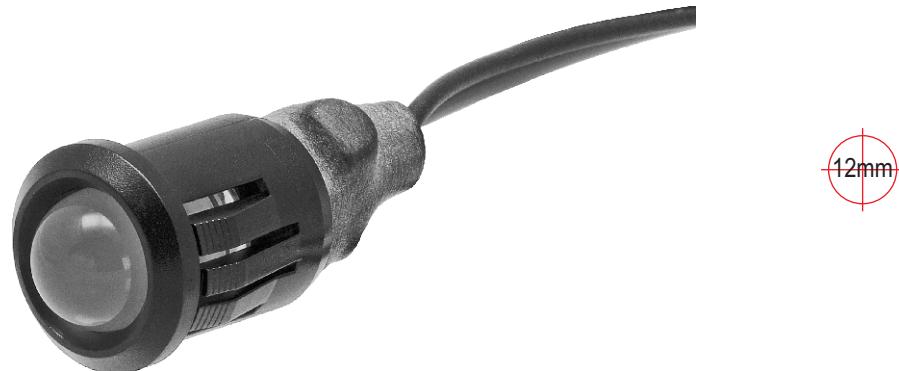


83494

Mounting plate suits 3-bolt flange mounting beacons 83403, 83386, 83397 and all DIN standard 130mm PCD, 83392 SAE standard 156mm PCD, 83568A mini SAE standard 115mm PCD. Made from 2mm thick aluminium. Ideal for roof rack bars & utility tray headboards.

WARNING - VISUAL

The LED flasher is commonly used to flash standard or high intensity LED lamps to enhance the visibility of vehicles, plant and equipment. See our LED lighting catalogues for lamp options.



24726

LED warning light.

- Alternates red/green.
- 10mm jumbo Led.
- 12-33VDC applications.
- Snap fit design.



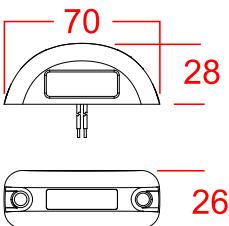
08160

12VDC battery voltage level indicator. Indicates voltage levels via its multi-colour LED.

- Simple fitment - Push fit jumbo 10mm LED
- Soft, even light output is easy on the eye when driving
- Diffused light for wide viewing angle
- <10.7VDC - fast red pulse light
- 10.7VDC - red flashing light
- 11VDC - steady red light
- 11.2VDC - Yellow fast pulse light
- 11.5VDC - Yellow flashing light
- >12.1VDC - steady green light

LED TRUCK & TRAILER LAMPS

A range of feature rich, competitive, alternative LED lamps for common footprint size lamps.
See our Hella, LED Autolamp and Narva catalogues for a comprehensive range of lamps.



90217

LED licence plate lamp.

- Single (plate top) lamp ADR compliance
- 10-30VDC.
- ECE-R4, ECE-R10 approved
- IP67



90208

LED licence plate lamp

- Single (plate top) lamp ADR compliance
- 9-33VDC multivoltage use
- Two recessed screw mounting - 72x41x50mm
- IP67 hermetically sealed
- Polycarbonate lens, ABS housing



90209

LED red/amber side marker lamp

- ADR compliance
- 9-33VDC multivoltage use
- Two recessed screw mounting - 125x65x30mm
- Hermetically sealed



90211

LED amber marker lamp

- ADR compliance
- 9-33VDC multivoltage use
- Two recessed screw mounting - 125x65x30mm
- Hermetically sealed



90204

LED front bumper / bull bar lamp

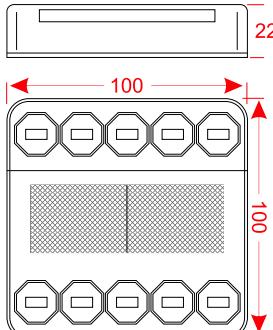
- Park/indicator/daytime running lamp functions
- 9-33VDC multivoltage use
- Two bolt mounting - 81dia.x 45mm
- IP67 hermetically sealed
- Fully ADR compliant
- Polycarbonate lens, cast alloy housing



90229

Low cost, compact LED tail lamp.

- Stop/tail/indicator/reflector functions
- 12VDC use only
- 100x100x22mm
- Mounting via two embedded studs
- Fully sealed with base gasket
- Fully ADR compliant



90230

Low cost, compact LED tail lamp.

