

EWA2025

EVVA 2025

Electrical Wiring Accessories

ionnic | 

Mission Statement

To be the preferred supplier of electrical, lighting and safety solutions for mobile plant and equipment in the mining and services industry.

We will continue to improve and expand our range of products that meet and exceed OEM standards, maintaining the latest technology and innovation available backed by technical support and supply.



Conduit & Conduit Fittings

| | |
|-----------------------------|----|
| Polyflex® PA6 | 9 |
| Polyflex® PPmod | 10 |
| PP Split | 11 |
| Conduit Tools & Accessories | 12 |
| Military Plug Adaptors | 16 |
| SEM-FAST Adaptors | 18 |
| Threadconnect Adaptors | 20 |
| Threadconnect Fittings | 22 |
| Threadconnect Reducers | 24 |
| Hinged T & Y Fittings | 25 |

Fitting Accessories

| | |
|-----------------------------|----|
| Grommets, Bushings & Glands | 32 |
| Cable Ties | 34 |
| Clips & Clamps | 37 |
| Electrical Tape | 42 |
| Mémocab Marking System | 43 |
| Terminal Insulators/Boots | 44 |

Sleeving

| | |
|-------------------------------|----|
| ION-Guard – Expandable | 50 |
| ION-Guard – Guard-Shield | 53 |
| ION-Guard – Textile | 54 |
| PVC Tubing | 56 |
| Spiral Wrap | 57 |
| Heatshrink – Standard Wall | 58 |
| Heatshrink – Diesel Resistant | 61 |
| Heatshrink – Adhesive Lined | 62 |

Enclosures

| | |
|-------------------|----|
| Polypropylene | 68 |
| ABS/Thermoplastic | 70 |
| PVC | 74 |
| Die-cast | 75 |
| Pendant Control | 76 |
| Fuel Junction | 78 |

Circuit Breakers

| | |
|----------------------------|----|
| General | 82 |
| Switchable Circuit Breaker | 85 |
| Marine | 86 |
| Heavy Duty | 88 |
| Blade | 90 |

Fuses & Fuse Holders

| | |
|--------------------------|-----|
| Fuses | 94 |
| Fuse & Relay Holder Kits | 98 |
| Fuse Holders | 100 |
| Blade Fuse Taps | 103 |

Fuses & Fuse Holders cont.

| | |
|-----------------------------|-----|
| Blade Fuse Panels | 104 |
| Weatherproof Fuse Panels | 108 |
| Fuse & Relay Enclosure Kits | 110 |
| Modular MFL Fuse Holder | 115 |
| Mini Electrical Centres | 116 |

Bolt-in Fuses & Holders

| | |
|----------------------------|-----|
| Bolt-in Fuses | 120 |
| T-Class Fuses | 122 |
| Bolt-in Fuse Holders | 123 |
| Modular AMI Fuse Holder | 126 |
| Power Distribution Units | 127 |
| Marine Rated Battery Fuses | 132 |

Diodes

| | |
|----------------|-----|
| Plug-in Diodes | 136 |
| Diodes | 137 |

Cable

| | |
|-----------------|-----|
| Thin Wall Cable | 140 |
| Single Cable | 146 |
| Tinned | 150 |
| Battery Cable | 152 |
| Sheathed | 155 |
| Specialty | 157 |

Tools

| | |
|-----------------------|-----|
| Crimping Tools | 162 |
| Contact Removal Tools | 166 |
| Workshop Tools | 170 |
| Cable Insertion Tools | 174 |

Electronics

| | |
|---------------------------|-----|
| Voltage Converters | 178 |
| RCD/GPO Inverters | 181 |
| Pure Sine Wave Inverters | 182 |
| AC to DC Battery Chargers | 184 |
| DC to DC Battery Chargers | 185 |
| Power Supply | 186 |
| Digital Inclinometer | 187 |
| Battery Monitor Plus | 188 |
| Hour Meters | 190 |
| Brake Controllers | 191 |

Bulbs

| | |
|-------|-----|
| Bulbs | 194 |
|-------|-----|

Index

| |
|-----|
| 200 |
|-----|

What's new in EWA2025

NEW in Fitting Accessories

35

Cable Ties - Specialty



NEW in Enclosures

73

Thermoplastic Enclosures - PJ Series

73

IONNIC Potting Box



NEW in Circuit Breakers

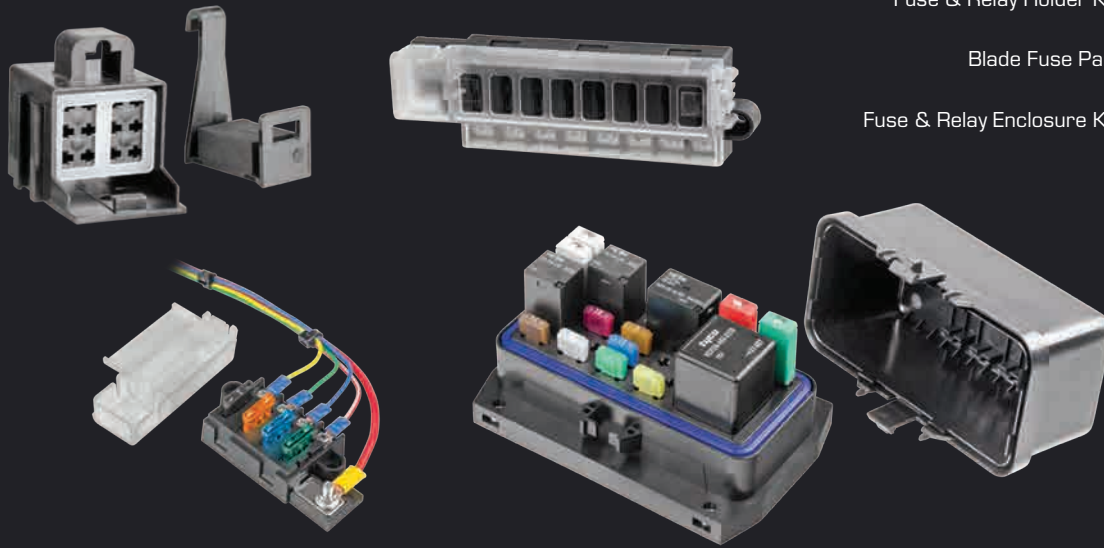
85

Switchable Circuit Breaker



What's new in EWA2025

NEW in Fuses & Fuse Holders



Fuse & Relay Holder Kits 98

Blade Fuse Panel 105

Fuse & Relay Enclosure Kits 110

NEW in Bolt-in Fuses & Holders



Bolt-in Fuses – ANS Series 120

Power Distribution Units – Surface Mount 129

NEW in Electronics



Pure Sine Wave Inverters – LCD Panel 183

Conduit & Conduit Fittings



Conduit & Conduit Fittings

| | | |
|---|-----------------------------|----|
|  | Polyflex® PA6 | 9 |
|  | Polyflex® PPmod | 10 |
|  | PP Split | 11 |
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|  | Threadconnect Fittings | 22 |
|  | Threadconnect Reducers | 24 |
|  | Hinged T & Y Fittings | 25 |

Conduit & Conduit Fittings

NW Size Cross Reference

Due to varying sizing methods and manufacturer interpretations there are different sizing formats used for conduit.

The table below provides a cross-reference for all conduit within this catalogue to Schlemmer NW sizing, and to UK NC sizing.

| PA6 Conduit | PPmod Conduit | PP Split Conduit | NW Schlemmer Identification | NC UK Identification | Inside Diameter |
|-------------|---------------|------------------|-----------------------------|----------------------|-----------------|
| Part Number | Part Number | Part Number | Size | Size | (mm) |
| 1200068 | 1927304 | LT5 | NW4.5 | NC06 | 5 |
| 1200069 | 1927306 | — | NW6 | NC07 | 6 |
| 1200070 | — | LT7 | NW7.5 | NC08 | 6.7 |
| 1200089 | 1927308 | — | NW8.5 | NC10 | 8.4 |
| 1200100 | — | LT10 | NW10 | NC12 | 9.9 |
| — | 1927311 | — | NW11 | — | 11.1 |
| 1200127 | — | — | NW12 | NC12 | 12.2 |
| 1200135 | — | LT13 | NW13 | NC16 | 12.7 |
| — | — | — | NW14 | — | 14.2 |
| 1200178 | — | LT16 | NW17 | NC20 | 16.6 |
| 1200224 | — | LT20 | NW22 | NC25 | 21.3 |
| — | — | — | NW26 | NC30 | 25.8 |
| 1200291 | — | LT30 | NW29 | NC32 | 29 |
| 1200372 | — | LT36 | NW37 | NC40 | 36 |
| 1200500 | — | — | NW50 | NC50 | 47.7 |

Please note that due to many different qualities of split conduit available on the market only IONNIC supplied PPmod & PP Split Conduit is confirmed to match the above NW sizing.

Identification

Marked on all rolls of PA6 & PPmod conduit, as well as all Hinged Fittings and SEM-FAST Fittings is an 'NW' number.



Conduit



Sealed Fittings



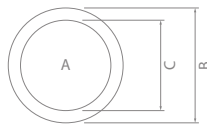
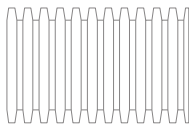
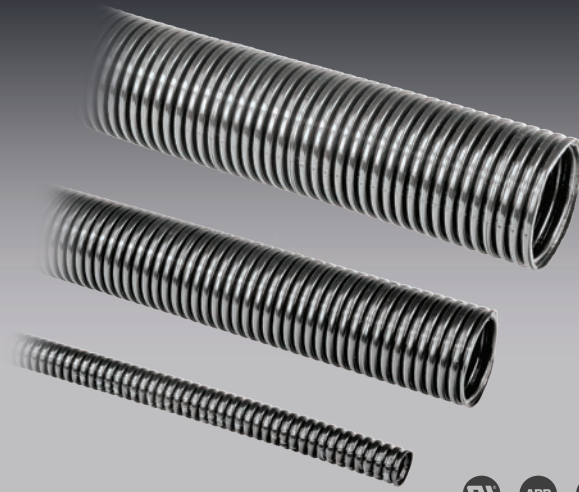
Hinged Fittings

Conduit & Conduit Fittings

Polyflex® PA6

- Highly durable & flexible.
- Self-extinguishing, flame retardant and halogen-free.
- High chemical, oil & solvent resistance.
- Wide range of sizes.
- Compatible with entire range of Schlemmer fittings and accessories.
- Made in Europe.

Material : Polyamide 6 (PA6)
 Approvals : TUV, NFR, L.C.O.E., UL, ADR & GGVS
 Burning Behaviour : FMVSS 302, <100mm/min
 UL94 HB
 UV Resistance : DIN EN ISO 8580
 Operating Temperature : Continuous -40°C to 120°C
 Short Term 150°C



Polyflex® PA6 Corrugated Conduit (Nylon)

| Part No. | NW - A | NC - A | B (mm) | C (mm) | Roll Length (m) |
|--------------|--------|--------|--------|--------|-----------------|
| 1200068/100 | 4.5 | 6 | 7.1 | 5.0 | 100 |
| 1200069/100 | 6.0 | 7 | 9.2 | 6.0 | 100 |
| 1200070/50 | 7.5 | 8 | 10.0 | 6.7 | 50 |
| 1200807/5000 | | | | | 5,000* |
| 1200089/50 | 8.5 | 10 | 11.7 | 8.4 | 50 |
| 1200808/3300 | | | | | 3,300* |
| 1200100/50 | 10.0 | 12 | 13.0 | 9.9 | 50 |
| 1200810/3000 | | | | | 3,000* |
| 1200127/50 | 12.0 | 12 | 15.7 | 12.2 | 50 |
| 1200135/50 | 13.0 | 16 | 15.8 | 12.7 | 50 |
| 1200813/2000 | | | | | 2,000* |
| 1200178/50 | 17.0 | 20 | 21.2 | 16.6 | 50 |
| 1200817/1100 | | | | | 1,100* |
| 1200224/50 | 22.0 | 25 | 25.4 | 21.3 | 50 |
| 1200822/700 | | | | | 700* |
| 1200291/25 | 29.0 | 32 | 34.5 | 29.0 | 25 |
| 1200829/450 | | | | | 450* |
| 1200372/25 | 37.0 | 40 | 42.4 | 36.0 | 25 |
| 1200500/25 | 50.0 | 50 | 54.0 | 47.0 | 25 |

* Bulk stock lead times may apply. Supplied in octagon.



Conduit & Conduit Fittings

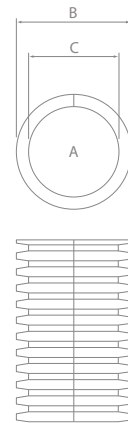
Polyflex® PPmod



Made in Europe

- Quick & easy cable insertion.
- Self-extinguishing & flame retardant.
- UV resistant & acid proof.
- Ideal for extreme temperature application.
- Compatible with a wide selection of the Schlemmer Hinged and SEM-FAST fittings.
- Made in Europe.

Material : High Temperature Polypropylene
 Burning Behaviour : FMVSS 302
 Self-extinguishing Type B & burning rate 0 (DIN7500)
 UV Resistance : DIN EN ISO 8580
 Operating Temperature : Continuous -40°C to 135°C
 Short Term 150°C

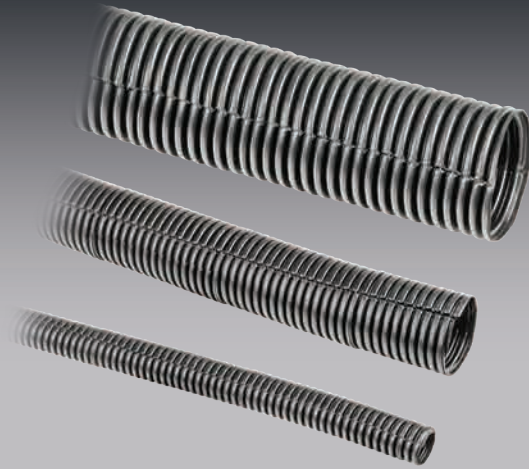


Polyflex® PPmod Corrugated Conduit – Split

| Part No. | NW – A | B (mm) | C (mm) | Roll Length (m) |
|-------------|--------|--------|--------|-----------------|
| 1927304/100 | 4.5 | 7.1 | 5.0 | 100 |
| 1927306/100 | 6 | 9.2 | 6.0 | 100 |
| 1927308/50 | 8.5 | 12.9 | 8.5 | 50 |
| 1927311/50 | 11 | 15.7 | 11.1 | 50 |

Conduit & Conduit Fittings

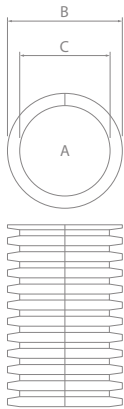
- Quick & easy cable insertion.
- Wide range of sizes & lengths available.
- Compatible with a wide selection of the Schlemmer Hinged and SEM-FAST fittings.
- Made in Australia.



PP Split



Material : Polypropylene
 Operating Temperature : Continuous -20°C to 90°C
 Short Term 120°C



PP Corrugated Conduit – Split

| Part No. | NW – A | B (mm) | C (mm) | Roll Length (m) |
|----------|--------|--------|--------|-----------------|
| LT5/100 | 4.5 | 8.0 | 5.0 | 100 |
| LT7/50 | 7.5 | 10.4 | 7.0 | 50 |
| LT7/400 | 7.5 | 10.4 | 7.0 | 400 |
| LT10/30 | 10 | 12.8 | 9.7 | 30 |
| LT10/250 | 10 | 12.8 | 9.7 | 250 |
| LT13/30 | 13 | 15.7 | 12.6 | 30 |
| LT13/150 | 13 | 15.7 | 12.6 | 150 |
| LT16/30 | 17 | 20.9 | 16.3 | 30 |
| LT16/100 | 17 | 20.9 | 16.3 | 100 |
| LT20/30 | 22 | 25.2 | 21.1 | 30 |
| LT20/100 | 22 | 25.2 | 21.1 | 100 |
| LT25/50 | 23 | 30.0 | 25.0 | 50 |
| LT30/50 | 29 | 35.0 | 31.2 | 50 |
| LT36/25 | 37 | 42.0 | 36.0 | 25 |

Only IONNIC supplied PP Split Conduit is confirmed to match NW sizing on the market.
 Not a Schlemmer product.



Conduit & Conduit Fittings

SJ32



9805916/10



9805916/5



8211000/10



9805943/10



Made in Europe

- End Caps/Sleeves suitable for single or multiple cables.
- Quick & easy means of conduit termination using End Caps.
- Securely fasten PP Split & PPmod conduit using Conduit Support Clips.
- Quick & secure 'pop-in' style Christmas Tree mounting clips.
- 'P' Clamps for offset mounting.
- Range of conduit tools available.
- Made in Europe.



9805939/10

9805945/10

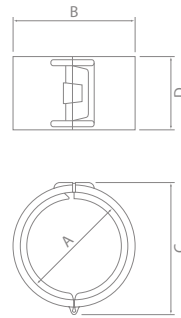


Fig 1

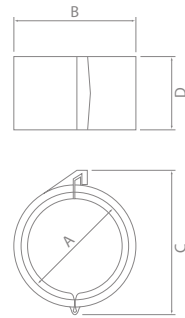


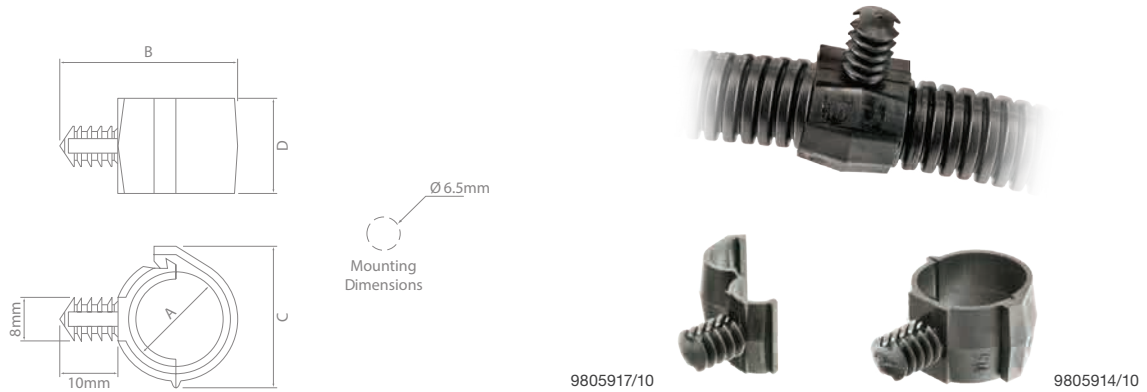
Fig 2

Conduit Support Clips

| Part No. | NW - A | NC - A | B (mm) | C (mm) | D (mm) | Pack Qty | Fig |
|-------------|--------|--------|--------|--------|--------|----------|-----|
| 9805940/10 | 4.5 | 6 | 10 | 12 | 10 | 10 | 1 |
| 9805941/10 | 7.5 | 8 | 13 | 15 | 13 | 10 | 1 |
| 9805941/100 | 7.5 | 8 | 13 | 15 | 13 | 100 | 1 |
| 9805939/10 | 8.5 | 10 | 16 | 18 | 13 | 10 | 2 |
| 9805942/10 | 10 | 12 | 16 | 18 | 13 | 10 | 1 |
| 9805943/10 | 13 | 16 | 19 | 21 | 13 | 10 | 1 |
| 9805944/10 | 17 | 20 | 24 | 26 | 15 | 10 | 1 |
| 9805945/10 | 22 | 25 | 29 | 30 | 16 | 10 | 1 |

Clips use corrugations to hold conduit in place to stop any lateral movement.

Conduit & Conduit Fittings



Conduit Mounting Clips

| Part No. | NW - A | NC - A | B (mm) | C (mm) | D (mm) | Pack Qty |
|------------|--------|--------|--------|--------|--------|----------|
| 9805917/10 | 4.5 | 6 | 21 | 13 | 13 | 10 |
| 9805911/10 | 7.5 | 8 | 24 | 16 | 13 | 10 |
| 9805912/10 | 8.5 | 10 | 25 | 17 | 13 | 10 |
| 9805913/10 | 10 | 12 | 27 | 18 | 13 | 10 |
| 9805914/10 | 13 | 16 | 30 | 21 | 13 | 10 |
| 9805925/10 | 17 | 20 | 35 | 26 | 13 | 10 |
| 9805916/10 | 22 | 25 | 40 | 31 | 13 | 10 |

Clips use corrugations to hold conduit in place to stop any lateral movement.

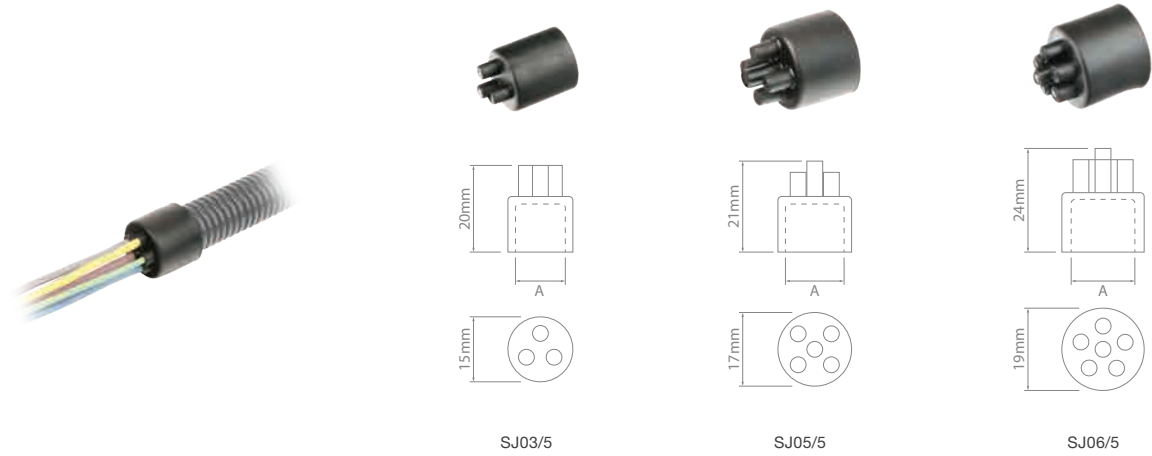


'P' Clamps - Heavy-Duty

| Part No. | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | Pack Qty |
|------------|-------------|--------|--------|--------|--------|----------|
| 8211060/10 | 5.7 - 6.3 | 28 | 10 | 16 | 6.6 | 10 |
| 8211094/10 | 8.6 - 9.3 | 30 | 14 | 16 | 6.6 | 10 |
| 8211108/10 | 9.5 - 10.3 | 32 | 15 | 16 | 6.6 | 10 |
| 8211124/10 | 11.5 - 12.3 | 34 | 17 | 16 | 6.6 | 10 |
| 8211000/10 | 12.3 - 13.3 | 36 | 18 | 16 | 6.6 | 10 |
| 8211035/10 | 15.5 - 16.3 | 38 | 121 | 16 | 6.6 | 10 |
| 8211019/10 | 21.4 - 22.3 | 47 | 27 | 19 | 6.6 | 10 |
| 8211027/10 | 24.4 - 25.3 | 58 | 32 | 23 | 8.6 | 10 |



Conduit & Conduit Fittings



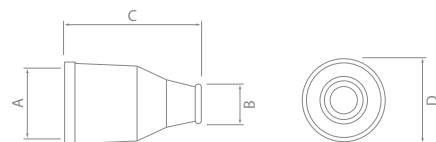
Conduit End Caps

| Part No. | NW – A | NC – A | No. of Outlets | Pack Qty |
|---------------|----------|---------|----------------|----------|
| SJ03/5 | 8.5 – 10 | 10 – 12 | 3 | 5 |
| SJ05/5 | 10 | 12 | 5 | 5 |
| SJ06/5 | 13 | 16 | 6 | 5 |

Single cable outlets can be achieved by trimming the end from an individual gland.



SJ12/5



Conduit End Sleeves

| Part No. | NW – A | NC – A | Outlet Ø – B (mm) | C (mm) | D (mm) | Pack Qty |
|---------------|--------|--------|-------------------|--------|--------|----------|
| SJ12/5 | 10 | 12 | 4 – 8 | 29 | 18 | 5 |
| SJ16/5 | 13 | 16 | 6 – 10 | 33 | 22 | 5 |
| SJ20/5 | 17 | 20 | 9 – 15 | 33 | 27 | 5 |
| SJ25/5 | 22 | 25 | 10 – 17 | 47 | 29 | 5 |
| SJ32 | 29 | 32 | 12 – 20 | 48 | 35 | 1 |
| SJ40 | 37 | 40 | 19 – 30 | 47 | 44 | 1 |

Conduit & Conduit Fittings



9001511



9001520



9001543



9001550

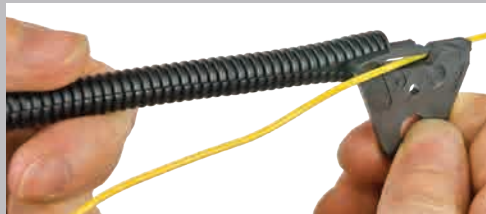
Conduit Tools

| Part No. | Description | Suitable Conduit Size (NW) |
|----------|---|----------------------------|
| 9001511 | Single cable insertion tool | 6 – 13 |
| 9001520 | Universal cable insertion tool with offset flange | 10 – 26 |
| 9001543 | Universal cable insertion tool – small | 8.5 – 12 |
| 9001550 | Universal cable insertion tool – large | 13 – 26 |

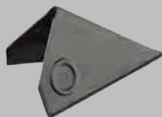
Using Conduit Tools



Single Cable Insertion Tool



While holding end of conduit with cable, pull the insertion tool down the length of conduit.



Universal Cable Insertion Tool



Insert tool wedge containing wires into conduit split.

Drag insertion tool down the length of conduit whilst holding cables.



Conduit & Conduit Fittings

Military Plug Adaptors



SF06



SF13

- Attach Mil-spec and TE DEUTSCH HD Series connectors to a sealed conduit system.
- Compatible with Polyflex PA6 conduit.
- Environmentally sealed – IP67, when installed using supplied conical seal with PA6 conduit.
- Suitable for hazardous applications when used with PA6 conduit.
- Made in Europe.

Made in Europe

Adaptor Body :
Conical Seal :
Cap Nut :

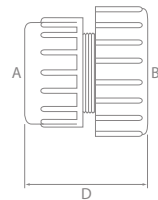
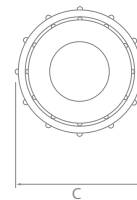
Polycarbonate
Neoprene
Polyamide 6



SF02



SF14



Military Plug Adaptor Kits

| Part No. | NW – A | NC – A | Thread Size – B | C (mm) | D (mm) | Notes |
|----------|--------|--------|-------------------|--------|--------|--|
| SF02 | 10 | 12 | 7/8" -20 UNEF | 36 | 31 | |
| SF06 | 10 | 12 | 1" -20 UNEF | 39 | 35 | |
| SF03 | 17 | 20 | 1" -20 UNEF | 36 | 35 | |
| SF01 | 17 | 20 | M35 x 1.75 | 36 | 35 | Suits TE DEUTSCH HDP Series with L015 mod. |
| SF04 | 17 | 20 | 1, 3/16" -18 UNEF | 36 | 38 | Suits TE DEUTSCH HD36-18 adaptors |
| SF05 | 22 | 25 | 1, 7/16" -18 UNEF | 38 | 44 | Suits TE DEUTSCH HD36-24 adaptors |
| SF12 | 22 | 25 | 1, 5/8" -18 UNEF | 44 | 48 | |
| SF14 | 22 | 25 | M34 x 1.25 | 45 | 41 | |
| SF13 | 29 | 32 | 1, 5/8" -18 UNEF | 45 | 48 | |

Kit contents: 1 x Adaptor Body, 1 x Conical Seal & 1 x Cap Nut.

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IONNIC and Brigade Electronics team up to release the latest innovation in intelligent detection

Artificial Intelligence is driving technological advancements in the business of protecting lives. AI offers real-world improvements in risk evaluation, alert notification and intelligent object classification.

Contact us to explore how we can enhance your workplace safety by integrating edge AI into your mobile plant and equipment.

With Intelligent Detection, you are even safer with us.

Contact Us



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Conduit & Conduit Fittings

SEM-FAST Adaptors

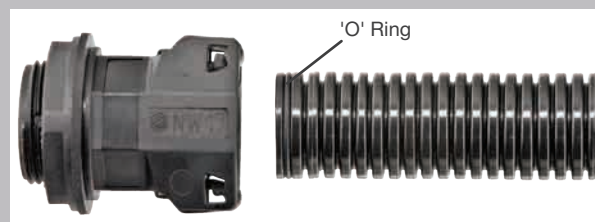


- Flame retardant & halogen-free Polyamide 6.
- Compatible with PA6, PPmod or PP Split conduit.
- Special lock-in design.
- High tensile strength.
- Environmentally sealed – IP67, when installed using supplied 'O' Ring with PA6 conduit.
- Made in Europe.

Made in Europe

Adaptor Body : Polyamide 6 (PA6)
 'O' Ring : Perbunane
 Burning Behaviour : According to FMVSS 302
 <100mm/min

Using SEM-FAST Adaptor Kits



To create a seal of up to IP67* use the supplied 'O' Ring in the first groove of the conduit.

* IP67 seal can only be achieved when used with PA6 conduit.

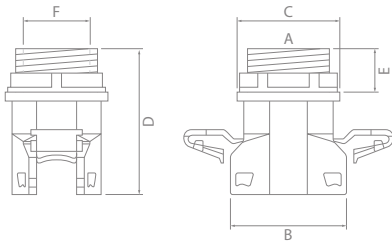


Insert conduit into already closed SEM-FAST adaptor and firmly push in until locking clamps catch.



To remove fitting use a small flat blade screwdriver to disengage clamps from conduit.

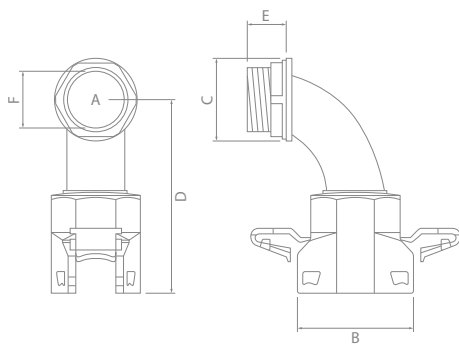
Conduit & Conduit Fittings



SEM-FAST Adaptor Kits – Straight

| Part No. | NW – A | NC – A | Thread Size | B (mm) | C (mm) | D (mm) | E (mm) | F (mm) | Pack Qty |
|-------------------|--------|--------|-------------|--------|--------|--------|--------|--------|----------|
| SEM8PG7/5 | 7.5 | 8 | PG7 | 19 | 18 | 34 | 11 | 7.5 | 5 |
| SEM10M12/5 | 8.5 | 10 | M12 x 1.5 | 20.6 | 20 | 35 | 11 | 7.5 | 5 |
| SEM12M12/5 | 10 | 12 | M12 x 1.5 | 21.6 | 22 | 36 | 12 | 7.5 | 5 |
| SEM12M16/5 | 10 | 12 | M16 x 1.5 | 21.6 | 22 | 36 | 12 | 11 | 5 |
| SEM16M16/5 | 13 | 16 | M16 x 1.5 | 25.5 | 25 | 38 | 12 | 11 | 5 |
| SEM16M20/5 | 13 | 16 | M20 x 1.5 | 25.5 | 25 | 38 | 12 | 15.2 | 5 |
| SEM20M20/5 | 17 | 20 | M20 x 1.5 | 34.5 | 31 | 43 | 13 | 15.4 | 5 |
| SEM20M25/5 | 17 | 20 | M25 x 1.5 | 34.5 | 31 | 43 | 13 | 19.1 | 5 |
| SEM25M25/5 | 22 | 25 | M25 x 1.5 | 40.5 | 36 | 48 | 13 | 25 | 5 |
| SEM32M32 | 29 | 32 | M32 x 1.5 | 49.5 | 46 | 52 | 15 | 25.5 | 1 |
| SEM40M40 | 37 | 40 | M40 x 1.5 | 59 | 55 | 62 | 17 | 34 | 1 |
| SEM50M63 | 50 | 50 | M63 x 1.5 | 72 | 83 | 68 | 19 | 54 | 1 |

Kit contents: 1 x Adaptor Body, 1 x Flat Washer, 1 x Nut, 1 x 'O' Ring.



SEM-FAST Adaptor Kits – 90°

| Part No. | NW – A | NC – A | Thread Size | B (mm) | C (mm) | D (mm) | E (mm) | F (mm) | Pack Qty |
|---------------------|--------|--------|-------------|--------|--------|--------|--------|--------|----------|
| SEM12M1690/5 | 10 | 12 | M16 x 1.5 | 21.6 | 20 | 49.3 | 12 | 9.5 | 5 |
| SEM16M1690/5 | 13 | 16 | M16 x 1.5 | 25.5 | 20 | 51.8 | 12 | 9.5 | 5 |
| SEM16M2090/5 | 13 | 16 | M20 x 1.5 | 25.5 | 25 | 59.3 | 12 | 13.5 | 5 |
| SEM20M2090/5 | 17 | 20 | M20 x 1.5 | 34.5 | 25 | 58.3 | 12 | 13.5 | 5 |
| SEM20M2590/5 | 17 | 20 | M25 x 1.5 | 34.5 | 31 | 64.5 | 13 | 17 | 5 |
| SEM32M3290 | 29 | 32 | M32 x 1.5 | 49.5 | 38 | 74.6 | 13 | 23 | 1 |
| SEM40M4090 | 37 | 40 | M40 x 1.5 | 59 | 48 | 92.5 | 15 | 31 | 1 |
| SEM50M6390 | 50 | 50 | M63 x 1.5 | 72 | 83 | 125.1 | 19 | 54 | 1 |

Kit contents: 1 x Adaptor Body, 1 x Flat Washer, 1 x Nut, 1 x 'O' Ring.



Conduit & Conduit Fittings

Threadconnect Adaptors



SD40M40

- Compatible with Polyflex PA6 conduit.
- Halogen-free.
- Wide range of sizes.
- Environmentally sealed – IP67, when installed using supplied conical seal with PA6 conduit.
- Made in Europe.

SD12M1690/5



Made in Europe

Adaptor Body :
'O' Ring :
Flat Washer :

Polyamide 6 (PA6)
Neoprene
Perbunane

Using Threadconnect Adaptor Kits



For maximum effectiveness the conical seal must be placed at least two corrugations back from the end of the conduit, as shown above.



Tighten firmly by hand to ensure an IP67* rated connection.

* IP67 seal can only be achieved when used with PA6 conduit.



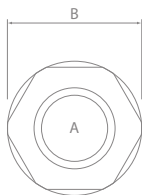
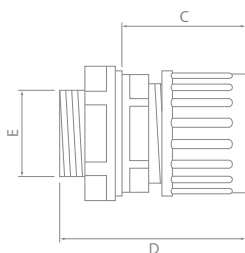
For maximum effectiveness the conical seal must be placed at least two corrugations back from the end of the conduit, as shown above.



When tightening 90° Kits, the locking washer will click into the groves in the cap nut ensuring a secure, slip-free IP67* rated connection.

* IP67 seal can only be achieved when used with PA6 conduit.

Conduit & Conduit Fittings



SD32M32

Threadconnect Adaptor Kits – Straight

| Part No. | NW – A | NC – A | Thread Size | B (mm) | C (mm) | D (mm) | E (mm) | Pack Qty |
|-------------------|--------|--------|-------------|--------|--------|--------|--------|----------|
| SD10M16/5 | 8.5 | 10 | M16 x 1.5 | 25 | 25 | 38 | 16 | 5 |
| SD12M16/5 | 10 | 12 | M16 x 1.5 | 25 | 29 | 40 | 16 | 5 |
| SD12M20/5 | 10 | 12 | M20 x 1.5 | 29 | 29 | 40 | 20 | 5 |
| SD12PG11/5 | 10 | 12 | PG11 | 26 | 29 | 40 | 19 | 5 |
| SD16M16/5 | 13 | 16 | M16 x 1.5 | 27 | 26 | 38 | 16 | 5 |
| SD16M20/5 | 13 | 16 | M20 x 1.5 | 27 | 26 | 38 | 20 | 5 |
| SD16PG13/5 | 13 | 16 | PG13 | 29 | 26 | 34 | 20 | 5 |
| SD20M20/5 | 17 | 20 | M20 x 1.5 | 32 | 28 | 42 | 20 | 5 |
| SD20PG16/5 | 17 | 20 | PG16 | 34 | 28 | 40 | 23 | 5 |
| SD25M25/5 | 22 | 25 | M25 x 1.5 | 46 | 35 | 49 | 25 | 5 |
| SD25M32/5 | 22 | 25 | M32 x 1.5 | 50 | 33 | 48 | 32 | 5 |
| SD32M32 | 29 | 32 | M32 x 1.5 | 52 | 35 | 49 | 32 | 1 |
| SD32PG29 | 29 | 32 | PG29 | 52 | 35 | 49 | 37 | 1 |
| SD40M40* | 37 | 40 | M40 x 1.5 | 63 | 37 | 49 | 40 | 1 |
| SD50M50* | 50 | 50 | M50 x 1.5 | 76 | 37 | 49 | 50 | 1 |

Kit contents: 1 x Adaptor Body, 1 x Flat Washer, 1 x Nut, 1 x Conical Seal & 1 x Cap Nut.

* Supplied with 'O' Ring & Acetal Clamping Ring instead of Flat Washer & Conical Seal. Seals to IP54.

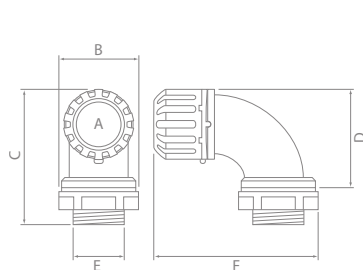


Fig 1

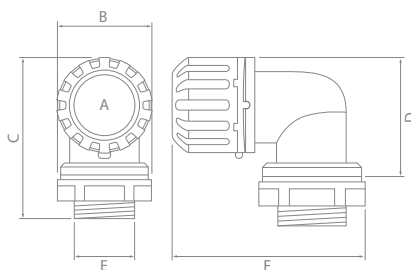


Fig 2



SD25M2590/5

Threadconnect Adaptor Kits – 90°

| Part No. | NW – A | NC – A | Thread Size | B (mm) | C (mm) | D (mm) | E (mm) | F (mm) | Pack Qty | Fig |
|--------------------|--------|--------|-------------|--------|--------|--------|--------|--------|----------|-----|
| SD10M1690/5 | 8.5 | 10 | M16 x 1.5 | 25 | 46 | 35 | 16 | 59 | 5 | 1 |
| SD12M1690/5 | 10 | 12 | M16 x 1.5 | 25 | 46 | 35 | 16 | 59 | 5 | 1 |
| SD16M1690/5 | 13 | 16 | M16 x 1.5 | 26 | 47 | 35 | 16 | 59 | 5 | 1 |
| SD16M2090/5 | 13 | 16 | M20 x 1.5 | 29 | 49 | 36 | 20 | 60 | 5 | 1 |
| SD20M2090/5 | 17 | 20 | M20 x 1.5 | 31 | 52 | 44 | 20 | 62 | 5 | 1 |
| SD25M2590/5 | 22 | 25 | M25 x 1.5 | 39 | 62 | 47 | 25 | 74 | 5 | 1 |
| SD32M3290 | 29 | 32 | M32 x 1.5 | 47 | 70 | 54 | 32 | 81 | 1 | 2 |

Kit contents: 1 x Adaptor Body, 1 x Flat Washer, 1 x Nut, 1 x Conical Seal & 1 x Cap Nut.



Conduit & Conduit Fittings

Threadconnect Fittings



CTPB28

- Compatible with Polyflex PA6 conduit.
- T Piece Locking version supplied with lock washer to prevent cap nut from coming loose.
- Environmentally sealed – IP67, when installed using supplied conical seal with PA6 conduit.
- Suitable for hazardous applications when used with PA6 conduit.
- Made in Europe.

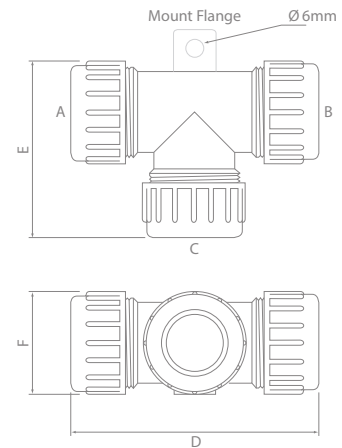


SE20

Made in Europe

Adaptor Body :
Conical Seal :
Cap Nut :
Operating Temperature :

Polycarbonate
Neoprene
Polyamide 6
-25°C to 80°C



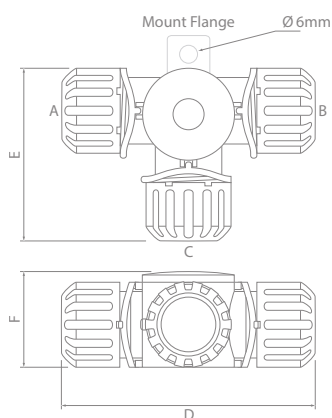
Threadconnect T Piece Kits

| Part No. | A | NW B | C | A | NC B | C | Mount Flange | D (mm) | E (mm) | F (mm) | Pack Qty |
|----------|-----|---------|-----|----|---------|----|--------------|--------|--------|--------|----------|
| SE10 | 8.5 | 8.5 | 8.5 | 10 | 10 | 10 | No | 74 | 50 | 24 | 1 |
| SE12 | 10 | 10 | 10 | 12 | 12 | 12 | No | 80 | 53 | 24 | 1 |
| SE20 | 17 | 17 | 17 | 20 | 20 | 20 | Yes | 76 | 54 | 32 | 1 |
| SE25* | 22 | 22 | 22 | 25 | 25 | 25 | Yes | 96 | 83 | 42 | 1 |
| SE2520 | 22 | 22 | 17 | 25 | 25 | 20 | Yes | 96 | 53 | 42 | 1 |

Kit contents: 1 x Adaptor Body, 3 x Conical Seal & 3 x Cap Nut.

* Supplied with adaptor to achieve outlet size.

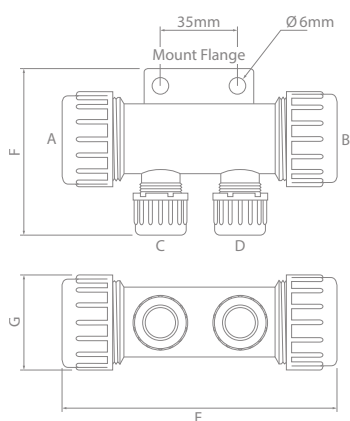
Conduit & Conduit Fittings



Threadconnect T Piece Kits – Locking

| Part No. | NW | | | NC | | | Mount Flange | D (mm) | E (mm) | F (mm) | Pack Qty |
|---------------|----|----|----|----|----|----|--------------|--------|--------|--------|----------|
| | A | B | C | A | B | C | | | | | |
| CTP12 | 10 | 10 | 10 | 12 | 12 | 12 | No | 73 | 52 | 28 | 1 |
| CTP16 | 13 | 13 | 13 | 16 | 16 | 16 | No | 75 | 53 | 31 | 1 |
| CTPB20 | 17 | 17 | 17 | 20 | 20 | 20 | No | 82 | 60 | 36 | 1 |
| CTPB28 | 22 | 22 | 22 | 25 | 25 | 25 | Yes | 98 | 71 | 43 | 1 |
| CTPB32 | 29 | 29 | 29 | 32 | 32 | 32 | Yes | 106 | 83 | 50 | 1 |

Kit contents: 1 x Adaptor Body, 3 x Locking Washer, 3 x Conical Seal, 3 x Cap Nut & 1 x Adaptor Body Access Cap.
Not compatible with Threadconnect Reducers.



Threadconnect Manifold Kit

| Part No. | NW | | | | NC | | | | Mount Flange | E (mm) | F (mm) | G (mm) | Pack Qty |
|----------------|----|----|----|----|----|----|----|----|--------------|--------|--------|--------|----------|
| | A | B | C | D | A | B | C | D | | | | | |
| SE25X12 | 22 | 22 | 10 | 10 | 25 | 25 | 12 | 12 | Yes | 121 | 73 | 42 | 1 |

Kit contents: 1 x Adaptor Body, 4 x Conical Seal & 4 x Cap Nut.



Conduit & Conduit Fittings

Threadconnect Reducers



SF1612/5



SF2516/5

Made in Europe

- Compatible with Polyflex PA6 conduit.
- Environmentally sealed – IP67, when installed using supplied conical seal with PA6 conduit.
- Suitable for hazardous applications when used with PA6 conduit.
- Made in Europe.

Reducer Seal :
Cap Nut :

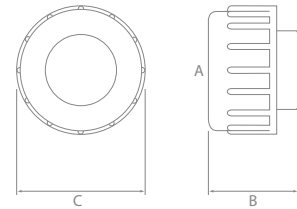
Neoprene
Polyamide 6



SF1208/5



SF2520/5



Threadconnect Reducer Kits

| Part No. | NW Size Reduction – A | NC Size Reduction – A | B (mm) | C (mm) | Pack Qty |
|----------|-----------------------|-----------------------|--------|--------|----------|
| SF1208/5 | 10 to 7.5 | 12 to 8 | 20 | 24 | 5 |
| SF1612/5 | 13 to 10 | 16 to 12 | 22 | 26 | 5 |
| SF2012/5 | 17 to 10 | 20 to 12 | 23 | 32 | 5 |
| SF2016/5 | 17 to 13 | 20 to 16 | 23 | 32 | 5 |
| SF2512/5 | 22 to 10 | 25 to 12 | 23 | 42 | 5 |
| SF2516/5 | 22 to 13 | 25 to 16 | 23 | 42 | 5 |
| SF2520/5 | 22 to 17 | 25 to 20 | 23 | 42 | 5 |

Kit contents: 1 x Reducer Seal & 1 x Cap Nut.

Not Compatible with Threadconnect T Piece – Locking.

Conduit & Conduit Fittings

- Compatible with PA6, PPmod or PP Split conduit.
- Snap-lock clips for quick & easy assembly.
- Seals to IP54 when used with PA6 conduit.
- Wide range of sizes.
- Selected models feature mounting slot compatible with Mounting Clips – page 29.
- Reducers available for more size options – page 29.
- Made in Europe.

9806097/10

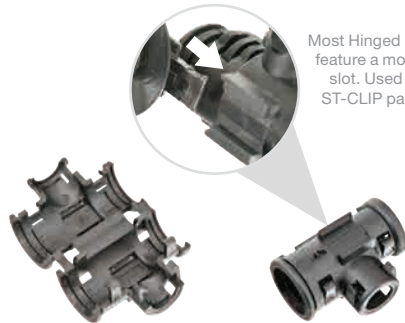
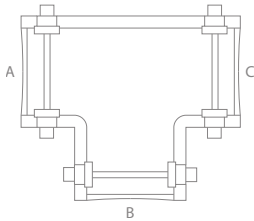


9817203/10

Material :
Operating Temperature :

Polyamide 66 (PA66)
-40°C to 135°C

Made in Europe



Most Hinged Fittings feature a mounting slot. Used with ST-CLIP page 29

9806090/10



T-Piece

| Part No. | NW – A – B – C | NC – A – B – C | Mounting Slot | Pack Qty |
|------------|-----------------|----------------|---------------|----------|
| 9806082/10 | 7.5 – 7.5 – 7.5 | 8 – 8 – 8 | Yes | 10 |
| 9806088/10 | 8.5 – 8.5 – 10 | 10 – 10 – 12 | Yes | 10 |
| 9806086/10 | 10 – 8.5 – 10 | 12 – 10 – 12 | Yes | 10 |
| 9806089/10 | 10 – 10 – 10 | 12 – 12 – 12 | Yes | 10 |
| 9806090/10 | 13 – 8.5 – 10 | 16 – 10 – 12 | Yes | 10 |
| 9806091/10 | 13 – 10 – 10 | 16 – 12 – 12 | Yes | 10 |
| 9806092/10 | 13 – 7.5 – 13 | 16 – 8 – 16 | Yes | 10 |
| 9806093/10 | 13 – 13 – 7.5 | 16 – 16 – 8 | Yes | 10 |
| 9806096/10 | 17 – 13 – 13 | 20 – 16 – 16 | Yes | 10 |
| 9806095/10 | 17 – 7.5 – 17 | 20 – 8 – 20 | Yes | 10 |
| 9806099/10 | 17 – 17 – 7.5 | 20 – 20 – 8 | Yes | 10 |
| 9806196/10 | 17 – 17 – 17 | 20 – 20 – 20 | Yes | 10 |



Conduit & Conduit Fittings



9806131/10

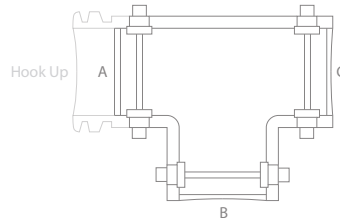


Fig 1

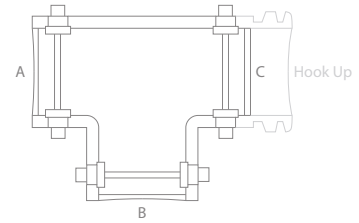


Fig 2

T-Piece – Hook Up

| Part No. | NW – A–B–C | NC – A–B–C | Hook Up | Mounting Slot | Pack Qty | Fig |
|-------------|-----------------|--------------|---------|---------------|----------|-----|
| 9806130/10 | 10 – 7.5 – 7.5 | 12 – 8 – 8 | A | No | 10 | 1 |
| 9806131/10 | 13 – 10 – 10 | 16 – 12 – 12 | A | Yes | 10 | 1 |
| 9806133/10 | 8.5 – 8.5 – 8.5 | 10 – 10 – 10 | C | Yes | 10 | 2 |
| 9806111/10 | 10 – 7.5 – 10 | 12 – 8 – 12 | C | Yes | 10 | 2 |
| 9806111/100 | 10 – 7.5 – 10 | 12 – 8 – 12 | C | Yes | 100 | 2 |
| 9806160/10 | 10 – 10 – 7.5 | 12 – 12 – 8 | C | Yes | 10 | 2 |
| 9806138/10 | 10 – 10 – 10 | 12 – 12 – 12 | C | Yes | 10 | 2 |
| 9806138/100 | 10 – 10 – 10 | 12 – 12 – 12 | C | Yes | 100 | 2 |
| 9806127/10 | 13 – 4.5 – 10 | 16 – 6 – 12 | C | Yes | 10 | 2 |
| 9806158/10 | 13 – 7.5 – 13 | 16 – 8 – 16 | C | Yes | 10 | 2 |
| 9806118/10 | 13 – 8.5 – 13 | 16 – 10 – 16 | C | Yes | 10 | 2 |
| 9806172/10 | 13 – 10 – 7.5 | 16 – 12 – 8 | C | Yes | 10 | 2 |
| 9806104/10 | 13 – 13 – 10 | 16 – 16 – 12 | C | Yes | 10 | 2 |
| 9806159/10 | 13 – 13 – 7.5 | 16 – 16 – 8 | C | Yes | 10 | 2 |
| 9806101/10 | 13 – 10 – 13 | 16 – 12 – 16 | C | Yes | 10 | 2 |
| 9806115/10 | 13 – 13 – 13 | 16 – 16 – 16 | C | Yes | 10 | 2 |
| 9806115/100 | 13 – 13 – 13 | 16 – 16 – 16 | C | Yes | 100 | 2 |

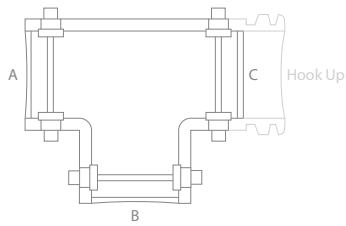
Create Manifold Using Hook Up Outlet

Most Hinged Fittings feature a single outlet with a protruding ridged ring used to “hook up” with other Hinged Fittings creating manifolds.

This ridged ring simulates a piece of corrugated conduit allowing other Hinged Fittings, the next size up, to securely clamp down around it.



Conduit & Conduit Fittings



9806121/10

T-Piece – Hook Up cont.

| Part No. | NW – A–B–C | NC – A–B–C | Hook Up | Mounting Slot | Pack Qty |
|-------------|---------------|--------------|---------|---------------|----------|
| 9806137/10 | 17 – 7.5 – 17 | 20 – 8 – 20 | C | Yes | 10 |
| 9806120/10 | 17 – 8.5 – 17 | 20 – 10 – 20 | C | Yes | 10 |
| 9806136/10 | 17 – 10 – 17 | 20 – 12 – 20 | C | Yes | 10 |
| 9806107/10 | 17 – 10 – 13 | 20 – 12 – 16 | C | Yes | 10 |
| 9806100/10 | 17 – 7.5 – 13 | 20 – 8 – 16 | C | Yes | 10 |
| 9806166/10 | 17 – 13 – 13 | 20 – 16 – 16 | C | Yes | 10 |
| 9806167/10 | 17 – 17 – 7.5 | 20 – 20 – 8 | C | Yes | 10 |
| 9806141/10 | 17 – 13 – 17 | 20 – 16 – 20 | C | Yes | 10 |
| 9806135/10 | 17 – 22 – 17 | 20 – 25 – 20 | C | Yes | 10 |
| 9806103/10 | 22 – 17 – 13 | 25 – 20 – 16 | C | Yes | 10 |
| 9806126/10 | 22 – 22 – 17 | 25 – 25 – 20 | C | No | 10 |
| 9806114/10 | 22 – 13 – 17 | 25 – 16 – 20 | C | No | 10 |
| 9806113/10 | 22 – 7.5 – 22 | 25 – 8 – 25 | C | No | 10 |
| 9806149/10 | 22 – 8.5 – 22 | 25 – 10 – 25 | C | No | 10 |
| 9806143/10 | 22 – 10 – 10 | 25 – 12 – 12 | C | No | 10 |
| 9806121/10 | 22 – 10 – 22 | 25 – 12 – 25 | C | No | 10 |
| 9806108/10 | 22 – 13 – 22 | 25 – 16 – 25 | C | No | 10 |
| 9806108/100 | 22 – 13 – 22 | 25 – 16 – 25 | C | No | 100 |
| 9806102/10 | 22 – 22 – 22 | 25 – 25 – 25 | C | No | 10 |
| 9806124/10 | 26 – 17 – 13 | 30 – 20 – 16 | C | No | 10 |
| 9806112/10 | 26 – 22 – 22 | 30 – 25 – 25 | C | No | 10 |
| 9806110/10 | 26 – 26 – 22 | 30 – 30 – 25 | C | No | 10 |
| 9806129/10 | 26 – 10 – 26 | 30 – 12 – 30 | C | No | 10 |
| 9806146/10 | 26 – 17 – 26 | 30 – 20 – 30 | C | No | 10 |



Conduit & Conduit Fittings

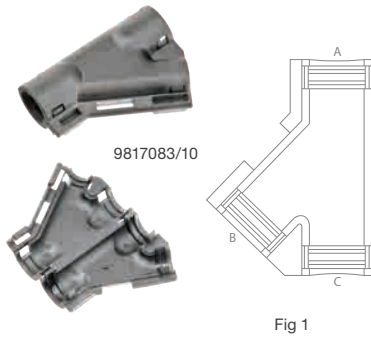


Fig 1

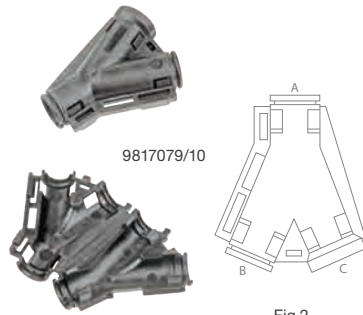


Fig 2

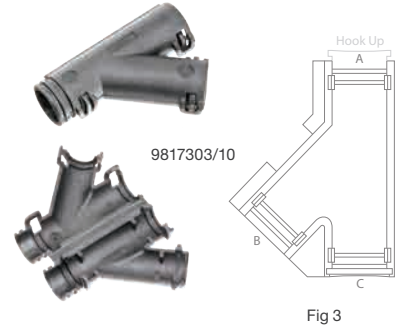


Fig 3



9817311/10

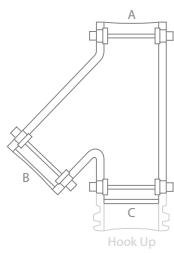


Fig 4



9817201/10

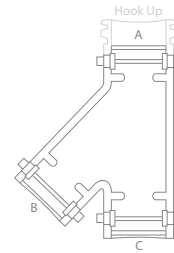


Fig 5

Y-Piece

| Part No. | NW - A-B-C | NC - A-B-C | Hook Up | Mounting Slot | Pack Qty | Fig |
|-------------|-----------------|--------------|---------|---------------|----------|-----|
| 9817083/10 | 7.5 - 4.5 - 7.5 | 8 - 6 - 8 | — | Yes | 10 | 1 |
| 9817079/10 | 7.5 - 7.5 - 7.5 | 8 - 8 - 8 | — | Yes | 10 | 2 |
| 9817079/100 | 7.5 - 7.5 - 7.5 | 8 - 8 - 8 | — | Yes | 100 | 2 |
| 9817303/10 | 10 - 10 - 10 | 12 - 12 - 12 | A | Yes | 10 | 3 |
| 9817303/100 | 10 - 10 - 10 | 12 - 12 - 12 | A | Yes | 100 | 3 |
| 9817304/10 | 13 - 7.5 - 10 | 16 - 8 - 12 | C | Yes | 10 | 4 |
| 9817306/10 | 13 - 10 - 10 | 16 - 12 - 12 | C | Yes | 10 | 4 |
| 9817305/10 | 13 - 10 - 13 | 16 - 12 - 16 | C | Yes | 10 | 4 |
| 9817305/100 | 13 - 10 - 13 | 16 - 12 - 16 | C | Yes | 100 | 4 |
| 9817308/10 | 13 - 13 - 13 | 16 - 16 - 16 | C | Yes | 10 | 4 |
| SM200812/10 | 17 - 7.5* - 10 | 20 - 8* - 12 | C | Yes | 10 | 4 |
| 9817310/10 | 17 - 13 - 10 | 20 - 16 - 12 | C | Yes | 10 | 4 |
| 9817310/100 | 17 - 13 - 10 | 20 - 16 - 12 | C | Yes | 100 | 4 |
| 9817309/10 | 17 - 17 - 10 | 20 - 20 - 12 | C | Yes | 10 | 4 |
| 9817201/10 | 17 - 13 - 17 | 20 - 16 - 20 | A | No | 10 | 5 |
| 9817201/100 | 17 - 13 - 17 | 20 - 16 - 20 | A | No | 100 | 5 |
| 9817200/10 | 22 - 10 - 17 | 25 - 12 - 20 | A | No | 10 | 5 |
| 9817203/10 | 22 - 13 - 17 | 25 - 16 - 20 | A | No | 10 | 5 |
| 9817202/10 | 22 - 17 - 17 | 25 - 20 - 20 | A | No | 10 | 5 |
| 9817034/10 | 22 - 10 - 22 | 25 - 12 - 25 | C | No | 10 | 4 |
| 9817311/10 | 22 - 13 - 22 | 25 - 16 - 25 | C | No | 10 | 4 |
| 9817302/10 | 22 - 22 - 22 | 25 - 25 - 25 | C | No | 10 | 4 |

* Reducer supplied to achieve outlet size.

Conduit & Conduit Fittings

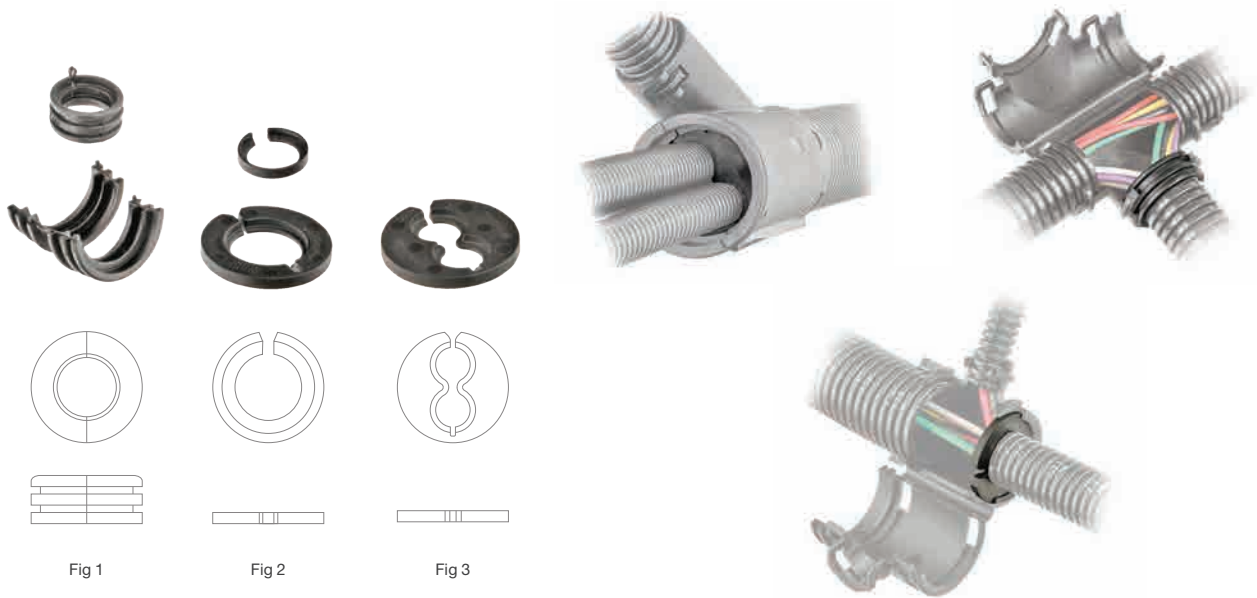


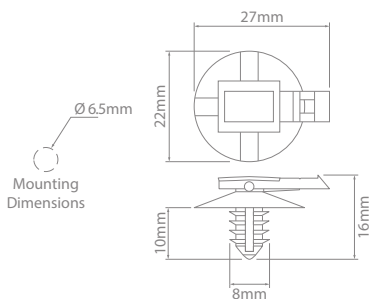
Fig 1

Fig 2

Fig 3

Hinged Fitting Reducers

| Part No. | NW Size Reduction | NC Size Reduction | Pack Qty | Fig |
|------------|-------------------|-------------------|----------|-----|
| 7807270/10 | 8.5 to 4.5 | 10 to 6 | 10 | 1 |
| 7807272/10 | 10 to 4.5 | 12 to 6 | 10 | 1 |
| 7807276/10 | 10 to 7.5 | 12 to 8 | 10 | 1 |
| 7807288/10 | 10 to 8.5 | 12 to 10 | 10 | 2 |
| 7807278/10 | 13 to 7.5 | 16 to 8 | 10 | 1 |
| 7807280/10 | 13 to 10 | 16 to 12 | 10 | 1 |
| 7807296/10 | 17 to 13 | 20 to 16 | 10 | 2 |
| 7807290/10 | 22 to 7.5 & 7.5 | 25 to 8 & 8 | 10 | 3 |
| 7807294/10 | 22 to 13 | 25 to 16 | 10 | 2 |
| 7807282/10 | 22 to 17 | 25 to 20 | 10 | 1 |



Hinged Fitting Mounting Clips

| Part No. | Description | Pack Qty |
|------------|-----------------------|----------|
| ST-CLIP/10 | 'Christmas Tree' clip | 10 |



Fitting Accessories



Fitting Accessories



Grommets, Bushings & Glands **32**



Cable Ties **34**



Clips & Clamps **37**



Electrical Tape **42**



Mémocab Marking System **43**



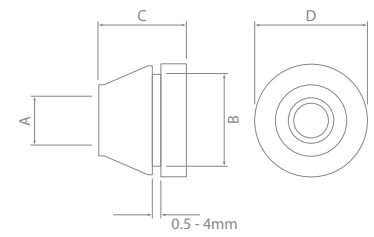
Terminal Insulators/Boots **44**

Fitting Accessories

Grommets, Bushings & Glands



- Quick and simple cable retention without the use of tools.
- Acts as a strain relief.
- Cable Gland Kits seal to IP68 when installed to manufacturer's specifications.



Cable Grommets

| Pack Qty – 5 | Pack Qty – 10 | Pack Qty – 25 | Pack Qty – 50 | Cable Ø A (mm) | Cutout Ø B (mm) | C (mm) | D (mm) |
|-----------------|------------------|------------------|------------------|----------------|-----------------|--------|--------|
| – | RG1-12/10 | – | RG1-12/50 | 4 – 7 | 12.5 | 12.6 | 20 |
| – | RG1-16/10 | – | RG1-16/50 | 5 – 8 | 16 | 17.8 | 21 |
| – | RG1-19/10 | – | RG1-19/50 | 7 – 10 | 19 | 19.8 | 24 |
| – | RG1-23/10 | – | RG1-23/50 | 10 – 14 | 23 | 21.6 | 28 |
| RG1-29/5 | – | RG1-29/25 | – | 14 – 20 | 29 | 24.6 | 35 |
| RG1-38/5 | – | RG1-38/25 | – | 20 – 26 | 38 | 28.5 | 46 |
| – | RG1-48/10 | – | – | 26 – 35 | 48 | 34.9 | 58 |

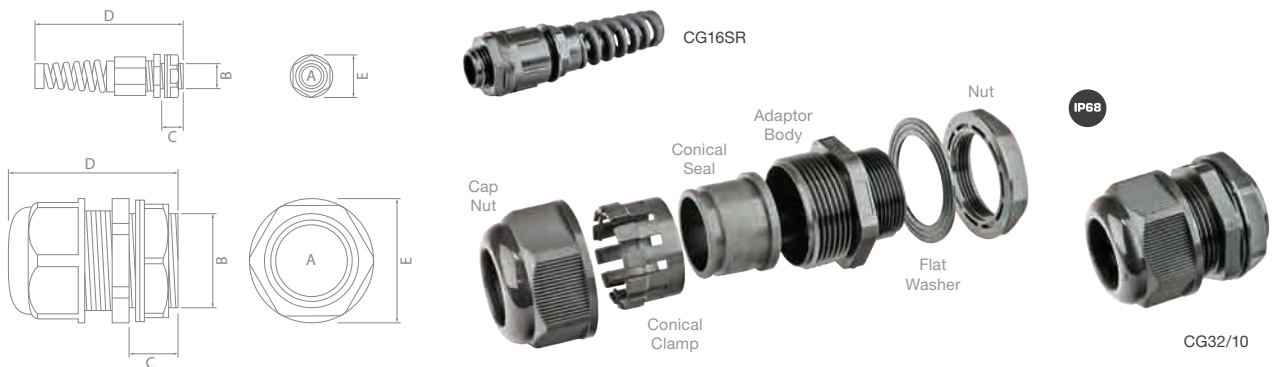
Fitting Accessories



SB08/100

Snap Bushings

| Pack Qty – 100 | Cable Ø A (mm) | Mounting Hole Ø B (mm) | C (mm) | D (mm) |
|-----------------|-------------------|---------------------------|--------|--------|
| SB08/100 | 5.8 | 7.9 | 10.5 | 8.0 |
| SB10/100 | 6.4 | 9.5 | 12.0 | 10.3 |
| SB13/100 | 8.0 | 12.7 | 15.0 | 10.3 |
| SB14/100 | 11.4 | 14.3 | 17.0 | 10.3 |
| SB16/100 | 12.7 | 15.9 | 18.6 | 10.3 |
| SB22/100 | 17.5 | 22.2 | 24.2 | 11.5 |



Cable Gland Kits

| Pack Qty – 1 | Pack Qty – 10 | Clamping Range A (mm) | Thread Size (B & C) | D (mm) | E (mm) | Notes |
|---------------|----------------|-----------------------|---------------------|--------|--------|--------------------------------|
| CG16SR | — | 4 – 8 | M16 x 15mm | 90 | 25 | Features strain relief adaptor |
| CG12 | CG12/10 | 2.5 – 6.5 | M12 x 8mm | 30 | 19 | |
| CG16 | CG16/10 | 3.5 – 10 | M16 x 15mm | 45 | 25 | |
| CG20 | CG20/10 | 7 – 14 | M20 x 15mm | 48 | 29 | |
| CG25 | CG25/10 | 9 – 18 | M25 x 15mm | 51 | 36 | |
| CG32 | CG32/10 | 14 – 25 | M32 x 15mm | 55 | 46 | |
| CG40 | — | 18 – 32 | M40 x 16mm | 65 | 59 | |
| CG50 | — | 24 – 38 | M50 x 16mm | 72 | 67 | |
| CG63 | — | 35 – 48 | M60 x 16mm | 67 | 80 | |

Cable Gland Kits seal to IP68 when installed to manufacturer's specifications.

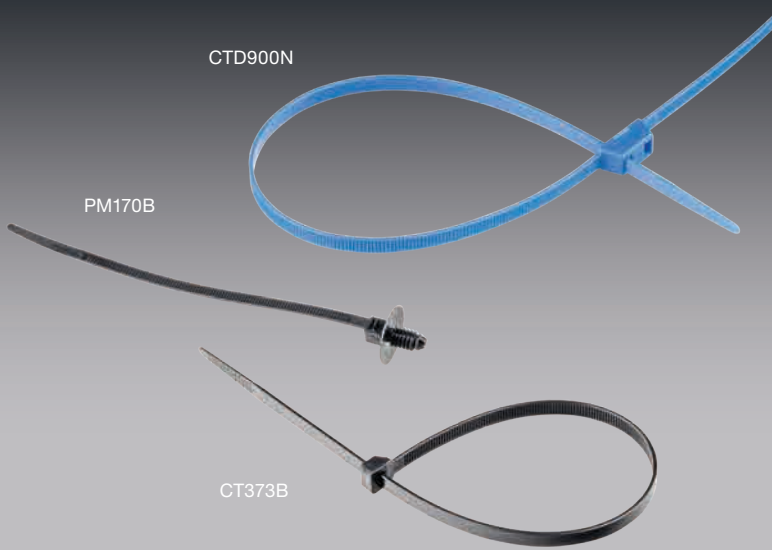
Kit contents:

| | |
|-------------------|-----------------|
| 1 x Adaptor Body | 1 x Cap Nut |
| 1 x Conical Seal | 1 x Flat Washer |
| 1 x Conical Clamp | 1 x Nut |



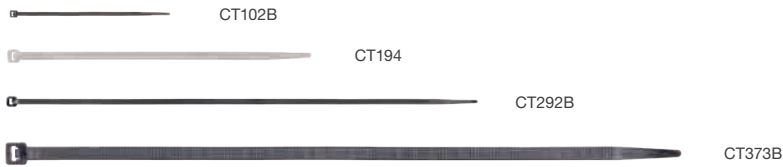
Fitting Accessories

Cable Ties



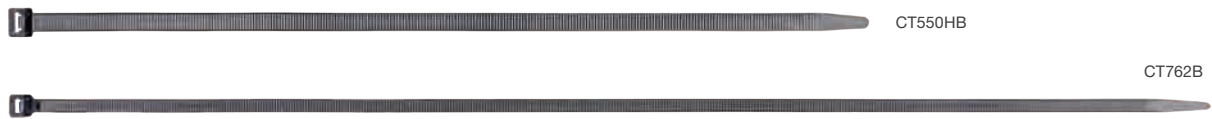
- Wide range of sizes available.
- UV resistant black nylon for extended cable tie life in outdoor environments.
- Mounting accessories available.
- Dual clamp 'handcuff' models available.
- Releasable model available.

Material : Natural Nylon
 Black, Blue UV resistant Nylon
 Operating Temperature: -40°C to 85°C



Cable Ties – Standard-Duty

| Black | Colour | Dimensions (mm) | Pack Qty |
|---------------|--------------|-----------------|----------|
| | Natural | | |
| CT102B | CT102 | 100 x 2.5 | 100 |
| CT143B | CT143 | 142 x 3.2 | 100 |
| CT194B | CT194 | 190 x 4.8 | 100 |
| CT200B | — | 203 x 7.6 | 100 |
| CT280B | CT280 | 280 x 4.8 | 100 |
| CT300B | — | 300 x 7.6 | 100 |
| CT292B | — | 295 x 3.6 | 100 |
| CT370B | — | 368 x 4.8 | 100 |
| CT373B | — | 370 x 7.6 | 100 |
| CT432B | — | 432 x 4.8 | 100 |



Cable Ties – Heavy-Duty

| Colour – Black | Dimensions (mm) | Pack Qty |
|----------------|-----------------|----------|
| CT550HB | 550 x 12.7 | 100 |
| CT533B | 550 x 8.0 | 100 |
| CT762B | 762 x 9.0 | 100 |

Fitting Accessories

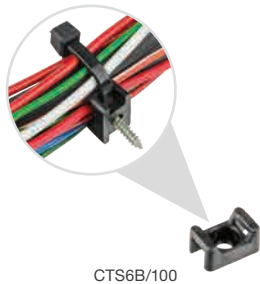


Cable Ties – Specialty

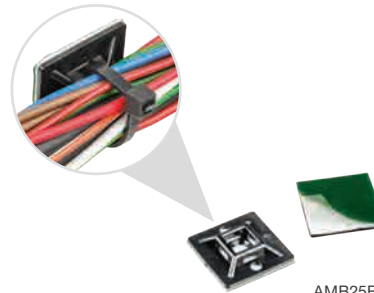
| Part No. | Description | Dimensions (mm) | Colour | Pack Qty |
|--|---|-----------------|---------|----------|
| SM143B | Screw mount – Ø 4mm hole | 155 x 3.7 | Black | 100 |
| SM194B | Screw mount – Ø 5.5mm hole | 200 x 4.2 | Black | 100 |
| PM170B | Push mount – Ø 7mm hole. Releasable zip | 170 x 4.8 | Black | 100 |
| PM194B | Push mount – Ø 6.2mm hole | 200 x 4.8 | Black | 100 |
| CTE3-194B | Edge mount – suits 1–3mm edge thickness | 200 x 4.8 | Black | 25 |
| CTE6-194B | Edge mount – suits 3–6mm edge thickness | 200 x 4.8 | Black | 25 |
| IT102 | Identification Tie | 100 x 2.5 | Natural | 100 |
| CTD490B | Dual clamp 'handcuff'. Screw mount – Ø 5.5mm hole | 490 x 12.7 | Black | 10 |
| CTD500B NEW | Dual clamp 'handcuff' | 500 x 12.7 | Black | 20 |
| CTD900N | Dual clamp 'handcuff' | 900 x 8.0 | Blue | 10 |



Fitting Accessories



CTS6B/100



AMB25B/100



HT-34

Cable Ties – Accessories

| Part No. | Description | Dimensions (mm) | Colour | Max. Cable Tie Width (mm) | Mounting Hole Ø (mm) | Pack Qty |
|-------------------|--|-----------------|--------|---------------------------|----------------------|----------|
| CTS6B/100 | Cable Tie Mount | 15 x 10 | Black | 5.1 | 3.5 | 100 |
| CTS8B/100 | Cable Tie Mount | 23 x 16 | Black | 9 | 6.5 | 100 |
| AMB19B/100 | Cable Tie Mount – Adhesive | 21.8 x 21.8 | Black | 4.8 | — | 100 |
| AMB25B/100 | Cable Tie Mount – Adhesive | 26.3 x 26.3 | Black | 5.6 | 5 | 100 |
| HT-34 | Cable Tie Gun Heavy-Duty – Metal. Cuts 2.5mm – 4.8mm width | | | | | 1 |

Fitting Accessories

Clips & Clamps

- Easy & secure one screw mounting option for one or multiple cables, conduit, hoses etc.
- High corrosion resistance.
- Clips available in stainless steel, electronically galvanised steel and light & heavy-duty plastic.
- Heavy-Duty Hose Support Clamps feature 10mm mounting hole.
- Wide range of sizes available.



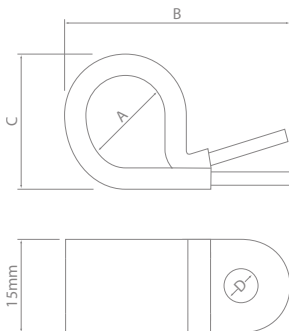
PSPHD09/10



PS05/10



8211035/10



PSP0.5/10



PSP05/10

Hose Support Clamps – Plastic Coated

| Part No. | A (mm) | B (mm) | C (mm) | D (mm) | Pack Qty |
|------------|--------|--------|--------|--------|----------|
| PSP0.25/10 | 6 | 25 | 9 | 6.5 | 10 |
| PSP0.5/10 | 8 | 28 | 12 | 6.5 | 10 |
| PSP01/10 | 10 | 30 | 15 | 6.5 | 10 |
| PSP02/10 | 13 | 34 | 17 | 6.5 | 10 |
| PSP03/10 | 16 | 38 | 21 | 6.5 | 10 |
| PSP04/10 | 19 | 42 | 23 | 6.5 | 10 |
| PSP05/10 | 22 | 44 | 26 | 6.5 | 10 |
| PSP06/10 | 27 | 52 | 30 | 6.5 | 10 |
| PSP07/10 | 32 | 55 | 36 | 6.5 | 10 |
| PSP08/10 | 35 | 60 | 38 | 6.5 | 10 |
| PSP09/10 | 40 | 67 | 43 | 6.5 | 10 |
| PSP10/10 | 45 | 76 | 47 | 6.5 | 10 |
| PSP11/10 | 50 | 80 | 52 | 6.5 | 10 |
| PSP12/10 | 55 | 87 | 57 | 6.5 | 10 |



Fitting Accessories

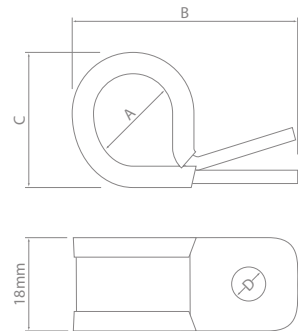
SAE 304 Stainless Steel



PSS04/10

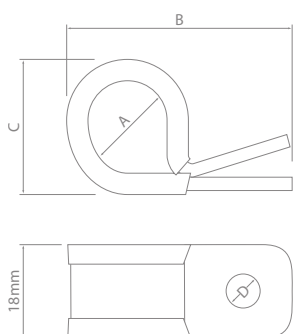


PSS12/10



Hose Support Clamps – Rubber Lined – Stainless Steel

| Part No. | A (mm) | B (mm) | C (mm) | D (mm) | Pack Qty |
|------------|--------|--------|--------|--------|----------|
| PSS0.25/10 | 6 | 29 | 14 | 6.5 | 10 |
| PSS0.5/10 | 8 | 33 | 17 | 6.5 | 10 |
| PSS01/10 | 10 | 38 | 19 | 6.5 | 10 |
| PSS02/10 | 13 | 40 | 20 | 6.5 | 10 |
| PSS03/10 | 16 | 44 | 22 | 6.5 | 10 |
| PSS04/10 | 19 | 47 | 25 | 6.5 | 10 |
| PSS05/10 | 22 | 48 | 28 | 6.5 | 10 |
| PSS06/10 | 27 | 56 | 32 | 6.5 | 10 |
| PSS07/10 | 32 | 64 | 36 | 6.5 | 10 |
| PSS08/10 | 35 | 64 | 40 | 6.5 | 10 |
| PSS09/10 | 40 | 70 | 45 | 6.5 | 10 |
| PSS10/10 | 45 | 86 | 46 | 7 | 10 |
| PSS11/10 | 50 | 86 | 52 | 7 | 10 |
| PSS12/10 | 55 | 94 | 55 | 7 | 10 |
| PSS13/10 | 60 | 96 | 62 | 7 | 10 |



PS08/10



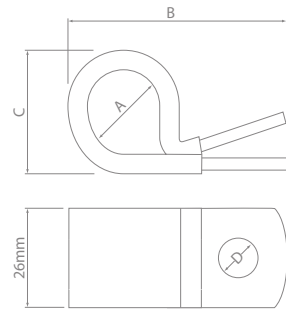
PS01/10

Hose Support Clamps – Rubber Lined

| Part No. | A (mm) | B (mm) | C (mm) | D (mm) | Pack Qty |
|-----------|--------|--------|--------|--------|----------|
| PS0.25/10 | 6 | 29 | 14 | 6.5 | 10 |
| PS0.5/10 | 8 | 33 | 17 | 6.5 | 10 |
| PS01/10 | 10 | 38 | 19 | 6.5 | 10 |
| PS02/10 | 13 | 40 | 20 | 6.5 | 10 |
| PS03/10 | 16 | 44 | 22 | 6.5 | 10 |
| PS04/10 | 19 | 47 | 25 | 6.5 | 10 |
| PS05/10 | 22 | 48 | 28 | 6.5 | 10 |
| PS06/10 | 27 | 56 | 32 | 6.5 | 10 |
| PS07/10 | 32 | 64 | 36 | 6.5 | 10 |
| PS08/10 | 35 | 64 | 40 | 6.5 | 10 |
| PS09/10 | 40 | 70 | 45 | 6.5 | 10 |
| PS10/10 | 45 | 86 | 46 | 7 | 10 |
| PS11/10 | 50 | 86 | 52 | 7 | 10 |
| PS12/10 | 55 | 94 | 55 | 7 | 10 |
| PS13/10 | 60 | 96 | 62 | 7 | 10 |
| PS14/10 | 66 | 99 | 71 | 7 | 10 |
| PS15/10 | 76 | 103 | 78 | 7 | 10 |

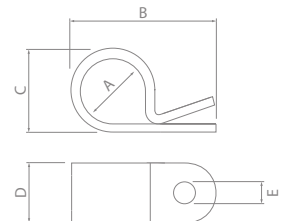


Fitting Accessories



Hose Support Clamps – Heavy-Duty – Plastic Coated

| Part No. | A (mm) | B (mm) | C (mm) | D (mm) | Pack Qty |
|-------------|--------|--------|--------|--------|----------|
| PSPHD0.5/10 | 10 | 48 | 16 | 10 | 10 |
| PSPHD00/10 | 12 | 50 | 18 | 10 | 10 |
| PSPHD01/10 | 14 | 52 | 20 | 10 | 10 |
| PSPHD02/10 | 16 | 54 | 22 | 10 | 10 |
| PSPHD03/10 | 18 | 56 | 24 | 10 | 10 |
| PSPHD04/10 | 20 | 64 | 26 | 10 | 10 |
| PSPHD05/10 | 22 | 66 | 28 | 10 | 10 |
| PSPHD06/10 | 24 | 68 | 30 | 10 | 10 |
| PSPHD07/10 | 26 | 71 | 32 | 10 | 10 |
| PSPHD08/10 | 28 | 73 | 34 | 10 | 10 |
| PSPHD09/10 | 30 | 76 | 36 | 10 | 10 |
| PSPHD10/10 | 32 | 78 | 38 | 10 | 10 |
| PSPHD11/10 | 34 | 78 | 38 | 10 | 10 |
| PSPHD12/10 | 36 | 82 | 42 | 10 | 10 |
| PSPHD13/10 | 38 | 85 | 44 | 10 | 10 |
| PSPHD14/10 | 40 | 87 | 45 | 10 | 10 |
| PSPHD15/10 | 42 | 89 | 47 | 10 | 10 |
| PSPHD16/10 | 44 | 92 | 51 | 10 | 10 |
| PSPHD17/10 | 46 | 94 | 53 | 10 | 10 |
| PSPHD18/10 | 48 | 96 | 54 | 10 | 10 |



'P' Clamps – Light-Duty

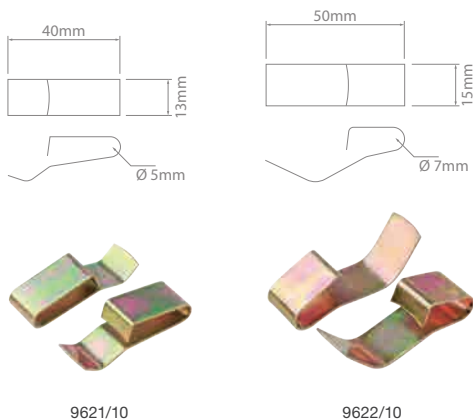
| Part No. | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | Pack Qty |
|-------------|--------|--------|--------|--------|--------|----------|
| PSN0.5/100 | 5 | 19 | 7 | 10 | 5.3 | 100 |
| PSN01/100 | 6.4 | 21 | 8 | 10 | 5.3 | 100 |
| PSN01.5/100 | 7.2 | 23 | 10 | 10 | 5.3 | 100 |
| PSN02/100 | 9.5 | 27 | 13 | 13 | 5.3 | 100 |
| PSN03/100 | 12.7 | 30 | 14 | 13 | 5.3 | 100 |
| PSN04/100 | 15.8 | 35 | 18 | 13 | 5.3 | 100 |

Fitting Accessories



'P' Clamps – Heavy-Duty – Polyacetal Resin

| Part No. | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | Pack Qty |
|------------|-------------|--------|--------|--------|--------|----------|
| 8211060/10 | 5.7 – 6.3 | 28 | 10 | 16 | 6.6 | 10 |
| 8211094/10 | 8.6 – 9.3 | 30 | 14 | 16 | 6.6 | 10 |
| 8211108/10 | 9.5 – 10.3 | 32 | 15 | 16 | 6.6 | 10 |
| 8211124/10 | 11.5 – 12.3 | 34 | 17 | 16 | 6.6 | 10 |
| 8211000/10 | 12.3 – 13.3 | 36 | 18 | 16 | 6.6 | 10 |
| 8211035/10 | 15.5 – 16.3 | 38 | 21 | 16 | 6.6 | 10 |
| 8211019/10 | 21.4 – 22.3 | 47 | 27 | 19 | 6.6 | 10 |
| 8211027/10 | 24.4 – 25.3 | 58 | 32 | 23 | 8.6 | 10 |



Clips & Clamps

| Part No. | Description | Pack Qty |
|----------|--|----------|
| 9621/10 | Chassis Clips – Medium | 10 |
| 9622/10 | Chassis Clips – Large | 10 |
| BHS80 | Battery Clamp – 7" bolts. Up to 175mm wide | 1 |
| BHS81 | Battery Clamp – 5.5" bolts. Up to 135mm wide | 1 |

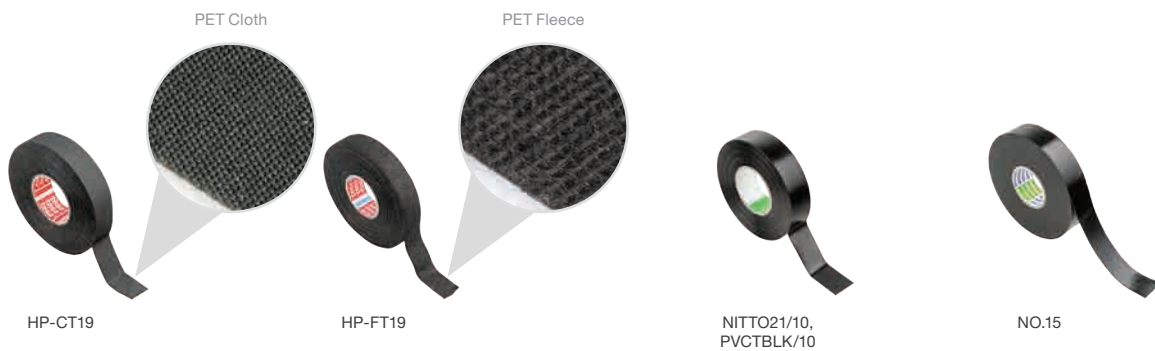


Fitting Accessories

Electrical Tape



- Chemical, weather and heat resistant.
- Excellent electrical insulation.
- PET cloth for high abrasion and temperature resistance – 150°C.
- PET fleece tape for flexibility and noise damping. Typical use in-cab.
- NO.15 self-fuses creating a seamless waterproof insulating layer.



Electrical Tape

| Part No. | Material | Length (m) | Width (mm) | Thickness (mm) | Colour | Elongation | Pack Qty |
|------------|--------------------------|------------|------------|----------------|--------|------------|----------|
| HP-CT19 | PET Cloth | 25 | 19 | 0.26 | Black | +40% | 1 |
| HP-FT19 | PET Fleece | 25 | 19 | 0.28 | Black | +20% | 1 |
| NITTO21/10 | PVC | 20 | 19 | 0.2 | Black | +240% | 10 |
| PVCTBLK/10 | PVC | 20 | 19 | 0.19 | Black | +276% | 10 |
| NO.15 | Self-fusing Butyl Rubber | 10 | 19 | 0.5 | Black | +530% | 1 |

- Efficient, professional cable marking system.
- Supplied with everything needed to tag wiring.
- Handy dispenser case allows quick and easy selection of markers using supplied tools.
- Component reference chart included.
- Individual marker characters available separately.



37994

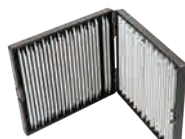
Cable Range :

0.25mm² – 16mm²

Coloured markers also available, for details contact your nearest reseller 1800 724 690



37994, 37999



Dispenser Board filled with markers



Markers



Marker Holders



37989



37990



37992

Selecting Prongs



37993

Extractor Tool

Mémocab Marking System Kits

| Part No. | Description |
|--------------|--------------------|
| 37994 | Starter Kit |

Kit contents:

- 1 x Dispenser Board (37991)
- 3 x Selecting Prongs (37989, 37990, 37992)
- 1 x Extractor Tool (37993)
- 50 x 0.25–1.5mm² Marker Holders (37930)
- 50 x 0.75–4mm² Marker Holders (37931)
- 50 x 4–16mm² Marker Holders (37932)
- 4 x "0–9" Markers
- 1 x "A–Z" Markers
- 1 x "/", "+", "-" Markers

| Part No. | Description |
|--------------|--------------------|
| 37999 | Marking Kit |

Kit contents:

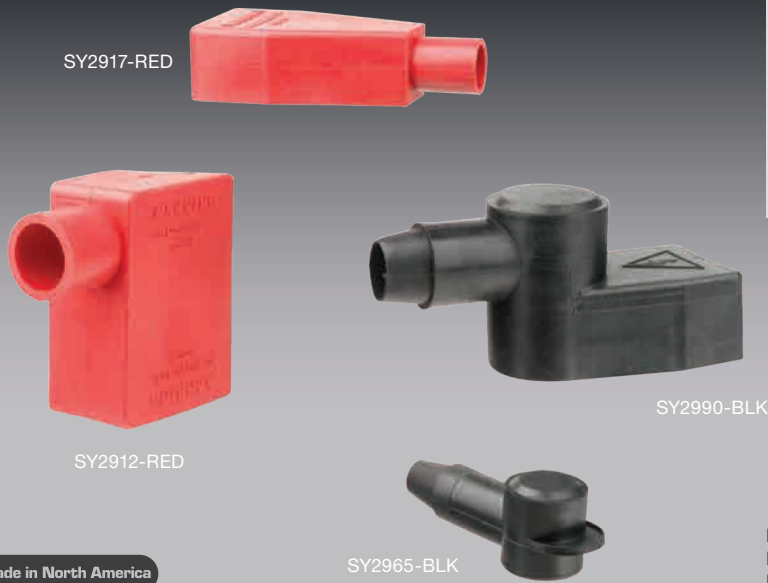
- 1 x Dispenser Board (37991)
- 2 x Selecting Prongs (37990, 37992)
- 1 x Extractor Tool (37993)
- 50 x 0.25–1.5mm² Marker Holders (37936)
- 50 x 0.75–4mm² Marker Holders (37937)
- 50 x 4–16mm² Marker Holders (37938)

Individual marker characters available separately. See component reference chart inside case for listing.



Fitting Accessories

Terminal Insulators

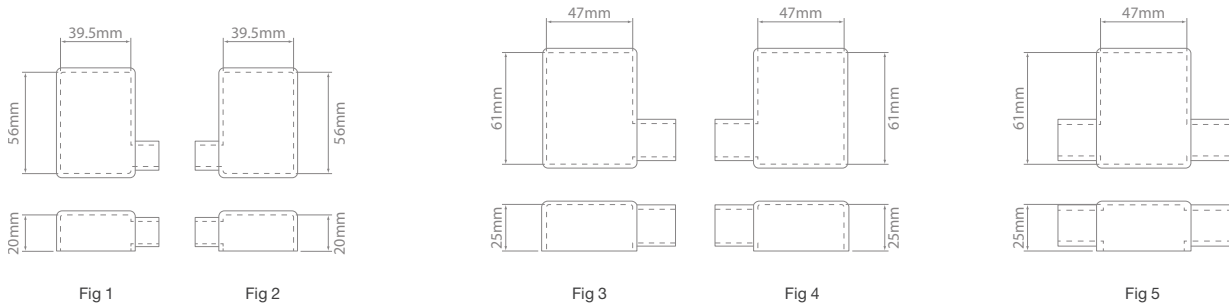


- Protect terminals from electrical shorts and shocks.
- Colour coded for easy pole identification.
- Wide range of sizes & styles available.
- 200 Series feature finger tab for easy remove.
- Bulk packs available.
- Made in North America.