- Stop/tail/indicator/reflector/license plate functions
- 12VDC use only. Ideal for trailers
- 100x100x22mm
- Mounting via two embedded studs
- Fully sealed with base gasket
- Fully ADR compliant

LED TRUCK & TRAILER LAMPS

A range of feature rich, competitive, alternative LED lamps for common footprint size lamps.
See our Hella, Led Autolamp and Narva catalogues for a comprehensive range of lamps.



90202

LED combination tail lamp

- Stop/tail/indicator/reverse functions
- 9-33VDC multivoltage use
- Same bolt pattern and footprint as competitor brands - 222x96x33mm
- IP67 hermetically sealed,
- Fully ADR compliant
- Polycarbonate lens, ABS base



90201

LED combination tail lamp

- Stop/tail/indicator/reverse/reflector functions
- 9-33VDC multivoltage use
- Same bolt pattern and footprint as competitor brands - 284x100x37mm
- IP67 hermetically sealed
- Fully ADR compliant
- Polycarbonate lens, ABS base



90203

LED combination tail lamp

- Stop/tail/indicator functions
- 9-33VDC multivoltage use
- Same bolt pattern and footprint as competitor brands - 222x96x33mm
- IP67 hermetically sealed
- Fully ADR compliant
- Polycarbonate lens, ABS base



90225 - Left hand

90226 - Right hand

- LED combination tail lamp
- Stop/tail/sequential indicator/fog/reverse/reflector
- ADR approved (ECER3, r6,r7,r10,r23,r38)
- 10-30VDC multivoltage use
- Popular two bolt mounting - 238x100x37mm
- Sealed to meet IP67
- TIR Optics
- Polycarbonate lens
- Horizontal mounting



TAIL LAMP BRACKETS

These brackets were developed for our OEM customers and suit many popular size tail lamps with dimensions of 280x98mm.

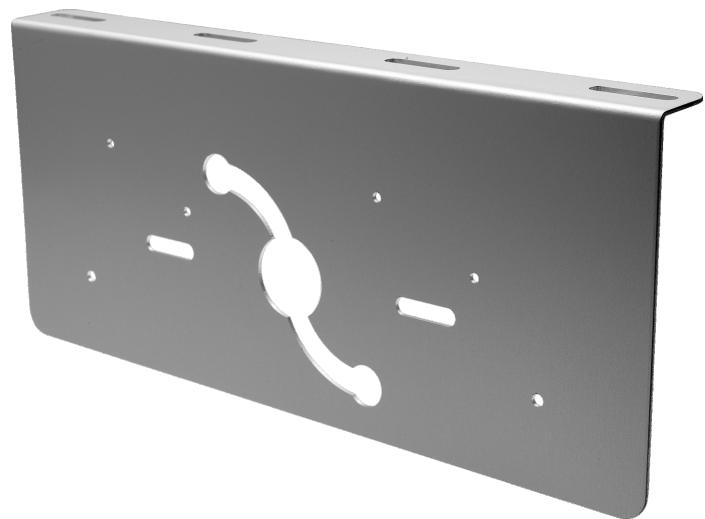
The lamps are low set with respect to the bracket midline so as to allow best visibility when mounted under tray bodies.

All brackets are made from architectural grade German anodised aluminium sheet providing the ultimate paint-less finish.

90005

Plain Lamp Bracket

- Made from anodised 1.6mm Aluminium
- Pre-cut and ready to mount
- Universal fitting - LH + RH
- Suits the following popular lamps:
86710, 90200, 90201, 90225, 90226,
93250, 93275, 93275G, 93280, 93282,
93283



90006 shown fitted with
our 90225P lamp

90006

Pre-wired Lamp Bracket

- Made from anodised 1.6mm Aluminium
- Pre-cut and ready to mount
- Pre-wired with two 12V/21W resistors to dummy load stop and indicator circuits
- Ideal for use with our OEM wiring adapters for a full plug & play solution.
- Universal fitting - LH + RH wiring with adaptable cable exits to suit location
- Suits our pre-wired lamps:
86701P, 90225P, 90226P
- Only for use with 12V vehicles