Made in North America

Material :
 Burning Behaviour :
 Max. Operating Temperature :

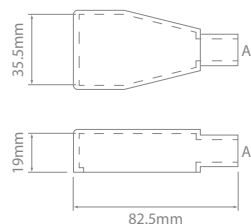
Flexible PVC
 UL94V2
 105°C



Battery Terminal Insulators

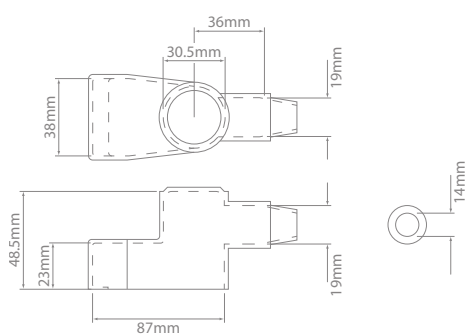
| Red | Black | Pack Qty | Post Height (mm) | Cable Ø (mm) | Cable Entry | Material Thickness (mm) | Fig |
|--------------------|--------------------|----------|------------------|--------------|-------------|-------------------------|-----|
| SY2906-RED | SY2906-BLK | 1 | 20 | 12.5 | Right Hand | 1.5 | 1 |
| SY2910-RED | SY2910-BLK | 1 | 20 | 12.5 | Left Hand | 1.5 | 2 |
| SY2912-RED | SY2912-BLK | 1 | 25 | 17.5 | Right Hand | 2.3 | 3 |
| SY2914-RED | SY2914-BLK | 1 | 25 | 17.5 | Left Hand | 2.3 | 4 |
| SY2914R/100 | SY2914B/100 | 100 | | | | | |
| SY2915-RED | SY2915-BLK | 1 | 25 | 17.5 | Double | 2.3 | 5 |

Fitting Accessories



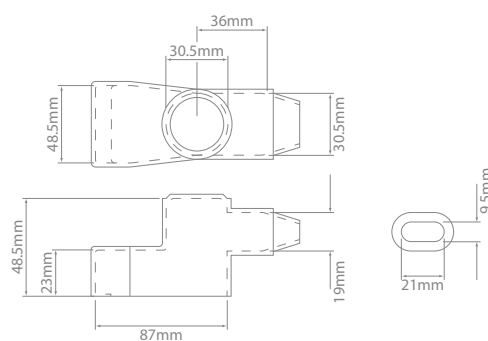
Battery Terminal Insulators – Straight Leads

| Red | Black | Pack Qty | Post Height (mm) | Cable Ø A (mm) | Material Thickness (mm) |
|--------------------|--------------------|----------|------------------|----------------|-------------------------|
| SY2917-RED | SY2917-BLK | 1 | 19 | 12.5 | 2.3 |
| SY2917R/100 | SY2917B/100 | 100 | | | |
| SY2919-RED | SY2919-BLK | 1 | 19 | 16 | 2.3 |
| SY2919R/100 | SY2919B/100 | 100 | | | |



SY2990

Fig 1



SY2995

Fig 2

Battery Terminal Insulators

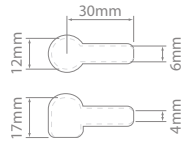
| Red | Black | Pack Qty | Terminal Ø (mm) | Post Height (mm) | Material Thickness (mm) | Fig |
|--------------------|--------------------|----------|-----------------|------------------|-------------------------|-----|
| SY2990-RED | SY2990-BLK | 1 | 30.5 | 23 | 2 | 1 |
| SY2990R/100 | SY2990B/100 | 100 | | | | |
| SY2995-RED | SY2995-BLK | 1 | 30.5 | 23 | 2 | 2 |
| SY2995R/100 | SY2995B/100 | 100 | | | | |



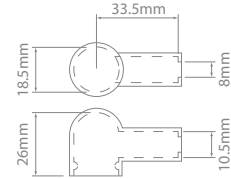
Fitting Accessories



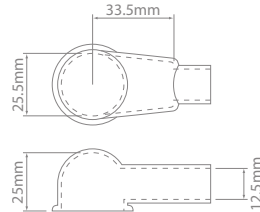
SY2900



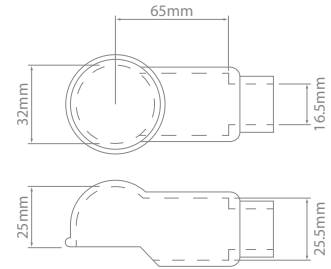
SY2980



SY2982

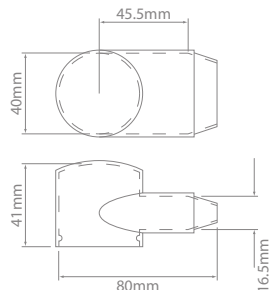


SY2984



Terminal Insulators – Lug & Ring

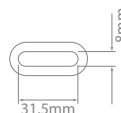
| Red | Black | Pack Qty | Terminal Ø (mm) | Post Height (mm) | Terminal Length (mm) | Inside Grip (mm) | Cable Ø (mm) | Material Thickness (mm) |
|--------------------|--------------------|----------|-----------------|------------------|----------------------|------------------|--------------|-------------------------|
| SY2900-RED | SY2900-BLK | 1 | 13 | 16 | 21 | 6 | 4 – 6 | 1 |
| SY2900R/100 | SY2900B/100 | 100 | | | | | | |
| SY2980-RED | SY2980-BLK | 1 | 18.5 | 26 | 33.5 | 10.5 | 8 | 1.5 |
| SY2980R/100 | SY2980B/100 | 100 | | | | | | |
| SY2982-RED | SY2982-BLK | 1 | 25.5 | 25 | 33.5 | 12.5 | 12.5 | 1.5 |
| SY2982R/100 | SY2982B/100 | 100 | | | | | | |
| SY2984-RED | SY2984-BLK | 1 | 32 | 25 | 65 | 25.5 | 16.5 | 2.5 |
| SY2984R/100 | SY2984B/100 | 100 | | | | | | |



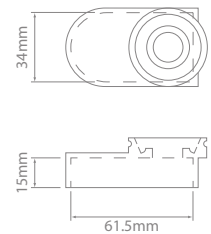
SY2999-RED



SY2998-RED



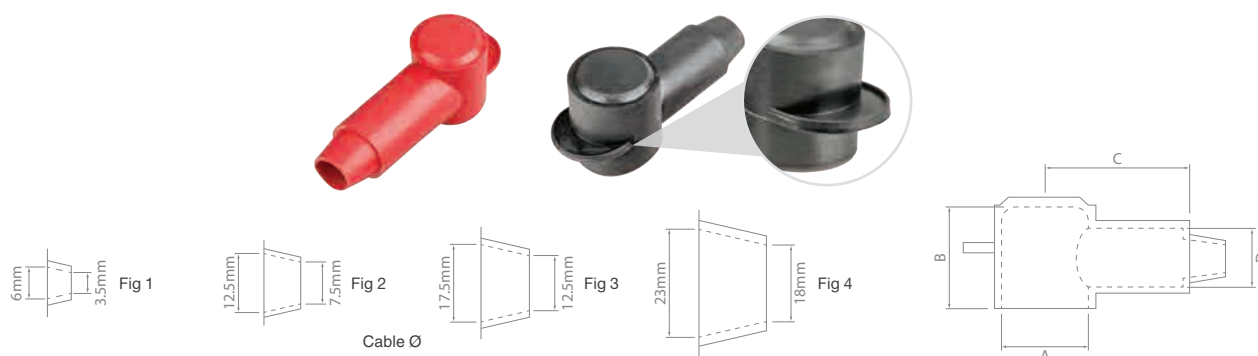
SY2998-RED



Terminal Insulators – Lug & Ring – Marine

| Red | Black | Pack Qty | Terminal Ø (mm) | Post Height (mm) | Terminal Length (mm) | Material Thickness (mm) |
|--------------------|--------------------|----------|--------------------------|------------------|----------------------|-------------------------|
| SY2999-RED | SY2999-BLK | 1 | 40 | 41 | 58.5 | 1.5 |
| SY2999R/100 | SY2999B/100 | 100 | | | | |
| SY2998-RED | SY2998-BLK | 1 | Base for use with SY2999 | | | 2.5 |

Fitting Accessories



Terminal Insulators – Lug & Ring – 200 Series

| Red | Black | Pack Qty | Terminal Ø A (mm) | Post Height B (mm) | Terminal Length C (mm) | Inside Grip D (mm) | Cable Ø Fig | Material Thickness (mm) |
|--------------------|--------------------|----------|-------------------|--------------------|------------------------|--------------------|-------------|-------------------------|
| SY2959-RED | SY2959-BLK | 1 | 12 | 18 | 25.5 | 12.5 | 1 | 1.5 |
| SY2959R/100 | SY2959B/100 | 100 | | | | | | |
| SY2960-RED | SY2960-BLK | 1 | 14 | 19 | 25.5 | 12.5 | 1 | 1.5 |
| SY2960R/100 | SY2960B/100 | 100 | | | | | | |
| SY2963-RED | SY2963-BLK | 1 | 16 | 20.5 | 25.5 | 12.5 | 2 | 1.5 |
| SY2963R/100 | SY2963B/100 | 100 | | | | | | |
| SY2965-RED | SY2965-BLK | 1 | 18 | 22 | 25.5 | 12.5 | 2 | 1.5 |
| SY2965R/100 | SY2965B/100 | 100 | | | | | | |
| SY2966-RED | SY2966-BLK | 1 | 20 | 24 | 33.5 | 18 | 3 | 1.8 |
| SY2966R/100 | SY2966B/100 | 100 | | | | | | |
| SY2968-RED | SY2968-BLK | 1 | 22 | 26.5 | 44.5 | 19 | 3 | 1.8 |
| SY2968R/100 | SY2968B/100 | 100 | | | | | | |
| SY2971-RED | SY2971-BLK | 1 | 26 | 32 | 52.5 | 18 | 3 | 2 |
| SY2971R/100 | SY2971B/100 | 100 | | | | | | |
| SY2970-RED | SY2970-BLK | 1 | 28 | 33.5 | 44.5 | 19 | 3 | 2.3 |
| SY2970R/100 | SY2970B/100 | 100 | | | | | | |
| SY2973-RED | SY2973-BLK | 1 | 32 | 38 | 44.5 | 23 | 4 | 2.5 |
| SY2974-RED | SY2974-BLK | 1 | 32 | 38 | 60.5 | 23 | 4 | 2.5 |
| SY2974R/100 | SY2974B/100 | 100 | | | | | | |
| SY2975-RED | SY2975-BLK | 1 | 32 | 38 | 44.5 | 23 | 4 | 2.5 |
| SY2975R/100 | SY2975B/100 | 100 | | | | | | |



Terminal Insulators – 121/123 Series Circuit Breakers

| Red | Black | Pack Qty |
|----------------------|----------------------|----------|
| CB121BOOT-RED | CB121BOOT-BLK | 1 |
| CB121R/10 | CB121B/10 | 10 |
| CB121R/100 | CB121B/100 | 100 |



Sleeving



Sleeving



ION-Guard – Expandable **50**



ION-Guard – Guard-Shield **53**



ION-Guard – Textile **54**



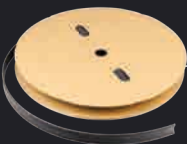
PVC Tubing **56**



Spiral Wrap **57**



Heatshrink – Standard Wall **58**



Heatshrink – Diesel Resistant **61**



Heatshrink – Adhesive Lined **62**

Sleeving

ION-Guard – Expandable

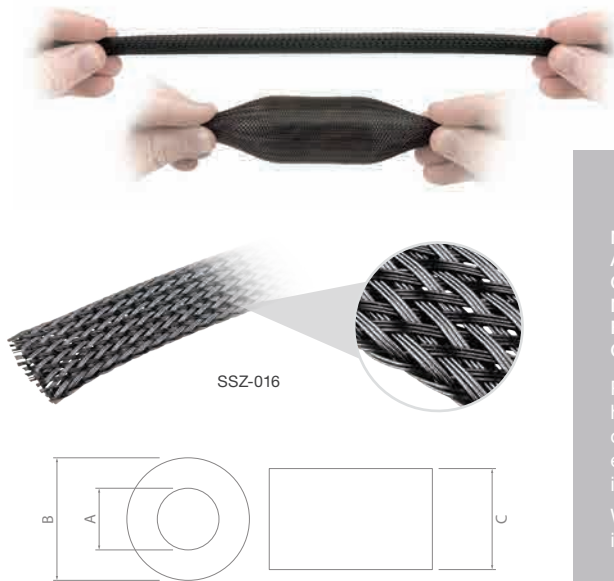


- Expandable and easy to apply over irregular shapes.
- Wide range of materials & sizes available.
- Broad operating temperatures.
- Open weave construction allows for complete drainage, excludes Guard-Sleeve.

Approvals :

RoHS

Continuous lengths can not be guaranteed due to manufacturing limitations.



ION-Guard™

Guard-Flex

Material : Polyester
 Approvals : UL, RoHS, REACH, Halogen-free
 Cutting Tool : Hot Knife
 Melting Point : 240 ±10°C
 Flammability : VW-1
 Operating Temperature : -50°C to 150°C

Industry Standard

Polyester expandable braided sleeving is flame retardant and halogen-free. It offers durable abrasion resistance in a wide range of industrial applications. The open weave construction of the expandable range allows for easy installation over hoses and cables, including with bulky or large connectors.

When totally expanded, the sleeving can reach at least 1.5 times the initial dimension.

Guard-Flex

| Roll Length 25m | Roll Length 100m | Expanded Range A – B (mm) | Normal Size C (mm) |
|--------------------|---------------------|------------------------------|-----------------------|
| SSZ-003 | — | 1 – 6 | 3 |
| SSZ-006 | SSZ-006-100 | 3 – 9 | 6 |
| SSZ-008 | SSZ-008-100 | 5 – 16 | 8 |
| SSZ-010 | — | 7 – 19 | 10 |
| SSZ-012 | — | 8 – 24 | 12 |
| SSZ-016 | — | 10 – 27 | 16 |
| SSZ-025 | — | 18 – 35 | 25 |
| SSZ-032 | — | 20 – 50 | 32 |
| SSZ-045 | — | 35 – 75 | 45 |

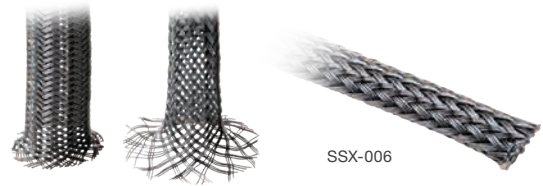
Guard-Flex – Anti-Fray

Material : Polyester
 Approvals : UL, RoHS
 Cutting Tool : Hot Knife, Scissors
 Melting Point : 240 ±10°C
 Flammability : VW-1
 Operating Temperature : -50°C to 150°C

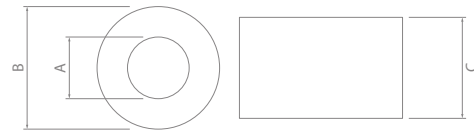
Anti-fraying

Cold Cut

With a softer finish polyester Guard-Flex allows cutting with common scissors without causing obvious fraying, this can be more convenient in situations where access to a hot knife may be limited. It also provides the same excellent anti-abrasion protection as the standard Guard-Flex sleeving.



Cutting with common scissors does not cause obvious fraying



Guard-Flex – Anti-Fray

| Roll Length 25m | Expanded Range A – B (mm) | Normal Size C (mm) |
|--------------------|------------------------------|-----------------------|
| SSX-003 | 1 – 5 | 3 |
| SSX-006 | 3 – 8 | 6 |
| SSX-008 | 5 – 10 | 8 |
| SSX-012 | 8 – 14 | 12 |
| SSX-016 | 10 – 18 | 16 |
| SSX-025 | 18 – 28 | 25 |
| SSX-032 | 20 – 35 | 32 |

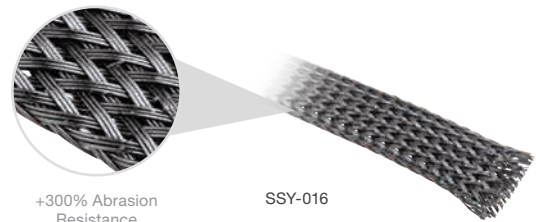
Guard-Gorilla – High Anti-Abrasion

Material : Polyester
 Approvals : UL, RoHS, REACH, Halogen-free
 Cutting Tool : Hot Knife
 Melting Point : 240 ±10°C
 Flammability : VW-1
 Operating Temperature : -50°C to 150°C

+300%
Abrasion
Resistance

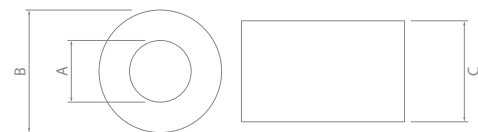
Featuring an abrasion resistance 300% more than standard polyester expandable sleeving. Ideal in situations where components are in particularly hazardous positions. Easy application whilst still providing exceptional mechanical protection.

When totally expanded, the sleeving can reach at least 1.5 times the initial dimension.



+300% Abrasion
Resistance

SSSY-016

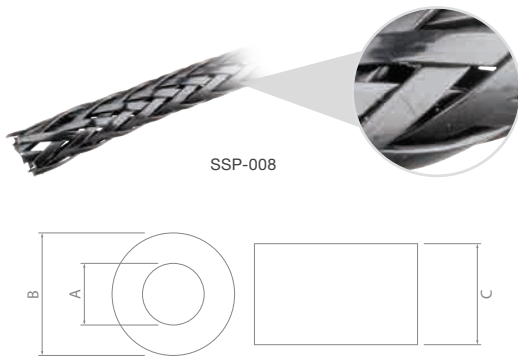


Guard-Gorilla – High Anti-Abrasion

| Roll Length 25m | Roll Length 100m | Expanded Range A – B (mm) | Normal Size C (mm) |
|--------------------|---------------------|------------------------------|-----------------------|
| SSSY-003 | — | 1 – 6 | 3 |
| SSSY-006 | SSSY-006-100 | 3 – 9 | 6 |
| SSSY-008 | SSSY-008-100 | 5 – 16 | 8 |
| SSSY-012 | SSSY-012-100 | 8 – 24 | 12 |
| SSSY-016 | — | 10 – 27 | 16 |
| SSSY-025 | — | 18 – 35 | 25 |
| SSSY-032 | — | 20 – 50 | 32 |



Sleeving



Guard-Tough – Nylon Flat Filament

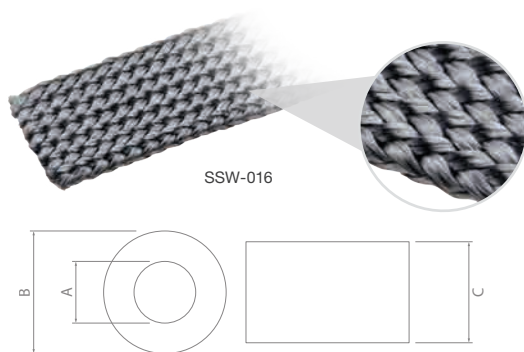
Material : Polyamide 6.6
 Approvals : RoHS
 Cutting Tool : Hot Knife
 Melting Point : 256 ±5°C
 Flammability : UL 94V-2
 Operating Temperature : -60°C to 160°C

Tough,
Wide
Filaments

Constructed from tough and resilient Nylon 6.6 flat filaments exceeding the durability of other plastic sleeving without losing the attractive look and flexibility. Uniquely shaped monofilament provides a firm and smooth surface reducing the chance of snags when dragged over rough objects.

Guard-Tough – Nylon Flat Filament

| Roll Length – 25m | Expanded Range | Normal Size |
|-------------------|----------------|-------------|
| | A – B (mm) | C (mm) |
| SSP-006 | 4 – 9 | 6 |
| SSP-008 | 5 – 12 | 8 |
| SSP-012 | 9 – 16 | 12 |
| SSP-019 | 16 – 25 | 19 |
| SSP-032 | 25 – 42 | 32 |



Guard-Sleeve – Nylon Multifilament

Material : Polyamide
 Approvals : RoHS
 Cutting Tool : Hot Knife
 Melting Point : 230 ±10°C
 Flammability : UL 94V-2
 Operating Temperature : -60°C to 125°C

Tight Weave

Braided from tight woven nylon multifilament yarn, Guard-Sleeve is an excellent option to help protect and improve the appearance of wires and cables. Offering excellent flexibility, high abrasion resistance whilst protecting from acids and most alkalis.

Guard-Sleeve – Nylon Multifilament

| Roll Length – 25m | Expanded Range | Normal Size |
|-------------------|----------------|-------------|
| | A – B (mm) | C (mm) |
| SSW-006 | 4 – 7 | 6 |
| SSW-008 | 5 – 9 | 8 |
| SSW-012 | 8 – 13 | 12 |
| SSW-016 | 10 – 17 | 16 |
| SSW-023 | 15 – 24 | 23 |



Accessories – Electric Knife

| Part No. | Suitable For |
|--------------|--|
| HT-19 | Guard-Flex, Guard-Gorilla, Guard-Tough, Guard-Sleeve, and Guard-Wrap (Textile) |

- Withstands temperatures of up to 200°C.
- Increased dielectric resistance.
- Silicone coated, non-alkali fiberglass sleeving.
- Flame and abrasion resistant.
- Smooth finish with high flexibility.
- Ideal in applications where high or low temperature protection is required or high voltage installs.
- All supplied in 25m rolls.



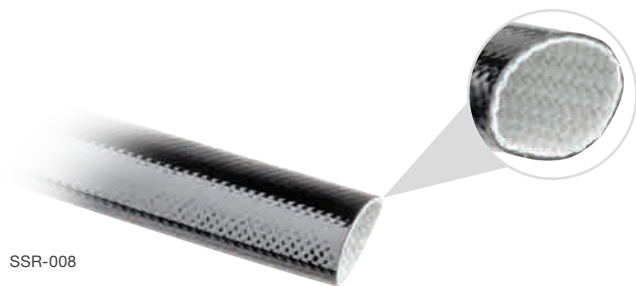
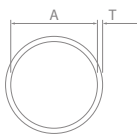
SSR-020

| | |
|-------------------------|------------------|
| Sleeving Material : | Fiberglass Fiber |
| Coating Material : | Silicone |
| Approvals : | UL, RoHS |
| Cutting Tool : | Scissors |
| Breakdown Voltage : | 4.0KV |
| Flammability : | VW-1 |
| Operating Temperature : | -60°C to 200°C |
| Roll Lengths : | 25m |

Continuous lengths can not be guaranteed due to manufacturing limitations.



ION-Guard™



SSR-008

Guard-Shield – High Temp

| Roll Length – 25m | Inside Ø A (mm) | Wall Thickness T (mm) @ 4KV |
|-------------------|--------------------|--------------------------------|
| SSR-004 | 4 | 0.50 ±0.05 |
| SSR-006 | 6 | 0.55 ±0.05 |
| SSR-008 | 8 | 0.60 ±0.05 |
| SSR-010 | 10 | 0.70 ±0.05 |
| SSR-012 | 12 | 0.70 ±0.05 |
| SSR-015 | 15 | 0.70 ±0.05 |
| SSR-020 | 20 | 0.70 ±0.05 |
| SSR-025 | 25 | 0.70 ±0.05 |



Sleeving

ION-Guard – Textile



- Range of materials & sizes available.
- Broad operating temperatures.
- Tight textile weaves.
- All supplied in 25m rolls.
- Extremely flexible & easy to apply over irregular shapes.
- Salt, oil, most fuels, solvent and abrasion resistant.

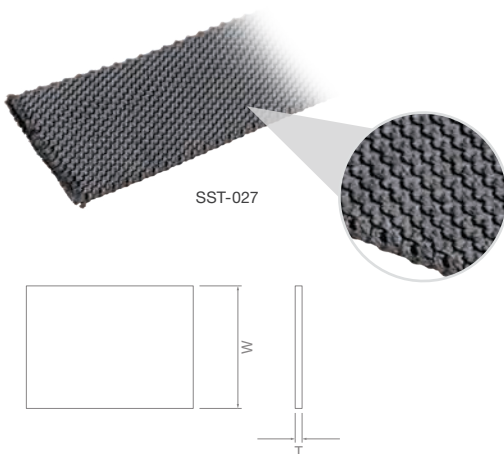
Approvals :
Roll Lengths :

RoHS
25m

Continuous lengths can not be guaranteed due to manufacturing limitations.



ION-Guard™



Guard-Weave

Material : Polyamide
 Approvals : RoHS, ISO 6945, MSHA
 Cutting Tool : Scissors
 Melting Point : 256 ±5°C
 Wall Thickness : 1mm
 Operating Temperature : -60°C to 125°C

Tight Weave

A soft but extremely tough textile sleeve made from a nylon multifilament. With its soft finish Guard-Weave is an ideal option for protecting componentry within, and surrounding, the sleeving. The tight woven construction provides excellent abrasion resistance and protection from hydraulic oil leaks and spills.

Guard-Weave

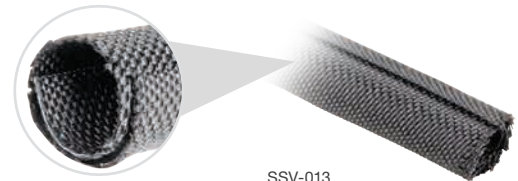
| Roll Length – 25m | Inside Ø (mm) | Flat Width (mm) | | Wall Thickness (mm) |
|-------------------|---------------|-----------------|--|---------------------|
| | | W | | T |
| SST-027 | 17 | 27 | | 1 |
| SST-036 | 23 | 36 | | 1 |
| SST-042 | 27 | 42 | | 1 |

Guard-Wrap – Self-Closing Sleeving

Material : Polyester Monofilament & Multifilament
 Approvals : RoHS, Halogen-free
 Cutting Tool : Hot Knife
 Melting Point : 240 ±10°C
 Flammability : DIN5510, BS6853
 Operating Temperature : -50°C to 150°C

Self-closing

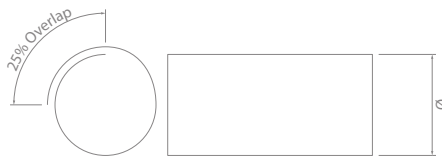
Self-closing sleeve is a non-expandable sleeving woven from monofilament and multifilament warped polyester. Guard-Wrap provides a lightweight, cost-effective and tough solution for the protection of a wide range of components. Its inherent flexibility allows it to bend, coil and conform to irregular shapes, while its open design allows it to be installed on completed assemblies.



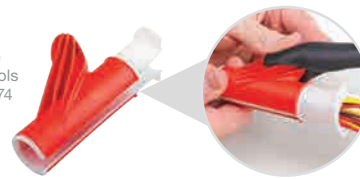
SSV-013



Open design allows easy installation or access to completed assemblies



For Cable Insertion Tools see page 174



Guard-Wrap – Self-Closing Sleeving

| Roll Length – 25m | Inside Ø (mm) | Max. Bundle Ø (mm) |
|-------------------|---------------|--------------------|
| SSV-005 | 5 | 6 |
| SSV-008 | 8 | 9 |
| SSV-010 | 10 | 11 |
| SSV-013 | 13 | 14 |
| SSV-016 | 16 | 17 |
| SSV-019 | 19 | 20 |
| SSV-025 | 25 | 27 |

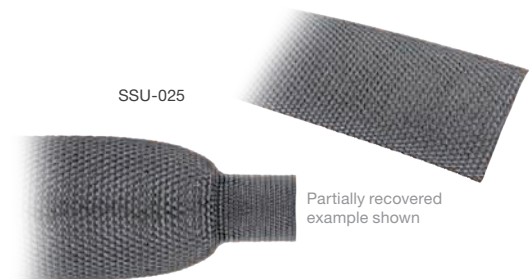
Guard-Shrink – Heat Shrinkable

Material : Polyolefin & Polyester Multifilament
 Approvals : RoHS, Halogen-free
 Cutting Tool : Scissors
 Shrink Temperature : 120°C
 Shrink Ratio : 2:1
 Operating Temperature : -40°C to 125°C

Heat Shrinkable

Heat shrinkable braided sleeving consists of a polyester multifilament and special modified polyolefin filament, will shrink when appropriately heated. This unique woven construction makes Guard-Shrink extremely flexible and easy to install on hoses with irregular shapes. Suitable in rough environments, providing excellent abrasion resistance and noise reduction.

SSU-025



Partially recovered example shown



Guard-Shrink – Heat Shrinkable

| Roll Length – 25m | Ø (mm) | Recovered Ø (mm) |
|-------------------|--------|------------------|
| | A | B |
| SSU-010 | 10 | 5 |
| SSU-020 | 20 | 10 |
| SSU-025 | 25 | 12.5 |
| SSU-030 | 30 | 15 |
| SSU-034 | 34 | 16 |



Sleeving

PVC Tubing



- General all round harness protection.
- Self-extinguishing fire retardant PVC.
- Wide range of lengths & sizes available.

Material : Flexible V75 Cable Grade PVC
 Burning Behaviour : Self-extinguishing
 Hardness : Shore A 92
 Operating Temperature : Continuous 75°C



PVC8/25



PVC35/50

PVC Tubing

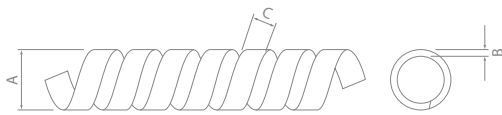
| Roll Length – 25m | Roll Length – 50m | Roll Length – 100m | Roll Length – 200m | Roll Length – 250m | Inside Ø – A (mm) | Wall Thickness (mm) |
|-------------------|-------------------|--------------------|--------------------|--------------------|-------------------|---------------------|
| PVC4/25 | – | – | – | PVC4/250 | 4 | 0.5 |
| PVC6/25 | – | – | PVC6/200 | – | 6 | 0.5 |
| PVC8/25 | – | – | PVC8/200 | – | 8 | 0.65 |
| PVC10/25 | – | – | PVC10/200 | – | 10 | 0.65 |
| PVC12/25 | – | PVC12/100 | – | – | 12 | 0.85 |
| PVC16/25 | – | PVC16/100 | – | – | 16 | 0.85 |
| – | PVC20/50 | PVC20/100 | – | – | 20 | 0.85 |
| – | PVC25/50 | – | – | – | 25 | 0.85 |
| – | PVC30/50 | – | – | – | 30 | 1.0 |
| – | PVC35/50 | – | – | – | 35 | 1.0 |

- Light-weight and easy to use harness protection system.
- Excellent electrical, abrasive and binding strength.
- Flexible construction enables the easy routing of wiring looms.
- Durable and reusable.



Material :

Nylon



CTC-12B/10



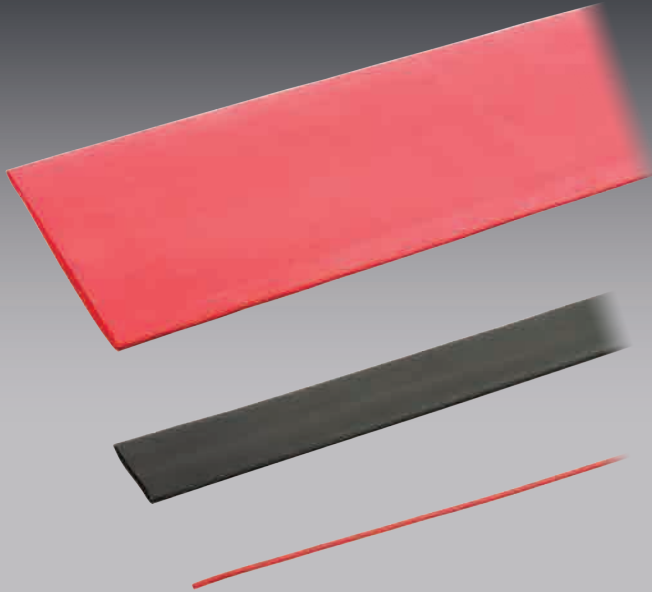
Spiral Wrap

| Roll Length – 10m | Wrapping Range (mm) | Outside Ø – A (mm) | Wall Thickness – B (mm) | Wrap Width – C (mm) |
|-------------------|---------------------|--------------------|-------------------------|---------------------|
| CTC-3B/10 | 1.5 – 10 | 3 | 0.5 | 4.7 |
| CTC-6B/10 | 4 – 15 | 6 | 0.6 | 6.7 |
| CTC-12B/10 | 9 – 32 | 12 | 0.85 | 15.0 |
| CTC-16B/10 | 12 – 35 | 16 | 1.0 | 15.5 |
| CTC-24B/10 | 20 – 100 | 24 | 1.3 | 21.5 |



Sleeving

Heatshrink – Standard Wall



- Available in assortment kits, cut length packs, rolls and dispenser boxes.
- Reliable and cost-effective for standard-duty electrical applications.
- 2:1 shrink ratio covers wide range of applications.
- Resistant to decay, chemicals, copper corrosion and ultra violet rays.
- Lightweight & flexible.
- Custom lengths available for all 2:1 Standard Wall Heatshrink.
- Other colours available on request, lead times apply.

Material : Polyolefin
 Shrink Temperature : 95°C
 Dielectric Strength : >20kV/mm
 Operating Temperature : -55°C to 125°C

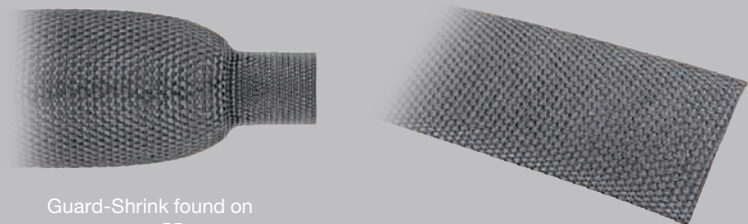
Standard Wall Heatshrink Specifications

| Part No. Prefix | Diameter (mm) | Recovered Diameter (mm) | Recovered Wall Thickness (mm) | Part No. Prefix | Diameter (mm) | Recovered Diameter (mm) | Recovered Wall Thickness (mm) |
|-----------------|---------------|-------------------------|-------------------------------|-----------------|---------------|-------------------------|-------------------------------|
| HSX1.5 | 1.5 | 0.75 | 0.36 | HSX20 | 20 | 10 | 0.78 |
| HSX2.5 | 2.5 | 1.2 | 0.44 | HSX25 | 25 | 12.5 | 0.86 |
| HSX3.5 | 3.5 | 1.7 | 0.44 | HSX30 | 30 | 15 | 0.86 |
| HSX5 | 5 | 2.5 | 0.56 | HSX40 | 40 | 20 | 0.96 |
| HSX7 | 7 | 3.5 | 0.56 | HSX50 | 50 | 25 | 0.96 |
| HSX10 | 10 | 5 | 0.56 | HSX76 | 76 | 38 | 1.27 |
| HSX13 | 13 | 6.5 | 0.69 | HSX100 | 100 | 50 | 1.4 |

Guard-Shrink

Guard-Shrink is a heat shrinkable braided sleeving consisting of a polyester multifilament and special modified polyolefin filament, it will shrink when appropriately heated.

This unique woven construction makes Guard-Shrink extremely flexible and easy to install on hoses with irregular shapes. Suitable in rough environments, providing excellent abrasion resistance and noise reduction.



Guard-Shrink found on page 55.

ION-Guard™



2:1 Heatshrink – Standard Wall – 40mm/50mm Assortment Kit

| Part No. | Contents: | | | |
|---------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|
| HS-KIT | 20 x HS10 (Black) 40 x HS10 (Red) | 20 x HS13 (Black) 40 x HS13 (Red) | 10 x HS20 (Black) 20 x HS20 (Red) | 10 x HS25 (Black) 20 x HS25 (Red) |

Custom lengths
available for all
2:1 Standard Wall
Heatshrink



2:1 Heatshrink – Standard Wall – 40mm/50mm Lengths

| Red | Black | Diameter (mm) | Cut Length (mm) | Pack Qty |
|------------------------|------------------------|---------------|-----------------|----------|
| HS7-40RED/1250 | HS7-40BLK/1250 | 7 | 40 | 1250 |
| HS10-40RED/40 | HS10-40BLK/40 | 10 | 40 | 40 |
| HS10-40RED/1250 | HS10-40BLK/1250 | 10 | 40 | 1250 |
| HS13-40RED/40 | HS13-40BLK/40 | 13 | 40 | 40 |
| HS13-40RED/1250 | HS13-40BLK/1250 | 13 | 40 | 1250 |
| HS20-40RED/20 | HS20-40BLK/20 | 20 | 40 | 20 |
| HS20-40RED/1250 | HS20-40BLK/1250 | 20 | 40 | 1250 |
| HS25-50RED/10 | HS25-50BLK/10 | 25 | 50 | 10 |
| HS25-50RED/1000 | HS25-50BLK/1000 | 25 | 50 | 1000 |



2:1 Heatshrink – Standard Wall – Dispenser Boxes

| Red | Black | Diameter (mm) | Roll Length (m) |
|---------------------|---------------------|---------------|-----------------|
| HSD2.5RED/20 | HSD2.5BLK/20 | 2.5 | 20 |
| HSD3.5RED/20 | HSD3.5BLK/20 | 3.5 | 20 |
| HSD5RED/10 | HSD5BLK/10 | 5 | 10 |
| HSD7RED/10 | HSD7BLK/10 | 7 | 10 |
| HSD10RED/10 | HSD10BLK/10 | 10 | 10 |
| HSD13RED/5 | HSD13BLK/5 | 13 | 5 |
| HSD20RED/5 | HSD20BLK/5 | 20 | 5 |
| HSD25RED/5 | HSD25BLK/5 | 25 | 5 |



Sleeving



2:1 Heatshrink – Standard Wall – 1.2m Lengths

| Red | Black | Diameter (mm) | Red | Black | Clear | Diameter (mm) |
|-----------------|-----------------|---------------|----------------|----------------|---|---------------|
| HS1.5RED | HS1.5BLK | 1.5 | HS13RED | HS13BLK | HS13CLR NEW | 13 |
| HS2.5RED | HS2.5BLK | 2.5 | HS20RED | HS20BLK | — | 20 |
| HS3.5RED | HS3.5BLK | 3.5 | HS25RED | HS25BLK | HS25CLR NEW | 25 |
| HS5RED | HS5BLK | 5 | HS40RED | HS40BLK | — | 40 |
| HS7RED | HS7BLK | 7 | HS50RED | HS50BLK | — | 50 |
| HS10RED | HS10BLK | 10 | HS76RED | HS76BLK | — | 76 |

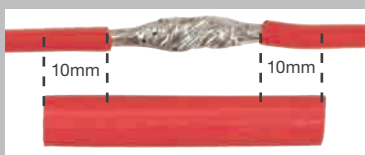


Custom lengths available for all 2:1 Standard Wall Heatshrink

2:1 Heatshrink – Standard Wall – Rolls

| Red | Black | Clear | Blue | Diameter (mm) | Length (m) |
|----------------------|----------------------|---|---|---------------|------------|
| HSR1.5RED/200 | HSR1.5BLK/200 | — | — | 1.5 | 200 |
| HSR2.5RED/200 | HSR2.5BLK/200 | — | — | 2.5 | 200 |
| HSR3.5RED/200 | HSR3.5BLK/200 | — | — | 3.5 | 200 |
| HSR5RED/100 | HSR5BLK/100 | HSR5CLR/100 NEW | — | 5 | 100 |
| — | HSR20BLK/100 | — | — | 20 | 100 |
| HSR7RED/50 | HSR7BLK/50 | — | — | 7 | 50 |
| HSR10RED/50 | HSR10BLK/50 | — | — | 10 | 50 |
| HSR13RED/50 | HSR13BLK/50 | — | — | 13 | 50 |
| HSR20RED/50 | HSR20BLK/50 | — | — | 20 | 50 |
| HSR25RED/50 | HSR25BLK/50 | — | HSR25BLU/50 NEW | 25 | 50 |
| HSR30RED/50 | HSR30BLK/50 | — | HSR30BLU/50 NEW | 30 | 50 |
| HSR40RED/25 | HSR40BLK/25 | — | — | 40 | 25 |
| HSR50RED/25 | HSR50BLK/25 | — | HSR50BLU/25 NEW | 50 | 25 |

Heatshrink Application



Cut length of heatshrink allowing for approximately 10mm of overlap.

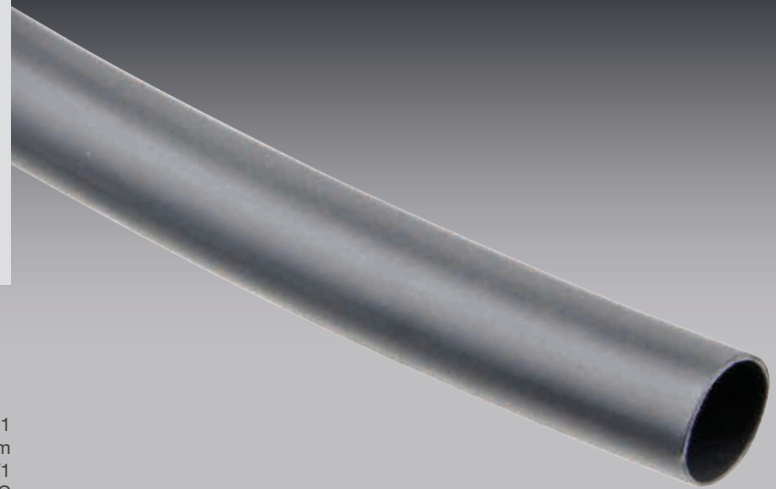


Apply heat thoroughly to the entire strip using hot air gun or similar tool.



Depending on the type of heatshrink used, the shrink ratio will be at least 2:1.

- Resistance to chemicals, diesel fuels, hydraulic fluids and lubricating oils.
- 2:1 shrink ratio covers wide range of applications.
- 1.2m lengths or rolls available.
- Flame retarding and self extinguishing.
- Dielectric strength 15kV/mm.
- Broad operating temperature range -75°C to 150°C.
- Meets AMS-DTL-23053/16.



Shrink Ratio : 2:1
 Dielectric Strength : 15kV/mm
 Flammability : UL224 VW1
 Operating Temperature : -75°C to 150°C



2:1 Heatshrink – Diesel Resistant – 1.2m Lengths

| Part No. | DR-25-1/8 | DR-25-3/16 | DR-25-1/4 | DR-25-3/8 | DR-25-1/2 | DR-25-3/4 |
|------------------|-----------|------------|-----------|-----------|-----------|-----------|
| Ø (mm) | 3.2 | 4.8 | 6.4 | 9.5 | 12.7 | 19.1 |
| Recovered Ø (mm) | 1.6 | 2.4 | 3.2 | 4.8 | 6.4 | 9.5 |



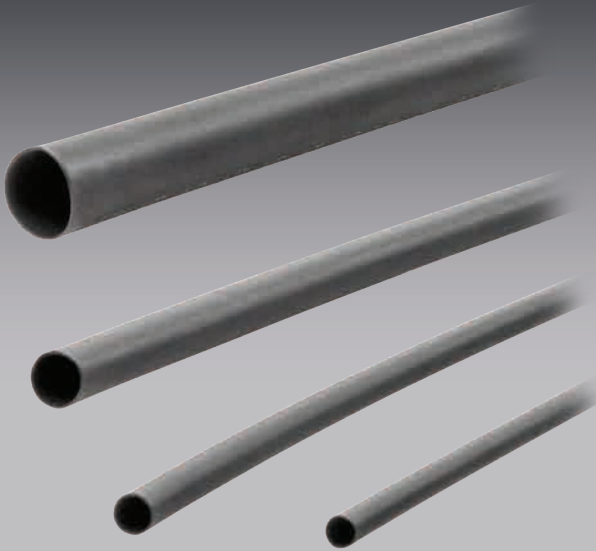
2:1 Heatshrink – Diesel Resistant – Rolls

| Part No. | DRR-25-1/8 | DRR-25-3/16 | DRR-25-1/4 | DRR-25-3/8 | DRR-25-1/2 | DRR-25-3/4 |
|------------------|------------|-------------|------------|------------|------------|------------|
| Ø (mm) | 3.2 | 4.8 | 6.4 | 9.5 | 12.7 | 19.1 |
| Recovered Ø (mm) | 1.6 | 2.4 | 3.2 | 4.8 | 6.4 | 9.5 |
| Roll Length (m) | 200 | 100 | 100 | 50 | 25 | 25 |



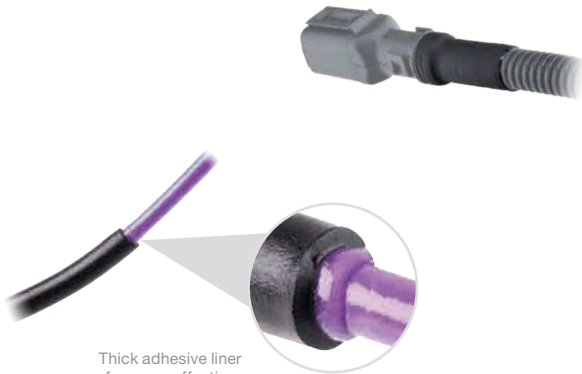
Sleeving

Heatshrink – Adhesive Lined



- Available in assortment kits, cut length packs and rolls.
- Adhesive lining for ultra secure connection from cable to connector & protection against harsh environment.
- Wide range of shrink ratios and sizes.
- Flame retardant & mechanically tough.
- Lightweight & flexible.
- Custom lengths available for all 3:1 Dual Wall Heatshrink.

Material : Polyolefin
 Shrink Temperature : 95°C
 Dielectric Strength : >15kV/mm
 Operating Temperature : Medium Wall >20kV/mm
 Dual Wall -55°C to 80°C
 Medium Wall -55°C to 110°C



Thick adhesive liner forms an effective barrier against ingress

3:1 Dual Wall Heatshrink Specifications

| Part No. Prefix | Diameter (mm) | Recovered Diameter (mm) | Recovered Wall Thickness (mm) |
|-----------------|---------------|-------------------------|-------------------------------|
| DW3 | 3 | 1 | 0.95 |
| DW4.8 | 4.8 | 1.6 | 1.1 |
| DW6 | 6 | 2 | 1.15 |
| DW9 | 9 | 3 | 1.3 |
| DW12 | 12 | 4 | 1.4 |
| DW18 | 18 | 6 | 1.6 |
| DW24 | 24 | 8 | 1.9 |
| DW39 | 39 | 13 | 2.5 |

Recovered wall thickness excludes adhesive



3:1 Dual Wall Heatshrink – 40mm/50mm Assortment Kit

| Part No. | Contents: | | | |
|---------------|------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|
| DW-KIT | 20 x DW9 (Black) 20 x DW9 (Red) | 20 x DW12 (Black) 20 x DW12 (Red) | 20 x DW18 (Black) 20 x DW18 (Red) | 20 x DW24 (Black) 20 x DW24 (Red) |



Custom lengths available for all 3:1 Dual Wall Heatshrink

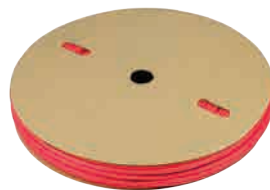
3:1 Dual Wall Heatshrink – 40mm/50mm/70mm Lengths

| Red | Black | Diameter (mm) | Cut Length (mm) | Pack Qty |
|-----------------------|-----------------------|---------------|-----------------|----------|
| DW9-40RED/20 | DW9-40BLK/20 | 9 | 40 | 20 |
| DW9-40RED/1250 | DW9-40BLK/1250 | 9 | 40 | 1250 |
| DW12-40RED/20 | DW12-40BLK/20 | 12 | 40 | 20 |
| DW12-40RED/625 | DW12-40BLK/625 | 12 | 40 | 625 |
| DW18-40RED/10 | DW18-40BLK/10 | 18 | 40 | 10 |
| DW18-40RED/625 | DW18-40BLK/625 | 18 | 40 | 625 |
| DW24-50RED/5 | DW24-50BLK/5 | 24 | 50 | 5 |
| DW24-50RED/500 | DW24-50BLK/500 | 24 | 50 | 500 |
| DW24-70RED/357 | DW24-70BLK/357 | 24 | 70 | 357 |



3:1 Dual Wall Heatshrink – 1.2m Lengths

| Red | Black | Diameter (mm) | Red | Black | Clear | Diameter (mm) |
|-----------------|-----------------|---------------|----------------|----------------|-----------------------------------|---------------|
| DW3RED | DW3BLK | 3 | DW12RED | DW12BLK | — | 12 |
| DW4.8RED | DW4.8BLK | 4.8 | DW18RED | DW18BLK | — | 18 |
| DW6RED | DW6BLK | 6 | DW24RED | DW24BLK | DW24CLR <small>NEW</small> | 24 |
| DW9RED | DW9BLK | 9 | DW39RED | DW39BLK | DW39CLR <small>NEW</small> | 39 |



3:1 Dual Wall Heatshrink – Rolls

| Red | Black | Diameter (mm) | Length (m) |
|----------------------|----------------------|---------------|------------|
| DWR3RED/200 | DWR3BLK/200 | 3 | 200 |
| DWR4.8RED/100 | DWR4.8BLK/100 | 4.8 | 100 |
| DWR6RED/100 | DWR6BLK/100 | 6 | 100 |
| DWR9RED/50 | DWR9BLK/50 | 9 | 50 |
| DWR12RED/25 | DWR12BLK/25 | 12 | 25 |
| DWR18RED/25 | DWR18BLK/25 | 18 | 25 |
| DWR24RED/25 | DWR24BLK/25 | 24 | 25 |
| DWR39RED/25 | DWR39BLK/25 | 39 | 25 |



Sleeving



3.5:1 Medium Wall Heatshrink – 1.2m Lengths

| Part No. | MW12 | MW22 | MW27 | MW35 | MW40 | MW56 | MW72 |
|-------------------------------|------|------|------|------|------|------|------|
| Ø (mm) | 12 | 22 | 27 | 35 | 40 | 56 | 72 |
| Recovered Ø (mm) | 3 | 6 | 6 | 9 | 12 | 17 | 22 |
| Recovered Wall Thickness (mm) | 1.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 |

Recovered wall thickness excludes adhesive.

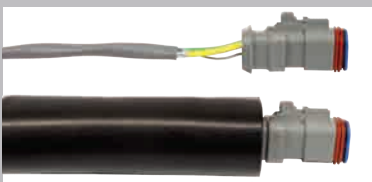


4:1 Dual Wall Heatshrink – 1.2m Lengths

| Part No. | ES2000-1 | ES2000-2 | ES2000-3 | ES2000-4 |
|-------------------------------|----------|----------|----------|----------|
| Ø (mm) | 5.7 | 7.5 | 11 | 18 |
| Recovered Ø (mm) | 1.3 | 1.7 | 2.4 | 4.5 |
| Recovered Wall Thickness (mm) | 0.7 | 0.8 | 0.9 | 1.0 |

Recovered wall thickness excludes adhesive.

Adhesive Lined Heatshrink for Strain Relief Applications



Place heatshrink over cable as shown.

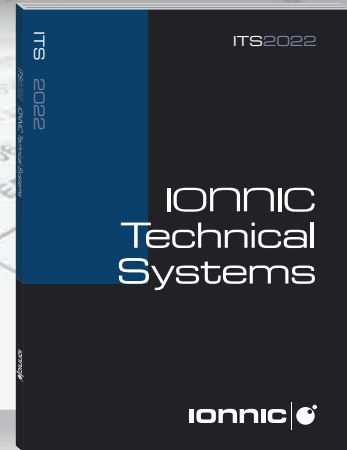
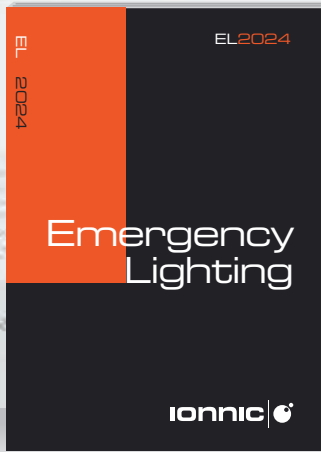


Apply heat starting at the connector end.



Shrinks down to approximately 1/3 - 1/4 of original size.