90002

10W Load Resistor

Suits 12V park circuits

90001

21W Load Resistor

Suits 12V stop or indicator circuits

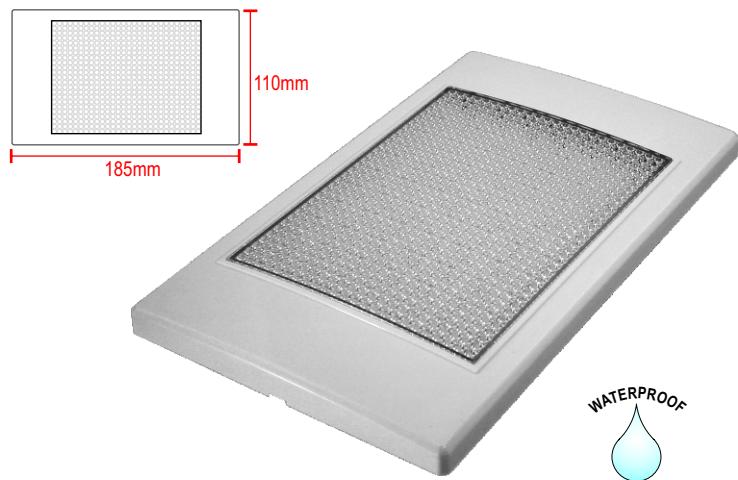
90003

21W Load Resistor

Suits 24V stop or indicator circuits

LED INTERIOR LAMPS

These L.E.D. lamps provide intense, cool-white output making them ideal for caravan, motorhome, RV, boat, truck, plant and equipment. **95110**, and **95120** are suitable for exterior & interior use making them ideal for refrigerated vans, wet areas, dusty areas, vibration prone applications and extended running times.



95110

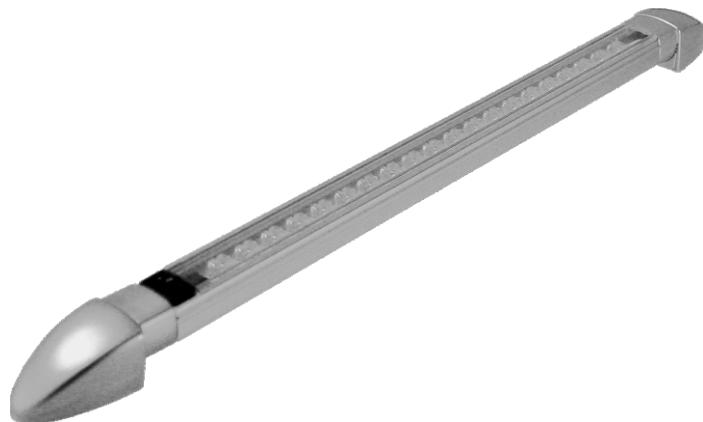
12V LED exterior lamp.

- Unswitched model
- 84 cool white LEDs
- IP66 rated
- 550 Lumen
- 12mm high white housing
- Concealed 2 screw mount

95120

24V LED exterior lamp.

- Unswitched model
- 84 cool white LEDs
- IP66 rated
- 550 Lumen
- 12mm high white housing
- Concealed 2 screw mount



95150

LED strip lamp.

- 20 super white LEDs
- 12VDC bi-polar operation
- Swivels 270° along axis
- On/off rocker switch
- Alloy housing / Polycarbonate end caps
- Pre-wired / low profile
- 2 screw surface mounting
- 350mm long x 20mm wide



95115

12V LED interior lamp.

As above but:

- Internally switched



08003

Mini voltage reducer.

- 18-35VDC input
- 12VDC output
- 5A total load
- Over-current, voltage, temp. protection
- Auto recovery from fault
- IP68, CE, RoHS compliant
- LxWxH: 64x32x18mm
- Ideal for lighting applications

LED EXTERIOR ANNEXE / AWNING LAMPS

These L.E.D. lamps provide intense cool-white output and are specifically designed for the caravan, motorhome and RV industry. They are also ideal for boat, truck, plant and equipment.



95230

LED annexe lamp

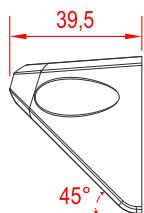
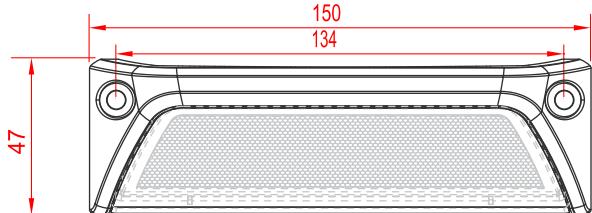
- 48 cool white angled LEDs
- Optimised light distribution
- 12VDC operation
- White housing
- Concealed screw mount
- 325x100x50mm

95053

'52W' LED Awning/Scene/Blindspot Lamp.