Catalogues



Visit ionnic.com or contact your nearest reseller for a copy

Enclosures



Enclosures



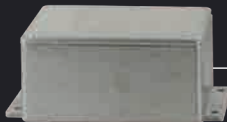
Polypropylene 68



ABS/Thermoplastic 70



PVC 74



Die-cast 75



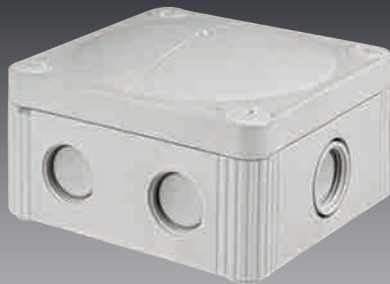
Pendant Control 76



Fuel Junction 78

Enclosures

Polypropylene



SBS003



SBZ003B

- Lightweight & compact.
- UV and ozone resistant.
- Flame retardant and halogen-free.
- Robust polypropylene construction.
- Cable entries with self-sealing membranes.
- Moulded mounting points.
- Wide range of sizes.
- Available in grey or black.
- Most SBS series feature threaded cable entries for cable gland applications.
- Environmentally sealed.
- SBZ Series features firm but flexible construction.
- Made in Europe.

| | | |
|-------------------------|-----|----------------|
| Body : | | Polypropylene |
| Sealing : | | TPE |
| Ingress Protection : | SBZ | IP55 |
| | SBS | IP66 |
| Approvals : | | RoHS |
| Operating Temperature : | SBZ | -30°C to 60°C |
| | SBS | -30°C to 100°C |



SBZ002B

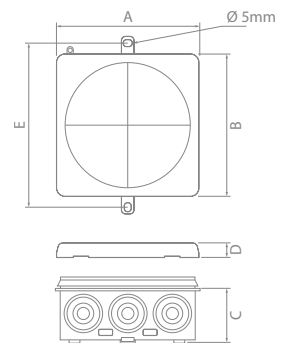
IP55

Made in Europe

SBZ Series features firm but flexible construction



SBZ001



Lanyard prevents loss of enclosure cover

Polypropylene Enclosures – SBZ Series

| Part No. | Colour | No. of Cable Entries | Entry Orientation | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) |
|----------------|--------|----------------------|-------------------|--------|--------|--------|--------|--------|
| SBZ001 | Grey | 10 | | 86 | 44 | 33 | 8 | 94 |
| SBZ001B | Black | | | | | | | |
| SBZ002 | Grey | 12 | | 86 | 86 | 33 | 8 | 94 |
| SBZ002B | Black | | | | | | | |
| SBZ003 | Grey | 14 | | 125 | 86 | 33 | 8 | 133 |
| SBZ003B | Black | | | | | | | |



Polypropylene Enclosures – SBS Series

| Part No. | Colour | No. of Cable Entries | Entry Orientation | Cable Entries Sizes | A (mm) | B (mm) | C (mm) | D (mm) |
|----------------|--------|----------------------|-------------------|---|--------|--------|--------|--------|
| SBS001 | Grey | 6 | | M20 (threaded) | 85 | 49 | 32 | 19 |
| SBS001B | Black | | | | | | | |
| SBS002 | Grey | 8 | | M20 (threaded) | 85 | 85 | 32 | 19 |
| SBS002B | Black | | | | | | | |
| SBS003 | Grey | 7 | | M20 (threaded) | 95 | 95 | 41 | 19 |
| SBS003B | Black | | | | | | | |
| SBS004 | Grey | 7 | | M25 (threaded) | 110 | 110 | 47 | 19 |
| SBS004B | Black | | | | | | | |
| SBS005 | Grey | 10 | | 2 x M20, 3 x M20/M25, 5 x M25/M32 | 140 | 140 | 62 | 19 |
| SBS005B | Black | | | | | | | |



Polypropylene Enclosures – Accessories

| Part No. | Description | Pack Quantity | Suits |
|------------------|---------------------------------|---------------|-----------------|
| 220S20 | Blanking plug – M20 thread size | 1 | SBS Series |
| 220S25 | Blanking plug – M25 thread size | 1 | SBS Series |
| CG20 | Cable gland, M20 thread size | 1 | SBS Series |
| CG20/10 | Cable gland, M20 thread size | 10 | SBS Series |
| CG25 | Cable gland, M25 thread size | 1 | SBS Series |
| CG25/10 | Cable gland, M25 thread size | 10 | SBS Series |
| SBR001/10 | Cable retainer ring | 10 | SBZ, SBS Series |



Enclosures

ABS/Thermoplastic



SBA1212S



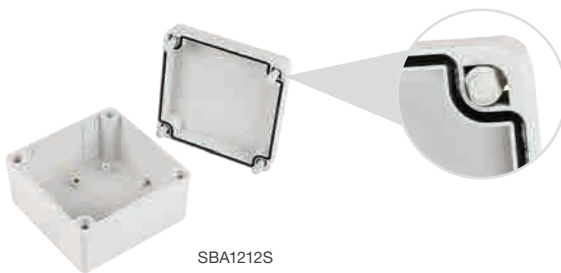
SBH2020

- Lightweight & compact.
- Corrosion resistant.
- Environmentally sealed.
- Hinged lid models feature pre-fitted offset mounting plate.
- All enclosures incorporate moulded mounting points, excluding Hinged lid models.
- Ideal for terminal boxes, control boxes, power distribution panels and instrument containers.
- Supplied with sealing gasket.

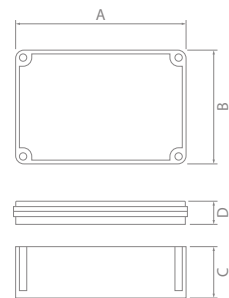
Hinge & Latch :
Operating Temperature :

PJ Series

Stainless Steel
-40°C to 120°C
-25°C to 90°C

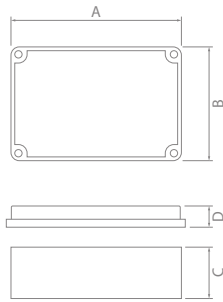


SBA1212S



ABS Enclosures – SBA Series

| Part No. | A (mm) | B (mm) | C (mm) | D (mm) |
|------------------|--------|--------|--------|--------|
| SBA0712 | 125 | 75 | 50 | 25 |
| SBA0811 | 110 | 80 | 50 | 20 |
| SBA1010 | 100 | 100 | 55 | 20 |
| SBA1212 | 125 | 125 | 80 | 20 |
| SBA1212S | 125 | 125 | 55 | 20 |
| SBA1217 | 175 | 125 | 50 | 25 |
| SBA1417 | 170 | 140 | 95 | 20 |
| SBA1525-1 | 250 | 150 | 80 | 50 |



IP66



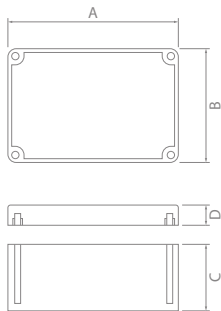
SBB2230



SBB0812

ABS Enclosures – SBB Series

| Part No. | A (mm) | B (mm) | C (mm) | D (mm) |
|----------------|--------|--------|--------|--------|
| SBB0812 | 80 | 120 | 40 | 14 |
| SBB1010 | 100 | 100 | 40 | 14 |
| SBB1115 | 150 | 110 | 49 | 25 |
| SBB1924 | 240 | 190 | 70 | 26 |
| SBB2230 | 300 | 220 | 76 | 50 |



IP65



H0300



H0306



ABS Enclosures – H Series

| Part No. | A (mm) | B (mm) | C (mm) | D (mm) |
|--------------|--------|--------|--------|--------|
| H0300 | 60 | 65 | 25 | 15 |
| H0301 | 75 | 105 | 25 | 15 |
| H0302 | 80 | 85 | 40 | 15 |
| H0304 | 85 | 125 | 40 | 15 |
| H0306 | 85 | 165 | 40 | 15 |
| H0308 | 125 | 165 | 60 | 15 |
| H0310 | 146 | 186 | 60 | 15 |



Enclosures

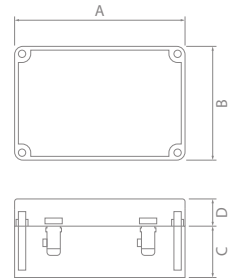


SBH2020

IP66

RoHS

CE



ABS Enclosures – Hinged Lid

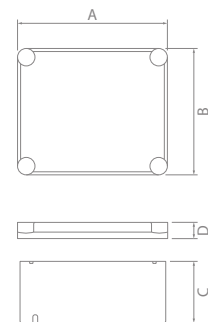
| Part No. | A (mm) | B (mm) | C (mm) | D (mm) |
|------------------|--------|--------|--------|--------|
| SBH1212S | 125 | 125 | 55 | 20 |
| SBH2020 | 200 | 200 | 120 | 20 |
| SBH2819-1 | 280 | 190 | 100 | 80 |



50860

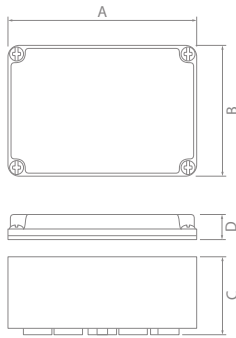
50866

IP55



Thermoplastic Enclosures – 50 Series

| Part No. | A (mm) | B (mm) | C (mm) | D (mm) |
|--------------|--------|--------|--------|--------|
| 50856 | 113 | 113 | 40 | 17 |
| 50860 | 113 | 79 | 40 | 17 |
| 50861 | 113 | 113 | 70 | 17 |
| 50862 | 119 | 161 | 56 | 17 |
| 50864 | 170 | 145 | 69 | 17 |
| 50866 | 230 | 180 | 74 | 18 |
| 50868 | 322 | 250 | 100 | 18 |
| 50870 | 170 | 145 | 70 | 88 |
| 50872 | 230 | 180 | 72 | 88 |



NEW



PJ110706



PJ151107

Thermoplastic Enclosures – PJ Series **NEW**

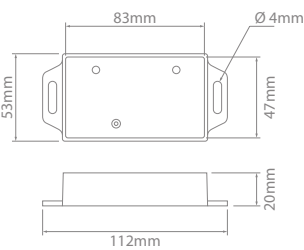
| Part No. | A (mm) | B (mm) | C (mm) | D (mm) |
|-----------------|--------|--------|--------|--------|
| PJ110706 | 75 | 110 | 50 | 15 |
| PJ111106 | 110 | 110 | 50 | 15 |
| PJ151107 | 110 | 150 | 60 | 15 |



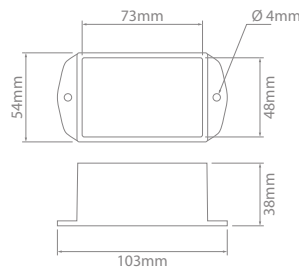
Ideal for use with epoxy resin



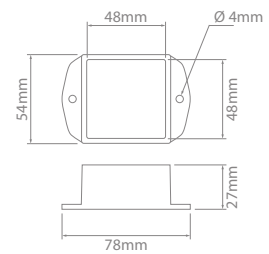
Ideal for use with epoxy resin



SIPR01



SIPR02



SIPR03

IONNIC Potting Box

| Part No. | Profile |
|--------------------------|---------|
| SIPR01 | Low |
| SIPR02 | High |
| SIPR03 NEW | Mid |



Enclosures

PVC



265/4



265/1

- Solid & lightweight enclosures.
- Environmentally sealed – IP56.
- Ideal for general purpose applications.
- Supplied with sealing gasket.

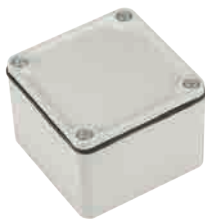
IP56

Body :
Ingress Protection :
Operating Temperature :

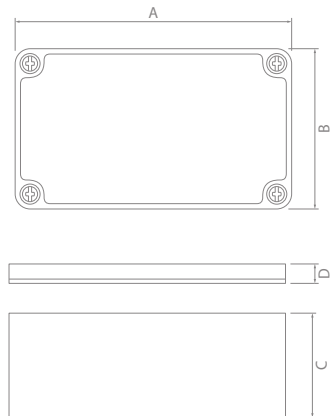
Polyvinyl Chloride
IP56
-20°C to 60°C



265/4



265/1



PVC Enclosures

| Part No. | A (mm) | B (mm) | C (mm) | D (mm) | Wall Thickness (mm) |
|----------|--------|--------|--------|--------|---------------------|
| 265/1 | 77 | 77 | 48 | 5 | 2.8 |
| 265/3 | 108 | 108 | 70 | 6 | 4.1 |
| 265/4 | 162 | 108 | 70 | 9 | 4.1 |
| 265/5 | 210 | 106 | 70 | 9 | 4.1 |
| 265/7 | 300 | 200 | 140 | 10 | 4.7 |

- Industrial grade heavy-duty die-cast.
- Flanged base for easy mounting.
- High impact, corrosion resistant.
- Wide range of sizes.
- Environmentally sealed – IP66.
- Ideal for mining, industrial, agricultural and marine use.
- Supplied with sealing gasket.

H0420



H0429

H0423



Body : Die-cast Aluminium
 Ingress Protection : IP66
 Operating Temperature : -40°C to 100°C

IP66

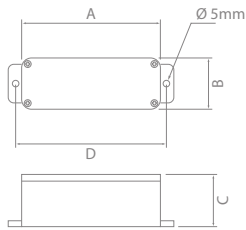


Fig 1



H0420

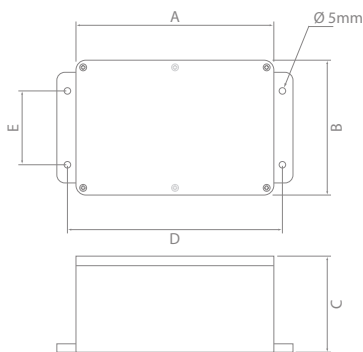


Fig 2



H0423



H0429

Die-cast Enclosures

| Part No. | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | Wall Thickness (mm) | Fig |
|----------|--------|--------|--------|--------|--------|---------------------|-----|
| H0420 | 89 | 53 | 30 | 100 | — | 1.4 | 1 |
| H0421 | 114 | 64 | 30 | 127 | 30 | 1.4 | 2 |
| H0422 | 114 | 64 | 55 | 127 | 30 | 1.4 | 2 |
| H0423 | 114 | 90 | 55 | 127 | 50 | 1.8 | 2 |
| H0424 | 120 | 100 | 35 | 137 | 60 | 1.8 | 2 |
| H0427 | 171 | 121 | 55 | 189 | 80 | 1.8 | 2 |
| H0429 | 222 | 146 | 55 | 238 | 98 | 2.2 | 2 |

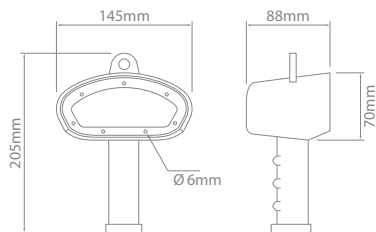




- Configurable to personal requirements.
- Engraved face plate available on request.
- Wide range of toggle switches available to integrate.

Body :

Polyurethane



HC1



FP



FP2



FP3

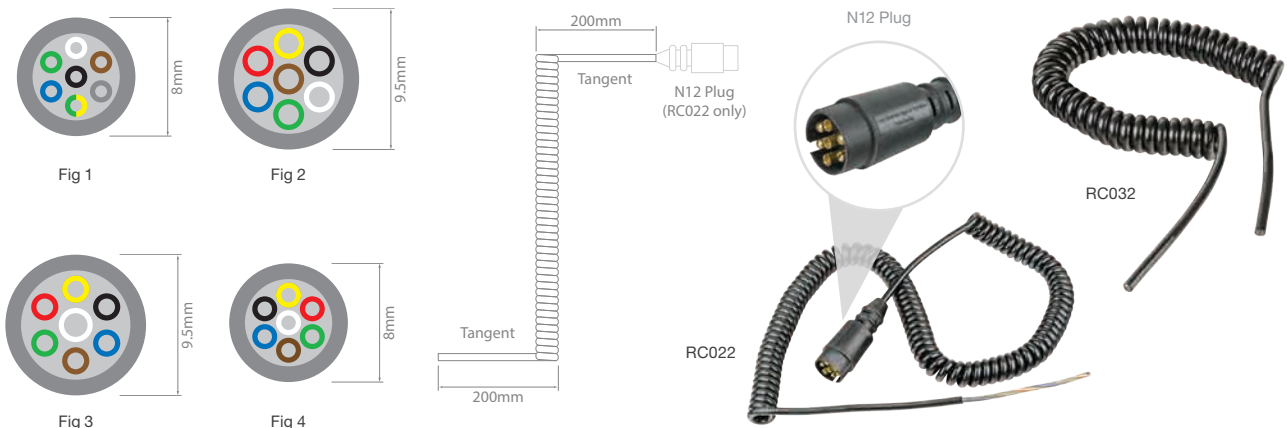


CG16SR

Pendant Control

| Part No. | Description |
|---------------|---|
| HC1 | Hand controller body |
| FP | Face plate – black |
| FP2 | Face plate – 2 hole. 8mm switch hole |
| FP3 | Face plate – 3 hole. 8mm switch hole |
| CG16SR | IP68 strain relief adaptor, when installed to manufacturer's specifications. 4mm to 8mm |

Requires 7 x 8mm screws for face plate.
Engraved face plates available on request.



Compatible Suzi Coils – 7 Core

| Part No. | No. of Cores | Cores – Qty x mm ² | Tails | Working Length (m) | Closed Coil Ø (mm) | Sheathing | Fig |
|----------|--------------|-------------------------------|---------------------------|--------------------|--------------------|--------------|-----|
| RC013 | 7 | 7 x 0.5 | Tangent | 3 | 20 | Polyurethane | 1 |
| RC014 | 7 | 7 x 0.5 | Tangent | 2 | 20 | Polyurethane | 1 |
| RC031 | 7 | 7 x 1.5 | Tangent | 8 | 25 | Polyurethane | 2 |
| RC032 | 7 | 6 x 1, 1 x 2 | Tangent | 3 | 28 | Polyurethane | 3 |
| RC022 | 7 | 7 x 0.75 | Tangent with 1 x N12 plug | 7.5 | 29 | Hytrek | 4 |

MTS403 with 8497K1 switch guard fitted



TS301E with TB001-BLK full boot fitted



TS101A with P23 name plate fitted



Other Toggle Switch accessories available, visit ionnic.com to find out more.

Compatible Toggle Switches

| Part No. | Action | Terminal Style | Maximum Load @ 24V (A) | |
|----------|--------|----------------|------------------------|--|
| TS403A | OFF | Screw | 15 | |
| TS403E | ON | Blade | 15 | |
| MTS403 | | Screw | 20 | |
| TS508A | OFF | Screw | 15 | |
| MTS508 | Mom.ON | Screw | 15 | |
| TS401A | ON | Screw | 15 | |
| TS401E | ON | Blade | 15 | |
| MTS401 | | Screw | 20 | |
| TS101A | ON | Screw | 15 | |
| TS101E | OFF | Blade | 15 | |
| MTS101 | ON | Screw | 20 | |
| TS301A | Mom.ON | Screw | 15 | |
| TS301E | OFF | Blade | 15 | |
| MTS301 | Mom.ON | Screw | 15 | |



Enclosures

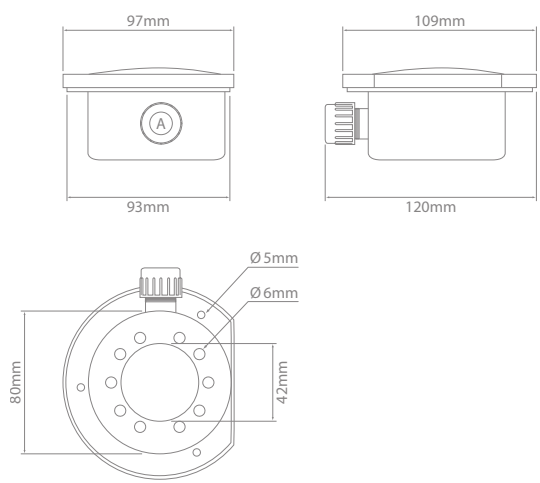
Fuel Junction

- Environmentally sealed – IP67.
- Integrated Threadconnect fitting.



IP67 Made in Europe

Body : Polyoxymethylene
 Seal : Perbunane
 Ingress Protection : IP67
 Operating Temperature : -25°C to 80°C



Fuel Junction Enclosure Kit

| Part No. | NW (A) | NC (A) |
|-------------|--------|--------|
| ST01 | 10 | 12 |

Kit contents: 1 x Housing, 1 x Lid Seal, 1 x Lid, 1 x Cap Nut, 1 x Conical Seal



Laser Engraving

Permanently engrave your company's logo on to almost any surface.

Laser engraving is a process where the laser beam physically removes the surface of the material to expose a cavity that reveals an image at eye level.

- Ideal for applications where the mark must be permanent e.g. anti-counterfeiting, serialisation.
- Mark any shape including text and barcodes.
- Incredible precision.
- Most metals and many non-metal materials.

Applications:



Date Codes & Batch Codes



Promotional Symbols/Icons



Primary GTIN Barcodes



Two Dimensional Codes

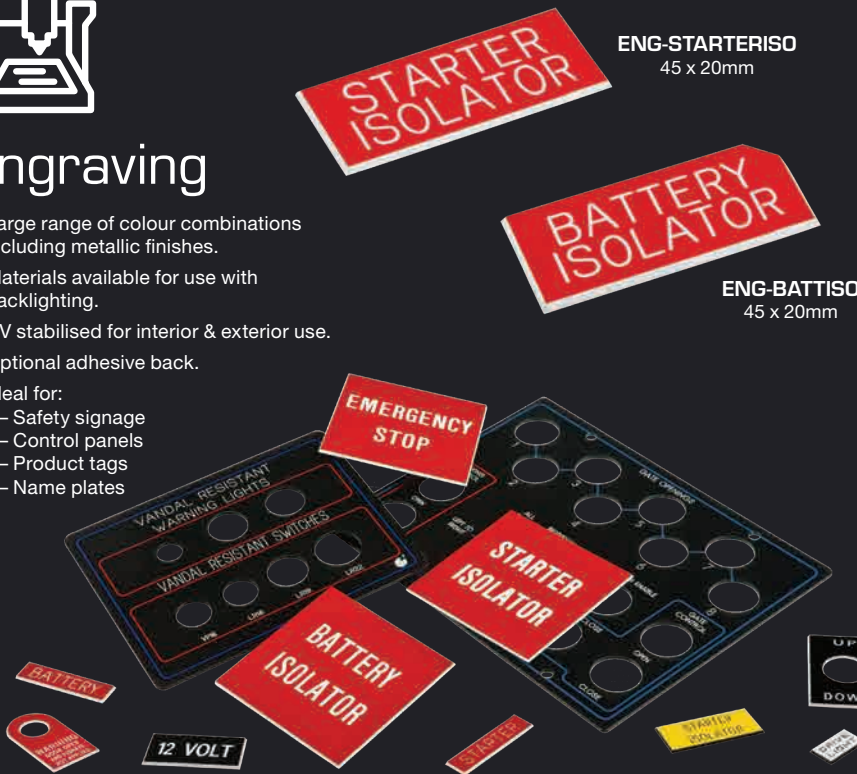


IONNIC Services



Engraving

- Large range of colour combinations including metallic finishes.
- Materials available for use with backlighting.
- UV stabilised for interior & exterior use.
- Optional adhesive back.
- Ideal for:
 - Safety signage
 - Control panels
 - Product tags
 - Name plates



ENG-STARTERISO
45 x 20mm

ENG-BATTISO
45 x 20mm



ENG-STARTER
40 x 10mm



ENG-BATTERY
40 x 10mm

Custom Engraving

Custom engraving is available for the creation of control panels and name plates up to a maximum size of 500mm x 380mm.

Choose from a large range of colours with some materials suitable for use with backlighting.

For further information ask your local reseller or enquire online at ionnic.com.

Circuit Breakers



Circuit Breakers



General 82



Switchable Circuit Breaker 85



Marine 86



Heavy Duty 88



Blade 90

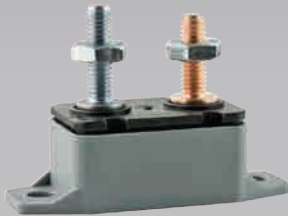
Circuit Breakers

General

CDM30



S5505



CB121-20

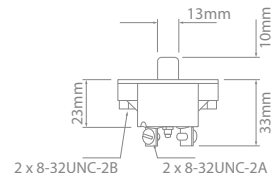
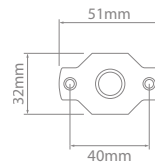
- Panel or surface mount option.
- Compact size.
- Manual or automatic reset methods.
- Broad operating temperature.
- Ideal for trucks, buses, RV's, portable generators, battery chargers.

| | | |
|-------------------------|---------------------|---------------|
| Material : | CDM, S55 Series | Thermoplastic |
| Ingress Protection : | CDM Series | IP66 |
| | S55 Series | IP54 |
| Approvals : | | SAE J1171 |
| | S55 Series | UL & CSA |
| | CDM, 121/123 Series | SAE J553 |
| Operating Temperature : | | -40°C to 85°C |



IP66

Made in North America

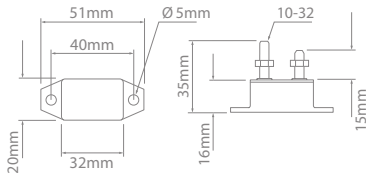


CDM Series – Panel Mount

| | | | | | | | | | |
|----------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Current Rating | | | | | | | | | |
| 3A | 5A | 10A | 15A | 20A | 25A | 30A | 40A | 50A | 60A |
| CDM03 | CDM05 | CDM10 | CDM15 | CDM20 | CDM25 | CDM30 | CDM40 | CDM50 | CDM60 |

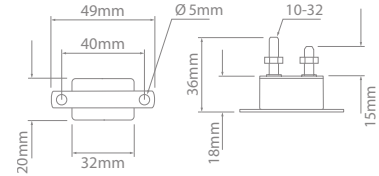
Manual reset.

Circuit Breakers



Bussmann®

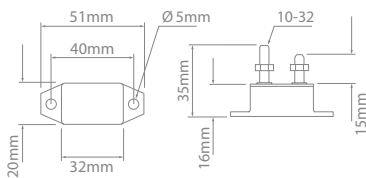
Made in North America



121 Series – Surface Mount

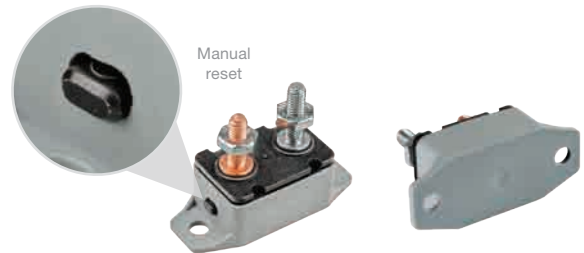
| Material | Current Rating | | | | | | | |
|----------|----------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| | 8A | 10A | 15A | 20A | 25A | 30A | 40A | 50A |
| Plastic | CB121-8 | CB121-10 | CB121-15 | CB121-20 | CB121-25 | CB121-30 | CB121-40 | CB121-50 |
| Metal | — | CB121-10M | CB121-15M | CB121-20M | CB121-25M | CB121-30M | CB121-40M | CB121-50M |

Also available in packs of 10. Add "/10" at the end of the part number, e.g. CB121-15/10.
Automatic reset.



Bussmann®

Made in North America



123 Series – Surface Mount

| Material | Current Rating | | | | | | | |
|----------|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| | 8A | 10A | 15A | 20A | 25A | 30A | 40A | 50A |
| Plastic | — | CB123-10 | CB123-15 | CB123-20 | CB123-25 | CB123-30 | CB123-40 | CB123-50 |

Manual reset.

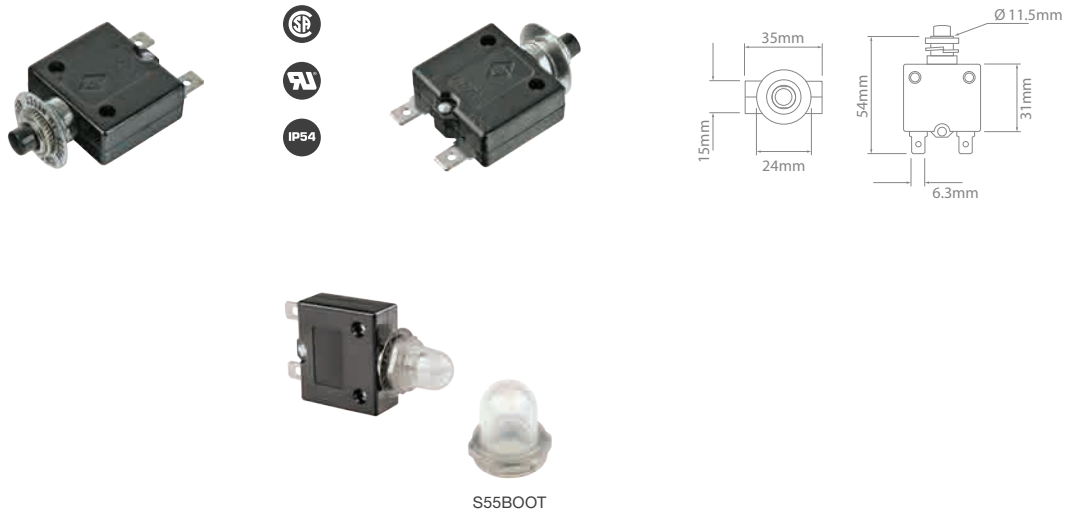


Accessories – 121/123 Series – Terminal Insulators

| | Pack Qty – 1 | Pack Qty – 10 | Pack Qty – 100 |
|-------|----------------------|------------------|-------------------|
| Red | CB121BOOT-RED | CB121R/10 | CB121R/100 |
| Black | CB121BOOT-BLK | CB121B/10 | CB121B/100 |



Circuit Breakers



S55 Series – Panel Mount

| 3A | 5A | 10A | Current Rating 15A | 20A | 25A | 30A |
|----------------|-----------------|--------------|-----------------------|--------------|--------------|--------------|
| S5503 | S5505 | S5510 | S5515 | S5520 | S5525 | S5530 |
| S55BOOT | Protective boot | | | | | |

Manual reset.

Circuit Breakers

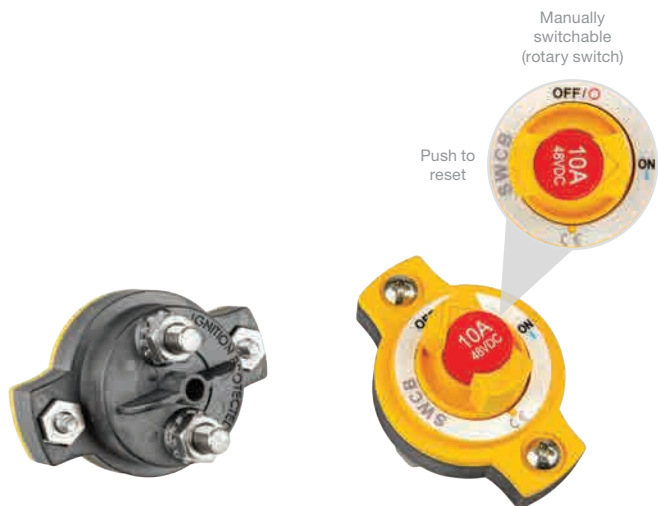
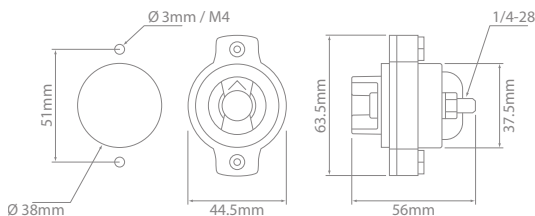
- 2 in 1 – switch / circuit breaker.
- Manually switchable (rotary switch).
- 48 VDC max. Easily supports 12, 24 and 36V systems.
- Robust construction, high shock and vibration resistance.
- Compact design.
- Environmentally sealed – IP67.
- 2-year warranty.



NEW

Switchable Circuit Breaker

Max. Voltage : 48V
 Housing : Thermoplastic
 Studs: Stainless Steel
 Ingress Protection : IP67
 Switching Cycles : >5,000 Cycles
 Approvals : CE, SAE J1455, SAE J553, J1171
 ISO 8846, UL 1500, MILSTD-202
 Operating Temperature : -40°C to 85°C



Switchable Circuit Breaker NEW

| 10A | 15A | 20A | 25A | Current Rating | 30A | 40A | 50A | 60A | 70A |
|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|
| CBS-10 | CBS-15 | CBS-20 | CBS-25 | CBS-30 | CBS-40 | CBS-50 | CBS-60 | CBS-70 | CBS-70 |

Manual reset.



Circuit Breakers

Marine

CB255-10



CB187F-100

Made in North America

IP66

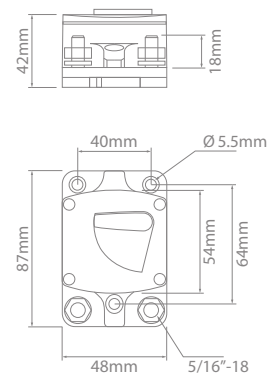
- Marine rated.
- Stainless steel hardware.
- Panel or surface mount options.
- Switchable.
- Broad operating temperature.
- Environmentally sealed – IP66.
- Ideal for marine applications, trucks, buses, RV's.
- Made in North America.

Material :
Approvals :

187F Series
255 Series

Thermoplastic
SAE J1171
SAE J1625, CE
SAE J553
IP66
-40°C to 85°C

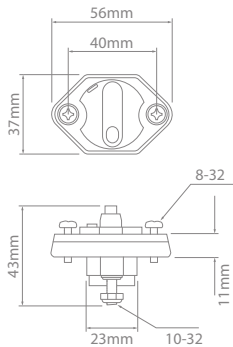
Ingress Protection :
Operating Temperature :



187F Series – Surface Mount

| 30A | 40A | Current Rating 50A | 60A | 70A |
|------------------|-------------------|-----------------------|-------------------|-------------------|
| CB187F-30 | CB187F-40 | CB187F-50 | CB187F-60 | CB187F-70 |
| 80A | 100A | 120A | 150A | 200A |
| CB187F-80 | CB187F-100 | CB187F-120 | CB187F-150 | CB187F-200 |

Switchable.



255 Series – Panel Mount

| 10A | | 15A | | 20A | | Current Rating | | 30A | | 35A | | 40A | | 50A | |
|-----------------|--|-----------------|--|-----------------|--|-----------------|-----------------|-----------------|--|-----------------|--|-----------------|--|-----------------|--|
| CB255-10 | | CB255-15 | | CB255-20 | | CB255-25 | CB255-25 | CB255-30 | | CB255-35 | | CB255-40 | | CB255-50 | |

Switchable.



Circuit Breakers

Heavy Duty



SDLM105



CB185F-30



CB184P-120



- Panel or surface mount option.
- Manual reset and switchable models.
- Broad operating temperature.
- Environmentally sealed – IP67 (184/185 Series).
- Ideal for trucks, buses, RV's, marine, battery chargers, DC audio systems.
- 184P & 185F Series made in North America.

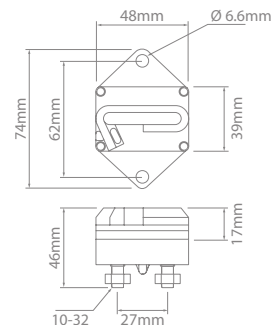
Material : Thermoset Plastic
 Ingress Protection : 184/185 Series IP67
 Approvals : CE, SAE J1625
 Operating Temperature : 184/185 Series -40°C to 85°C



IP67



Made in North America

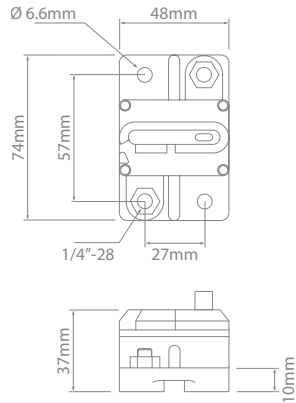


184P Series – Panel Mount

| Current Rating | | |
|----------------|------------|------------|
| 80A | 100A | 120A |
| CB184P-80 | CB184P-100 | CB184P-120 |

Manual Reset.

Circuit Breakers



Made in North America

Switchable –
press to trip



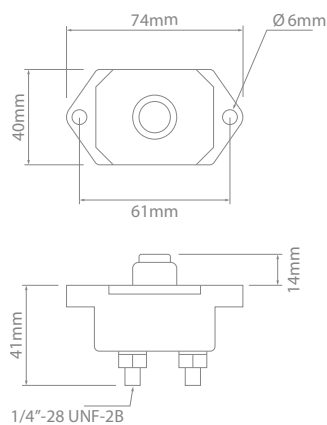
IP67



185F Series – Surface Mount

| 30A | 40A | 50A | 60A | Current Rating 70A | 80A | 100A | 120A | 150A |
|------------------|------------------|------------------|------------------|-----------------------|------------------|-------------------|-------------------|-------------------|
| CB185F-30 | CB185F-40 | CB185F-50 | CB185F-60 | CB185F-70 | CB185F-80 | CB185F-100 | CB185F-120 | CB185F-150 |

Switchable.



IP67



SDLM Series – Panel Mount

| Current Rating | | | | | |
|----------------|---------------|---------------|----------------|----------------|----------------|
| 50A | 60A | 80A | 105A | 135A | 150A |
| SDLM50 | SDLM60 | SDLM80 | SDLM105 | SDLM135 | SDLM150 |

Manual Reset.

Not a Bussmann product.



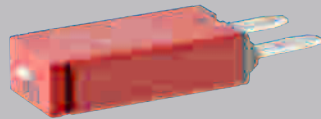
Circuit Breakers

Blade

CB227-15



CB192-30M

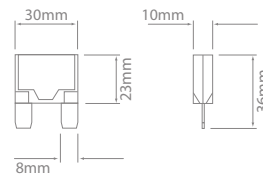
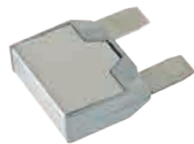


CB233-10

Made in North America

- Replaces standard blade fuse types.
- Manual or modified reset models.
- Broad operating temperature.
- Ideal for passenger cars, trucks, buses, RV's.
- ATC & ATM series colour-coded to current rating.
- Made in North America.

| | | |
|--------------------------------|-------------------|-------------------------|
| Material : | Housing | Thermoplastic |
| | Terminals | Tin-plated Copper Alloy |
| Approvals : | Maxi & ATC Series | SAE J553 |
| | | SAE J1171 |
| Operating Temperature : | | -40°C to 85°C |

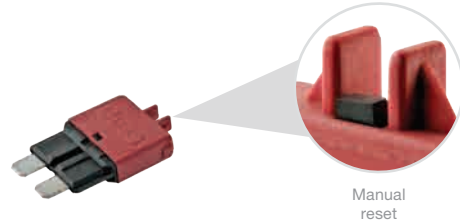
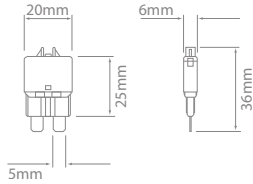


Maxi (MAX)

| | |
|------------------|--------------------|
| Pack Qty - 1 | Current Rating (A) |
| CB192-20M | 20 |
| CB192-30M | 30 |

Modified Reset.

Circuit Breakers

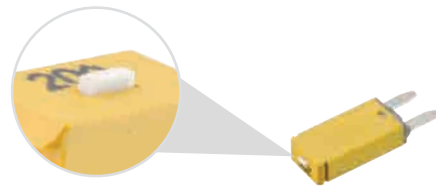
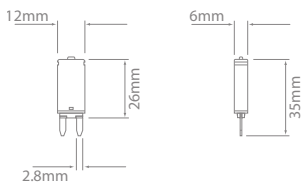


Manual reset

ATC

| Pack Qty – 1 | Pack Qty – 10 | Current Rating (A) | Colour |
|------------------|---------------------|--------------------|--------|
| CB227-5 | CB227-5/10 | 5 | Tan |
| CB227-7.5 | CB227-7.5/10 | 7.5 | Brown |
| CB227-10 | CB227-10/10 | 10 | Red |
| CB227-15 | CB227-15/10 | 15 | Blue |
| CB227-20 | CB227-20/10 | 20 | Yellow |
| CB227-25 | CB227-25/10 | 25 | White |
| CB227-30 | CB227-30/10 | 30 | Green |

Manual Reset.



Manual reset

Mini (ATM)

| Pack Qty – 1 | Pack Qty – 10 | Current Rating (A) | Colour |
|------------------|---------------------|--------------------|--------|
| CB233-5 | CB233-5/10 | 5 | Tan |
| CB233-7.5 | CB233-7.5/10 | 7.5 | Brown |
| CB233-10 | CB233-10/10 | 10 | Red |
| CB233-15 | CB233-15/10 | 15 | Blue |
| CB233-20 | CB233-20/10 | 20 | Yellow |
| CB233-25 | CB233-25/10 | 25 | White |
| CB233-30 | CB233-30/10 | 30 | Green |

Manual Reset.




Fuses & Fuse Holders




Fuses & Fuse Holders

 Fuses **94**


 Fuse & Relay Holder Kits **98**


 Fuse Holders **100**

 Blade Fuse Taps **103**

 Blade Fuse Panels **104**

 Weatherproof Fuse Panels **108**

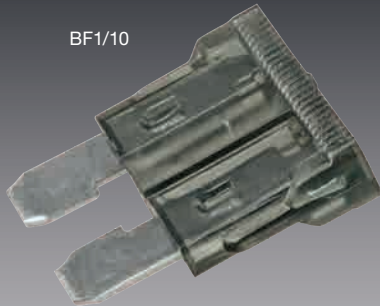
 Fuse & Relay Enclosure Kits **110**

 Modular MFL Fuse Holder **115**

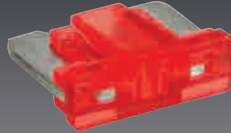
 Mini Electrical Centres **116**

Fuses & Fuse Holders

Fuses



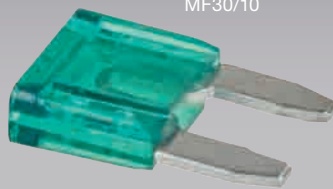
BF1/10



MCBF10/10



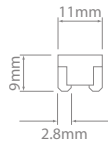
M2F20/10



MF30/10

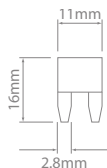
- Wide range of fuse types and current ratings.
- Assortment kits available.
- Colour coded to industry standards.

Blade – Micro (ATM-LP)



| Pack Qty – 10 | Current Rating (A) | Colour |
|-------------------|--------------------|--------|
| MCBF5/10 | 5 | Orange |
| MCBF7.5/10 | 7.5 | Brown |
| MCBF10/10 | 10 | Red |
| MCBF15/10 | 15 | Blue |
| MCBF20/10 | 20 | Yellow |
| MCBF25/10 | 25 | Clear |
| MCBF30/10 | 30 | Green |

Blade – Mini (ATM)

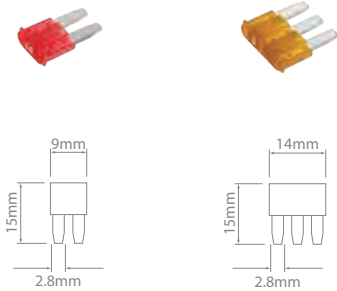


| Pack Qty – 10 | Pack Qty – 100 | Current Rating (A) | Colour |
|-----------------|------------------|--------------------|------------|
| MF2/10 | MF2/100 | 2 | Grey |
| MF3/10 | MF3/100 | 3 | Purple |
| MF4/10 | MF4/100 | 4 | Pink |
| MF5/10 | MF5/100 | 5 | Orange |
| MF7.5/10 | MF7.5/100 | 7.5 | Brown |
| MF10/10 | MF10/100 | 10 | Red |
| MF15/10 | MF15/100 | 15 | Blue |
| MF20/10 | MF20/100 | 20 | Yellow |
| MF25/10 | MF25/100 | 25 | Clear |
| MF30/10 | MF30/100 | 30 | Green |
| MF35/10 | MF35/100 | 35 | Dark Green |

Fuses & Fuse Holders

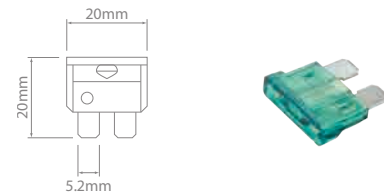
Blade – Micro 2/3 Blade (ATR & ATL)

| ATR (2 Blade) Pack Qty – 10 | ATL (3 Blade) Pack Qty – 10 | Current Rating (A) | Colour |
|--------------------------------|--------------------------------|--------------------|--------|
| M2F5/10 | M3F-5/10 | 5 | Tan |
| M2F7.5/10 | M3F-7.5/10 | 7.5 | Brown |
| M2F10/10 | M3F-10/10 | 10 | Red |
| M2F15/10 | M3F-15/10 | 15 | Blue |
| M2F20/10 | – | 20 | Yellow |
| M2F25/10 | – | 25 | Clear |
| M2F30/10 | – | 30 | Green |



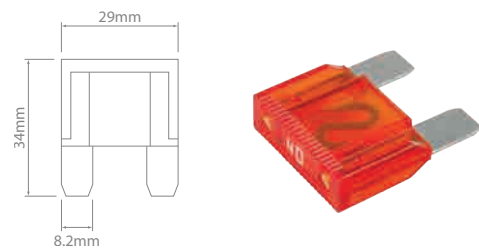
Blade (ATO/ATS)

| Pack Qty – 10 | Pack Qty – 100 | Current Rating (A) | Colour |
|-----------------|------------------|--------------------|-------------|
| BF1/10 | – | 1 | Black |
| BF2/10 | BF2/100 | 2 | Grey |
| BF3/10 | BF3/100 | 3 | Purple |
| BF4/10 | BF4/100 | 4 | Pink |
| BF5/10 | BF5/100 | 5 | Orange |
| BF7.5/10 | BF7.5/100 | 7.5 | Brown |
| BF10/10 | BF10/100 | 10 | Red |
| BF15/10 | BF15/100 | 15 | Blue |
| BF20/10 | BF20/100 | 20 | Yellow |
| BF25/10 | BF25/100 | 25 | Clear |
| BF30/10 | BF30/100 | 30 | Green |
| BF40/10 | BF40/100 | 40 | Dark Orange |



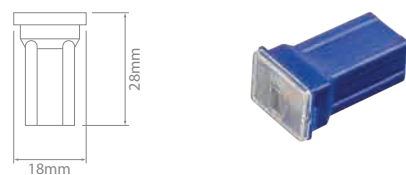
Blade – Maxi (MAX)

| Part No. | Current Rating (A) | Colour |
|--------------|--------------------|--------|
| MB20 | 20 | Yellow |
| MB30 | 30 | Green |
| MB40 | 40 | Orange |
| MB50 | 50 | Red |
| MB60 | 60 | Blue |
| MB70 | 70 | Brown |
| MB80 | 80 | Clear |
| MB100 | 100 | Pink |



Fuse Link – Mini (MFL)

| Part No. | Current Rating (A) | Colour |
|----------------|--------------------|------------|
| MFL20A | 20 | Light-Blue |
| MFL30A | 30 | Pink |
| MFL40A | 40 | Green |
| MFL50A | 50 | Red |
| MFL60A | 60 | Yellow |
| MFL80A | 80 | Black |
| MFL100A | 100 | Blue |



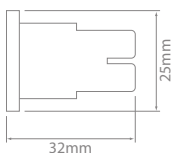
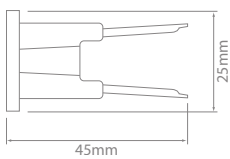
Fuses & Fuse Holders



Male

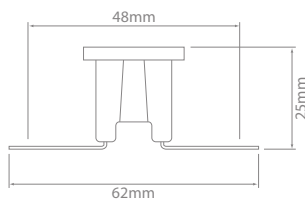
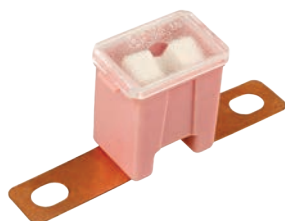


Female



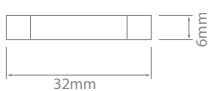
Fuse Link (FLM & FLF)

| Male | Female | Current Rating (A) | Colour |
|----------------|----------------|--------------------|--------|
| FLM20A | FLF20A | 20 | White |
| FLM30A | FLF30A | 30 | Pink |
| FLM40A | FLF40A | 40 | Green |
| FLM50A | FLF50A | 50 | Red |
| FLM60A | FLF60A | 60 | Yellow |
| FLM80A | FLF80A | 80 | Black |
| FLM100A | FLF100A | 100 | Blue |



Fuse Link - Flat (MFFL)

| Part No. | Current Rating (A) | Colour |
|-----------------|--------------------|--------|
| MFFL20A | 20 | White |
| MFFL30A | 30 | Pink |
| MFFL40A | 40 | Green |
| MFFL50A | 50 | Red |
| MFFL60A | 60 | Yellow |
| MFFL80A | 80 | Black |
| MFFL100A | 100 | Blue |



Glass (3AG)

| Pack Qty - 10 | Current Rating (A) |
|-----------------|--------------------|
| 3AG1/10 | 1 |
| 3AG3/10 | 3 |
| 3AG25/10 | 25 |
| 3AG30/10 | 30 |
| 3AG35/10 | 35 |

Fuses & Fuse Holders



BF-KIT



MF-KIT



MCBF-KIT



M2F-KIT



CBF-KIT

Fuse Assortment Kits

| Part No. | Fuse Type | Contents | | |
|-----------------|---|--|--|---|
| BF-KIT | Blade (ATO/ATS) | 20 x 5A Fuses 20 x 10A Fuses 20 x 15A Fuses 20 x 20A Fuses 20 x 25A Fuses 20 x 30A Fuses | | |
| MF-KIT | Blade – Mini (ATM) | 10 x 5A Fuses 10 x 7.5A Fuses 20 x 10A Fuses 20 x 15A Fuses 20 x 20A Fuses 10 x 25A Fuses 10 x 30A Fuses | | |
| MCBF-KIT | Blade – Micro (ATM-LP) | 20 x 5A Fuses 20 x 10A Fuses 20 x 15A Fuses 20 x 20A Fuses 20 x 25A Fuses 20 x 30A Fuses | | |
| M2F-KIT | Blade (ATR) Fuse Link (FMM) Blade (ATL) | 10 x 5A ATR Fuses 10 x 7.5A ATR Fuses 10 x 10A ATR Fuses 10 x 15A ATR Fuses 10 x 20A ATR Fuses 10 x 25A ATR Fuses 10 x 30A ATR Fuses | 5 x 15A FMM Fuse Links 5 x 20A FMM Fuse Links 5 x 25A FMM Fuse Links 5 x 30A FMM Fuse Links 5 x 40A FMM Fuse Links | 10 x 5A ATL 3 Blade Fuses 10 x 7.5A ATL 3 Blade Fuses 10 x 10A ATL 3 Blade Fuses 10 x 15A ATL 3 Blade Fuses 1 x Fuse Extractor Tool |
| CBF-KIT | Blade (ATO/ATS) Blade – Mini (ATM) Blade – Micro (ATM-LP) | 10 x 10A ATO/ATS Fuses 10 x 15A ATO/ATS Fuses 10 x 20A ATO/ATS Fuses 10 x 25A ATO/ATS Fuses 10 x 30A ATO/ATS Fuses | 20 x 10A ATM Fuses 20 x 15A ATM Fuses 20 x 20A ATM Fuses 20 x 25A ATM Fuses 20 x 30A ATM Fuses | 20 x 10A ATM-LP Fuses 20 x 15A ATM-LP Fuses 20 x 20A ATM-LP Fuses 20 x 25A ATM-LP Fuses 20 x 30A ATM-LP Fuses |



Fuses & Fuse Holders

Fuse & Relay Holder Kits

NEW



Made in Europe

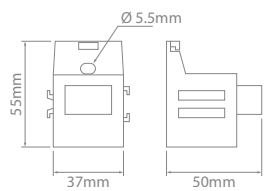
- FH602 & FH603 kits can seal to IP67 when used with a Microplex CAN Controller or 280 Series relays.
- Bases can be linked together using interconnecting guides.
- Kits supplied with all required components including contacts, seals and cavity plugs.
- Locking bracket can be easily released – no tools required.
- 12 cavity mounting bases suiting 2.8mm blade size.
- Suitable for Mini (ATM) fuses & circuit breakers, 280 Series micro relays, and IONNIC's Microplex CAN Controllers.
- Made in Europe.

Housing : PA66 Nylon
 Ingress Protection : FH602-KIT, FH603-KIT IP67
 Melting Temperature : 260°C

Bases feature interconnecting guides allowing bases to be easily joined



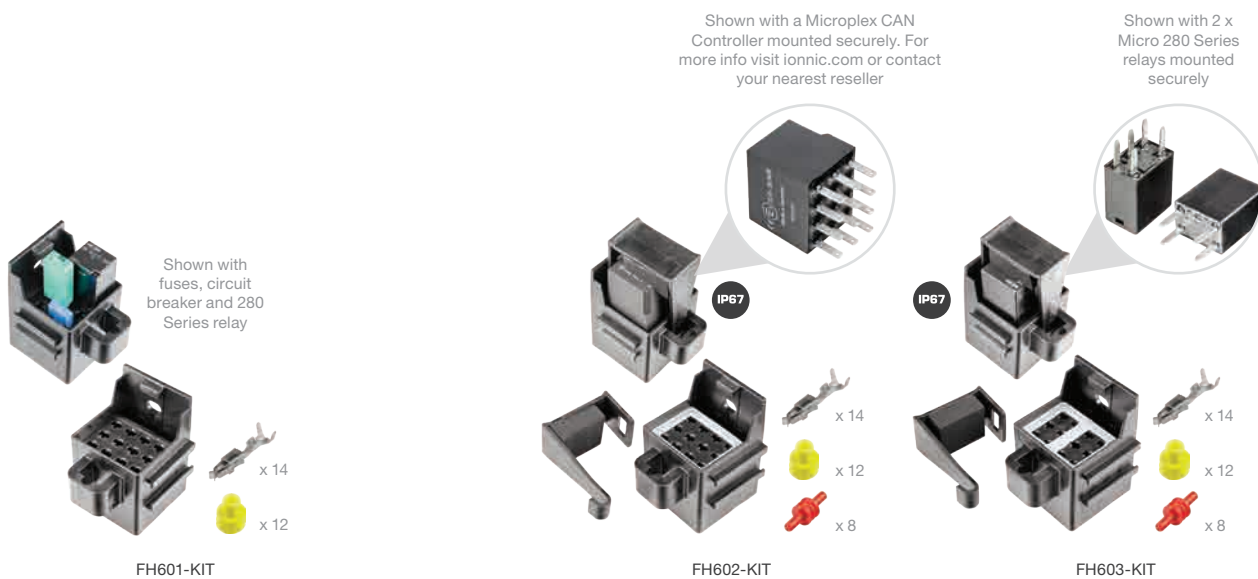
Watertight seal included in the FH602 & FH603 kits



Watch a hands-on video showcasing the holders and kit combinations. See more product videos on the ionnic YouTube channel.

Watch video

Fuses & Fuse Holders



Fuse & Relay Holder Kits – 600 Series

NEW

FH601-KIT



- 1 x Mounting Base
- 14 x Contacts (929939-3)
- 12 x Wire Seal (281934-2)

FH602-KIT

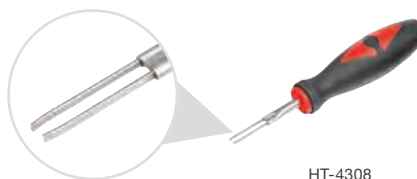
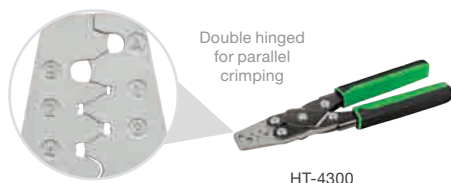


- 1 x Mounting Base
- 1 x Seal
- 1 x Locking Bracket
- 14 x Contacts (929939-3)
- 12 x Wire Seal (281934-2)
- 8 x Cavity Plug (WS1008)

FH603-KIT



- 1 x Mounting Base
- 1 x Seal – Twin
- 1 x Locking Bracket
- 14 x Contacts (929939-3)
- 12 x Wire Seal (281934-2)
- 8 x Cavity Plug (WS1008)



Fuse & Relay Holder Kits – Accessories

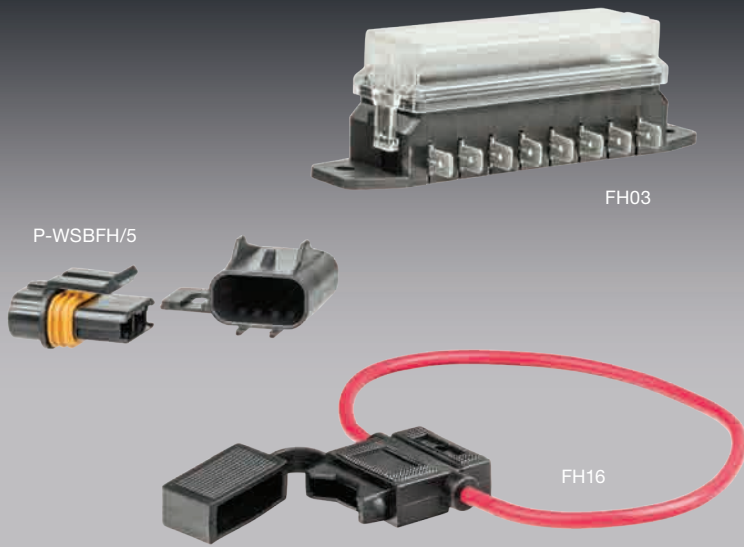
NEW

| Part No. | Description | Blade Size (mm) | Wire Size (mm ²) | Cable O.D. Range (mm) | Pack Qty |
|-----------------------|--|-----------------|------------------------------|-----------------------|----------|
| 927779-3/100 | Contacts | 2.8 | 0.5 – 1.0 | 1.4 – 2.3 | 100 |
| 929939-3/100 | Contacts | 2.8 | 0.5 – 1.0 | 1.4 – 3.4 | 100 |
| WS1009/100 | Wire Seal – Ø 5.2mm. Blue | | | 1.2 – 1.7 | 100 |
| P-15324973/100 | Wire Seal – Ø 5.2mm. Red | | | 2.03 – 2.85 | 100 |
| 281934-2/100 | Wire Seal – Ø 5.7mm. Yellow | | | 1.7 – 2.4 | 100 |
| WS1008/100 | Cavity Plug – Ø 5.2mm. Burgundy | | | — | 100 |
| HT-4300 | Crimper – 0.35, 0.5–0.8, 1.0–2.0, 3.0mm ² | | | | |
| HT-4308 | Contact remover | | | | |

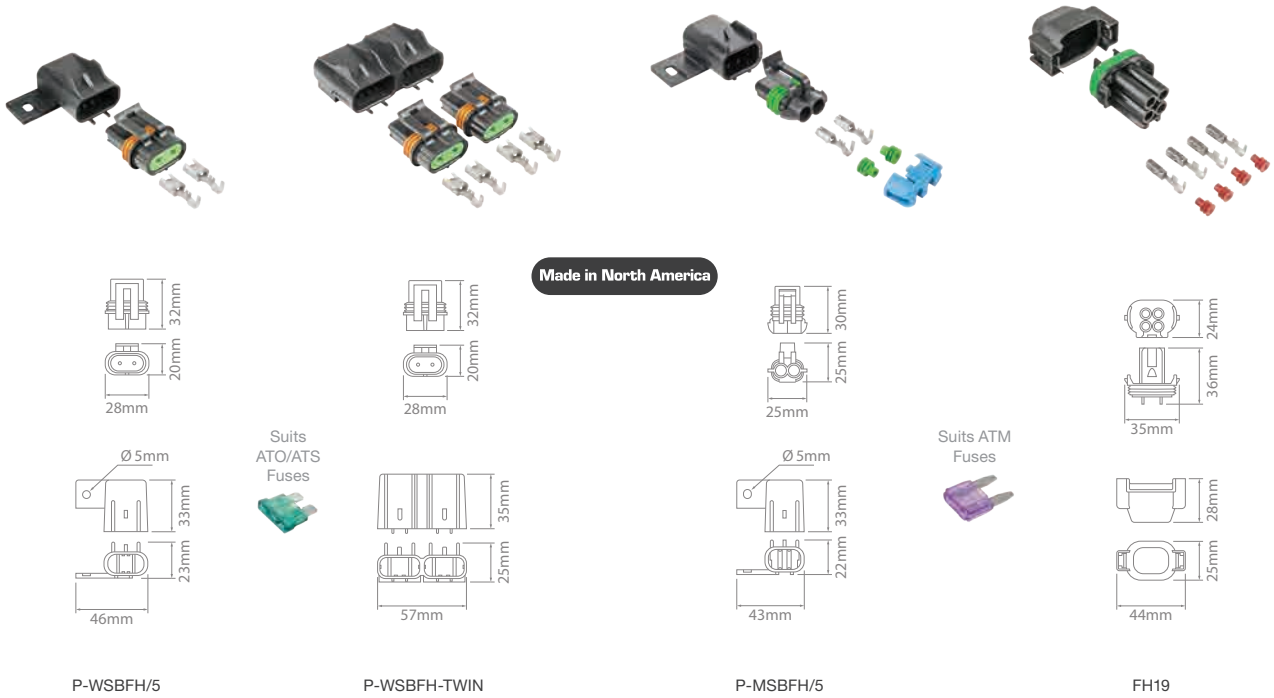


Fuses & Fuse Holders

Fuse Holders



- Wide variety of styles for both blade and glass fuse types.
- Weatherproof kits available in single or double housing.
- Clear polycarbonate covers on Lateral & Axial Fuse Holders provides protection & easy visual inspection.



Fuse Holders – Blade – Weatherproof Kits

| Part No. | Housing Type | Seats | Output Current Rating Per Terminal (A) | Kit Contents |
|---------------------|--------------|-------------|--|--|
| P-WSBFH/5 | Mountable | 1 x ATO/ATS | 30 | 5 x Cover (12033731) 10 x Contacts (12066614) 5 x Fuse Holder (12033769) |
| P-WSBFH-TWIN | Double | 2 x ATO/ATS | 30 | 1 x Cover (12059426) 4 x Contacts (12066614) 2 x Fuse Holder (12033769) |
| P-MSBFH/5 | Mountable | 1 x ATM | 20 | 5 x Cover (15300027C) 10 x Contacts (12129493) 5 x Retainers (15300014) 5 x Fuse Holder (15300027) 10 x Seals (15324982) |
| FH19 | Mountable | 2 x ATM | 20 | 1 x Cover (2066502-3) 4 x Contacts (968857-1) 1 x Fuse Holder (2066046-2) 4 x Seals (P-15324973) |

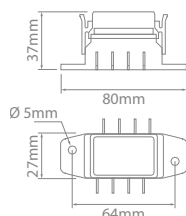
Fuses & Fuse Holders



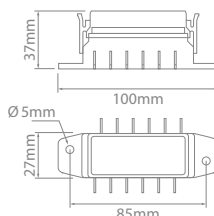
Lateral Blade Fuse Holders
– Side entry terminals

Made in Europe

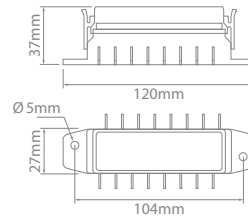
Suits
ATO/ATS
Fuses



FH01



FH02



FH03

Fuse Holders – Blade – Lateral

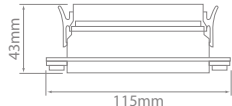
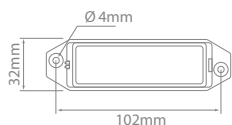
| Part No. | Seats | Output Current Rating Per Terminal (A) |
|----------|-------------|---|
| FH01 | 4 x ATO/ATS | 30 |
| FH02 | 6 x ATO/ATS | 30 |
| FH03 | 8 x ATO/ATS | 30 |



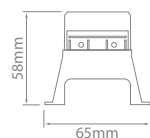
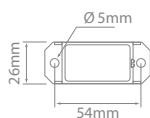
Made in Europe

Suits
ATO/ATS
Fuses

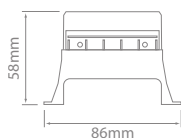
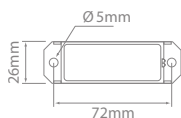
FH04 has 2 x M5 nuts
moulded to case for
through-panel mounting



FH04



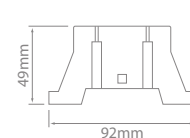
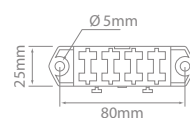
FH05



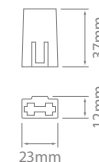
FH06



Interlocking slots
allows holders to
be securely linked



FH07



P-12010105

Fuse Holders – Blade – Axial

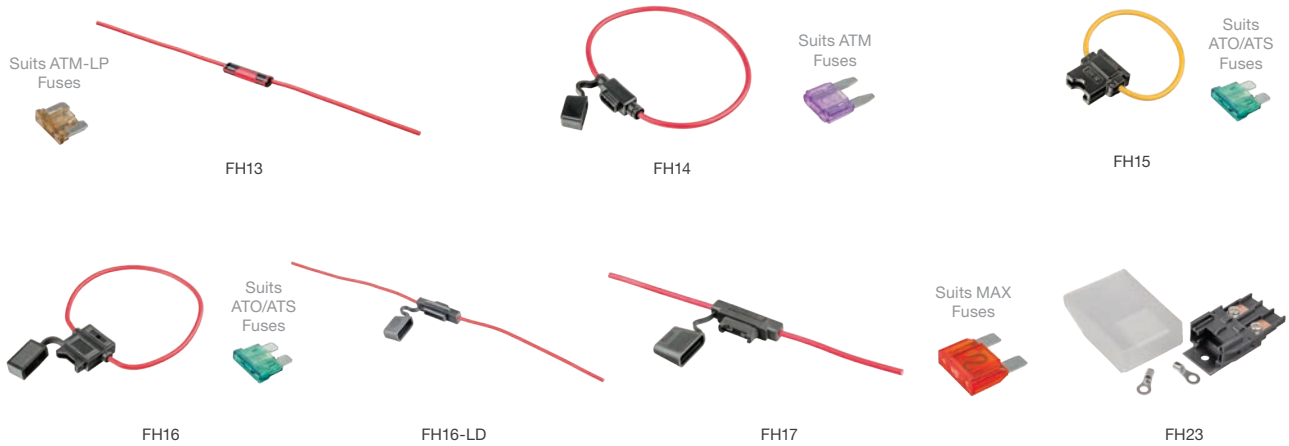
| Part No. | Seats | Output Current Rating Per Terminal (A) |
|------------|-------------|---|
| FH04 | 8 x ATO/ATS | 20 |
| FH05 | 4 x ATO/ATS | 20 |
| FH06 | 6 x ATO/ATS | 20 |
| FH07 | 4 x ATO/ATS | 20 |
| P-12010105 | 1 x ATO/ATS | 20 |

Supplied with contacts: 4 x 3–5mm², 4 x 3–5mm² bussed

For use with contact P-12020321/100



Fuses & Fuse Holders



Fuse Holders – Blade

| Part No. | Seats | Current Rating (A) | AWG | Wire Size (mm ²) | Wire Length (mm) |
|----------------|--------------------|--------------------|--|------------------------------|------------------|
| FH13 | 1 x Micro (ATM-LP) | 30 | 12 | 3.3 | 300 |
| FH14 | 1 x Mini (ATM) | 30 | 12 | 3.3 | 300 |
| FH15 | 1 x (ATO/ATS) | 30 | 12 | 3.3 | 180 |
| FH16 | 1 x (ATO/ATS) | 40 | 12 | 3.3 | 300 |
| FH16-LD | 1 x (ATO/ATS) | 20 | 16 | 1.5 | 300 |
| FH17 | 1 x Maxi (MAX) | 60 | 8 | 8.3 | 260 |
| FH23 | 1 x Maxi (MAX) | 50 | Ring terminals 2.5–6mm ² . Ø6mm mounting hole. Protective cover | | |



FH210A-LD

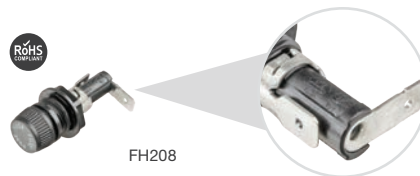


H3376



FH211

Suits Glass (3AG) Fuses



FH208

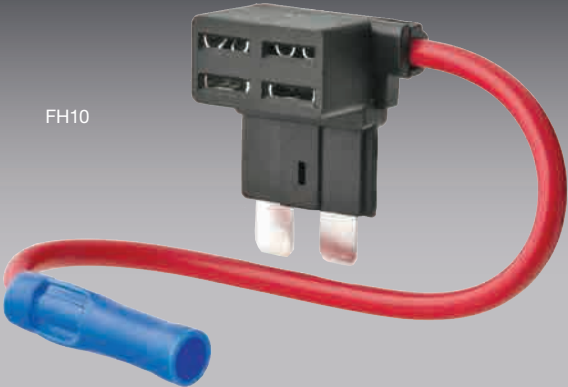
6.3mm Blade

Fuse Holders – Glass (3AG)

| Part No. | Style | Seats | Current Rating (A) | AWG | Wire Size (mm ²) | Wire Length (mm) |
|------------------|----------------|-------|--------------------|-------------------------|------------------------------|------------------|
| FH210A-LD | Inline | 1 | 20 | 14 | 4 | 160 |
| H3376 | Inline, hinged | 1 | 30 | 18–12 | 1–4.5 | |
| FH211 | Inline | 1 | 30 | Water resistant, rubber | | |
| FH208 | Panel Mount | 1 | 16 | Mounting Hole – 15mm | | |

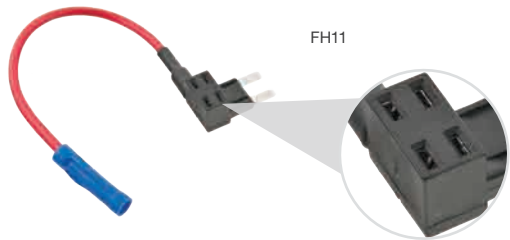
Fuses & Fuse Holders

- Provides an additional protected circuit without splicing or soldering.
- Easy & safe installation.
- Seamless barrel crimp terminal on fly lead.
- Models suiting standard, mini or micro blade fuses.

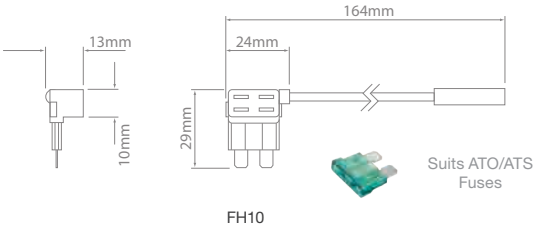


FH10

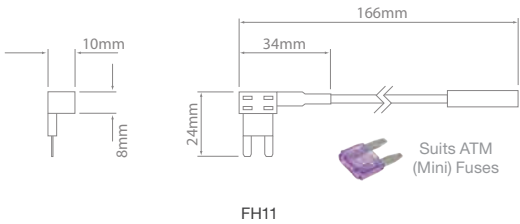
Current Rating : 10A per circuit
 Cable Size : 4mm/1.84mm²



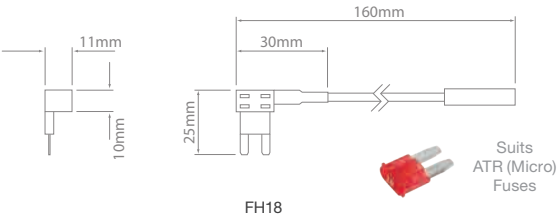
FH11



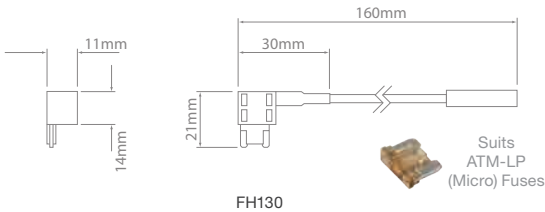
FH10



FH11



FH18



FH130

Blade Fuse Taps

| | | | | |
|----------|-------------|----------------|-------------------|--------------------|
| Seats | 2 x ATO/ATS | 2 x ATM (Mini) | 2 x ATR (Micro 2) | 2 x ATM-LP (Micro) |
| Part No. | FH10 | FH11 | FH18 | FH130 |



Fuses & Fuse Holders

Blade Fuse Panels



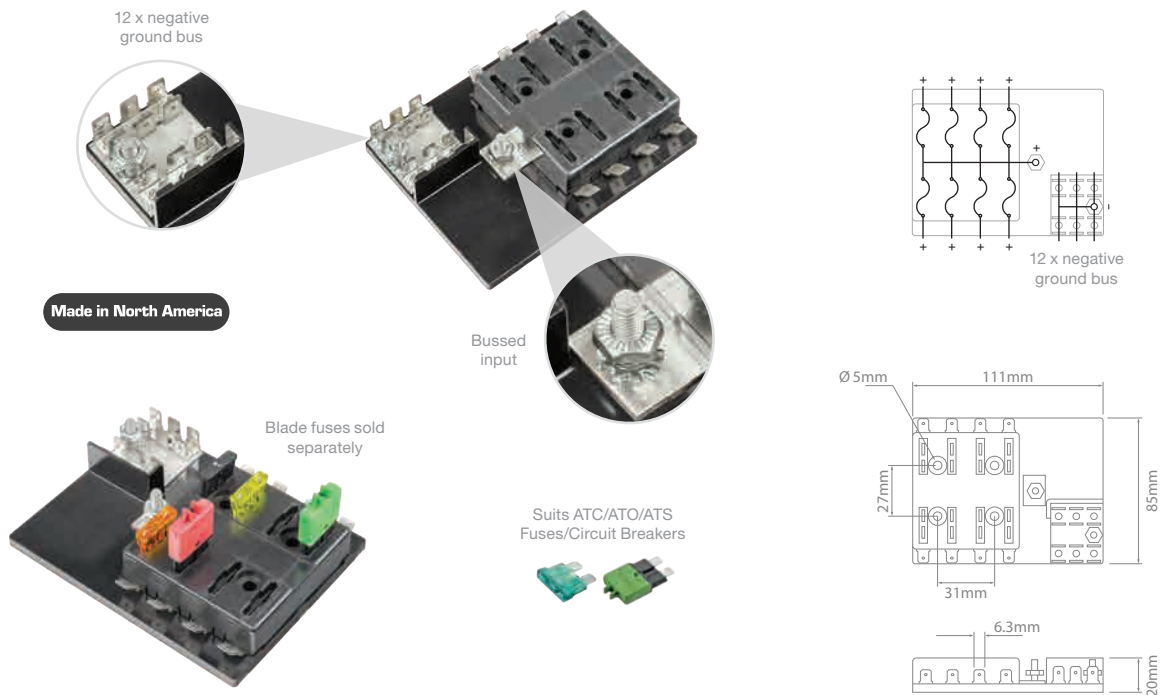
FH406



FH108

- 4, 6, 8 or 12 fuse models.
- All models include busbed input.
- Suits ATC/ATO/ATS fuses/circuit breakers.
- 6.3mm blade or M4 screw terminals.
- 6 or 12 circuit negative ground bus on select models.
- Inbuilt negative busbar popular in marine applications where ground returns need to run back to the battery.
- Ideal for use with trucks, buses, boats & RV's.
- Marine models feature:
 - Dual inputs for power.
 - 84 icon decal set.
 - Lockable splash covers.
 - Hold 2 spare fuses inside cover.

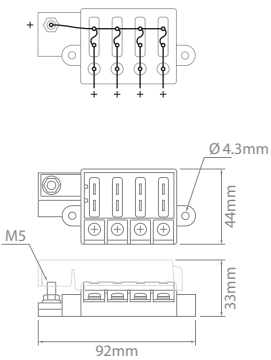
Housing : Thermoplastic
 Cover : Polycarbonate
 Terminals : Tin/Nickel-plated Copper
 Operating Temperature : -20°C to 85°C
 FH406 & FH412 -25°C to 60°C



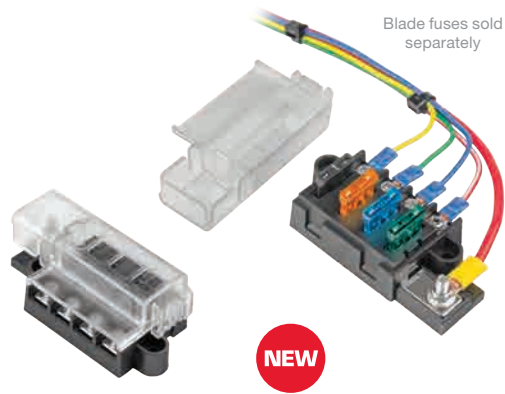
Blade Fuse Panels

| Part No. | Seats | Ground Bus | Terminals | Max Total Input Rating (A) | Max. Output Rating Per Terminal (A) |
|----------|-----------------|-------------|-------------|----------------------------|-------------------------------------|
| FH108 | 8 x ATC/ATO/ATS | 12 circuits | 6.3mm Blade | 100 | 30 |

Fuses & Fuse Holders

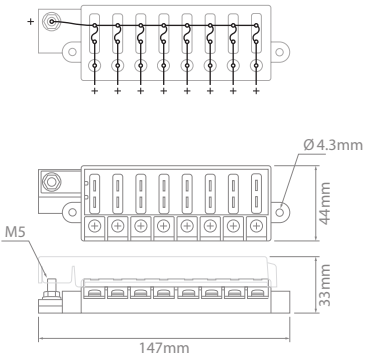


Seats 4 x ATO/ATS Fuses



Blade fuses sold separately

FH404



Seats 8 x ATO/ATS Fuses



Blade fuses sold separately

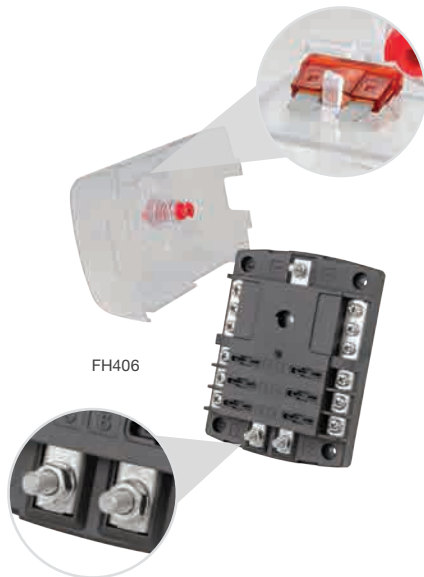
FH408

Blade Fuse Panels cont. NEW

| Part No. | Seats | Terminals | Max. Total Input Rating (A) | Max. Output Rating Per Terminal (A) |
|--------------|-------------|-----------|-----------------------------|-------------------------------------|
| FH404 | 4 x ATO/ATS | M4 Screw | 100 | 40 |
| FH408 | 8 x ATO/ATS | M4 Screw | 100 | 40 |



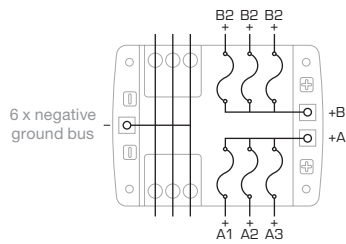
Fuses & Fuse Holders



FH406

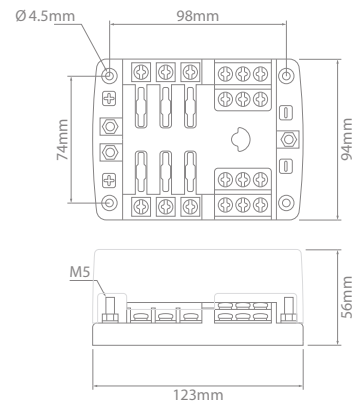
Dual bussed inputs for power on both Marine models

Holds 2 spare fuses inside of cover



Made in Europe

Suits ATC/ATO/ATS Fuses/Circuit Breakers



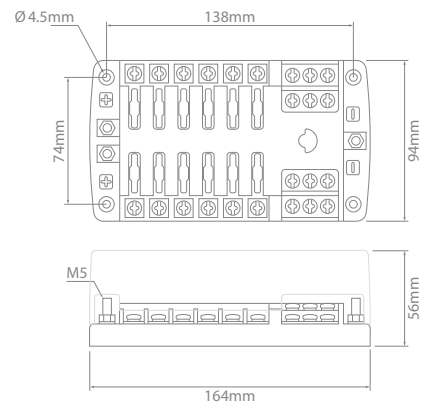
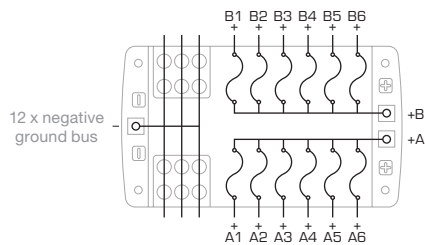
Marine Fuse Panels supplied with 84 icon decal set



FH412

Lockable splash cover

Made in Europe



Blade Fuse Panels – Marine

| Part No. | Seats | Ground Bus | Terminals | Max Total Input Rating (A) | Max. Output Rating Per Terminal (A) |
|----------|------------------|-------------|-------------|----------------------------|-------------------------------------|
| FH406 | 6 x ATC/ATO/ATS | 6 circuits | 4.3mm Screw | 100 | 30 |
| FH412 | 12 x ATC/ATO/ATS | 12 circuits | 4.3mm Screw | 100 | 30 |

Supplied with 84 icon decal set.

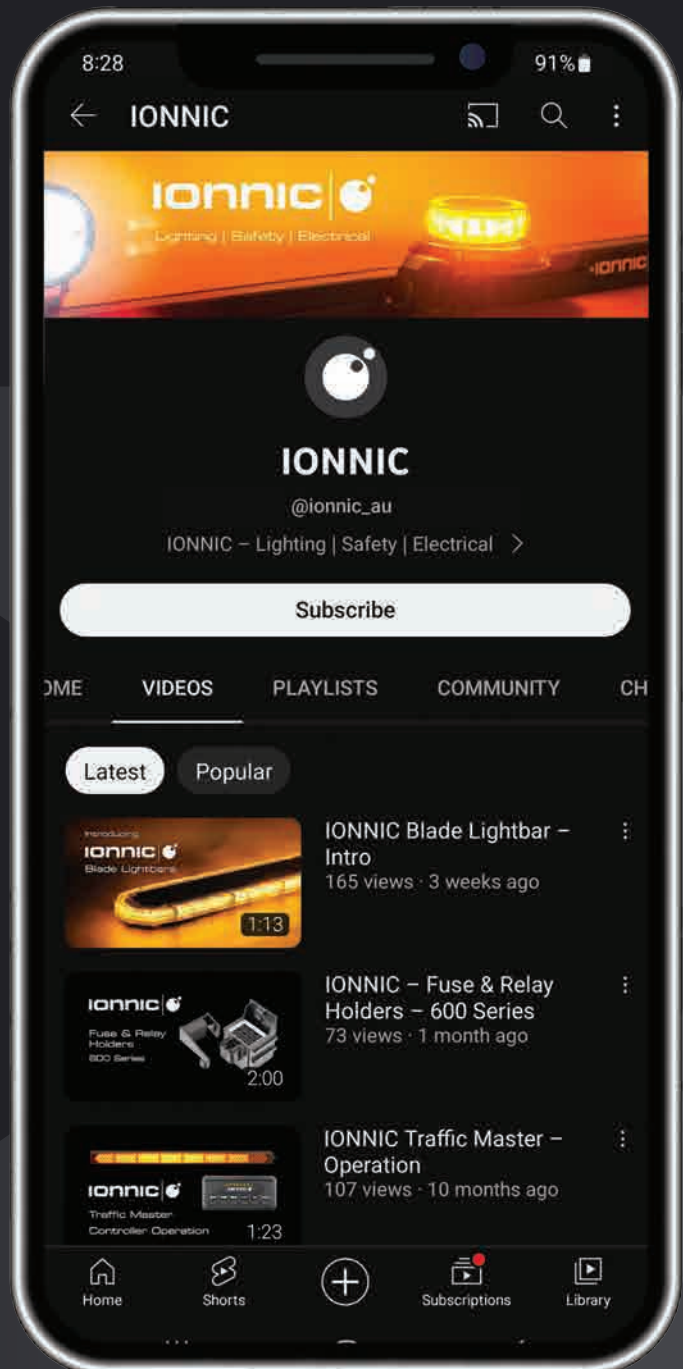
IONNIC YouTube Channel



Product videos,
configuration tutorials
and more



 **SUBSCRIBE**



Fuses & Fuse Holders

Weatherproof Fuse Panels



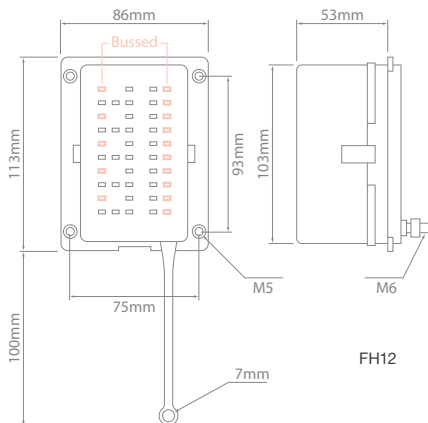
Made in North America IP66

- Mini blade circuit breakers/fuses and micro relay panels.
- Efficient power distribution in a rugged compact form for applications in marine, construction, agriculture, heavy trucking, specialty vehicles.
- Weatherproof enclosure – IP66, when cover, cable seals, and cavity plugs are installed.
- Bussed (FH12) or non-bussed (FH20).
- Broad operating temperature.
- Made in North America.

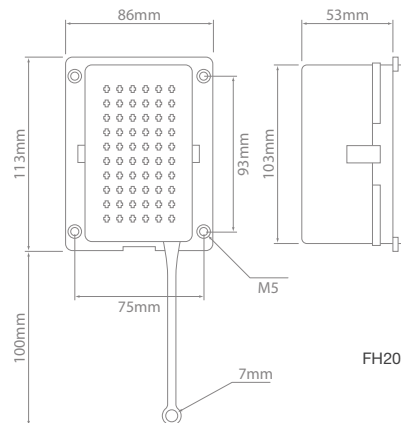
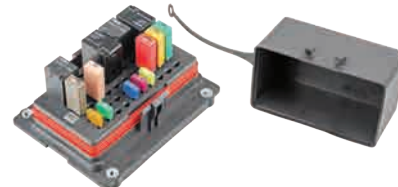
Max. Input Terminal Rating : FH12 M6 Studs 80A
 Max. Output Terminal Rating : 30A
 Housing : Black Thermoplastic
 Ingress Protection : IP66*
 Operating Temperature : -40°C to 125°C

* IP66-IEC 60529 (Valid when properly installed with cover, sealed terminals, and cavity plugs.)

- Seats :
- 10 x Bussmann Mini Blade Circuit Breakers / Blade – Mini Fuses (ATM)
 - 5 x IONNIC Micro 280 Series Relays (PB15 & PB25 models)



- Seats :
- Bussmann Mini Blade Circuit Breakers / Blade – Mini Fuses (ATM)
 - IONNIC Micro 280 Series Relays

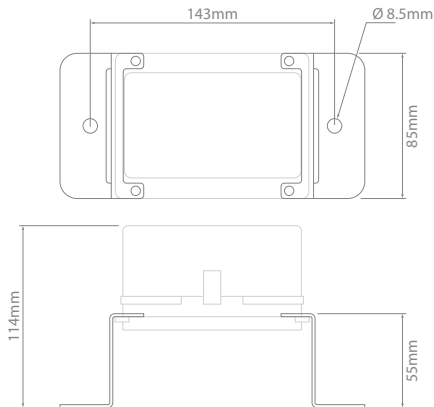


Weatherproof Fuse Panels

| Part No. | Description | Bussed |
|----------|---|--------|
| FH12 | Seats: 10 x Bussmann Mini Blade Circuit Breakers / Blade – Mini Fuses (ATM) 5 x Micro 280 Series Relays (PB15 & PB25 models) | Yes |
| FH20 | 60 Position User Configurable | No |

Contacts not supplied with fuse panels.

Fuses & Fuse Holders



Weatherproof Fuse Panels – Mount

| Part No. | Description |
|---------------|---|
| FH-BKT | Stainless steel mount. Sold individually. Suits FH12 & FH20 |



P-12129409/100



968875-1/100



968876-1/100

Weatherproof Fuse Panels – Contacts

| Pack Qty – 100 | Type (2.8mm) | Wire Size (mm ²) | Cable O.D. Range (mm) | Suits |
|-----------------------|--------------|------------------------------|-----------------------|-------|
| P-12129409/100 | Socket | 1.0 – 2.0 | 2.48 – 3.05 | FH12 |
| 968875-1/100 | Socket | 0.5 – 1.0 | 1.3 – 2.1 | FH20 |
| 968876-1/100 | Socket | 1.0 – 2.5 | 2.2 – 3.0 | FH20 |



P-12010300/100



P-15324981/100



P-15324980/100



P-15324982/100



P-15324983/100



282081-1/100



281934-2/100

Weatherproof Fuse Panels – Seals & Cavity Plugs

| Pack Qty – 100 | Description | Cable O.D. Range (mm) | Connector Cavity Ø (mm) | Colour | Suits |
|-----------------------|-------------|-----------------------|-------------------------|--------|-------|
| P-12010300/100 | Cavity Plug | — | 6.7 | Green | FH12 |
| P-15324981/100 | Seal | 4.30 – 3.45 | 6.7 | Blue | FH12 |
| P-15324980/100 | Seal | 3.49 – 2.81 | 6.7 | Grey | FH12 |
| P-15324982/100 | Seal | 2.85 – 2.03 | 6.7 | Green | FH12 |
| P-15324983/100 | Seal | 1.70 – 1.29 | 6.7 | Red | FH12 |
| 282081-1/100 | Cavity Plug | — | 5.7 | Red | FH20 |
| 281934-2/100 | Seal | 1.7 – 2.4 | 5.7 | Yellow | FH20 |



Fuses & Fuse Holders

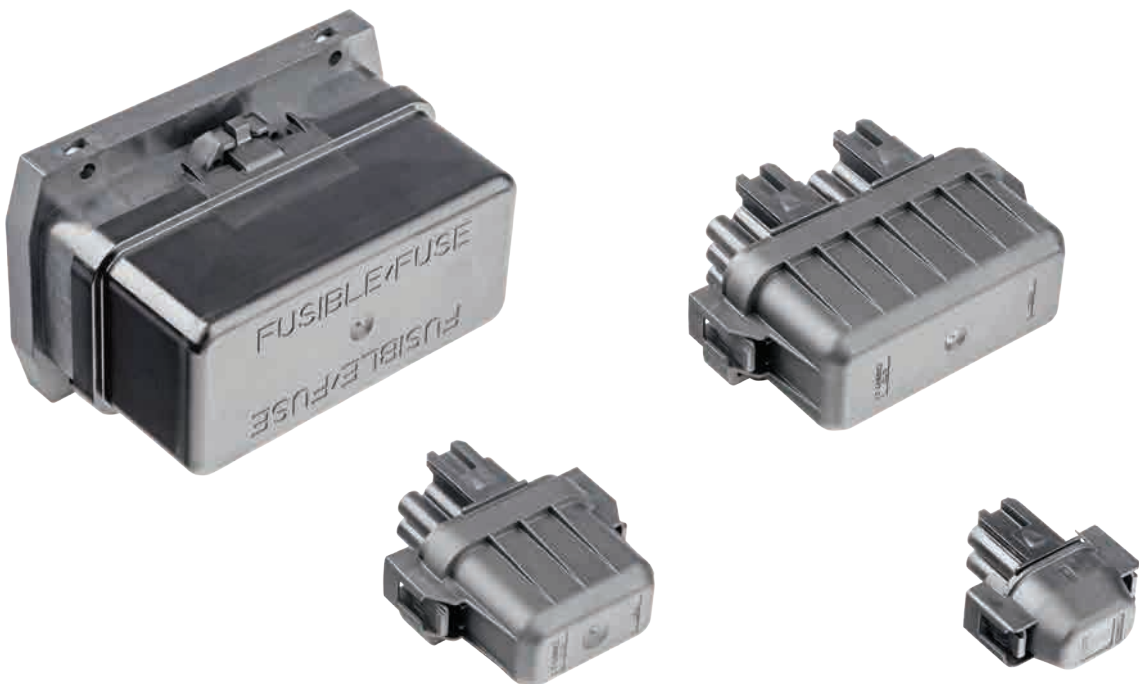
NEW



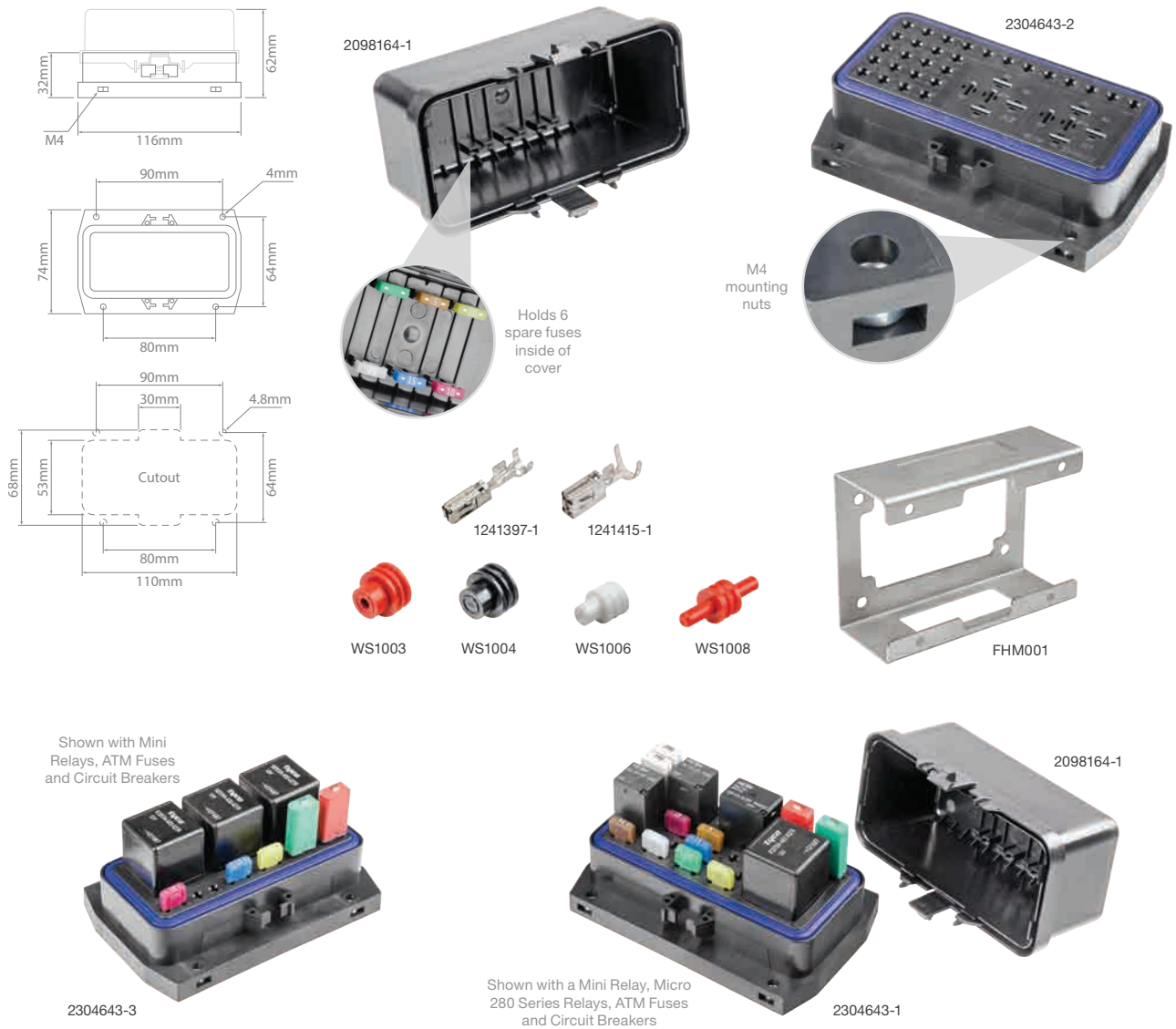
- Kits supplied with all required components including contacts, seals, mount, cover and housing.
- Available from 4 to 60 cavity configurations, 2.8mm & 6.3mm blade sizes.
- Ideal for conveniently and securely networking multiple fuses, relays and circuit breakers.
- Multiple Contact Point (MCP) contacts confirm component retention and provide a reliable connection even in high vibration environments.
- Heavy duty thermoplastic housings designed to withstand severe vibration and mechanical shock from harsh environments.
- Environmentally sealed – IP67, when installed to manufacturer's specifications.