- For mounting to vertical surfaces (walls)
- 52 x 1W Osram LEDs
- 120° light spread
- 2260 effective lumen / 960lux @1M
- 10-40VDC operation
- 1.54A@12V / 0.8A@24V
- IP67, CE, RoHS
- Polycarbonate lens
- IP68 & IP69K, CE, RoHS certified
- 2 year warranty

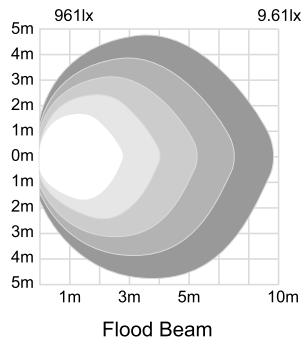
OSRAM 
LED CHIPS



 IP68
WATERPROOF

 IP69K
PRESSURE
WASH



LED HAND LAMPS

Our range of LED hand lamps cover almost all applications requiring light weight, long run times, immunity from battery memory effects, resistance to moisture ingress, negligible heat generation, long service life, bright/white light, rechargeable from mains and/or vehicle. Ideal for business such as workshop and field service vehicles to home, office and camping use.



2XM910603001

'Flash' LED torch.

- COB LED for even bright light
- 130 lumen output
- 12-28V cigarette lighter socket charging
- Adjustable beam focus
- 550mAh Lithium ion rechargeable battery
- 1 hour runtime
- 2 hour charge time (max.)
- IP30 rated



2XM910413011

'Mag3' hand lamp. Generation II.

- Flood light; 6x0.5W SMD LEDs
- Spot light; 1x1W LED
- 3 magnets to hang at any angle
- Flip-out hang hook
- 2200mAh Li-ion rechargeable battery
- 3hour (spot light) runtime
- 4hour charge time (max.)
- Recharge via supplied plug pack USB cable
- IP20 rated



2XM910601001

'iView' hands-free head lamp.

- 2W COB LED for even light spread
- High/flood and low/spot power settings
- Manual or motion detecting, hands free on/off
- 1600mAh Li-polymer rechargeable battery
- 6hour (low setting) runtime
- 3hour (high setting) runtime
- 4hour charge time (max.)
- Recharge via supplied USB cable
- Recharge via supplied mains plug pack
- IP65 rated

LED PCBs

Our range of 12VDC LED PCBs are designed for applications such as interior and courtesy lights. They have high brightness and emit a strong white light.

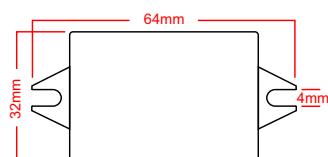
All LED PCBs are not sealed against moisture or corrosion. Care should be taken as to application.



100105

12VDC 24LED PCB kit

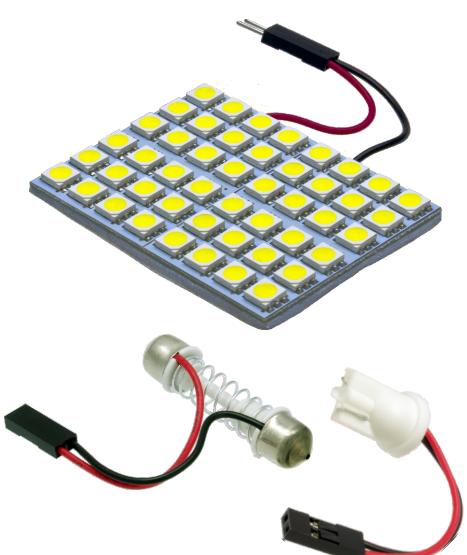
- T10 & festoon adapter
- 6W equivalent light
- 200mA current draw
- 120° light spread
- 44mm x 30mm PCB
- Self adhesive backing



08003

Mini voltage reducer.