Housing :
Cover :
Seal :
Operating Temperature :

Thermoplastic
Thermoplastic
Silicone Rubber
-40°C to 80°C



Fuses & Fuse Holders



Fuse & Relay Enclosure Kits – 2.8mm & 6.3mm Cavities NEW

| Part No. | Cavities | Kit Contents |
|--------------|--------------------------------------|---|
| FH301 | 60 x 2.8mm | 1 x Housing (2304643-4) 1 x Cover (2098164-1) 1 x Mount (FHM001) 60 x Seals (WS1006) 20 x Seals (WS1008) 60 x Contacts (1241397-1) |
| FH302 | 49 Total 44 x 2.8mm 5 x 6.3mm | 1 x Housing (2304643-1) 1 x Cover (2098164-1) 1 x Mount (FHM001) 5 x Seals (WS1003) 1 x Seals (WS1004) 44 x Seals (WS1006) 12 x Seals (WS1008) 44 x Contacts (1241397-1) 5 x Contacts (1241415-1) |
| FH303 | 38 Total 28 x 2.8mm 10 x 6.3mm | 1 x Housing (2304643-2) 1 x Cover (2098164-1) 1 x Mount (FHM001) 10 x Seals (WS1003) 2 x Seals (WS1004) 28 x Seals (WS1006) 10 x Seals (WS1008) 28 x Contacts (1241397-1) 10 x Contacts (1241415-1) |
| FH304 | 27 Total 12 x 2.8mm 15 x 6.3mm | 1 x Housing (2304643-3) 1 x Cover (2098164-1) 1 x Mount (FHM001) 15 x Seals (WS1003) 3 x Seals (WS1004) 22 x Seals (WS1006) 12 x Seals (WS1008) 44 x Contacts (1241397-1) 15 x Contacts (1241415-1) |



Fuses & Fuse Holders



Shown with Micro 280 Series Relays, ATM Fuses and Circuit Breakers

2318967-1

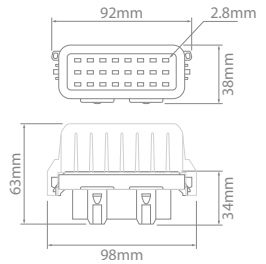


24 x 2.8mm cavities



Holds 4 spare fuses inside of cover

2318957-2

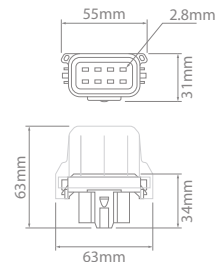


Shown with a Micro 280 Series Relay, ATM Fuse and Circuit Breaker



8 x 2.8mm cavities

2319023-1

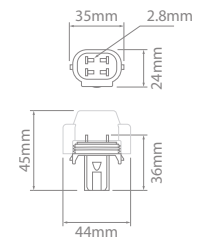


Shown with ATM Fuses



4 x 2.8mm cavities

2066046-2



1011-026-0205



1241397-1



WS1007



WS1008

Fuse & Relay Enclosure Kits – 2.8mm Cavities NEW

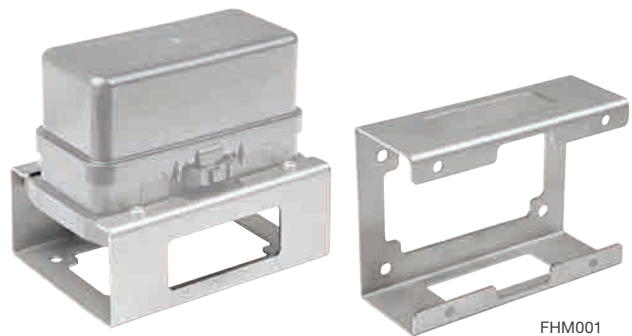
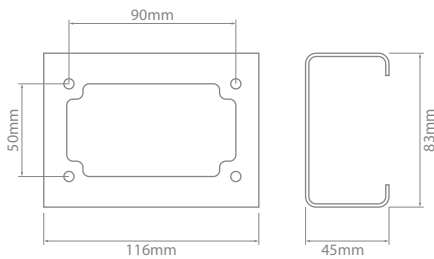
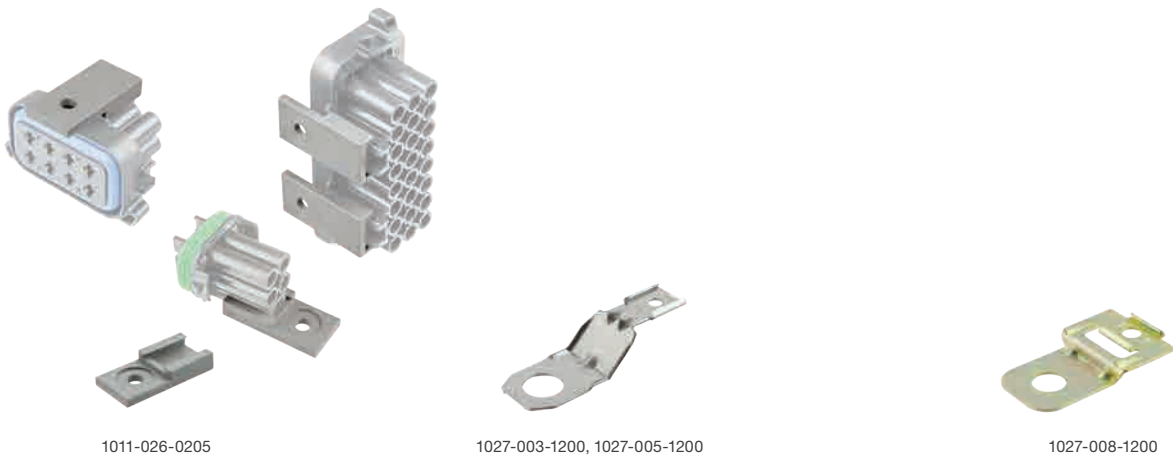
| Part No. | Cavities | Kit Contents |
|--------------|------------|---|
| FH305 | 24 x 2.8mm |  1 x Housing (2318967-1) 1 x Cover (2318957-2) 24 x Seals (WS1007) 6 x Cavity Plugs (WS1008) 24 x Contacts (1241397-1) 2 x Mounts (1011-026-0205) |
| FH306 | 8 x 2.8mm |  1 x Housing (2319023-1) 1 x Cover (2319021-2) 8 x Seals (WS1007) 2 x Cavity Plugs (WS1008) 8 x Contacts (1241397-1) 1 x Mount (1011-026-0205) |
| FH19 | 4 x 2.8mm |  1 x Housing (2066046-2) 1 x Cover (2066502-3) 4 x Seals (WS1007) 4 x Contacts (1241397-1) 1 x Mount (1011-026-0205) |

Fuses & Fuse Holders



Fuse & Relay Enclosure Kits – Seals & Cavity Plugs NEW

| Pack Qty – 100 | Description | Connector Cavity Ø (mm) | Cable O.D. Range (mm) | Colour |
|-----------------------|-------------|-------------------------|-----------------------|--------|
| P-15324976/100 | Seal | 5.2 | 1.6 – 2.15 | White |
| P-15324973/100 | Seal | 5.2 | 2.03 – 2.85 | Red |
| WS1003/100 | Seal | 8.5 | 2.3 – 2.9 | Red |
| WS1008/100 | Cavity Plug | 5.2 | – | Red |
| WS1004/100 | Cavity Plug | 8.5 | – | Black |



Fuse & Relay Enclosure Kits – Mounts NEW

| Part No. | Mounting Hole Ø (mm) | Mounting Direction | Material | Suits |
|----------------------|----------------------|--------------------|-------------------|---------------------------------|
| 1011-026-0205 | 5 | Straight | Thermoplastic | 4, 8 & 24 cavity housings |
| 1027-003-1200 | 11 | Straight | Stainless steel | 4, 8 & 24 cavity housings |
| 1027-005-1200 | 13 | Straight | Stainless steel | 4, 8 & 24 cavity housings |
| 1027-008-1200 | 11 | Side | Zinc-plated steel | 4, 8 & 24 cavity housings |
| FHM001 | – | – | Stainless steel | 60, 49, 38 & 27 cavity housings |



Fuses & Fuse Holders



1241395-1,
968875-1



1241397-1,
968876-1



1241415-1



1241417-1

Single Wire Sealing System

Contacts crimp directly to seals



Contacts – TE MCP – Single Wire Sealing System NEW

| Pack Qty – 100 | Pack Qty – Reel | Reel Qty | Type | Blade Size (mm) | Wire Size (mm ²) | Locking Tab |
|----------------------|-----------------------|----------|------------|-----------------|------------------------------|-------------|
| 1241395-1/100 | 1241394-1-BULK | 3500 | Receptacle | 2.8 | 0.5 – 1.0 | Yes |
| 968875-1/100 | — | — | Receptacle | 2.8 | 0.5 – 1.0 | Yes |
| 1241397-1/100 | 1241396-1-BULK | 3500 | Receptacle | 2.8 | 1.0 – 2.5 | Yes |
| 968876-1/100 | — | — | Receptacle | 2.8 | 1.0 – 2.5 | Yes |
| 1241415-1/100 | 1241414-1-BULK | 1500 | Receptacle | 4.8 & 6.3 | 1.0 – 2.5 | Yes |
| 1241417-1/50 | 1241416-1-BULK | 1500 | Receptacle | 4.8 & 6.3 | 2.5 – 4.0 | Yes |



Double hinged for parallel crimping



HT-4300



P-12071687



HT-4307



HT-4308

Tools NEW

| Part No. | Description | Contact (mm) | Crimp Range (mm ²) |
|-------------------|------------------------|--------------|--------------------------------|
| HT-4300 | Crimper. Parallel jaws | 2.8 | 0.35, 0.5–0.8, 1.0–2.0, 3.0 |
| P-12071687 | Crimper | 6.3 | 3.0–5.0 |
| HT-4307 | Contact remover | 2.8 | |
| HT-4308 | Contact remover | 4.8 & 6.3 | |

Fuses & Fuse Holders

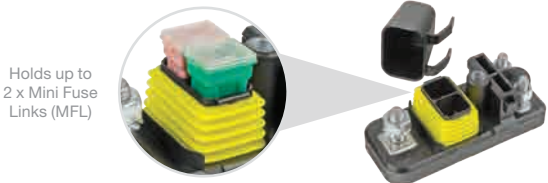
Modular MFL Fuse Holder

- Designed for high current applications.
- Suitable for extreme moisture and high vibration environments.
- Silicone seal and removable cover offer a weather-tight enclosure for fuses.
- Multiple units can be connected together using a busbar.
- Made in North America.



Body : Thermoplastic
Seal : Silicone Rubber
Terminal : Tinned Copper
Studs : Plated Steel
Ingress Protection : IP66 (excluding studs)
Approvals : SAE 31171 (ignition protection)
Operating Temperature : -40°C to 85°C

Made in North America

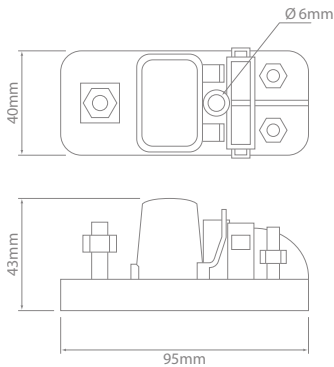


Holds up to 2 x Mini Fuse Links (MFL)



Multiple units can be connected together using a busbar

Seats 2 x MFL Fuse Links



FH22



3771BUS-2



3771BUS-3

Modular MFL Fuse Holder

| Part No. | Description | Seats | Current Rating (A) |
|------------------|---------------------|----------------------------|--------------------|
| FH22 | MFL Fuse Holder | 2 x Fuse Link – Mini (MFL) | 20 – 60 (each) |
| 3771BUS-2 | Busbar – 2 position | | |
| 3771BUS-3 | Busbar – 3 position | | |



Fuses & Fuse Holders

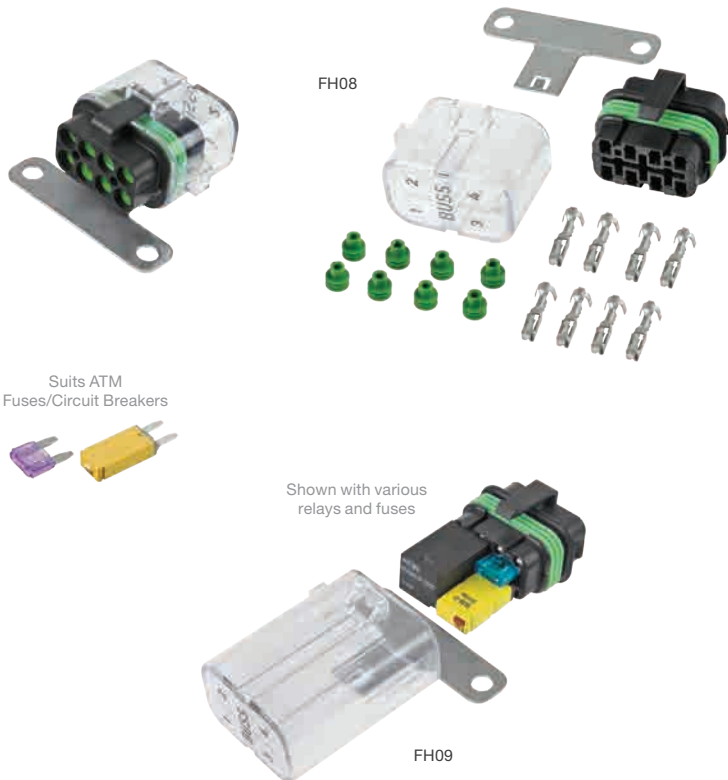
Mini Electrical Centres



Made in North America IP66

- Accepts Micro 280 series relays and mini blade fuses/circuit breakers.
- Compact size.
- Easy mounting.
- Eliminates excess wiring.
- High quality Packard™ terminals.
- Clear polycarbonate cover provides protection & easy visual inspection.
- Environmentally sealed – IP66.
- Made in North America.

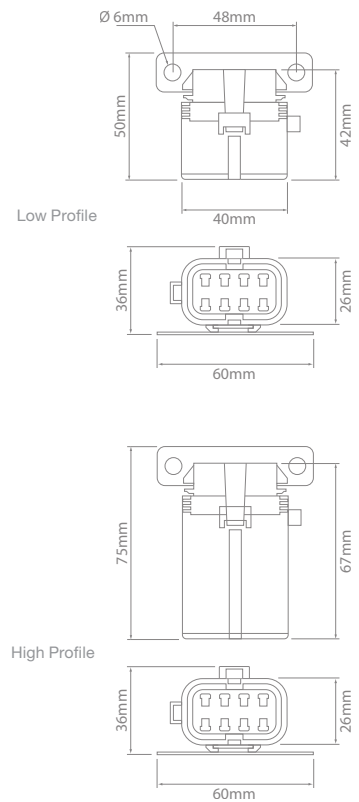
| | |
|-------------------------|-------------------|
| Max. Current Rating : | 120A |
| Cover : | Polycarbonate |
| Body : | Thermoplastic |
| Seal : | Silicone Rubber |
| Contacts : | Tinned Brass |
| Bracket : | Zinc-plated Steel |
| Ingress Protection : | IP66 |
| Operating Temperature : | -40°C to 125°C |



Suits ATM Fuses/Circuit Breakers



Shown with various relays and fuses



Mini Electrical Centre – Kits

| Part No. | Cover | Cavities | Kit contents: |
|-------------|--------------|-----------|--|
| FH08 | Low Profile | 8 x 2.8mm | 1 x Mini Electrical Centre Body 1 x Mini Electrical Centre Cover 1 x Mounting Bracket 8 x Socket 0.8–1mm ² (P-12077411) 8 x Seals 0.8–1mm ² (P-15324982) |
| FH09 | High Profile | 8 x 2.8mm | |

Fuses & Fuse Holders



P-12077411/100



P-12129493/100

Mini Electrical Centres – Contacts

| Pack Qty – 100 | Type (2.8mm) | Wire Size (mm ²) | Cable O.D. Range (mm) |
|-----------------------|--------------|------------------------------|-----------------------|
| P-12077411/100 | Socket | 0.5 – 1.25 | 2.03 – 3.12 |
| P-12129493/100 | Socket | 2.0 – 3.0 | 2.45 – 3.80 |

Packard™ products.



P-15324982/100



P-15324980/100



P-12010300/100

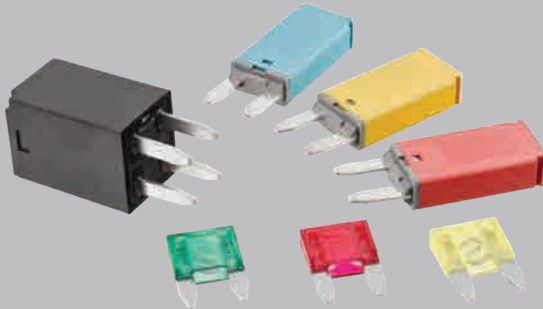
Mini Electrical Centres – Seals & Cavity Plugs

| Pack Qty – 100 | Description | Cable O.D. Range (mm) | Connector Cavity Ø (mm) | Colour |
|-----------------------|-------------|-----------------------|-------------------------|--------|
| P-15324982/100 | Seal | 2.85 – 2.03 | 6.7 | Green |
| P-15324980/100 | Seal | 3.49 – 2.81 | 6.7 | Grey |
| P-12010300/100 | Cavity Plug | — | 6.7 | Green |

Packard™ products.

Mini Electrical Centres are compatible with:

- IONNIC Micro 280 Series Relays.
- Bussmann Mini (ATM) Blade Circuit Breakers – page 91.
- Blade – Mini Fuses (ATM) – page 94.



High Profile model (FH09) required if using relays or circuit breakers.



Bolt-in Fuses & Holders



Bolt-in Fuses & Holders



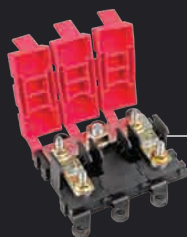
Bolt-in Fuses **120**



T-Class Fuses **122**



Bolt-in Fuse Holders **123**



Modular AMI Fuse Holder **126**



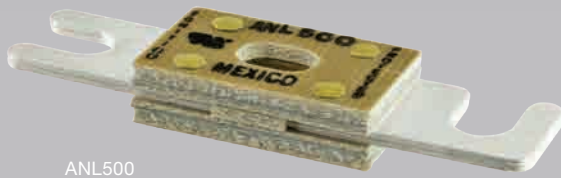
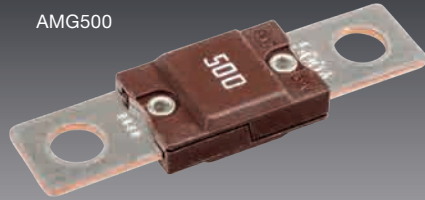
Power Distribution Units **127**



Marine Rated Battery Fuses **132**

Bolt-in Fuses & Holders

Bolt-in Fuses



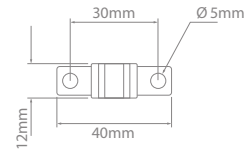
- Power distribution protection.
- High current ratings.
- Compact size.
- Secure bolt-in connection.
- AMI and AMG series colour-coded to current rating.
- AMI, ANS & ANL series allow easy fuse inspection.
- Ideal for use in mining and emergency service vehicles, battery chargers and inverters.

| | | |
|-------------------------|----------|----------------------|
| Voltage Rating : | AMI, AMG | 32V |
| | ANS | 58V |
| | ANL | 80V |
| Terminal : | AMI | Tin-plated Brass |
| | ANS | Tin-plated Copper |
| | AMG | Copper |
| | ANL | Silver-plated Copper |
| Operating Temperature : | | -40°C to 125°C |



Bussmann®

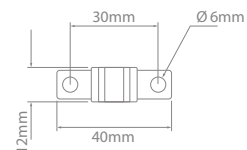
Made in North America



AMI Series

| | | | | | |
|------------------------------|-------------------------------|-------------------------------|-------------------------------|--------------------------------|---------------------------------|
| 20A Black AMI20 | 30A Orange AMI30 | 40A Green AMI40 | 50A Red AMI50 | 60A Yellow AMI60 | 70A Brown AMI70 |
| 80A White AMI80 | 100A Blue AMI100 | 125A Pink AMI125 | 150A Grey AMI150 | 175A Beige AMI175 | 200A Purple AMI200 |

NEW



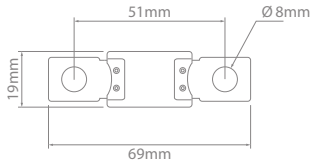
ANS Series

NEW

| | | | | | | | |
|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|-----------------------|-----------------------|
| 30A ANS30 | 40A ANS40 | 50A ANS50 | 60A ANS60 | 70A ANS70 | 80A ANS80 | 100A ANS100 | 125A ANS125 |
|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|-----------------------|-----------------------|

IONNIC

Bolt-in Fuses & Holders



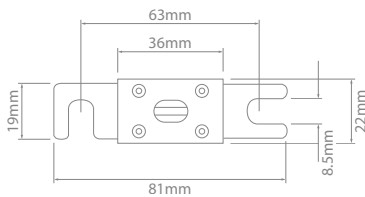
Bussmann®

Made in North America



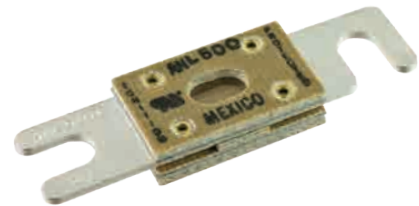
AMG Series

| | | | | | | |
|-------------------------------|--------------------------------|-------------------------------|---------------------------------|---------------------------------|--------------------------------------|--------------------------------|
| 40A White AMG040 | 60A White AMG060 | 80A Red AMG080 | 100A Yellow AMG100 | 125A Green AMG125 | 150A Orange AMG150 | 175A White AMG175 |
| 200A Blue AMG200 | 225A Beige AMG225 | 250A Pink AMG250 | 300A Grey AMG300 | 400A Purple AMG400 | 450A Dark Yellow AMG450 | 500A Brown AMG500 |



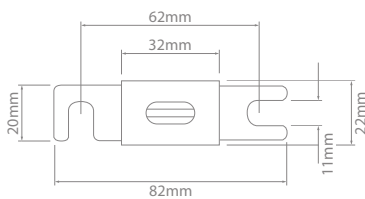
Bussmann®

Made in North America



ANL Series – Bussmann

| | | | | | | | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| 35A ANL035-B | 40A ANL040-B | 50A ANL050-B | 60A ANL060-B | 80A ANL080-B | 100A ANL100-B | 125A ANL125-B | 130A ANL130-B |
| 150A ANL150-B | 175A ANL175-B | 200A ANL200-B | 225A ANL225-B | 250A ANL250-B | 275A ANL275-B | 300A ANL300-B | 325A ANL325-B |
| 350A ANL350-B | 400A ANL400-B | 500A ANL500-B | 600A ANL600-B | 675A ANL675-B | 750A ANL750-B | | |



ANL Series – Ceramic

| | | | |
|-----------------------|-----------------------|-----------------------|-----------------------|
| 250A ANL250 | 300A ANL300 | 400A ANL400 | 500A ANL500 |
|-----------------------|-----------------------|-----------------------|-----------------------|



Bolt-in Fuses & Holders

T-Class Fuses



- Fast-acting T-Class fuses help prevent equipment damage caused by short-circuit events.
- Exceptional current limitation.
- 200kA interrupting rating complies with NEC Section 110.9 for today's large capacity systems.
- Ideal for critical industrial or commercial applications that have specific current limitation requirements.
- Made in North America.



Approvals :

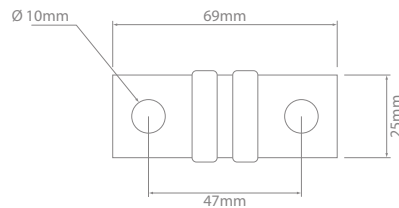
CE, CSA, UL, RoHS

Fast-Acting, High-Performance Protection

Class-T fuses provide the ultimate protection for high power circuits, and where extremely fast fuse blow characteristics are required.

Modern batteries such as AGM and lithium technologies are capable of very high short-circuit currents which may be beyond the interrupt rating of standard circuit breakers and other fuse types.

Class-T fuses are also recommended for use with high power inverters and inverterchargers.

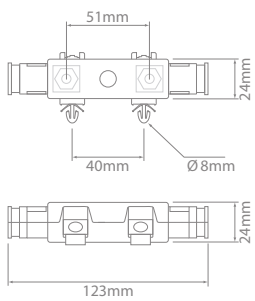
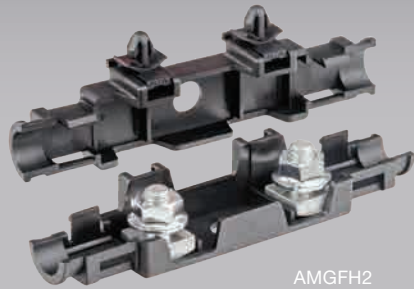


T-Class Fuses

| | | | | |
|--------|--------|--------|--------|--------|
| 225A | 250A | 300A | 350A | 400A |
| JJN225 | JJN250 | JJN300 | JJN350 | JJN400 |

Bolt-in Fuses & Holders

- Used for primary branch fusing.
- Models to suit AMI/ANS, AMG, ANL and T-Class fuses.
- Ideal for mining, agriculture, bus, truck, marine and specialty vehicle applications.
- FH Series range features stainless steel hardware.



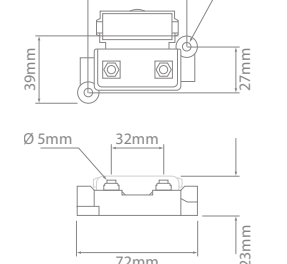


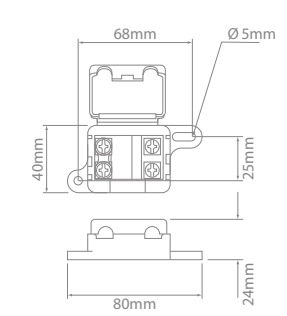


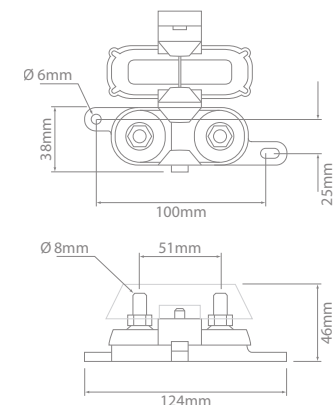


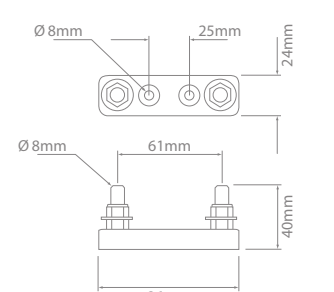


Bolt-in Fuse Holders – Inline/Panel Mount

| Part No. | Seats |
|----------|--------------|
| AMGFH2 | 1 x AMG Fuse |



Bolt-in Fuses & Holders

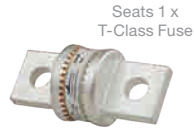
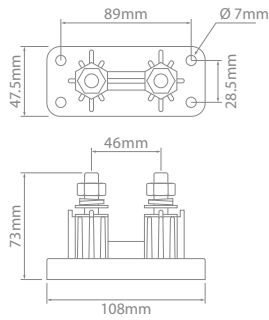
| | | | |
|-------------------|--|---|--|
| <p>AMIFH</p> | <p>Made in Europe</p>  <p>Shown with fuse</p> | <p>Seats 1 x AMI/ANS Fuses</p>  |  <p>59mm Ø4.5mm 39mm 27mm Ø5mm 32mm 72mm 23mm</p> |
| <p>AMIFH-DUAL</p> |  <p>Shown with fuses</p> | <p>Seats 2 x AMI/ANS Fuses</p>  |  <p>68mm Ø5mm 40mm 25mm 80mm 24mm</p> |
| <p>AMGFH1</p> | <p>Made in North America</p>  <p>Shown with fuse</p> | <p>Seats 1 x AMG Fuse</p>  |  <p>Ø6mm 38mm 100mm 25mm Ø8mm 51mm 46mm 124mm</p> |
| <p>ANLFH1</p> | <p>Made in North America</p>  <p>Shown with fuse</p> | <p>Seats 1 x ANL Fuse</p>  |  <p>Ø8mm 25mm 24mm Ø8mm 61mm 40mm 86mm</p> |

Bolt-in Fuse Holders – Surface Mount

| Part No. | Seats |
|-------------------|------------------|
| AMIFH | 1 x AMI/ANS Fuse |
| AMIFH-DUAL | 2 x AMI/ANS Fuse |
| AMGFH1 | 1 x AMG Fuse |
| ANLFH1 | 1 x ANL Fuse |

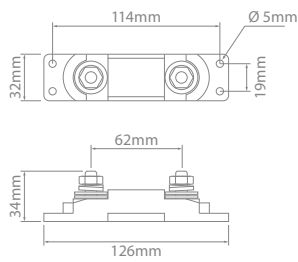
AMIFH & AMIFH-DUAL are not Bussmann products.

Bolt-in Fuses & Holders



FH30

Made in North America

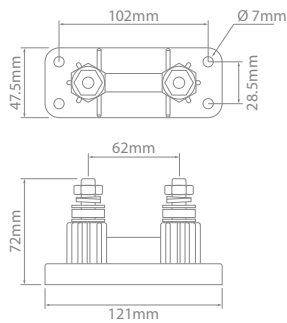


Stainless steel hardware on all models.
Brass washers on FH31 & FH33



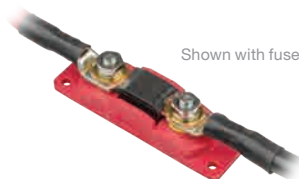
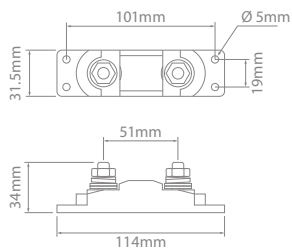
FH31

Made in North America



FH32

Made in North America



FH33

Bolt-In Fuse Holders – FH Series

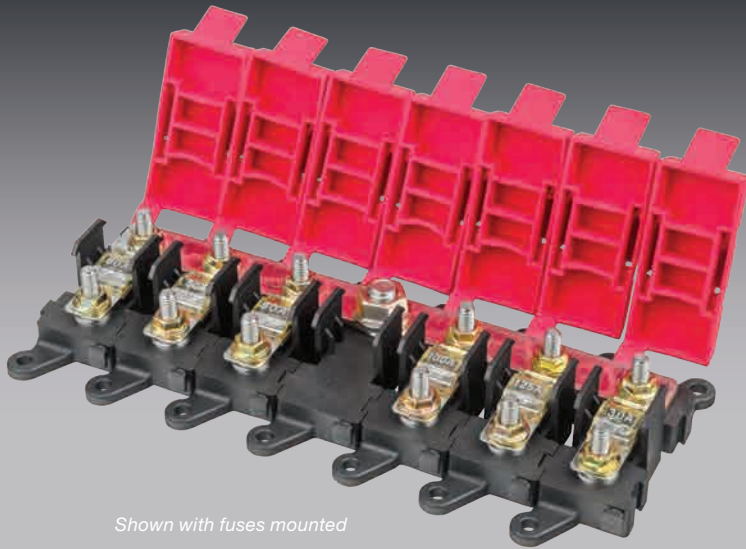
| Part No. | Seats | Maximum Voltage | Post | Current Rating @ 12V |
|-------------|-----------------------------|-----------------|-------|----------------------|
| FH30 | 1 x T-Class Fuse | 48 | 3/8" | Up to 400A |
| FH31 | 1 x ANL Fuse | 48 | 5/16" | Up to 300A |
| FH32 | 1 x ANL Fuse (Ceramic only) | 32 | 3/8" | Up to 750A |
| FH33 | 1 x AMG Fuse | 32 | 5/16" | Up to 250A |

Not Bussmann products.



Bolt-in Fuses & Holders

Modular AMI Fuse Holder

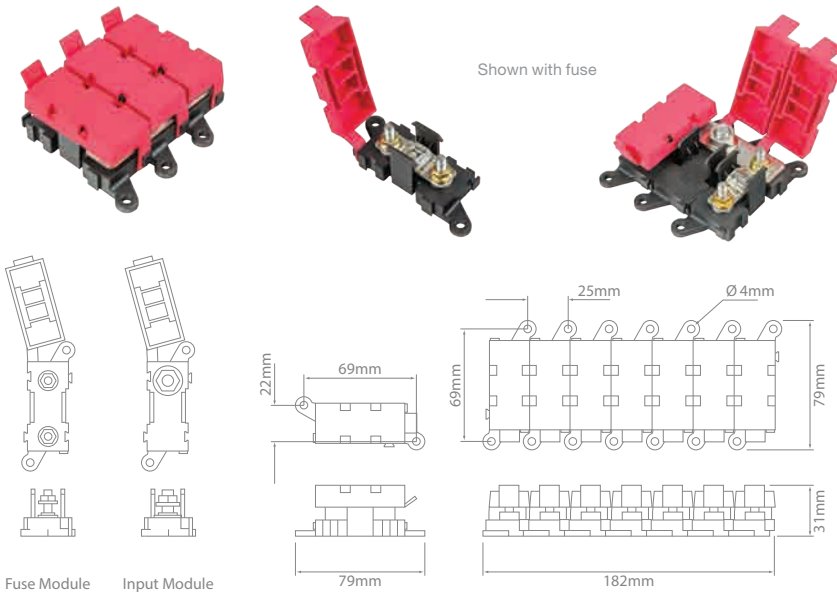


Shown with fuses mounted

Made in North America

- Modular componentry – each Fuse/Input Module easily and securely clips into the next.
- Flexible to user requirements.
- Accepts industry standard bolt-in AMI/ANS fuses.
- Up to 6 Fuse Modules can be bussed.
- Independent covers on each module.
- Can be used as a single fuse holder.
- Ideal for mining, construction, agriculture, bus, truck, marine and specialty vehicle applications.
- Made in North America.

| | | |
|-------------------------|--------------|--------------------|
| Fuse Type : | | AMI |
| Housing : | | Thermoplastic |
| Cover : | | EPDM/Santoprene |
| Studs : | Input Module | M8 Stainless Steel |
| | Fuse Module | M5 Stainless Steel |
| Max. Current Rating : | | 400A Continuous |
| Operating Temperature : | | -40°C to 85°C |



Custom Build Your Fuse Holder

For bussed configurations, a maximum of 6 Fuse Modules, 1 Input Module & 1 Busbar is required, (7 modules in total).

E.g. for a bussed 5 fuse configuration the following is required:

- 5 x Fuse Modules (LMI-F-M)
- 1 x Input Module (LMI-I-M)
- 1 x Busbar (B109-7046-6)

Suits AMI/ANS Fuses



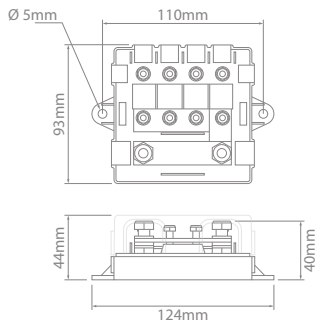
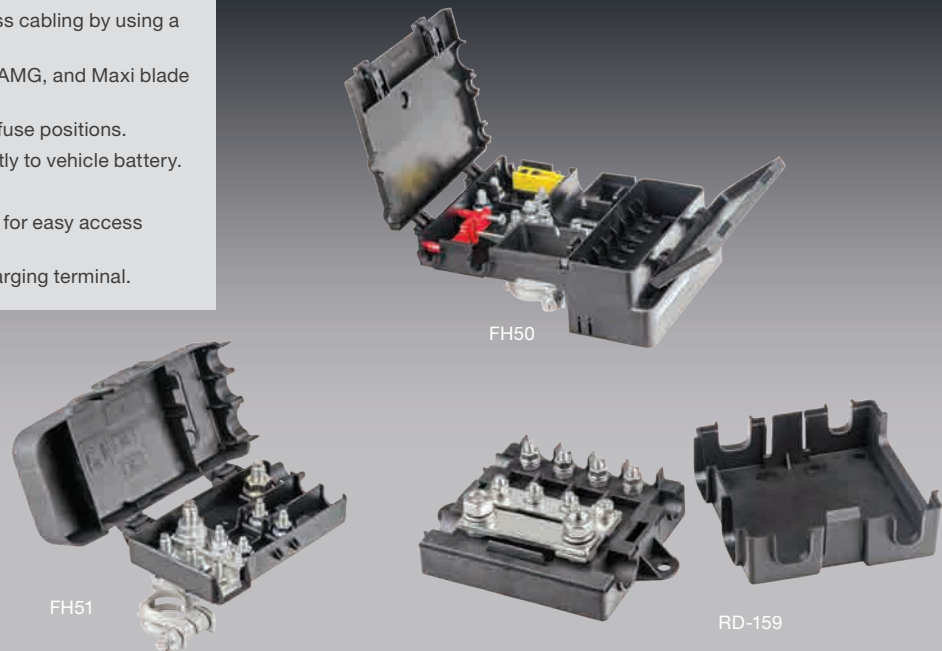
Modular AMI Fuse Holder

| Part No. | Description |
|--------------------|---|
| LMI-F-M | Fuse Module |
| LMI-I-M | Input Module |
| B109-7046-2 | Busbar – Suiting 1 fuse and 1 input module |
| B109-7046-3 | Busbar – Suiting 2 fuses and 1 input module |
| B109-7046-4 | Busbar – Suiting 3 fuses and 1 input module |
| B109-7046-5 | Busbar – Suiting 4 fuses and 1 input module |
| B109-7046-6 | Busbar – Suiting 5 fuses and 1 input module |
| B109-7046-7 | Busbar – Suiting 6 fuses and 1 input module |



Bolt-in Fuses & Holders

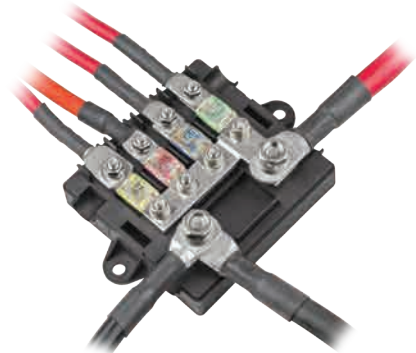
- Reduce clutter from excess cabling by using a power distribution unit.
- Models to suit AMI, ANS, AMG, and Maxi blade fuses/circuit breakers.
- Common feed powers all fuse positions.
- FH50 & FH51 mount directly to vehicle battery.
- Removable busbars.
- Hinged/removable covers for easy access to fuses.
- FH50 includes battery charging terminal.



Made in Europe



Tin plated copper busbars.
Stainless steel studs, nuts, washers

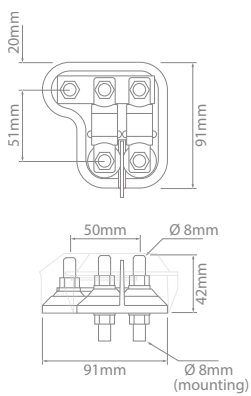
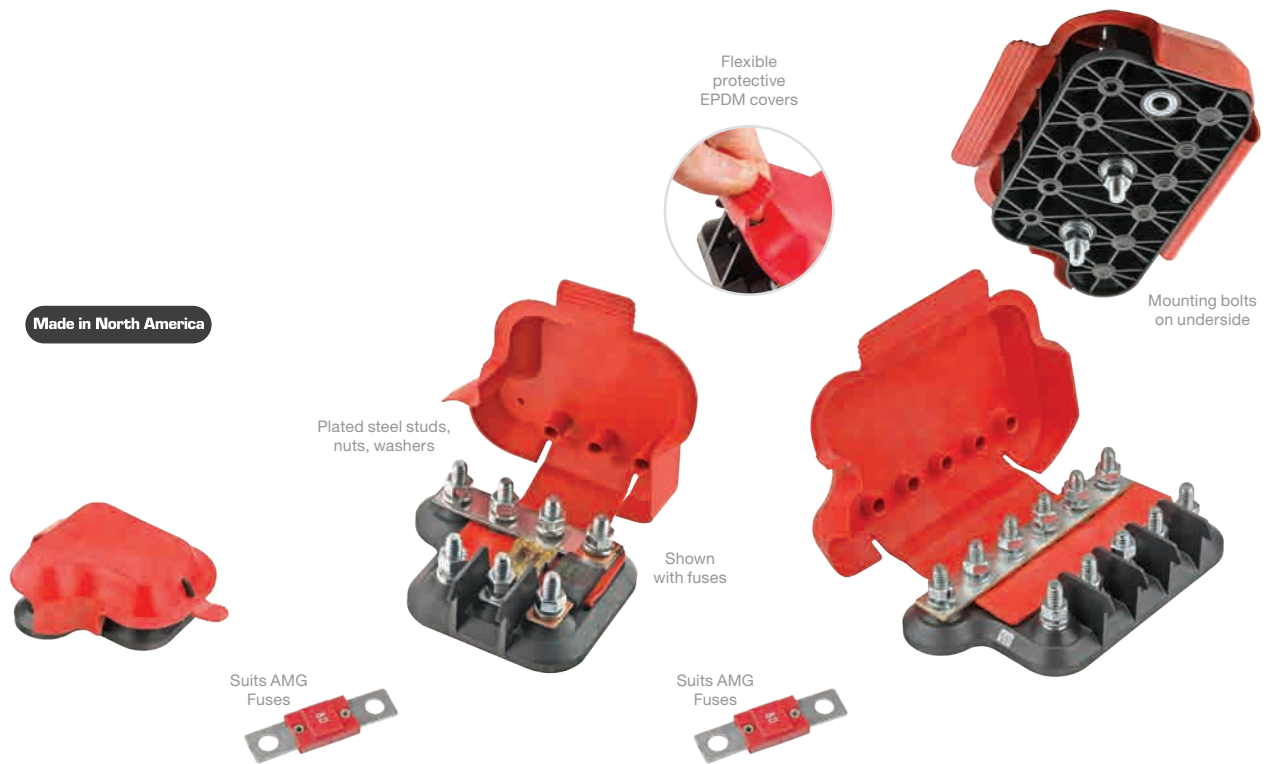


Power Distribution Units – Surface Mount

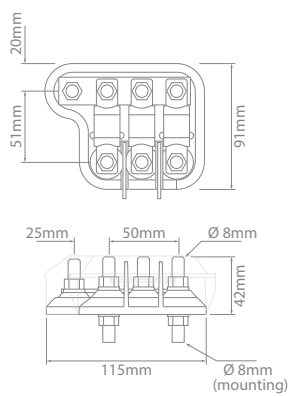
| Part No. | Seats | Max. Total Input Rating (A) | Max. Output Rating Per Terminal (A) |
|----------|-----------------------------------|-----------------------------|-------------------------------------|
| RD-159 | 1 x AMG Fuse 4 x AMI/ANS Fuses | 180 | 50 |



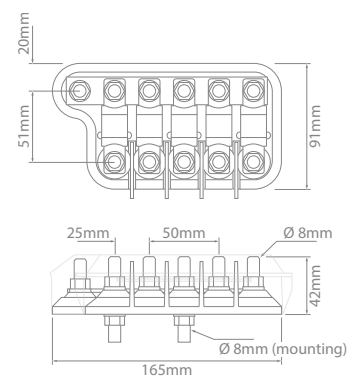
Bolt-in Fuses & Holders



LMG2-1-001



LMG3-1-001



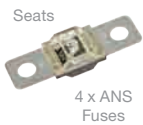
LMG5-1-001

Power Distribution Units – Surface Mount cont.

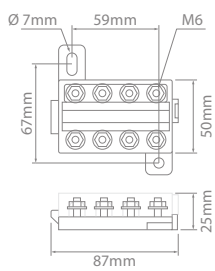
| Part No. | Seats | Max. Total Input Rating (A) |
|-------------------|---------------|-----------------------------|
| LMG2-1-001 | 2 x AMG Fuses | 300 |
| LMG3-1-001 | 3 x AMG Fuses | 300 |
| LMG5-1-001 | 5 x AMG Fuses | 300 |

Fuses not included.

Bolt-in Fuses & Holders



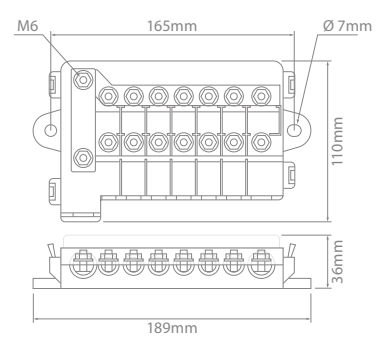
NEW



ANSFH-04



NEW



ANSFH-08

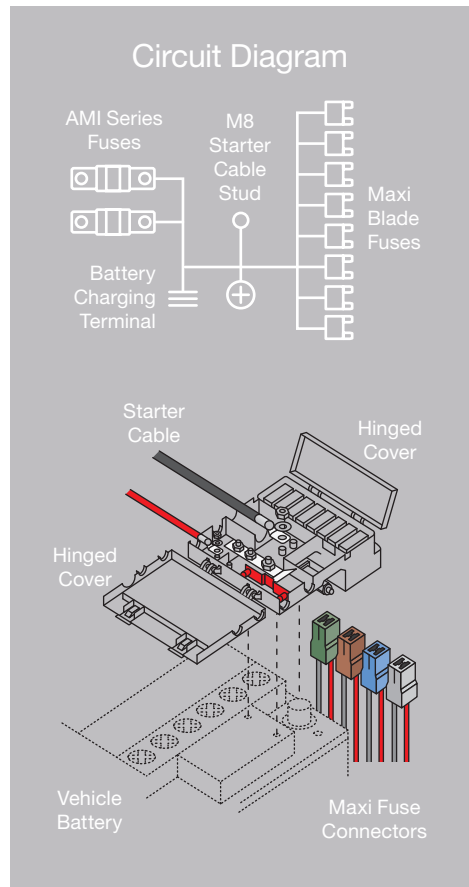
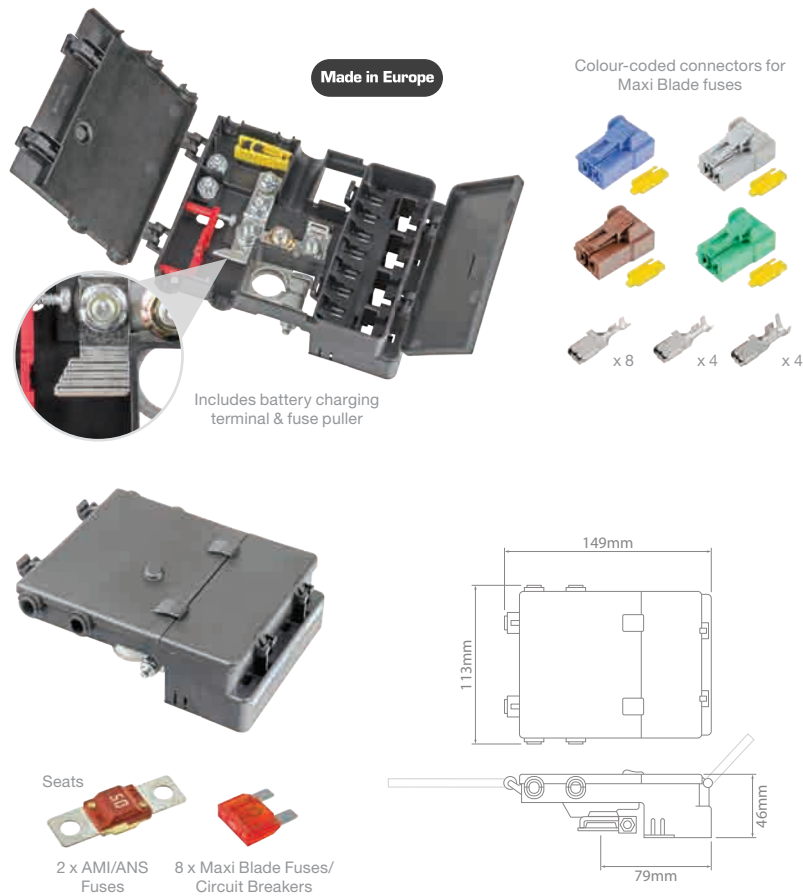
Power Distribution Units – Surface Mount **NEW** cont.

| Part No. | Seats | Max. Total Input Rating (A) | Max. Output Rating Per Terminal (A) |
|-----------------|-------------------------|-----------------------------|-------------------------------------|
| ANSFH-04 | 4 x ANS Fuses | 220 | 150 |
| ANSFH-08 | 1 x AMG & 7 x ANS Fuses | 500 | 150 |

Fuses not included.
Not Bussmann products.



Bolt-in Fuses & Holders



Power Distribution Units – Battery Mount – 10 Fuse

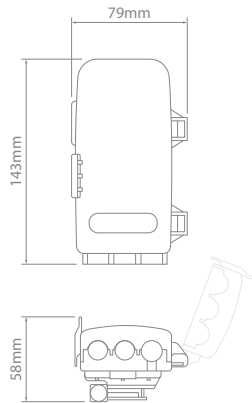
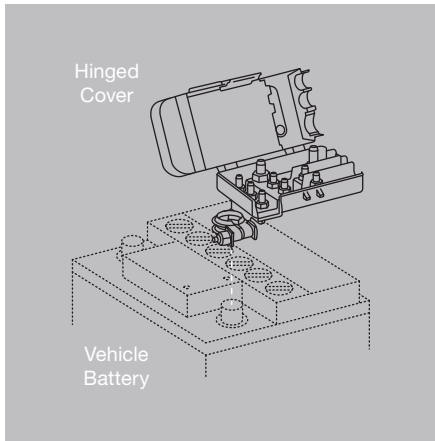
| Part No. | Seats | Kit Contents: | |
|----------|--|---|---|
| FH50 | 2 x AMI/ANS Series Bolt-in Fuses 8 x Maxi Blade Fuses | 1 x Power Distribution Unit (MT001) 8 x Receptacle (MT401) 4 x Receptacle (MT402) 4 x Receptacle (MT403) | 1 x Connector Blue(MT201) 1 x Connector Grey (MT202) 1 x Connector Green (MT203) 1 x Connector Brown (MT204) |



Accessories – FH50

| Part No. | Description | Pack Quantity |
|----------|--|---------------|
| MT201/10 | Connector Blue . Includes secondary lock | 10 |
| MT202/10 | Connector Grey . Includes secondary lock | 10 |
| MT203/10 | Connector Brown . Includes secondary lock | 10 |
| MT204/10 | Connector Green . Includes secondary lock | 10 |
| MT701/10 | Secondary Lock | 10 |
| MT401/20 | Receptacle – 8mm. 1.5–2.5mm ² | 20 |
| MT402/20 | Receptacle – 8mm. 4–6mm ² | 20 |
| MT403/20 | Receptacle – 8mm. 8–10mm ² | 20 |

Bolt-in Fuses & Holders



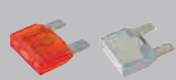
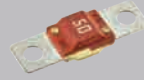
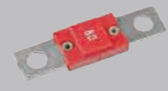
Made in Europe



Power Distribution Units – Battery Mount – 3 Fuse

| Part No. | Seats |
|-------------|-----------------------------------|
| FH51 | 2 x AMI/ANS Fuses 1 x AMG Fuse |

Fuses not included.

| | | |
|---|--|---|
| <p>Maxi Blade Fuses/ Circuit Breakers</p>  <p>Page 95 & 90</p> | <p>AMI & ANS Fuses</p>  <p>Page 120</p> | <p>AMG Fuses</p>  <p>Page 121</p> |
|---|--|---|



Bolt-in Fuses & Holders

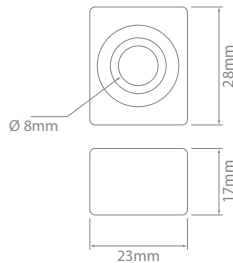
Marine Rated Battery Fuses



Made in North America IP66

- Designed for the most demanding environments providing high current protection.
- Suitable for main and auxiliary circuit protection such as alternator outputs, starter motor inputs and accessory circuits.
- Breaking capacities meet the requirements of conventional vehicle batteries, and 12V, 24V, 42V electrical networks.
- Suitable for automotive and marine applications.
- Colour-coded to current rating.
- Made in North America.