- 18-35VDC input
- 12VDC output
- 5A total load
- Over-current, voltage, temp., protection
- Auto recovery from fault
- IP68, CE, RoHS compliant
- LxWxH: 64x32x18mm
- Ideal for LED applications



100117

12VDC 48LED PCB kit

- T10 & festoon adapter
- 12W equivalent light
- 400mA current draw
- 120° light spread
- 58mm x 45mm PCB
- Self adhesive backing

Britax's West Coast style mirrors are universally used on commercial, truck and industrial vehicles. They feature galvanised steel mounting frames and hardware and are supported with a complete range of spare parts. West Coast mirrors use 16mm diameter tube which is compatible with many OEM mirror heads.



1421100

West coast mirror head.
Black finish. No marker lamp.
Size: 463mm x 163mm.

1421158

West coast mirror head.
Black finish. With marker lamp.
Size: 463mm x 163mm.

1421106

West coast mirror head.
Black finish. No marker lamp.
Size: 418mm x 163mm.

1421166

West coast mirror head.
Black finish. With marker lamp.
Size: 418mm x 163mm.

1421131

West coast mirror head.
Black finish. No marker lamp.
Size: 379mm x 163mm.

1421101

West coast mirror head.
Black finish. No marker lamp.
Size: 292mm x 163mm.



1422000

Bracket kit suit one mirror head.
Height Adjust 430-635mm.
Width adjust 445-545mm



1422026

Bracket kit suit one mirror head.
Height Adjust 480-635mm.
Width adjust 340-430mm



1422006

Bracket kit suit one mirror head.
Height Adjust 490-635mm.
Top arm adjusts to suit
door profile



1442502

'U' frame suit one mirror head.
16mm diameter.
Height Adjust 430-635mm



1423631

Heater element.
12V/24V.
Self adhesive PTC material.
318mm x 133mm

380 SERIES MIRROR HEADS

Britax 380 Series mirror heads will fit in place of genuine mirrors for light and heavy truck applications that use 19mm tube arms. Heads are 380mm high and 195mm wide. Use **1473000** 19mm 'U' frame to adapt onto West Coast style brackets. Mirror heads feature stylish, corrosion proof molded plastic backs with recess clamp (internally adjustable) mounting. Part numbers shown in red are stocked lines - black numbers are special buy in.



Part No.	Height	Hand	Glass	Split	Marker	Heater	General application
147380F	380mm	LH/RH	Flat	No	No	No	Hino Dutro, Toyota
147380FL12H	380mm	LH	Flat	No	No	12V	Universal
147380FL12M	380mm	LH	Flat	No	12V	No	Universal
147380FL12MH	380mm	LH	Flat	No	12V	12V	Universal
147380FL24H	380mm	LH	Flat	No	No	24V	Hino Dutro, Toyota
147380FL24M	380mm	LH	Flat	No	24V	No	Hino Dutro, Toyota
147380FL24MH	380mm	LH	Flat	No	24V	24V	Hino Dutro, Toyota
147380FR12H	380mm	RH	Flat	No	No	12V	Universal
147380FR12M	380mm	RH	Flat	No	12V	No	Universal
147380FR12MH	380mm	RH	Flat	No	12V	12V	Universal
147380FR24H	380mm	RH	Flat	No	No	24V	Hino Dutro, Toyota
147380FR24M	380mm	RH	Flat	No	24V	No	Hino Dutro, Toyota
147380FR24MH	380mm	RH	Flat	No	24V	24V	Hino Dutro, Toyota
147380SL	380mm	LH	Flat+Conv.	Yes	No	No	Hino Dutro, Toyota
147380SL12H	380mm	LH	Flat+Conv.	Yes	No	12V	Universal
147380SL12M	380mm	LH	Flat+Conv.	Yes	12V	No	Universal
147380SL12MH	380mm	LH	Flat+Conv.	Yes	12V	12V	Universal
147380SL24H	380mm	LH	Flat+Conv.	Yes	No	24V	Universal
147380SL24M	380mm	LH	Flat+Conv.	Yes	24V	No	Hino Dutro, Toyota
147380SL24MH	380mm	LH	Flat+Conv.	Yes	24V	24V	Hino Dutro, Toyota
147380SR	380mm	RH	Flat+Conv.	Yes	No	No	Hino Dutro, Toyota
147380SR12H	380mm	RH	Flat+Conv.	Yes	No	12V	Universal
147380SR12M	380mm	RH	Flat+Conv.	Yes	12V	No	Universal
147380SR12MH	380mm	RH	Flat+Conv.	Yes	12V	12V	Universal
147380SR24H	380mm	RH	Flat+Conv.	Yes	No	24V	Universal
147380SR24M	380mm	RH	Flat+Conv.	Yes	24V	No	Hino Dutro, Toyota
147380SR24MH	380mm	RH	Flat+Conv.	Yes	24V	24V	Hino Dutro, Toyota