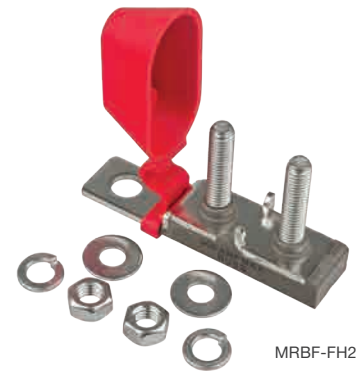
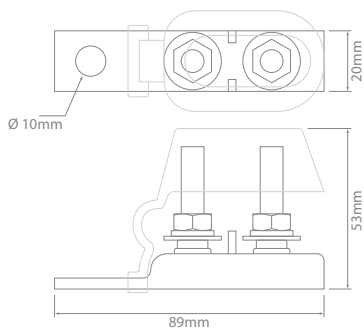
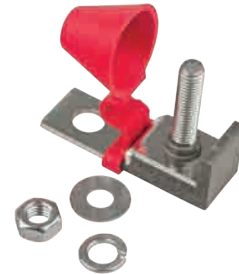
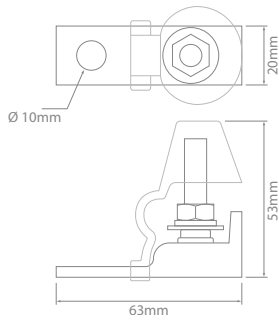
Max. Voltage Rating : 58V
 Interrupt Rating : 10,000A @ 14V
 Body : Ceramic
 Housing & Cover : UL-Rated 94V0 Thermoplastic
 Ingress Protection : IP66
 Approvals : ISO 8820-6



Marine Rated Battery Fuses

| | | | | | | | |
|-------------------------------------|------------------------------------|----------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|-----------------------------------|
| 30A Lt. Green MRBF-040 | 40A Lt. Blue MRBF-040 | 50A Red MRBF-050 | 60A Gold MRBF-060 | 75A Brown MRBF-075 | 80A Lime MRBF-080 | 90A Purple MRBF-090 | 100A Yellow MRBF-100 |
| 125A Green MRBF-125 | 150A Orange MRBF-150 | 175A White MRBF-175 | 200A Blue MRBF-200 | 225A Tan MRBF-225 | 250A Pink MRBF-250 | 300A Grey MRBF-300 | |

Bolt-in Fuses & Holders



Marine Rated Battery Fuses – Fuse Holder Kits

| Part No. | Seats | Kit Contents: |
|-----------------|-------------------------------|--|
| MRBF-FH1 | 1 x Marine Rated Battery Fuse | 1 x Single M8 stud (MRBF-M8-1) 1 x Red cover (MRBF-C1) 1 x M8 hex nut 1 x Washer 1 x M8 spring washer |
| MRBF-FH2 | 2 x Marine Rated Battery Fuse | 1 x Double M8 stud (MRBF-M8-2) 1 x Red cover (MRBF-C2) 2 x M8 hex nuts 2 x Washers 2 x M8 spring washers |



Diodes



Diodes



Plug-in Diodes **136**



Diodes **137**

Diodes

Plug-in Diodes



PID6A



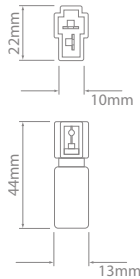
PID42

- Plug & play connection.
- Multiple configurations.
- Industry standard connector.
- Pin connection diagrams are clearly labelled on housing.
- Broad operating temperature.

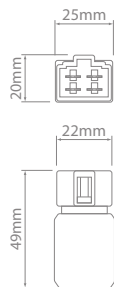
Housing : Thermoplastic Polymer
 Connector : Polyamide
 Terminal Size : 6.3mm
 Max. Average Rectified Current : 3A
 Operating Temperature : -65°C to 150°C



PID6A



PID41

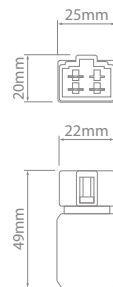


TE DEUTSCH Diodes & Resistors

A range of TE DEUTSCH Diodes & Resistors are also available and can be found in the DEUTSCH 2024 catalogue. Download from ionnic.com or free call from within Australia 1800 724 690



PID42



Plug-in Diodes

| Part No. | Pin Connection | Max. Reverse Voltage | Mating Connectors & Contacts |
|----------|----------------|----------------------|------------------------------|
| PID6A | | 600 | QK2BSL/10 604502BL2/100 |
| PID41 | | 400 | QK4BSL/10 604502BL2/100 |
| PID42 | | 400 | QK4BSL/10 604502BL2/100 |

- High current capability.
- Low leakage current.
- Flame retardant epoxy.
- High surge capability.
- CM3504 features epoxy filled metal housing.

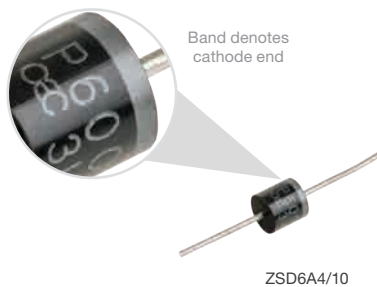


CM3504



ZSD6A4/10

Housing : CM3504 Polymer Metal, electrically isolated



Band denotes cathode end

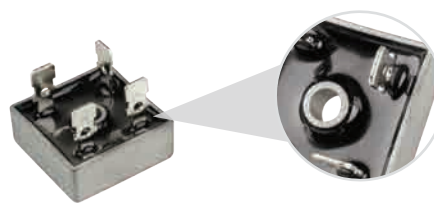
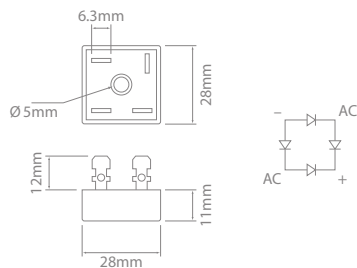
ZSD6A4/10



IN4004/10



IN5408/10



Epoxy filled, metal heatsink housing

CM3504

Diodes

| Part No. | Nominal Zener Voltage | Max. Reverse Voltage | Max. Forward Current (A) | Max. RMS Input Voltage | Max. DC Blocking Voltage | Pack Qty |
|-------------------|-----------------------|----------------------|--------------------------|------------------------|--------------------------|----------|
| ZSD6A4/10* | 120 | — | 6 | 200 | — | 10 |
| IN4004/10 | — | 400 | 1 | 280 | 400 | 10 |
| IN5408/10 | — | 1000 | 3 | 700 | 1000 | 10 |
| CM3504 | — | 400 | 35 | 280 | 400 | 1 |

* Zener diode.




Cable




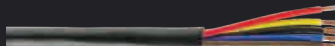
Cable

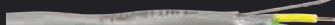
 Thin Wall Cable 140

 Single Cable 146

 Tinned 150

 Battery Cable 152

 Sheathed 155

 Specialty 157

Cable

Thin Wall Cable



TW050-BRN-500

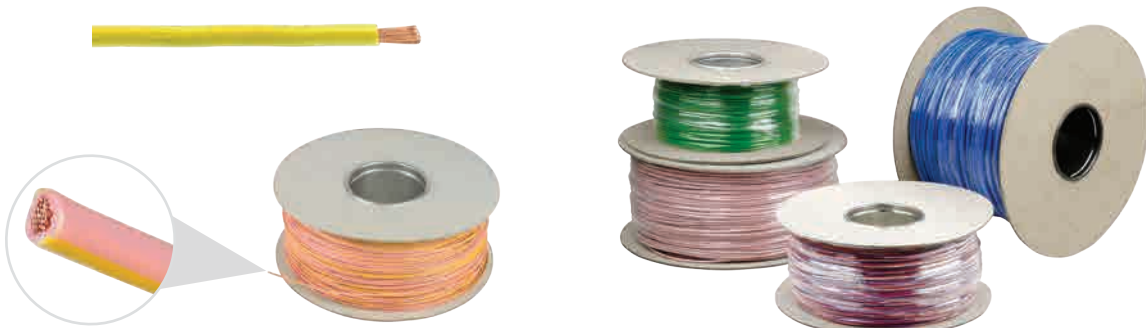


TW200-WHT/RED-500

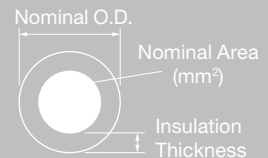
Made in Europe

- Lead free PVC insulation.
- Superior heat dissipation.
- Smaller & lighter harnesses.
- More strands of smaller diameter copper compared to traditional cables.
- Large range of colour and trace combinations.
- Made in Europe.

Conductor : Annealed Electrolytic Copper
 Insulation : Lead Free PVC
 Max. Voltage : 600V
 Approvals : DIN72551, ISO 6772-4
 Operating Temperature : -40°C to 105°C



| | TW050 | TW100 | TW200 | TW250 | TW450 | TW600 |
|-----------------------------------|-------|-------|-------|-------|-------|-------|
| Nominal Area (mm ²) : | 0.5 | 1.0 | 2.0 | 2.5 | 4.5 | 6.0 |
| Nominal Current Rating (A) | 11 | 16.5 | 25 | 29 | 42 | 50 |
| Strand Count : | 16 | 32 | 28 | 50 | 65 | 85 |
| Strand Diameter (mm) : | 0.2 | 0.2 | 0.3 | 0.25 | 0.3 | 0.3 |
| Nominal O.D. (mm) : | 1.5 | 2.0 | 2.6 | 2.85 | 3.9 | 4.2 |
| Roll Length (m) : | 500 | 500 | 500 | 250 | 250 | 100 |















Lead Free PVC Insulation on all Thin Wall Cable

TW100-BRN/PUR-500



Thin Wall Cable – No Trace












| Colour | Roll Length (m) | 0.5mm ² | 1.0mm ² | 2.0mm ² | 4.5mm ² | 6mm ² |
|---|-----------------|------------------------|------------------------|----------------------|----------------------|----------------------|
|  | 100 | TW050-BLK-100 | TW100-BLK-100 | NA | NA | TW600-BLK-100 |
| | 250 | NA | NA | NA | TW450-BLK-250 | NA |
| | 500 | TW050-BLK-500 | TW100-BLK-500 | TW200-BLK-500 | NA | NA |
|  | 100 | TW050-BLU-100 | TW100-BLU-100 | NA | NA | NA |
| | 250 | NA | NA | NA | TW450-BLU-250 | NA |
| | 500 | TW050-BLU-500 | TW100-BLU-500 | TW200-BLU-500 | NA | NA |
|  | 100 | TW050-BRN-100 | TW100-BRN-100 | NA | NA | NA |
| | 500 | TW050-BRN-500 | TW100-BRN-500 | TW200-BRN-500 | NA | NA |
|  | 100 | TW050-D-GRN-100 | TW100-D-GRN-100 | NA | NA | NA |
| | 500 | TW050-D-GRN-500 | TW100-D-GRN-500 | NA | NA | NA |
|  | 500 | NA | NA | TW200-GRN-500 | NA | NA |
|  | 100 | TW050-GRY-100 | TW100-GRY-100 | NA | NA | NA |
| | 500 | TW050-GRY-500 | TW100-GRY-500 | TW200-GRY-500 | NA | NA |
|  | 100 | TW050-ONG-100 | TW100-ONG-100 | NA | NA | NA |
| | 500 | TW050-ONG-500 | TW100-ONG-500 | TW200-ONG-500 | NA | NA |
|  | 100 | TW050-PNK-100 | TW100-PNK-100 | NA | NA | NA |
| | 500 | TW050-PNK-500 | TW100-PNK-500 | NA | NA | NA |
|  | 100 | TW050-PUR-100 | TW100-PUR-100 | NA | NA | NA |
| | 500 | TW050-PUR-500 | TW100-PUR-500 | TW200-PUR-500 | NA | NA |
|  | 100 | TW050-RED-100 | TW100-RED-100 | NA | NA | NA |
| | 250 | NA | NA | NA | TW450-RED-250 | NA |
| | 500 | TW050-RED-500 | TW100-RED-500 | TW200-RED-500 | NA | NA |
|  | 100 | TW050-WHT-100 | TW100-WHT-100 | NA | NA | NA |
| | 500 | TW050-WHT-500 | TW100-WHT-500 | TW200-WHT-500 | NA | NA |
|  | 100 | TW050-YEL-100 | TW100-YEL-100 | NA | NA | NA |
| | 500 | TW050-YEL-500 | TW100-YEL-500 | TW200-YEL-500 | NA | NA |

Items marked as NA can be supplied for an additional fee. Lead times apply.



Cable

Thin Wall Cable – Trace Variations – Black

| Colour | 0.5mm ² | 1.0mm ² | 2.0mm ² |
|--|--------------------|---------------------|---------------------|
|  Blue Trace | NA | TW100-BLK/BLU-500 | NA |
|  Brown Trace | TW050-BLK/BRN-500 | NA | NA |
|  Dark Green Trace | NA | TW100-BLK/D-GRN-500 | TW200-BLK/D-GRN-500 |
|  Green Trace | NA | NA | NA |
|  Grey Trace | NA | TW100-BLK/GRY-500 | NA |
|  Orange Trace | NA | NA | NA |
|  Pink Trace | TW050-BLK/PNK-500 | NA | NA |
|  Purple Trace | NA | NA | NA |
|  Red Trace | NA | TW100-BLK/RED-500 | TW200-BLK/RED-500 |
|  White Trace | TW050-BLK/WHT-500 | TW100-BLK/WHT-500 | TW200-BLK/WHT-500 |
|  Yellow Trace | TW050-BLK/YEL-500 | TW100-BLK/YEL-500 | NA |






Items marked as NA can be supplied for an additional fee. Lead times apply.

Thin Wall Cable – Trace Variations – Blue

| Colour | 0.5mm ² | 1.0mm ² | 2.0mm ² |
|--|---------------------|---------------------|---------------------|
|  Black Trace | TW050-BLU/BLK-500 | TW100-BLU/BLK-500 | TW200-BLU/BLK-500 |
|  Brown Trace | NA | TW100-BLU/BRN-500 | NA |
|  Dark Green Trace | TW050-BLU/D-GRN-500 | TW100-BLU/D-GRN-500 | TW200-BLU/D-GRN-500 |
|  Grey Trace | TW050-BLU/GRY-500 | TW100-BLU/GRY-500 | NA |
|  Orange Trace | NA | TW100-BLU/ONG-500 | NA |
|  Pink Trace | NA | NA | NA |
|  Red Trace | TW050-BLU/RED-500 | TW100-BLU/RED-500 | TW200-BLU/RED-500 |
|  White Trace | TW050-BLU/WHT-500 | TW100-BLU/WHT-500 | TW200-BLU/WHT-500 |
|  Yellow Trace | TW050-BLU/YEL-500 | TW100-BLU/YEL-500 | NA |











Items marked as NA can be supplied for an additional fee. Lead times apply.

Thin Wall Cable – Trace Variations – Brown

| Colour | 0.5mm ² | 1.0mm ² | 2.0mm ² |
|--|--------------------|---------------------|--------------------|
|  Black Trace | NA | TW100-BRN/BLK-500 | NA |
|  Blue Trace | NA | TW100-BRN/BLU-500 | TW200-BRN/BLU-500 |
|  Dark Green Trace | NA | TW100-BRN/D-GRN-500 | NA |
|  Grey Trace | NA | TW100-BRN/GRY-500 | TW200-BRN/GRY-500 |
|  Orange Trace | NA | TW100-BRN/ONG-500 | TW200-BRN/ONG-500 |
|  Pink Trace | NA | TW100-BRN/PNK-500 | TW200-BRN/PNK-500 |
|  Purple Trace | NA | TW100-BRN/PUR-500 | TW200-BRN/PUR-500 |
|  Red Trace | NA | TW100-BRN/RED-500 | NA |
|  White Trace | TW050-BRN/WHT-500 | TW100-BRN/WHT-500 | TW200-BRN/WHT-500 |
|  Yellow Trace | TW050-BRN/YEL-500 | TW100-BRN/YEL-500 | TW200-BRN/YEL-500 |






Items marked as NA can be supplied for an additional fee. Lead times apply.

Thin Wall Cable – Trace Variations – Dark-Green

| Colour | | 0.5mm ² | 1.0mm ² | 2.0mm ² |
|---|--------------|----------------------------|----------------------------|----------------------------|
|  | Black Trace | NA | TW100-D-GRN/BLK-500 | TW200-D-GRN/BLK-500 |
|  | Blue Trace | NA | TW100-D-GRN/BLU-500 | NA |
|  | Brown Trace | TW050-D-GRN/BRN-500 | TW100-D-GRN/BRN-500 | TW200-D-GRN/BRN-500 |
|  | Grey Trace | NA | TW100-D-GRN/GRY-500 | NA |
|  | Orange Trace | NA | TW100-D-GRN/ONG-500 | NA |
|  | Pink Trace | NA | TW100-D-GRN/PNK-500 | NA |
|  | Purple Trace | NA | TW100-D-GRN/PUR-500 | TW200-D-GRN/PUR-500 |
|  | Red Trace | TW050-D-GRN/RED-500 | TW100-D-GRN/RED-500 | TW200-D-GRN/RED-500 |
|  | White Trace | TW050-D-GRN/WHT-500 | TW100-D-GRN/WHT-500 | TW200-D-GRN/WHT-500 |
|  | Yellow Trace | NA | TW100-D-GRN/YEL-500 | NA |







Items marked as NA can be supplied for an additional fee. Lead times apply.

Thin Wall Cable – Trace Variations – Green

| Colour | | 0.5mm ² | 1.0mm ² | 2.0mm ² |
|---|------------------|--------------------------|--------------------|--------------------|
|  | Black Trace | NA | NA | NA |
|  | Brown Trace | NA | NA | NA |
|  | Dark Green Trace | NA | NA | NA |
|  | Purple Trace | NA | NA | NA |
|  | Red Trace | NA | NA | NA |
|  | Yellow Trace | TW050-GRN/YEL-500 | NA | NA |

Items marked as NA can be supplied for an additional fee. Lead times apply.

Thin Wall Cable – Trace Variations – Grey









| Colour | | 0.5mm ² | 1.0mm ² | 2.0mm ² |
|---|--------------|--------------------------|--------------------------|--------------------|
|  | Black Trace | TW050-GRY/BLK-500 | TW100-GRY/BLK-500 | NA |
|  | Blue Trace | NA | TW100-GRY/BLU-500 | NA |
|  | Purple Trace | NA | TW100-GRY/PUR-500 | NA |
|  | Red Trace | NA | TW100-GRY/RED-500 | NA |
|  | White Trace | NA | TW100-GRY/WHT-500 | NA |
|  | Yellow Trace | NA | NA | NA |

Items marked as NA can be supplied for an additional fee. Lead times apply.



Cable

Thin Wall Cable – Trace Variations – Orange

| Colour | | 0.5mm ² | 1.0mm ² | 2.0mm ² |
|---|------------------|--------------------------|----------------------------|--------------------|
|  | Black Trace | NA | TW100-ONG/BLK-500 | NA |
|  | Blue Trace | TW050-ONG/BLU-500 | TW100-ONG/BLU-500 | NA |
|  | Brown Trace | NA | TW100-ONG/BRN-500 | NA |
|  | Dark Green Trace | NA | TW100-ONG/D-GRN-500 | NA |
|  | Purple Trace | NA | TW100-ONG/PUR-500 | NA |
|  | Red Trace | TW050-ONG/RED-500 | NA | NA |
|  | White Trace | NA | TW100-ONG/WHT-500 | NA |
|  | Yellow Trace | NA | NA | NA |


Items marked as NA can be supplied for an additional fee. Lead times apply.

Thin Wall Cable – Trace Variations – Pink

| Colour | | 0.5mm ² | 1.0mm ² | 2.0mm ² |
|---|------------------|--------------------------|----------------------------|--------------------------|
|  | Black Trace | TW050-PNK/BLK-500 | TW100-PNK/BLK-500 | NA |
|  | Blue Trace | NA | TW100-PNK/BLU-500 | NA |
|  | Brown Trace | NA | TW100-PNK/BRN-500 | NA |
|  | Dark Green Trace | NA | TW100-PNK/D-GRN-500 | NA |
|  | Grey Trace | NA | TW100-PNK/GRY-500 | NA |
|  | White Trace | NA | TW100-PNK/WHT-500 | TW200-PNK/WHT-500 |
|  | Yellow Trace | NA | TW100-PNK/YEL-500 | NA |










Items marked as NA can be supplied for an additional fee. Lead times apply.

Thin Wall Cable – Trace Variations – Purple

| Colour | | 0.5mm ² | 1.0mm ² | 2.0mm ² |
|---|------------------|--------------------------|----------------------------|--------------------|
|  | Black Trace | TW050-PUR/BLK-500 | TW100-PUR/BLK-500 | NA |
|  | Blue Trace | NA | TW100-PUR/BLU-500 | NA |
|  | Dark Green Trace | NA | TW100-PUR/D-GRN-500 | NA |
|  | Grey Trace | NA | TW100-PUR/GRY-500 | NA |
|  | Orange Trace | NA | TW100-PUR/ONG-500 | NA |
|  | Pink Trace | NA | TW100-PUR/PNK-500 | NA |
|  | Red Trace | NA | TW100-PUR/RED-500 | NA |
|  | White Trace | TW050-PUR/WHT-500 | TW100-PUR/WHT-500 | NA |
|  | Yellow Trace | NA | TW100-PUR/YEL-500 | NA |











Items marked as NA can be supplied for an additional fee. Lead times apply.

Thin Wall Cable – Trace Variations – Red

| Colour | | 0.5mm ² | 1.0mm ² | 2.0mm ² |
|---|------------------|------------------------------|------------------------------|------------------------------|
|  | Black Trace | TW050- RED /BLK-500 | TW100- RED /BLK-500 | TW200- RED /BLK-500 |
|  | Blue Trace | NA | TW100- RED /BLU-500 | TW200- RED /BLU-500 |
|  | Brown Trace | TW050- RED /BRN-500 | TW100- RED /BRN-500 | NA |
|  | Dark Green Trace | TW050- RED /D-GRN-500 | TW100- RED /D-GRN-500 | TW200- RED /D-GRN-500 |
|  | Grey Trace | NA | TW100- RED /GRY-500 | TW200- RED /GRY-500 |
|  | Orange Trace | NA | TW100- RED /ONG-500 | NA |
|  | Purple Trace | TW050- RED /PUR-500 | TW100- RED /PUR-500 | NA |
|  | White Trace | TW050- RED /WHT-500 | TW100- RED /WHT-500 | TW200- RED /WHT-500 |
|  | Yellow Trace | TW050- RED /YEL-500 | TW100- RED /YEL-500 | TW200- RED /YEL-500 |







Items marked as NA can be supplied for an additional fee. Lead times apply.

Thin Wall Cable – Trace Variations – White

| Colour | | 0.5mm ² | 1.0mm ² | 2.0mm ² |
|---|------------------|----------------------------|----------------------------|----------------------------|
|  | Black Trace | TW050-WHT/BLK-500 | TW100-WHT/BLK-500 | TW200-WHT/BLK-500 |
|  | Blue Trace | TW050-WHT/BLU-500 | TW100-WHT/BLU-500 | NA |
|  | Brown Trace | TW050-WHT/BRN-500 | TW100-WHT/BRN-500 | NA |
|  | Dark Green Trace | TW050-WHT/D-GRN-500 | TW100-WHT/D-GRN-500 | TW200-WHT/D-GRN-500 |
|  | Grey Trace | TW050-WHT/GRY-500 | TW100-WHT/GRY-500 | TW200-WHT/GRY-500 |
|  | Orange Trace | NA | TW100-WHT/ONG-500 | TW200-WHT/ONG-500 |
|  | Pink Trace | NA | TW100-WHT/PNK-500 | NA |
|  | Purple Trace | NA | TW100-WHT/PUR-500 | TW200-WHT/PUR-500 |
|  | Red Trace | TW050-WHT/ RED -500 | TW100-WHT/ RED -500 | TW200-WHT/ RED -500 |
|  | Yellow Trace | TW050-WHT/YEL-500 | TW100-WHT/YEL-500 | TW200-WHT/YEL-500 |

Items marked as NA can be supplied for an additional fee. Lead times apply.

Thin Wall Cable – Trace Variations – Yellow

| Colour | | 0.5mm ² | 1.0mm ² | 2.0mm ² |
|---|------------------|-------------------------------------|-------------------------------------|-------------------------------------|
|  | Black Trace | TW050- YEL /BLK-500 | TW100- YEL /BLK-500 | TW200- YEL /BLK-500 |
|  | Blue Trace | NA | TW100- YEL /BLU-500 | NA |
|  | Brown Trace | NA | TW100- YEL /BRN-500 | NA |
|  | Dark Green Trace | TW050- YEL /D-GRN-500 | TW100- YEL /D-GRN-500 | TW200- YEL /D-GRN-500 |
|  | Grey Trace | NA | NA | NA |
|  | Orange Trace | NA | TW100- YEL /ONG-500 | NA |
|  | Pink Trace | NA | TW100- YEL /PNK-500 | NA |
|  | Red Trace | TW050- YEL / RED -500 | TW100- YEL / RED -500 | TW200- YEL / RED -500 |
|  | White Trace | TW050- YEL /WHT-500 | TW100- YEL /WHT-500 | TW200- YEL /WHT-500 |

Items marked as NA can be supplied for an additional fee. Lead times apply.

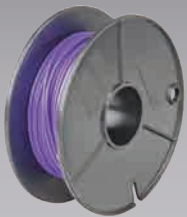


Cable

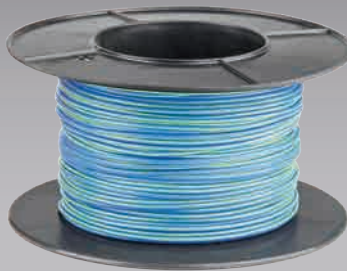
Single Cable



T1-6-RED-100



T1-3-PUR-30



T1-4-BLU/YEL-100



T1-3-YEL/GRN-100

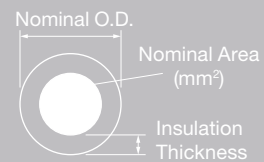
- RoHS Compliant.
- UV Stabilised V90HT PVC insulation.
- Oxygen free, high conductivity copper.
- Wide range of colours, sizes and lengths.
- Made in Australia.



Conductor : Annealed Electrolytic Copper
 Insulation : UV Stabilised V90HT PVC
 Max. Voltage : 50V
 Approvals : RoHS
 Max. Operating Temperature : 90°C














| | T1-3 | T1-4 | T1-5 | T1-6 |
|-----------------------------------|------|------|------|------|
| Industry Equivalent mm : | 3 | 4 | 5 | 6 |
| Nominal Area (mm ²) : | 1.13 | 1.84 | 2.9 | 4.59 |
| Strand Count : | 14 | 23 | 36 | 57 |
| Strand Diameter (mm) : | 0.32 | 0.32 | 0.32 | 0.32 |
| Nominal O.D. (mm) : | 2.2 | 2.3 | 3.0 | 4.0 |



T1-4-GRN/RED-100



Single Cable – No Trace

| Colour | Roll Length | Industry Equivalent mm* | | | |
|--|-------------|-------------------------|--------------|--------------|--------------|
| | | 3mm | 4mm | 5mm | 6mm |
|  Black | 30m | T1-3-BLK-30 | T1-4-BLK-30 | T1-5-BLK-30 | T1-6-BLK-30 |
| | 100m | T1-3-BLK-100 | T1-4-BLK-100 | T1-5-BLK-100 | T1-6-BLK-100 |
|  Blue | 30m | T1-3-BLU-30 | T1-4-BLU-30 | T1-5-BLU-30 | T1-6-BLU-30 |
| | 100m | T1-3-BLU-100 | T1-4-BLU-100 | T1-5-BLU-100 | T1-6-BLU-100 |
|  Green | 30m | T1-3-GRN-30 | T1-4-GRN-30 | T1-5-GRN-30 | T1-6-GRN-30 |
| | 100m | T1-3-GRN-100 | T1-4-GRN-100 | T1-5-GRN-100 | T1-6-GRN-100 |
|  Red | 30m | T1-3-RED-30 | T1-4-RED-30 | T1-5-RED-30 | T1-6-RED-30 |
| | 100m | T1-3-RED-100 | T1-4-RED-100 | T1-5-RED-100 | T1-6-RED-100 |
|  Yellow | 30m | T1-3-YEL-30 | T1-4-YEL-30 | T1-5-YEL-30 | T1-6-YEL-30 |
| | 100m | T1-3-YEL-100 | T1-4-YEL-100 | — | T1-6-YEL-100 |
|  White | 30m | T1-3-WHT-30 | T1-4-WHT-30 | T1-5-WHT-30 | T1-6-WHT-30 |
| | 100m | T1-3-WHT-100 | T1-4-WHT-100 | T1-5-WHT-100 | T1-6-WHT-100 |
|  Brown | 30m | T1-3-BRN-30 | T1-4-BRN-30 | T1-5-BRN-30 | T1-6-BRN-30 |
| | 100m | T1-3-BRN-100 | T1-4-BRN-100 | T1-5-BRN-100 | T1-6-BRN-100 |
|  Grey | 30m | T1-3-GRY-30 | T1-4-GRY-30 | — | — |
| | 100m | T1-3-GRY-100 | T1-4-GRY-100 | — | — |
|  Orange | 30m | T1-3-ONG-30 | T1-4-ONG-30 | T1-5-ONG-30 | T1-6-ONG-30 |
| | 100m | T1-3-ONG-100 | T1-4-ONG-100 | — | — |
|  Pink | 30m | T1-3-PNK-30 | T1-4-PNK-30 | T1-5-PNK-30 | — |
| | 100m | T1-3-PNK-100 | T1-4-PNK-100 | — | — |
|  Purple | 30m | T1-3-PUR-30 | T1-4-PUR-30 | — | — |
| | 100m | T1-3-PUR-100 | T1-4-PUR-100 | — | — |

* Industry term for identifying cable size not conductor size (Nominal Area).






Cable

Single Cable – Trace Variations – Green

| Colour | Roll Length | Industry Equivalent mm* | |
|--|-------------|-------------------------|-------------------------|
| | | 3mm | 4mm |
|  White Trace | 30m | T1-3-GRN/WHT-30 | T1-4-GRN/WHT-30 |
| | 100m | — | T1-4-GRN/WHT-100 |
|  Yellow Trace | 30m | T1-3-GRN/YEL-30 | — |
| | 100m | — | T1-4-GRN/YEL-100 |
|  Black Trace | 100m | — | T1-4-GRN/BLK-100 |




* Industry term for identifying cable size not conductor size (Nominal Area).

Single Cable – Trace Variations – Red

| Colour | Roll Length | Industry Equivalent mm* | |
|---|-------------|-------------------------|-------------------------|
| | | 3mm | 4mm |
|  Green Trace | 30m | T1-3-RED/GRN-30 | — |
| | 100m | — | T1-4-RED/GRN-100 |
|  White Trace | 30m | T1-3-RED/WHT-30 | T1-4-RED/WHT-30 |
|  Blue Trace | 30m | T1-3-RED/BLU-30 | — |
| | 100m | T1-3-RED/BLU-100 | T1-4-RED/BLU-100 |
|  Black Trace | 30m | T1-3-RED/BLK-30 | — |
| | 100m | — | T1-4-RED/BLK-100 |

* Industry term for identifying cable size not conductor size (Nominal Area).

Single Cable – Trace Variations – Yellow

| Colour | Roll Length | Industry Equivalent mm* | |
|---|-------------|-------------------------|------------------------|
| | | 3mm | 4mm |
|  Green Trace | 100m | T1-3-YEL/GRN-100 | — |
|  Red Trace | 100m | T1-3-YEL/RED-100 | — |
|  Blue Trace | 30m | T1-3-YEL/BLU-30 | T1-4-YEL/BLU-30 |
| | 100m | T1-3-YEL/BLU-100 | — |


* Industry term for identifying cable size not conductor size (Nominal Area).

Single Cable – Trace Variations – White

| Colour | Roll Length | Industry Equivalent mm* | |
|---|-------------|-------------------------|-------------------------|
| | | 3mm | 4mm |
|  Red Trace | 100m | — | T1-4-WHT/RED-100 |
|  Blue Trace | 30m | T1-3-WHT/BLU-30 | — |
|  Black Trace | 30m | T1-3-WHT/BLK-30 | — |
| | 100m | — | T1-4-WHT/BLK-100 |
|  Brown Trace | 30m | T1-3-WHT/BRN-30 | — |





* Industry term for identifying cable size not conductor size (Nominal Area).

Single Cable – Trace Variations – Blue

| Colour | Roll Length | Industry Equivalent mm* | |
|--|-------------|-------------------------|-------------------------|
| | | 3mm | 4mm |
|  Red Trace | 30m | T1-3-BLU/RED-30 | — |
| | 100m | T1-3-BLU/RED-100 | T1-4-BLU/RED-100 |
|  White Trace | 30m | T1-3-BLU/WHT-30 | — |
| | 100m | T1-3-BLU/WHT-100 | T1-4-BLU/WHT-100 |
|  Yellow Trace | 100m | T1-3-BLU/YEL-100 | T1-4-BLU/YEL-100 |

* Industry term for identifying cable size not conductor size (Nominal Area).

Single Cable – Trace Variations – Black

| Colour | Roll Length | Industry Equivalent mm* |
|--|-------------|-------------------------|
| | | 3mm |
|  Green Trace | 30m | T1-3-BLK/GRN-30 |
|  Red Trace | 30m | T1-3-BLK/RED-30 |
| | 100m | T1-3-BLK/RED-100 |
|  White Trace | 30m | T1-3-BLK/WHT-30 |
|  Yellow Trace | 30m | T1-3-BLK/YEL-30 |
| | 100m | T1-3-BLK/YEL-100 |

* Industry term for identifying cable size not conductor size (Nominal Area).



Cable

Tinned



TC-2.5-BLU-100

TC-1-ONG-100



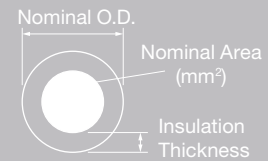
- Protective tin coating on copper provides:
 - Resistance to corrosion.
 - Barrier between materials.
 - Improved solderability & contact properties.
- High Flexibility.
- Lead free PVC insulation.
- RoHS Compliant.
- V90HT (V105).
- Available in a variety of colours.
- Made in Australia.

Approvals :
Max. Operating Temperature :

RoHS
105°C

Single Cable – Tinned

| | TC-.75 | TC-1 | TC-1.5 | TC-2.5 | TC-4 | TC-6 |
|-----------------------------------|--------|------|--------|--------|------|------|
| Nominal Area (mm ²) : | 0.75 | 1 | 1.5 | 2.5 | 4.0 | 6.0 |
| Strand Count : | 24 | 32 | 30 | 50 | 56 | 84 |
| Strand Diameter (mm) : | 0.20 | 0.20 | 0.25 | 0.25 | 0.30 | 0.30 |
| Nominal O.D. (mm) : | 2.4 | 2.6 | 2.9 | 3.5 | 4.7 | 5.46 |



TC2.5-BLU-100



Single Cable – Tinned

| Colour | Nominal Area (mm ²) | | | | | |
|--------|---------------------------------|------------------|--------------------|--------------------|--------------------|--------------------|
| | 0.75mm ² | 1mm ² | 1.5mm ² | 2.5mm ² | 4.0mm ² | 6.0mm ² |
| Black | TC-.75-BLK-100 | TC-1-BLK-100 | TC-1.5-BLK-100 | TC-2.5-BLK-100 | TC-4-BLK-100 | TC-6-BLK-100 |
| Blue | TC-.75-BLU-100 | TC-1-BLU-100 | TC-1.5-BLU-100 | TC-2.5-BLU-100 | – | – |
| Brown | TC-.75-BRN-100 | TC-1-BRN-100 | TC-1.5-BRN-100 | TC-2.5-BRN-100 | – | – |
| Green | – | TC-1-GRN-100 | TC-1.5-GRN-100 | TC-2.5-GRN-100 | – | – |
| Grey | TC-.75-GRY-100 | TC-1-GRY-100 | TC-1.5-GRY-100 | TC-2.5-GRY-100 | – | – |
| Orange | TC-.75-ONG-100 | TC-1-ONG-100 | TC-1.5-ONG-100 | – | – | – |
| Pink | TC-.75-PNK-100 | TC-1-PNK-100 | TC-1.5-PNK-100 | TC-2.5-PNK-100 | – | – |
| Purple | TC-.75-PUR-100 | TC-1-PUR-100 | TC-1.5-PUR-100 | TC-2.5-PUR-100 | – | – |
| Red | TC-.75-RED-100 | TC-1-RED-100 | TC-1.5-RED-100 | TC-2.5-RED-100 | TC-4-RED-100 | TC-6-RED-100 |
| White | TC-.75-WHT-100 | TC-1-WHT-100 | TC-1.5-WHT-100 | TC-2.5-WHT-100 | – | – |
| Yellow | – | TC-1-YEL-100 | TC-1.5-YEL-100 | TC-2.5-YEL-100 | – | – |



Twin Sheathed Cable – Tinned (White Sheath)

| Part No. | Industry Equivalent mm* | Roll Length (m) | Nom. Area (mm ²) | Nom. O.D. (mm) | Conductor |
|----------------------|-------------------------|-----------------|------------------------------|----------------|-----------|
| TC2-3-WHT-30 | 3 | 30 | 1.13 | 3.5 x 5.9 | 16 / 0.30 |
| TC2-3-WHT-100 | 3 | 100 | 1.13 | 3.5 x 5.9 | 16 / 0.30 |
| TC2-4-WHT-30 | 4 | 30 | 1.84 | 3.9 x 6.7 | 26 / 0.30 |
| TC2-4-WHT-100 | 4 | 100 | 1.84 | 3.9 x 6.7 | 26 / 0.30 |
| TC2-6-WHT-30 | 6 | 30 | 4.59 | 5.5 x 9.5 | 65 / 0.30 |

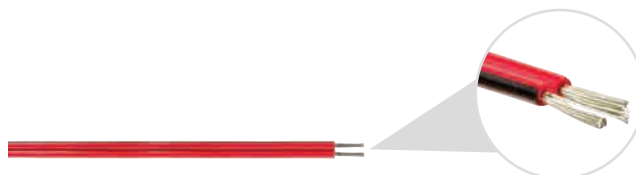
* Industry term for identifying cable size not conductor size (Nominal Area).



Multi Core Cable – Tinned (White Sheath)

| Part No. | Industry Equivalent mm* | No. of Cores | Roll Length (m) | Nom. Area (mm ²) | Nom. O.D. (mm) | Conductor |
|---------------------|-------------------------|--------------|-----------------|------------------------------|----------------|-----------|
| TC3-4-WHT-50 | 3 | 3 | 50 | 1.84 | 6.8 | 26 / 0.30 |

* Industry term for identifying cable size not conductor size (Nominal Area).



Twin Core Figure 8 Cable – Tinned

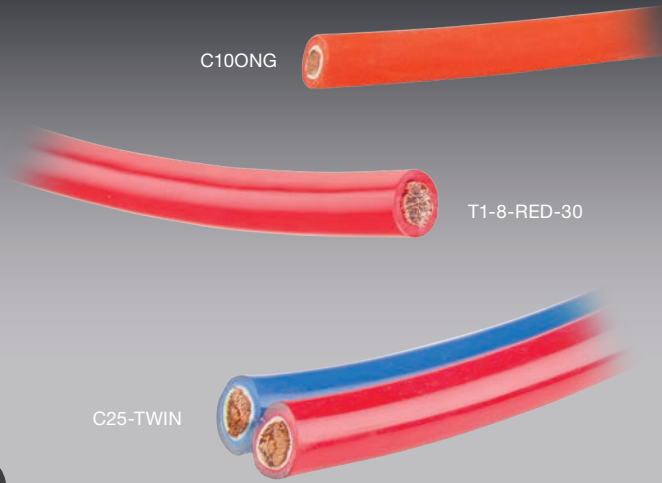
| Part No. | Industry Equivalent mm* | Roll Length (m) | Nom. Area (mm ²) | Nom. O.D. (mm) | Conductor |
|--------------------------|-------------------------|-----------------|------------------------------|----------------|-----------|
| TC8-3-RED/BLK-50 | 3 | 50 | 1.13 | 2.45 x 5.2 | 16 / 0.30 |
| TC8-4-RED/BLK-100 | 4 | 100 | 1.84 | 2.80 x 5.9 | 26 / 0.30 |

* Industry term for identifying cable size not conductor size (Nominal Area).



Cable

Battery Cable





- Standard, Double Insulated, Tinned, and Twin available.
- Oxygen free, high conductivity copper.
- UV stabilised insulation.
- Made in Australia.



Conductor : Annealed Electrolytic Copper
 Insulation : UV Stabilised V90HT PVC
 Approvals : RoHS

Battery Cable

| Part No. | Colour | Roll Length (m) | Nom. Area (mm ²) | Nom. O.D. (mm) | Conductor | Max. Operating Temperature (°C) |
|---|--------|-----------------|------------------------------|----------------|-------------|---------------------------------|
| T1-7-BLK-30 | Black | 30 | 7.72 | 5.5 | 96 / 0.32 | 90 |
| T1-7-BLK-100 | Black | 100 | 7.72 | 5.5 | 96 / 0.32 | 90 |
| T1-7-RED-30 | Red | 30 | 7.72 | 5.5 | 96 / 0.32 | 90 |
| T1-7-RED-100 | Red | 100 | 7.72 | 5.5 | 96 / 0.32 | 90 |
| T1-17-BLK-30 | Black | 30 | 13.51 | 7.0 | 168 / 0.32 | 125 |
| T1-17-BLK-100 | Black | 100 | 13.51 | 7.0 | 168 / 0.32 | 125 |
| T1-17-RED-30 | Red | 30 | 13.51 | 7.0 | 168 / 0.32 | 125 |
| T1-17-RED-100 | Red | 100 | 13.51 | 7.0 | 168 / 0.32 | 125 |
| T1-36-BLK-30 | Black | 30 | 26.46 | 10.6 | 329 / 0.32 | 125 |
| T1-36-RED-30 | Red | 30 | 26.46 | 10.6 | 329 / 0.32 | 125 |
| T1-8-BLK-30 | Black | 30 | 32.09 | 11.7 | 399 / 0.32 | 125 |
| T1-8-RED-30 | Red | 30 | 32.09 | 11.7 | 399 / 0.32 | 125 |
| T1-117-BLK-30 | Black | 30 | 48.90 | 13.7 | 608 / 0.32 | 125 |
| T1-117-RED-30 | Red | 30 | 48.90 | 13.7 | 608 / 0.32 | 125 |
| T1-116-BLK-30 | Black | 30 | 64.18 | 14.7 | 798 / 0.32 | 125 |
| T1-116-RED-30 | Red | 30 | 64.18 | 14.7 | 798 / 0.32 | 125 |
| T1-118-BLK-30  | Black | 30 | 83.24 | 16.8 | 1035 / 0.32 | 125 |
| T1-118-RED-30  | Red | 30 | 83.24 | 16.8 | 1035 / 0.32 | 125 |

Conductor : Annealed Electrolytic Copper
 Insulation : UV Stabilised X-HF-110
 Outer Jacket : LSFLEX® T-10
 Operating Temperature : -40°C to 125°C



Battery Cable – Double Insulated

| Part No. | Colour | Roll Length (m) | Nom. Area (mm ²) | Nom. O.D. (mm) | Conductor | Minimum Bending Radius (mm) |
|---|--------|-----------------|------------------------------|----------------|-------------|-----------------------------|
| C10ONG | Orange | * | 10 | 8.3 | 134 / 0.30 | 24.9 |
| C16ONG | Orange | * | 16 | 9.3 | 210 / 0.30 | 27.9 |
| C25ONG | Orange | * | 25 | 10.9 | 329 / 0.30 | 32.7 |
| C25RED-100 | Red | 100 | 25 | 10.9 | 329 / 0.30 | 32.7 |
| C35BLK-100 | Black | 100 | 35 | 12.1 | 462 / 0.30 | 36.3 |
| C35ONG | Orange | * | 35 | 12.1 | 462 / 0.30 | 36.3 |
| C35RED-100 | Red | 100 | 35 | 12.1 | 462 / 0.30 | 36.3 |
| C50BLK-50 | Black | 50 | 50 | 13.7 | 707 / 0.30 | 41.1 |
| C50ONG | Orange | * | 50 | 13.7 | 707 / 0.30 | 41.1 |
| C50RED-50 | Red | 50 | 50 | 13.7 | 707 / 0.30 | 41.1 |
| C70BLK-50 | Black | 50 | 70 | 15.7 | 980 / 0.30 | 47.1 |
| C70ONG | Orange | * | 70 | 15.7 | 980 / 0.30 | 47.1 |
| C70ONG-50 NEW | Orange | 50 | 70 | 15.7 | 980 / 0.30 | 47.1 |
| C70RED-50 | Red | 50 | 70 | 15.7 | 980 / 0.30 | 47.1 |
| C95BLK-50 | Black | 50 | 95 | 17.6 | 1344 / 0.30 | 52.8 |
| C95ONG | Orange | * | 95 | 17.6 | 1344 / 0.30 | 52.8 |
| C95RED-50 | Red | 50 | 95 | 17.6 | 1344 / 0.30 | 52.8 |
| C120BLK-50 | Black | 50 | 120 | 19.6 | 1672 / 0.30 | 58.8 |
| C120ONG | Orange | * | 120 | 19.6 | 1672 / 0.30 | 58.8 |
| C120RED-50 | Red | 50 | 120 | 19.6 | 1672 / 0.30 | 58.8 |

* These part numbers are modified/cut to customer specifications and are not returnable for credit.



Cable



Conductor : Tinned Annealed Copper
 Insulation : UV Stabilised V90HT PVC
 Approvals : RoHS
 Max. Operating Temperature : 90°C

Battery Cable – Tinned

| Roll Length – 50m | Colour | Nom. Area (mm ²) | Nom. O.D. (mm) | Conductor |
|--------------------|--------|------------------------------|----------------|------------|
| TC13-BLK-50 | Black | 7.92 | 5.4 | 112 / 0.30 |
| TC13-RED-50 | Red | 7.92 | 5.4 | 112 / 0.30 |



Conductor : Annealed Electrolytic Copper
 Insulation : UV Stabilised Nitril modified PVC
 Sheath : Clear V90HT PVC
 Approvals : RoHS

Battery Cable – Double Insulated Twin

| Part No. | Colour | Nom. Area (mm ²) | Nom. O.D. (mm) | Conductor |
|-----------------|----------|------------------------------|----------------|------------|
| C10-TWIN | Red/Blue | 10 | 8.5 x 17.5 | 144 / 0.30 |
| C16-TWIN | Red/Blue | 16 | 9.7 x 19.5 | 224 / 0.30 |
| C25-TWIN | Red/Blue | 25 | 11 x 22.5 | 350 / 0.30 |
| C35-TWIN | Red/Blue | 35 | 12.3 x 25.2 | 490 / 0.30 |
| C50-TWIN | Red/Blue | 50 | 15 x 31 | 770 / 0.30 |

This product is modified/cut to customer specifications and is not returnable for credit.

- High quality single, twin and multi core sheathed cable.
- Oxygen free, high conductivity copper.
- Easy to strip.
- Fine stranded flexible conductor.
- UV Stabilised V90HT PVC.
- Made in Australia.



T1-452-30



T1-164-30



T1-50-30



Conductor : Annealed Electrolytic Copper
Insulation : UV Stabilised V90HT PVC
Max. Voltage : 60V
Max. Operating Temperature : 105°C



Fig 1



Fig 2



Fig 3



Fig 4



Fig 5

Multi Core Cable – Sheathed

| Part No. | Industry Equivalent mm* | No. of Cores | Roll Length (m) | Nom. Area (mm ²) | Nom. O.D. (mm) | Conductor | Fig |
|------------|-------------------------|--------------|-----------------|------------------------------|----------------|-----------|-----|
| T1-48-30 | 3 | 3 | 30 | 1.13 | 5.9 | 14 / 0.32 | 1 |
| T1-48-100 | 3 | 3 | 100 | 1.13 | 5.9 | 14 / 0.32 | 1 |
| T1-109-30 | 3 | 5 | 30 | 1.13 | 7.3 | 14 / 0.32 | 2 |
| T1-109-100 | 3 | 5 | 100 | 1.13 | 7.3 | 14 / 0.32 | 2 |
| T1-115-30 | 3 | 7 | 30 | 1.13 | 7.9 | 14 / 0.32 | 3 |
| T1-115-100 | 3 | 7 | 100 | 1.13 | 7.9 | 14 / 0.32 | 3 |
| T1-451-30 | 4 | 5 | 30 | 1.84 | 8.4 | 23 / 0.32 | 4 |
| T1-451-100 | 4 | 5 | 100 | 1.84 | 8.4 | 23 / 0.32 | 4 |
| T1-452-30 | 4 | 7 | 30 | 1.84 | 9.1 | 23 / 0.32 | 5 |
| T1-452-100 | 4 | 7 | 100 | 1.84 | 9.1 | 23 / 0.32 | 5 |



* Industry term for identifying cable size not conductor size (Nominal Area).