430 SERIES MIRROR HEADS

Britax 430 Series mirror heads will fit in place of genuine mirrors for light and heavy truck applications that use 19mm tube arms. Heads are 430mm high and 200mm wide. Use **1473000** 19mm 'U' frame to adapt onto West Coast style brackets. Mirror heads feature stylish, corrosion proof molded plastic backs with recess clamp (internally adjustable) mounting. Part numbers shown in red are stocked lines - black numbers are special buy in.



Part No.	Height	Hand	Glass	Split	Marker	Heater	General application
147430F	430mm	LH/RH	Flat	No	No	No	Hino Ranger Pro
147430FL12M	430mm	LH	Flat	No	12V	No	Universal
147430FL12MH	430mm	LH	Flat	No	12V	12V	Universal
147430FL24H	430mm	LH	Flat	No	No	24V	Hino Ranger Pro
147430FL24M	430mm	LH	Flat	No	24V	No	Hino Ranger Pro
147430FL24MH	430mm	LH	Flat	No	24V	24V	Hino Ranger Pro
147430FR12M	430mm	RH	Flat	No	12V	No	Universal
147430FR12MH	430mm	RH	Flat	No	12V	12V	Universal
147430FR24H	430mm	RH	Flat	No	No	24V	Hino Ranger Pro
147430FR24M	430mm	RH	Flat	No	24V	No	Hino Ranger Pro
147430FR24MH	430mm	RH	Flat	No	24V	24V	Hino Ranger Pro
147430SL	430mm	LH	Flat+Conv.	Yes	No	No	Isuzu N&C, Iveco, UD
147430SL12H	430mm	LH	Flat+Conv.	Yes	No	12V	Universal
147430SL12M	430mm	LH	Flat+Conv.	Yes	12V	No	Universal
147430SL12MH	430mm	LH	Flat+Conv.	Yes	12V	12V	Universal
147430SL24H	430mm	LH	Flat+Conv.	Yes	No	24V	Universal
147430SL24M	430mm	LH	Flat+Conv.	Yes	24V	No	Isuzu N&C, Iveco, UD
147430SL24MH	430mm	LH	Flat+Conv.	Yes	24V	24V	Isuzu N&C, Iveco, UD
147430SR	430mm	RH	Flat+Conv.	Yes	No	No	Isuzu N&C, Iveco, UD
147430SR12H	430mm	RH	Flat+Conv.	Yes	No	12V	Universal
147430SR12M	430mm	RH	Flat+Conv.	Yes	12V	No	Universal
147430SR12MH	430mm	RH	Flat+Conv.	Yes	12V	12V	Universal
147430SR24H	430mm	RH	Flat+Conv.	Yes	No	24V	Universal
147430SR24M	430mm	RH	Flat+Conv.	Yes	24V	No	Isuzu N&C, Iveco, UD
147430SR24MH	430mm	RH	Flat+Conv.	Yes	24V	24V	Isuzu N&C, Iveco, UD

MIRROR HEADS

Britax mirror heads are universally used on commercial, truck and industrial vehicles and many local OEM applications. Mirror heads feature stylish, corrosion proof molded plastic backs with recess clamp (internally adjustable) or ball clamp mounting. They can be used on 16mm West Coast style mirror frames or on many existing OEM frames. Plastic lenses are safe, impact and scratch resistant, and have a hydrophilic coating to make them water repellent.



GLASS
LENS

7818-000C

European convex mirror head.
Molded black plastic back.
Recessed clamp. 14-22mm arm.
Size: 444mm x 208mm.

7818-000F

European flat mirror head.
Molded black plastic back.
Recessed clamp. 14-22mm arm.
Size: 444mm x 208mm.



GLASS
LENS

7107-602A

European flat mirror head.
Molded black plastic back.
Recessed clamp. 14-22mm arm.
Size: 268mm x 207mm.



PLASTIC
LENS

7120-620A

European convex mirror head.
Molded black plastic back.
Ball clamp. 10-22mm arm.
Size: 262mm x 160mm.



GLASS
LENS

7112-022

European convex mirror head.
Molded black plastic back.
Ball clamp. 10-22mm arm.
Size: 282mm x 174mm.

7112-023

European flat mirror head.
Molded black plastic back.
Ball clamp. 10-22mm arm.
Size: 282mm x 174mm.



GLASS
LENS

7182-301

Universal convex mirror head.
Molded black plastic back.
Ball clamp. 16mm arm.
Size: 263mm x 160mm.



7182-321

Universal convex mirror head.
Molded black plastic back.
Ball clamp. 10-22mm arm.
Size: 263mm x 160mm.

7181-321

Universal flat mirror head.
Molded black plastic back.
Ball clamp. 10-22mm arm.
Size: 263mm x 160mm.



1423100

European flat mirror head.
Molded black plastic back.
Ball clamp. 14-20mm arm.
Size: 415mm x 225mm.



PLASTIC
LENS

7131-600A

European flat mirror head.
Molded black plastic back.
Recess clamp. 10-22mm arm.
Size: 300mm x 200mm.



1422080

Mirror arm suit medium size
mirror heads and spotter mirrors.
Solid 16mm arm.
Size: 200mm to arm tip

MIRROR HEADS

Britax mirror heads are universally used on commercial, truck and industrial vehicles. Universal and spotter mirrors are used with 12.7mm arms.



1412641

Universal flat mirror head.
Molded black plastic back.
Ball clamp. 12.7mm arm.
Size: 212mm x 124mm.

GLASS
LENS



1441011

Light commercial flat mirror kit.
Suit contoured doors.
Molded black plastic back.
High corrosion resistance.
Head size: 232mm x 152mm.

GLASS
LENS



1421014

Convex spotter mirror head.
Coated steel fabricated back.
Ball clamp. 12.7mm arm.
Size: 150mm x 110mm.

GLASS
LENS



1412647

Universal flat mirror head.
Coated steel fabricated back.
Ball clamp. 12.7mm arm.
Size: 286mm x 162mm.

GLASS
LENS



1441012

Light commercial flat mirror kit.
Suit flat doors.
Molded black plastic back.
High corrosion resistance.
Head size: 232mm x 152mm.

GLASS
LENS



1421015

Convex spotter mirror head.
Stainless steel back.
Ball clamp. 12.7mm arm.
Size: 150mm x 110mm.

GLASS
LENS



1441047

Flat wing mirror.
Suit cars, vans, light commercials
& off-road vehicles.
Molded black plastic back.
High corrosion resistance.
Head size: 217mm x 140mm.

GLASS
LENS



1441122

Replacement flat mirror head.
1441011 & 1441012 kits.
Molded black plastic back.
High corrosion resistance.
Head size: 232mm x 152mm.

GLASS
LENS



1441030

Universal convex spotter mirror.
Coated steel back.
12.7mm arm and clamp.
Head size: 125mm diameter

GLASS
LENS

MIRRORS

Britax mirror heads are universally used on cars, vans, off-road, light and medium commercial, truck and industrial vehicles. A full range of spare parts from gaskets, seals, clamps, arms, brackets to replacement mirror glass is available.



1441017

Convex reversing mirror kit.
No mounting holes required
Adjustable. Wide viewing angle.
Head size: 172mm x 142mm.
Arm: 300mm



1441016

Self adhesive convex mirror.
140mm x 100mm



1442502

'U' frame suit one mirror head.
Height Adjust 430-635mm



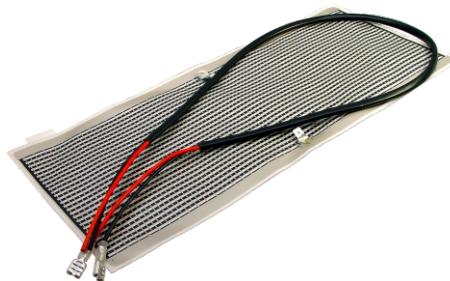
1441014

Self adhesive convex mirror.
50mm diameter.



1441185

90° clamp assembly.
High corrosion resistance.
Suits 16mm arms.



1423631

Heater element.
12V/24V.

Self adhesive PTC material.
318mm x 133mm



1441015

Self adhesive convex mirror.
100mm diameter.



1422080

Mirror arm suit universal mirror
heads and spotter mirrors.
Solid 16mm arm.
Size: 200mm to arm tip



1421011

Self adhesive convex mirror.
Adjustable to suit blind-spot.
103mm diameter.

WASHER / WIPER PRODUCTS

Washer pump motors are for intermittent duty cycles. They are not intended for operations longer than a few seconds at a time and are for use with clean water or a windscreens washer solution.



14135

12V washer pump suit
Falcon XD, EF
Econovan
Camry - late



24230

Washer/wiper switch
• Dynamic park circuit
• Push to wash
• 2 speed
• O-ring sealed shaft
• Up to 8mm thick panels

TOWING ACCESSORIES

Break-away systems are mandatory for larger trailers and caravans fitted with electric brakes. Our break-away kits are used by OEMs as original fitment and aftermarket fitters as upgrades. Our brake controllers are 'voltage build-up' types and do not require specific mounting angles to operate.



08300

12VDC trailer break-away kit.

- For use with trailers and caravans with 1-2 axle, 12V electric brake systems
- Automatically engages electric trailer brakes when the trailer becomes decoupled from the tow vehicle during an emergency
- Supplied with break-away switch and battery box
- Battery box has integrated charge test button and LED charge status indicators
- Battery box dimensions: 150(W)x130(H)x105(D)
- Battery recharge time: 22min. (Approx.)



08301

12VDC remote VBU brake controller.

- Compact size remote control box can be mounted at any convenient angle
- LED remote indication for brake connected and brake on
- Easy fitment and adjustment via remote knob
- Convenient over-ride via remote knob push-in
- 12VDC / 12A output capacity
- Supply voltage: 9-15VDC
- Remote control box dimensions: 79(W)x40(H)x81(D)



08305

Trailer break-away switch



08301

12VDC remote VBU brake controller.

- Compact size remote control box can be mounted at any convenient angle
- LED remote indication for brake connected and brake on
- Easy fitment and adjustment via remote knob
- Convenient over-ride via remote knob push-in
- 12VDC / 12A output capacity
- Supply voltage: 9-15VDC
- Remote control box dimensions: 79(W)x40(H)x81(D)

08303

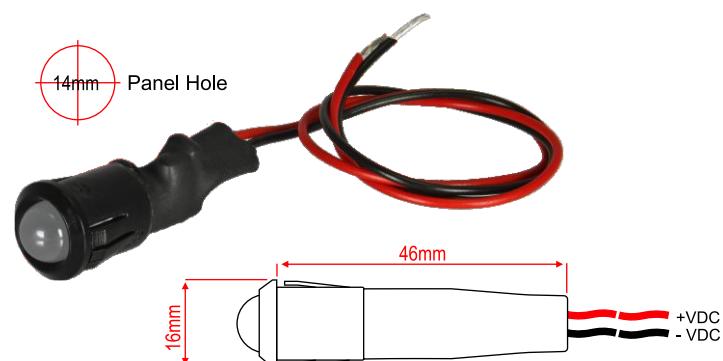
As above but for 24VDC vehicle supply.



08302

24VDC local VBU brake controller

- For use with towing vehicles with 24VDC supply. Unit negates the need to use with a voltage reducer
- For trailers and caravans with 1-2 axle, 12V electric brake systems @ 14A maximum load
Can be mounted at any convenient angle
- Digital display for accurate setup
- Convenient over-ride slide control
- Rugged extruded aluminium housing
- Dimensions: 150(W)x130(H)x105(D)



08160

12VDC battery voltage level indicator. Indicates voltage levels via its multi-colour LED.

- Simple fitment - Push fit jumbo 10mm LED
- Soft, even light output is easy on the eye when driving
- Diffused light for wide viewing angle
- <10.7VDC - fast red pulse light
- 10.7VDC - red flashing light
- 11VDC - steady red light
- 11.2VDC - Yellow fast pulse light
- 11.5VDC - Yellow flashing light
- >12.1VDC - steady green light
- Combine with a dummy load and switch to use as a remote battery charge indicator for trailer break-away battery at the driver's position to comply with NSW RMS regulations (circuit & application notes available upon request)