Cable



Twin Cable – Sheathed

| Part No. | Core Colours | Industry Equivalent mm* | Roll Length (m) | Nom. Area (mm ²) | Nom. O.D. (mm) | Conductor |
|---|--------------|-------------------------|-----------------|------------------------------|----------------|------------|
| T1-20-100 | Red/Black | 2 | 100 | 0.56 | 3.7 x 5.6 | 7 / 0.32 |
| T1-10-30 | Red/Black | 3 | 30 | 1.13 | 3.9 x 6.4 | 14 / 0.32 |
| T1-10-100 | Red/Black | 3 | 100 | 1.13 | 3.9 x 6.4 | 14 / 0.32 |
| T1-10-100-BRN/WHT | Brown/White | 3 | 100 | 1.13 | 3.9 x 6.4 | 14 / 0.32 |
| T1-50-30 | Red/Black | 4 | 30 | 1.84 | 4.0 x 6.5 | 23 / 0.32 |
| T1-50-100 | Red/Black | 4 | 100 | 1.84 | 4.0 x 6.5 | 23 / 0.32 |
| T1-50-BRN/WHT-100 | Brown/White | 4 | 100 | 1.84 | 4.0 x 6.5 | 23 / 0.32 |
| T1-27-30 | Red/Black | 5 | 30 | 2.90 | 4.7 x 7.5 | 36 / 0.32 |
| T1-27-100 | Red/Black | 5 | 100 | 2.90 | 4.7 x 7.5 | 36 / 0.32 |
| T1-9-30 | Red/Black | 6 | 30 | 4.59 | 6.1 x 9.0 | 57 / 0.32 |
| T1-9-100 | Red/Black | 6 | 100 | 4.59 | 6.1 x 9.0 | 57 / 0.32 |
| T1-72-30  | Red/Black | 10 | 30 | 7.72 | 8 x 13.2 | 96 / 0.32 |
| T1-172-30  | Red/Black | 16 | 30 | 13.51 | 9.2 x 16.6 | 168 / 0.32 |

* Industry term for identifying cable size not conductor size (Nominal Area).



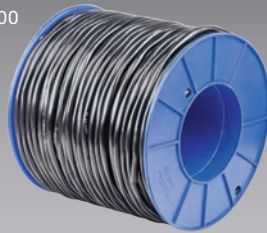
Single Cable – Sheathed (GAS)

| Part No. | Industry Equivalent mm* | Roll Length (m) | Nom. Area (mm ²) | Nom. O.D. (mm) | Conductor |
|------------|-------------------------|-----------------|------------------------------|----------------|-----------|
| T1-162-30 | 3 | 30 | 1.13 | 3.8 | 14 / 0.32 |
| T1-162-100 | 3 | 100 | 1.13 | 3.8 | 14 / 0.32 |
| T1-163-30 | 4 | 30 | 1.84 | 4.2 | 23 / 0.32 |
| T1-163-100 | 4 | 100 | 1.84 | 4.2 | 23 / 0.32 |
| T1-164-30 | 6 | 30 | 4.59 | 5.7 | 57 / 0.32 |
| T1-164-100 | 6 | 100 | 4.59 | 5.7 | 57 / 0.32 |

* Industry term for identifying cable size not conductor size (Nominal Area).

- Wide variety of cable types including:
 - Twin Core Figure 8.
 - Speaker.
 - CAN Data.
 - Multi Core.
 - Coaxial RG58.
 - Shielded with drain wire.

PH275BK-100



PV12/1G

T1-78-BLK/RED-100



T3-367-100



CC58



Specialty



Twin Core Figure 8 Cable

| Part No. | Industry Equivalent mm* | Roll Length (m) | Nom. Area (mm ²) | Nom. O.D. (mm) | Conductor |
|--------------------------|-------------------------|-----------------|------------------------------|----------------|-----------|
| T1-65-RED/BLK-100 | 3 | 100 | 1.13 | 2.6 x 5.9 | 14 / 0.32 |
| T1-78-RED/BLK-100 | 4 | 100 | 1.84 | 3.1 x 6.7 | 23 / 0.32 |

* Industry term for identifying cable size not conductor size (Nominal Area).



Speaker Cable

| Part No. | Roll Length (m) | Nom. Area (mm ²) | Nom. O.D. (mm) | Conductor |
|-------------------|-----------------|------------------------------|----------------|-----------|
| T3-367-100 | 100 | 0.44 | 1.85 x 3.8 | 14 / 0.20 |



Cable

103349,
103349-302



Made in North America



103349B

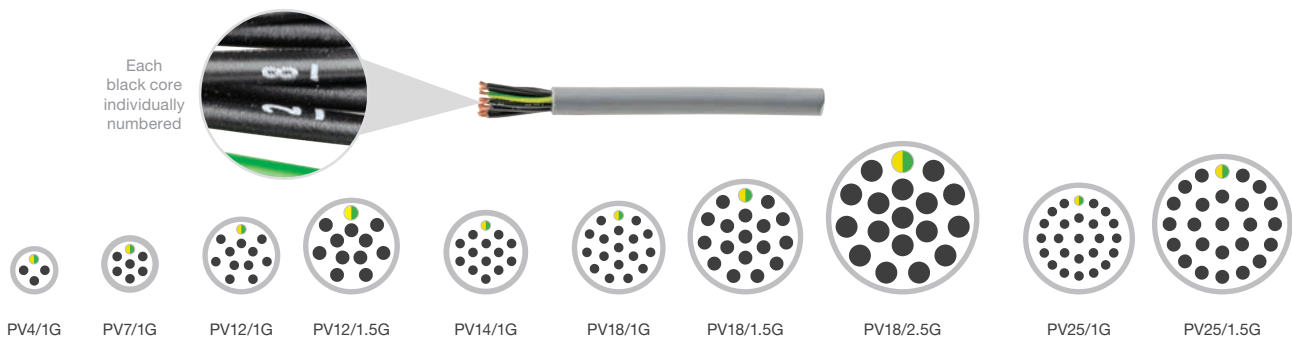


103349R

CAN Data Cable

| Part No. | Description | Core Colours | Roll Length (m) | Nom. Area (mm ²) | Nom. O.D. (mm) | Conductor | Max. Operating Temperature (°C) |
|------------|-----------------------|--------------|-----------------|------------------------------|----------------|-----------|---------------------------------|
| 103349 | 2 Core. Standard-Duty | Yellow/Green | * | 0.5 | 6.14 | 7 / 0.30 | 125 |
| 103349-302 | 2 Core. Standard-Duty | Yellow/Green | 302 | 0.5 | 6.14 | 7 / 0.30 | 125 |
| 103349B | 2 Core. Medium-Duty | Yellow/Green | * | 0.5 | 7.46 | 19 / 0.20 | 125 |
| 103349R | 2 Core. Heavy-Duty | Yellow/Green | * | 0.6 | 7.75 | 19 / 0.20 | 125 |

* These part numbers are modified/cut to customer specifications and are not returnable for credit.



Multi Core Cable – Flexible Control 75°C

| Part No. | No. of Cores | Roll Length (m) | Nom. Area (mm ²) | Nom. O.D. (mm) | Conductor | Core Colours |
|--------------------------|--------------|-----------------|------------------------------|----------------|-----------|-----------------------|
| PV4/1G | 4 | * | 1.0 | 6.4 | 32 / 0.20 | 3 x Black, 1 x Earth |
| PV4/1G-100 NEW | 4 | 100 | 1.0 | 6.4 | 32 / 0.20 | 3 x Black, 1 x Earth |
| PV7/1G | 7 | * | 1.0 | 7.8 | 32 / 0.20 | 6 x Black, 1 x Earth |
| PV7/1G -100 NEW | 7 | 100 | 1.0 | 7.8 | 32 / 0.20 | 6 x Black, 1 x Earth |
| PV12/1G | 12 | * | 1.0 | 10.3 | 32 / 0.20 | 11 x Black, 1 x Earth |
| PV12/1G-100 NEW | 12 | 100 | 1.0 | 10.3 | 32 / 0.20 | 11 x Black, 1 x Earth |
| PV12/1.5G | 12 | * | 1.5 | 12.8 | 28 / 0.26 | 11 x Black, 1 x Earth |
| PV12/1.5G-100 NEW | 12 | 100 | 1.5 | 12.8 | 28 / 0.26 | 11 x Black, 1 x Earth |
| PV14/1G | 14 | * | 1.0 | 11.2 | 32 / 0.20 | 13 x Black, 1 x Earth |
| PV14/1G-100 NEW | 14 | 100 | 1.0 | 11.2 | 32 / 0.20 | 13 x Black, 1 x Earth |
| PV18/1G | 18 | * | 1.0 | 12.4 | 32 / 0.20 | 17 x Black, 1 x Earth |
| PV18/1.5G | 18 | * | 1.5 | 15.3 | 28 / 0.26 | 17 x Black, 1 x Earth |
| PV18/2.5G | 18 | * | 2.5 | 20.3 | 48 / 0.26 | 17 x Black, 1 x Earth |
| PV25/1G | 25 | * | 1.0 | 14.8 | 32 / 0.20 | 24 x Black, 1 x Earth |
| PV25/1G-50 NEW | 25 | 50 | 1.0 | 14.8 | 32 / 0.20 | 24 x Black, 1 x Earth |
| PV25/1.5G | 25 | * | 1.5 | 18.6 | 28 / 0.26 | 24 x Black, 1 x Earth |

* This product is modified/cut to customer specifications and is not returnable for credit.



Coaxial RG58 Cable

| Part No. | Shielding Material | Insulation | Nom. Area (mm ²) | Nom. O.D. (mm) | Conductor | Electrical Resistance (ohms) |
|-------------|---------------------------|------------|------------------------------|----------------|-----------|------------------------------|
| CC58 | 93% Tinned Copper braided | PE | 0.54 | 4.95 | 19 / 0.19 | 50 |

This product is modified/cut to customer specifications and is not returnable for credit.

PH275BK,
PH275BK-100



PH375BK,
PH375BK-100

Special Cable – Shielded – Drain Wire

| Part No. | No. of Cores | Colour | Roll Length (m) | Nom. Area (mm ²) | Nom. O.D. (mm) | Conductor | Max. Operating Temperature (°C) |
|--------------------|--------------|-----------------|-----------------|------------------------------|----------------|-----------|---------------------------------|
| PH275BK | 2 | Red/Black | * | 0.75 | 7.2 | 24 / 0.20 | 90 |
| PH275BK-100 | 2 | Red/Black | 100 | 0.75 | 7.2 | 24 / 0.20 | 90 |
| PH375BK | 3 | Red/Black/White | * | 0.75 | 6.8 | 24 / 0.20 | 90 |
| PH375BK-100 | 3 | Red/Black/White | 100 | 0.75 | 6.8 | 24 / 0.20 | 90 |

*** These part numbers are modified/cut to customer specifications and are not returnable for credit.**

Made in North America



Serial Data Cable

| Part No. | Description | Core Colours | Roll Length (m) | Nom. Area (mm ²) | Nom. O.D. (mm) | Conductor | Max. Operating Temperature (°C) |
|---------------------|-----------------------|--------------|-----------------|------------------------------|----------------|-----------|---------------------------------|
| 0L20-1600-22 | 2 Core. Standard-Duty | White/Black | 60 | 0.72 | 5.45 | 16 / 0.30 | 60 |



Tools



Tools



Crimping Tools **162**



Contact Removal Tools **166**



Workshop Tools **170**



Cable Insertion Tools **174**



- A wide range of crimping tools to suit popular terminals and connectors.
- Tight, complete crimp with minimal effort.
- HDT-48-00 crimps a wide range of contact sizes with no need to change out dies or locators.
- Tools to suit TE DEUTSCH, Packard™ Weather Pack, Micro-Pack and Metri-Pack contacts.
- D2682 features fine blanked, high carbon steel dies.
- HT-K2680 set features 5 different crimping tools in handy tool chest storage tray.



Made in North America

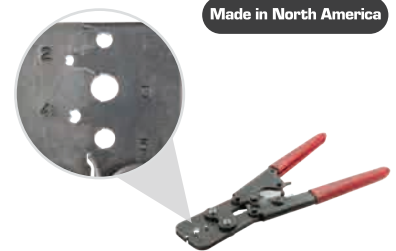
Attaches seal & cable in one action

P-12014254



Made in North America

P-12071687



Made in North America

P-12085270

Crimping Tools – Packard™ Contacts

| Part No. | Description | Crimp Range (mm ²) |
|------------|---|--------------------------------|
| P-12014254 | ■ Ratcheting. Attaches seal & cable in one action | 0.5–0.8, 1.0–2.0 |
| P-12071687 | ■ 480 & 630 Series | 3.0–5.0 |
| P-12085270 | ■ Ratcheting | 0.5–0.8, 1.0–2.0 |

5 Piece Tool Set for Packard™ Contacts

The HT-K2680 set contains tools for:

- Weather Pack — 20, 18, 16, 14, 12 and 10 AWG contacts.
- Micro-Pack — .64, 100 & 100W and GT 150, 280, 630 contacts.
- Metri-Pack — 150, 280, 480 & 630.
- All housed in a handy storage tray.

Also included in the set is a 32 page instruction manual detailing tool specifications as well as an OEM contact number/tool number matrix.

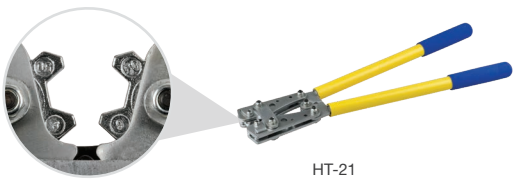
All tools in set are premium quality – made in the USA.



Made in North America

IONNIC Crimping Tool Set – Packard™ Contacts

| Part No. | Description |
|----------|--|
| HT-K2680 | ■ 5 Piece crimping tool set for Packard™ contacts, includes instruction manual |



HT-21



HT-22

Crimping Tools – Crimp Battery Terminals

| Part No. | Description | Crimp Range (mm ²) |
|----------|---|--------------------------------|
| HT-21 | Heavy-duty hex crimper. Rotating die with 6 sizes. 450mm long | 6, 10, 16, 25, 35, 50 |
| HT-22 | Extra heavy-duty hex crimper. Rotating die with 7 sizes. 650mm long | 25, 35, 50, 70, 95, 120, 150 |



DET48



HDT-04-08



DET12, DET16, DET20



D2682



HDT-48-00



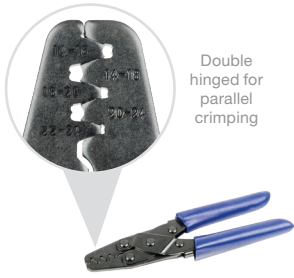
HDT-50-00

Crimping Tools – TE DEUTSCH Solid Contacts

| Part No. | Description | Contact Size (TE DEUTSCH) | Notes |
|-----------|----------------|---------------------------|----------------------------------|
| DET48 | Removable dies | 8, 4 | |
| HDT-04-08 | Removable dies | 8, 4 | |
| DET12 | Ratcheting | 12 | |
| DET16 | Ratcheting | 16 | |
| DET20 | Ratcheting | 20 | |
| D2682 | Ratcheting | 20, 16, 12 | |
| HDT-48-00 | Ratcheting | 20, 16, 12 | HDT-48-00 has a 90 day warranty. |
| HDT-50-00 | Ratcheting | 20, 16, 12 | |



Tools



Double hinged for parallel crimping

HT-4220



Double hinged for parallel crimping

HT-4300



Double hinged for parallel crimping

HT-4301



HT-4560



D7000

D7000
6 Removable Dies

| | |
|-------------------------|-------------------------|
| Die 1 14, 12 AWG | Die 2 10, 12 AWG |
| Die 3 18, 16, 14 AWG | Die 4 20, 18, 16 AWG |
| Die 5 20, 18-16 AWG | Die 6 16, 14, 12 AWG |

Crimping Tools – Stamped & Formed (F-Crimp) Contacts

| Part No. | Description | Crimp Range (mm ²) |
|----------|---|---|
| HT-4220 | Parallel crimping | 0.2–0.3, 0.3–0.5, 0.5–0.8, 0.8–1.3, 1.3–2.0 |
| HT-4300 | Parallel crimping | 0.35, 0.5–0.8, 1.0–2.0, 3.0 |
| HT-4301 | Parallel crimping | 0.35–0.5, 0.75, 1.0, 1.5 |
| HT-4560 | Ratcheting | 0.5–1, 1.5–2.5, 4–6 |
| D7000 | Ratcheting crimp tool set with 6 removable dies | |

AWG to mm²

| American Wire Gauge (AWG) | Diameter (mm) | Nominal Area (mm ²) | American Wire Gauge (AWG) | Diameter (mm) | Nominal Area (mm ²) | American Wire Gauge (AWG) | Diameter (mm) | Nominal Area (mm ²) |
|---------------------------|---------------|---------------------------------|---------------------------|---------------|---------------------------------|---------------------------|---------------|---------------------------------|
| 4 | 5.19 | 21.14 | 12 | 2.05 | 3.31 | 20 | 0.81 | 0.52 |
| 6 | 4.11 | 13.29 | 14 | 1.63 | 2.08 | 22 | 0.65 | 0.33 |
| 8 | 3.26 | 8.36 | 16 | 1.29 | 1.31 | 24 | 0.51 | 0.20 |
| 10 | 2.59 | 5.26 | 18 | 1.02 | 0.82 | | | |





HT-0060



HT-0560

Crimping Tools – Crimp Terminals (Insulated)

| Part No. | Description | Crimp Range |
|----------|--|--------------------|
| HT-0060 |  Ratcheting. Suits Insulated Flag Terminals | Red & Blue |
| HT-0560 |  Ratcheting | Red, Blue & Yellow |





HT-4023



HT-4510

Crimping Tools – Cable Lugs

| Part No. | Description | Crimp Range (mm ²) |
|----------|--|--------------------------------|
| HT-4023 |  Ratcheting | 0.3–2.5, 4–6, 10, 16 |
| HT-4510 |  Ratcheting | 0.25–1.5, 2.5–4, 6–8, 10 |



HT-0460



HT-0580



HT-4305

Crimping Tools – Misc.

| Part No. | Description | Crimp Range (mm ²) |
|----------|--|--------------------------------------|
| HT-0460 |  Ratcheting. Suits Coax Cable RG58, Mini59 & RG174 | — |
| HT-0580 |  Ratcheting. Pre-insulated end sleeve (bootlace) ferrules | 0.25–6 |
| HT-4305 |  Ratcheting. Suits Wire Splice | 0.1–0.25, 0.25–0.5, 0.5–1.0, 1.5–2.5 |





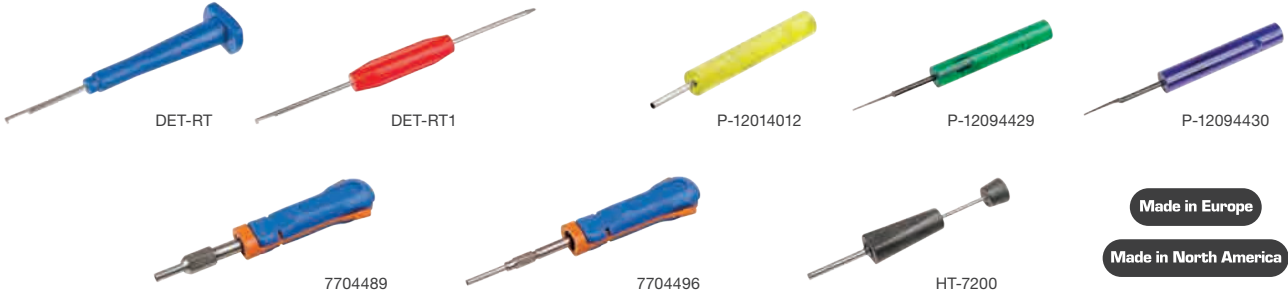
- Removes contact from connector without damage to the wire, insulation, connector seals, or connector body.
- Simplifies contact removal and field service.
- Compact and easy to use.

Made in North America



Contact Removal Tools – TE DEUTSCH

| Part No. | Colour | Contact Size (TE DEUTSCH) | Wire Gauge Size (AWG) | Seal Type | Notes |
|---------------|------------|---------------------------|-----------------------|--------------------------|-----------------|
| 114009 | White | 4 | 6 | Normal Wall (N-Seal) | |
| 114008 | Green | 8 | 10, 8 | Normal Wall (N-Seal) | |
| 0411-353-0805 | Green | 8 | 10, 8 | Normal Wall (N-Seal) | Extended barrel |
| 114010 | Yellow | 12 | 12 | Normal Wall (N-Seal) | |
| 0411-337-1205 | Orange | 12 | 14, 12 | Extra Thin Wall (E-Seal) | |
| 0411-291-1405 | Green | 16 | 16, 14 | Normal Wall (N-Seal) | |
| 0411-310-1605 | Light Blue | 16 | 18, 16 | Thin Wall (T-Seal) | |
| 0411-204-1605 | Dark Blue | 16 | 18, 16 | Normal Wall (N-Seal) | |
| 0411-336-1605 | Blue | 16 | 20, 16 | Extra Thin Wall (E-Seal) | |
| 0411-240-2005 | Red | 20 | 22, 16 | Normal Wall (N-Seal) | |

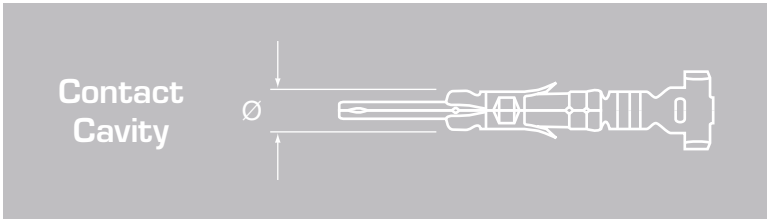


Made in Europe

Made in North America

Contact Removal Tools – Generic

| Part No. | Description |
|-------------------|--|
| DET-RT | Multi-use Hook Tool |
| DET-RT1 | Multi-use hook tool & flat-head blade |
| P-12014012 | Weather-Pack Pin Extraction Tool |
| P-12094429 | Metri-Pack Removal Tool – GT150, GT280, 150, 280, 630 Pull-to-Seat |
| P-12094430 | Metri-Pack Removal Tool – 280, 480, 630, 800 Series Pin Tangless |
| 7704489 | Ø Contact Cavity 5.2mm |
| 7704496 | Ø Contact Cavity 3.3mm |
| HT-7200 | Ø Contact Cavity 2.9mm |

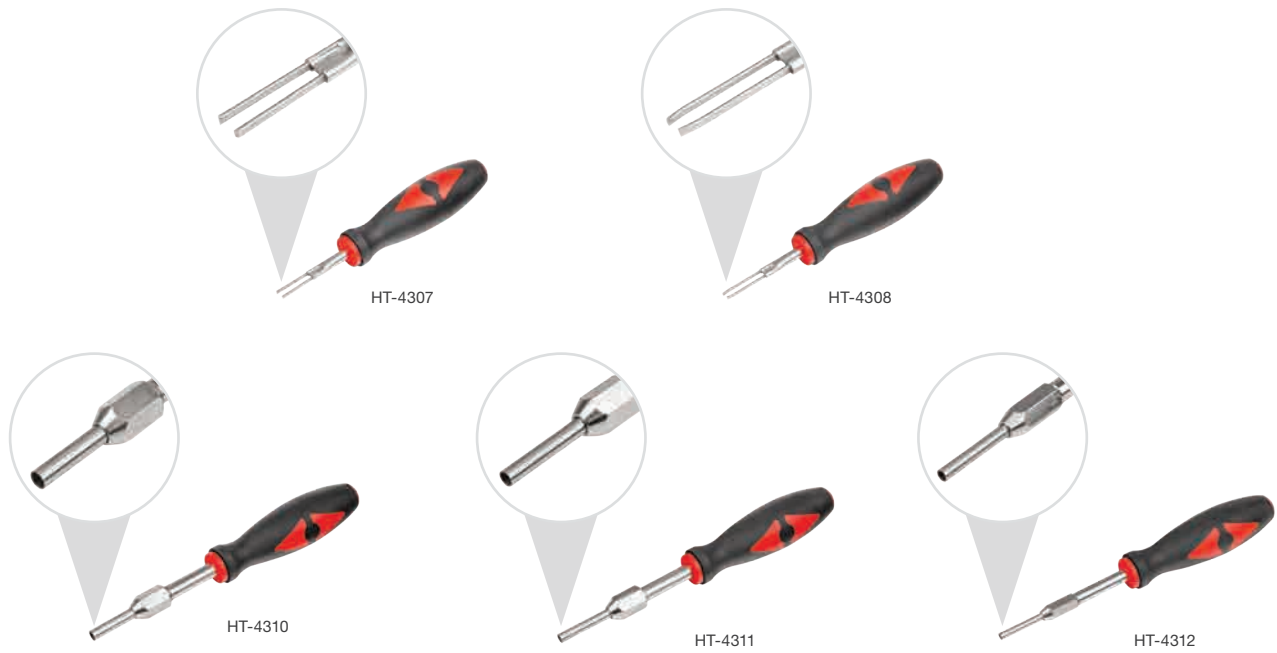


Contact Removal Tools – Heavy-duty

| Size 8 | Size 12 | Size 14 | Size 16 | Size 20 |
|--------------|---|------------|------------|------------|
| D08 | D12 | D14 | D16 | D20 |
| D2683 | Removal tool set including multi-use hook tool & flat-head blade. Removal tool for sizes 4, 8, 12, 14, 16, 20 | | | |

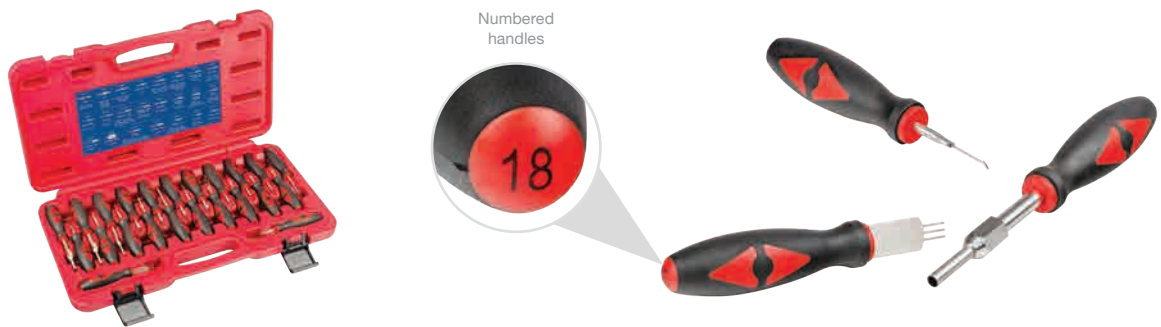


Tools



Contact Removal Tools – Set Components



| Part No. | Tool Number | Description |
|----------|-------------|--|
| HT-4307 | 6 | Flat Blade – Twin – 1.55mm x 17mm. Suits TE MCP 2.8mm Series |
| HT-4308 | 7 | Flat Blade – Twin with Angled Tips – 1.6mm x 20mm. Suits TE MCP 4.8mm & 6.3mm Series |
| HT-4310 | 1 | Tube – 4.3mm Inside Ø |
| HT-4311 | 2 | Tube – 3.7mm Inside Ø |
| HT-4312 | 3 | Tube – 2.6mm Inside Ø |



Contact Removal Tools – Complete Set

| Part No. | Description |
|----------|--|
| HT-4306 | 23 Piece Set. Refer to table on opposite page for details. |

HT-4306 Contact Removal Tools – Complete Set

| Tool Number | Type | Size | | Application |
|-------------|------------------------------------|----------------|---|--|
| 1 | Tube | 4.3mm Inside Ø |  | BMW, Mercedes, Opel, VW/Audi |
| 2 | Tube | 3.7mm Inside Ø |  | BMW, Jaguar, Mercedes, Porsche, Saab, Seat, Skoda |
| 3 | Tube | 2.6mm Inside Ø |  | BMW, Mercedes, Opel, Porsche, VW/Audi |
| 4 | Flat Blade – Twin | 1.6mm x 15mm |  | Ford |
| 5 | Flat Blade – Twin | 1.55mm x 20mm |  | BMW, Ford, Mercedes, Opel, Porsche, Seat, Skoda, VW/Audi |
| 6 | Flat Blade – Twin | 1.55mm x 17mm |  | BMW, Ford, Jaguar, Mercedes, Opel, Porsche, Saab, Seat, Skoda, VW/Audi |
| 7 | Flat Blade – Twin with Angled Tips | 1.6mm x 20mm |  | Mercedes |
| 8 | Flat Blade | 1.8mm x 18mm |  | Ford, Jaguar, Mercedes, Opel, Porsche, VW/Audi |
| 9 | Square Blade | 1mm x 18mm |  | Ford, Mercedes |
| 10 | Flat Blade | 1.15mm x 18mm |  | Mercedes |
| 11 | Flat Blade – Twin | 1.6mm 65mm |  | BMW, Ford, Jaguar, Mercedes, Opel, Porsche, Saab, Seat, Skoda, VW/Audi |
| 12 | Flat Blade – Twin with Angled Tips | 1.65mm x 23mm |  | Opel, Renault, Skoda, VW/Audi |
| 13 | Flat Blade | 3mm x 18.5 |  | Ford, Mercedes |
| 14 | Flat Blade – with Notch | 1mm x 18mm |  | Ford, Jaguar, Porsche |
| 15 | Flat Blade – with U-Notch | 1mm x 24mm |  | BMW, Ford, Mercedes, Opel, Seat, Skoda, VW/Audi |
| 16 | Flat Blade | 1.8mm x 18mm |  | BMW, Ford, Jaguar, Mercedes, Opel, Porsche, VW/Audi |
| 17 | Flat Blade – Twin | 1.6mm x 25mm |  | BMW |
| 18 | Flat Blade – Triple | 1mm x 9mm |  | Mercedes |
| 19 | Pin Blade | 0.9mm x 19mm |  | Citroen, Chrysler, Fiat, Ford, Honda, Mazda, Mercedes, Mitsubishi, Opel, Porsche, Renault, Seat, Toyota, VW/Audi |
| 20 | Flat Blade – Twin | 1.6mm x 20mm |  | Ford |
| 21 | Flat Blade – Twin | 0.9mm x 15mm |  | BMW, Ford, Jaguar, Mercedes, Opel, Porsche, Saab, Seat, Skoda, VW/Audi |
| 22 | Pick Blade | 1mm x 19mm |  | Honda, Opel, Toyota, VW/Audi |
| 23 | Flat Blade – Twin | 0.9mm x 13mm |  | Opel, VW/Audi |





HT-15



HT-6180

- Wide range of workshop tools including:
 - Cable cutters.
 - Wire strippers.
 - Multimeter.
 - Compartment boxes and more.



HT-6180



HT-6325

Multimeters

| Part No. | Description |
|----------|---|
| HT-6180 | Mid range. 2.5" display. Voltage AC/DC (non-contact AC). Current AC/DC. VFC, resistance, diode, capacitance, frequency, temperature (°C & °F) |
| HT-6325 | Lead kit. |



Workshop Tools

| Part No. | Description |
|----------|---|
| HT-2400 | Contact cleaner "IPA" |
| HT-2449 | Butane gas refill |
| HT-2495 | Pro torch. Includes detachable base |
| HT-2490 | Soldering iron – gas powered (cordless). 30–125W. 250°C ~ 550°C. ~120mins |
| HT-6200 | Digital vernier caliper – hardened stainless. Supplied with case. Max. length 150mm |
| HT-6500 | Test light. 12V. 1.2m cable |
| HT-6600 | LED test light. 12V. 1.5m cable. Heavy-duty |
| EGG50 | Senson electro guard grease. 50ml |
| HT-6000 | Harness tool set |



SOLDERC0.7



SOLDERAC3.2



SOLDERSTICK

Solder

| Part No. | Ø (mm) | Weight (g) | Description |
|-------------|--------|------------|------------------|
| SOLDERC0.7 | 0.7 | 500 | Resin core |
| SOLDERC1.6 | 1.6 | 500 | Resin core |
| SOLDERC2.3 | 2.3 | 500 | Resin core |
| SOLDERC3.2 | 3.2 | 500 | Resin core |
| SOLDERAC3.2 | 3.2 | 500 | Acid core |
| SOLDERSTICK | 6 | — | 400mm cut length |



Tools



HT-10



HT-11



HT-12



HT-14



HT-15



HT-16



HT-30



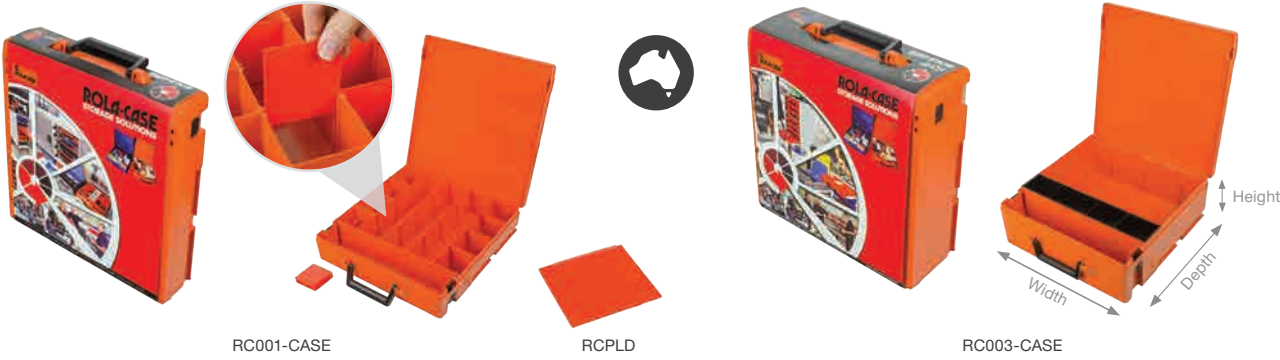
HT-31



HT-34

Cable/Wire Tools

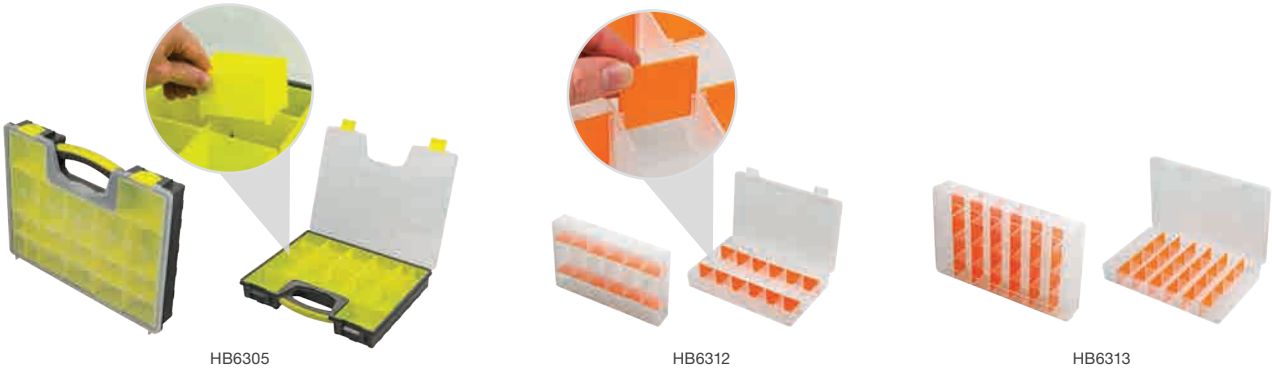
| Part No. | Description |
|----------|--|
| HT-10 | Cable cutter – Up to 35mm ² |
| HT-11 | Cable cutter – Up to 70mm ² |
| HT-12 | Cable cutter – Up to 300mm ² |
| HT-14 | Side cutters – Knipex – 250mm |
| HT-15 | Side cutters – Knipex – 180mm |
| HT-16 | Side cutters – 115mm |
| HT-30 | Wire stripper/cutter |
| HT-31 | Wire stripper/cutter – heavy-duty |
| HT-34 | Cable tie gun heavy-duty – metal. Cuts 2.5mm – 4.8mm width |



RC001-CASE

RCPLD

RC003-CASE



HB6305

HB6312

HB6313



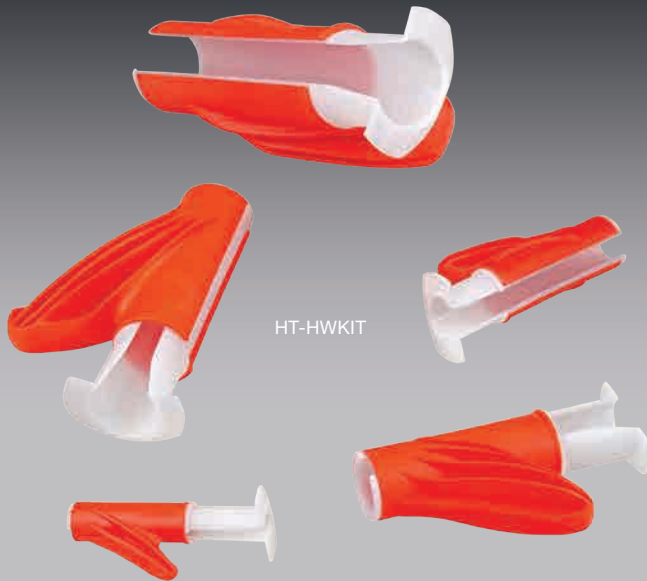
HB9025A

HB9025C

Compartment Boxes

| Part No. | Description | Height (mm) | Width (mm) | Depth (mm) |
|-------------------|--|-------------|------------|------------|
| RC001-CASE | Rola-Case®. Removable dividers | 85 | 370 | 370 |
| RCPLD | Single Rola-Case® divider. Suits RC001-CASE | | | |
| RC003-CASE | Rola-Case® | 130 | 370 | 370 |
| HB6305 | Compartment Box. Removable compartments | 50 | 420 | 320 |
| HB6312 | Compartment Box. Removable dividers | 40 | 275 | 170 |
| HB6313 | Compartment Box. Removable dividers | 45 | 350 | 220 |
| HB9025A | Compartments: 20 x small, 1 x large | 45 | 370 | 250 |
| HB9025C | Compartments: 16 x small, 2 x shallow, 1 x large shallow | 45 | 370 | 250 |





- 5 piece set suiting cable bundles from 9.5mm to 31mm in diameter.
- Quick and easy method of inserting cable bundles into conduit or wrap style harness protection.
- Protects cables from abrasion damage while inserting into sleeving/conduit.
- HT-HWKIT ideal for use with the IONNIC range of ION-Guard™ Guard-Wrap sleeving, for more info see page 55.

Using Insertion Tools



1. Rotate inner white section to open position to allow the insertion of cable bundle.



2. Rotate inner white section so cables can not fall out.



3. Slide the open end of wrap over the point of the insertion tool.



4. Hold cable and wrap together at one end and pull tool down along cable bundle.

Individual Tool Sizes

Suits cable bundles up to the following sizes:



Ø 9.5mm.
Matching Guard-Wrap
SSV-005, SSV-008,
SSV-010.



Ø 16mm.
Matching Guard-Wrap
SSV-013.



Ø 20mm.
Matching Guard-Wrap
SSV-016.



Ø 24.5mm.
Matching Guard-Wrap
SSV-019.



Ø 31mm.
Matching Guard-Wrap
SSV-025.

Cable Insertion Tools – 5 Piece Set

| Part No. | Description |
|----------|--|
| HT-HWKIT | 5 piece set suiting cable bundles from Ø9.5mm to Ø31mm |

Made in Europe



9001511



9001520



9001543



9001550

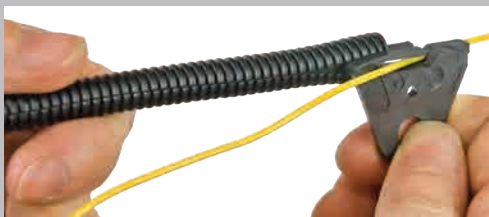
Cable Insertion Tools – Conduit

| Part No. | Description | Suitable Conduit Size (NW) |
|----------|---|----------------------------|
| 9001511 | Single cable insertion tool | 6 – 13 |
| 9001520 | Universal cable insertion tool with offset flange | 10 – 26 |
| 9001543 | Universal cable insertion tool – small | 8.5 – 12 |
| 9001550 | Universal cable insertion tool – large | 13 – 26 |

Using Conduit Cable Insertion Tools



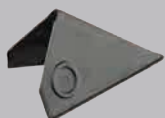
Single Cable Insertion Tool



Insert the point of the single cable insertion tool into end of conduit with cable as shown.



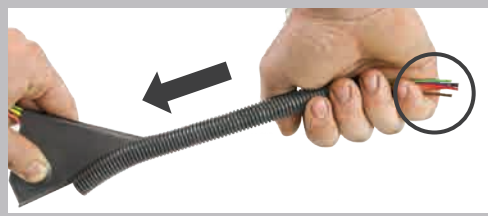
While holding end of conduit with cable, pull the insertion tool down the length of conduit.



Universal Cable Insertion Tool



Insert tool wedge containing wires into conduit split.



Drag insertion tool down the length of conduit whilst holding cables.



Electronics



Electronics



Voltage Converters **178**



RCD/GPO Inverters **181**



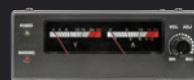
Pure Sine Wave Inverters **182**



AC to DC Battery Chargers **184**



DC to DC Battery Chargers **185**



Power Supply **186**



Digital Inclinometer **187**



Battery Monitor Plus **188**



Hour Meters **190**



Brake Controllers **191**



P5027



ED-DC1224-10



- High efficiency & long life.
- Easy to install.
- Transient, short circuit, over-voltage & over temperature protected.
- Multiple ED series units can be installed to modify overall output.
- P5027M model features radio memory function.
- NG/REC models encapsulated for enhanced resistance to vibration and humidity.
- Select models supplied with an LED status indicator.
- 2 or 5-year warranty.

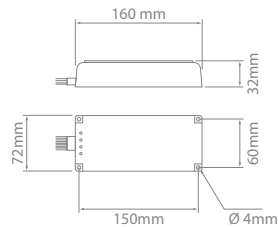
Approvals :

ED Series, P502 Series
ED Series

C-Tick
CE
RoHS



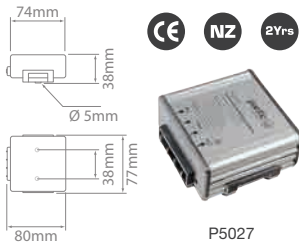
LED status indicator



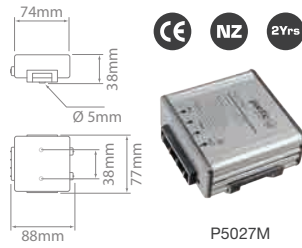
Voltage Converters – Multi Circuit

| Part No. | Function | Input Voltage | Output Voltage | Circuits | Power Rating (W) | Weight (kg) |
|---------------|----------|---------------|----------------|----------|------------------|-------------|
| NGVR11 | Reducer | 24 | 12 | 4 | 450 | 0.4 |

For use with incandescent and LED lighting only.

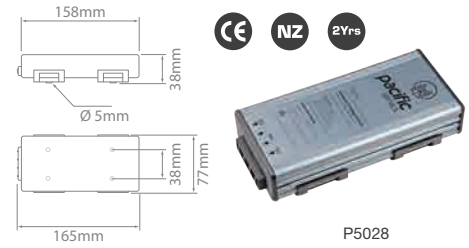


P5027



P5027M

Features radio memory function



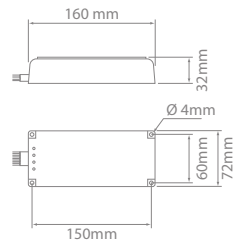
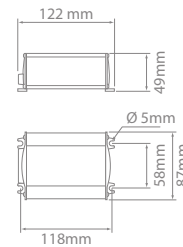
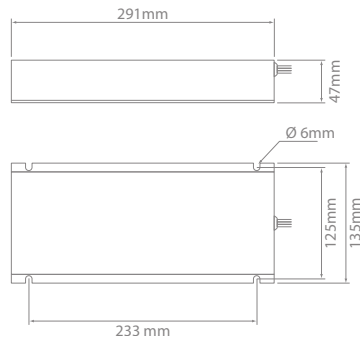
P5028



VR4



ED-DC2412-20



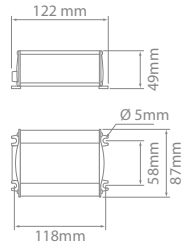
REC2412-30NG

Voltage Converters

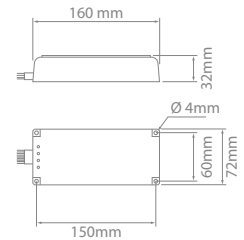
| Part No. | Function | Input Voltage | Output Voltage | Circuits | Current Rating (A) | Weight (kg) |
|--------------|-------------------|---------------|----------------|----------|--------------------|-------------|
| P5027 | Reducer | 15 – 38 | 13.2 | 1 | 10 | 0.2 |
| P5027M* | Reducer | 15 – 38 | 13.2 | 1 | 10 | 0.2 |
| P5028 | Reducer | 18 – 38 | 13.2 | 1 | 20 | 0.3 |
| VR4 | Reducer | 20 – 30 | 13.5 | 1 | 14 | 1.0 |
| ED-DC2412-20 | Reducer | 20 – 30 | 13.8 | 1 | 20 | 0.5 |
| REC2412-30NG | Reducer/Equaliser | 22 – 30 | 15 | 1 | 40 | 0.6 |

* Features 12V/100mA accessory switched output (radio memory function).





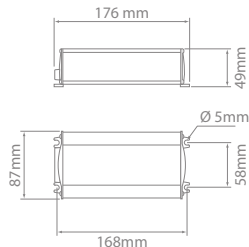
ED-DC1224-10



VDBC1224-20

Voltage Converters – Doublers

| Part No. | Function | Input Voltage | Output Voltage | Circuits | Current Rating (A) | Weight (kg) |
|--------------|-----------------|---------------|----------------|----------|--------------------|-------------|
| ED-DC1224-10 | Doubler | 9 – 18 | 25 | 1 | 10 | 0.5 |
| VDBC1224-20 | Charger/Doubler | 11.5 – 15.5 | 29 | 1 | 20 | 0.6 |



Isolated Voltage Converter

Isolated voltage converters (also known as Galvanic Isolated) provide full dielectric isolation (no electric contact) between input and output circuits by means of a high frequency converter, which may be a safety requirement for certain applications.

Isolated units also have strong noise and interference blocking capabilities thus providing a cleaner DC source for sensitive loads.

Typical applications requiring isolated voltage converters are – Communications, Entertainment & Navigation Systems, Forklifts etc.

Voltage Converters – Galvanic Isolation

| Part No. | Function | Input Voltage | Output Voltage | Circuits | Current Rating (A) | Weight (kg) |
|----------------|-----------|---------------|----------------|----------|--------------------|-------------|
| ED-DC1212-15G | Equaliser | 9 – 18 | 12.5 | 1 | 15 | 0.6 |
| ED-DC2412-15G | Equaliser | 20 – 35 | 12.5 | 1 | 15 | 0.6 |
| ED-DC2424-7.5G | Equaliser | 20 – 35 | 24 | 1 | 7.5 | 0.6 |
| ED-DC1224-7.5G | Doubler | 9 – 18 | 24 | 1 | 7.5 | 0.6 |

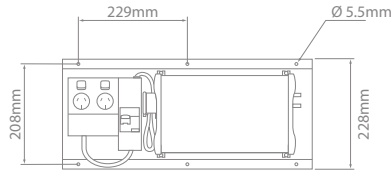
- AS/NZ 4763-2011 approved portable inverter.
- Pure sine wave output.
- RCD switch with M.E.N. for improved workplace safety.
- High surge capacity.
- Transient, short circuit, over-voltage & over temperature protected.
- Audio alarm & warning/error codes for easy diagnosis.
- Remote switch panel included.
- Ideal for telecommunication, emergency, council vehicles, caravan, camper trailer & marine applications.
- 5-year warranty.



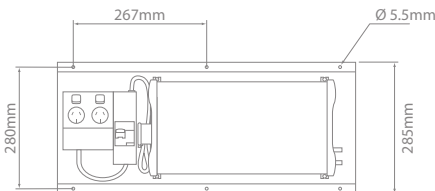
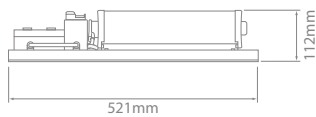
ED-IV1012R



Input Voltage : 10.5–15.5VDC
 AC Output : 230VAC 50Hz
 General Power Outlet : 2
 Cable Length : Remote Panel 6m
 Approvals : CE, C-Tick & 'e' marked
 Operating Temperature : 0°C to 40°C



ED-IV1012R



ED-IV2012R



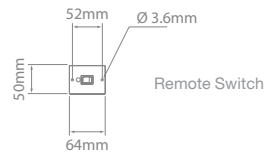
Double pole dual GPO
(General Power Outlet)

RCD (Residual-Current
Device) Safety Switch

Remote switch panel
with 6m cable



ED-IV1012R



RCD/GPO Inverters

| Part No. | Output Power (W) | Output Current (A) | Weight (kg) |
|------------|------------------|--------------------|-------------|
| ED-IV1012R | 1000 | 4.3 | 5.5 |
| ED-IV2012R | 2000 | 8.7 | 8.5 |



ED-IV1012



ED-IV4012

- Pure sine wave output.
- High surge capacity.
- Transient, short circuit, over-voltage & over temperature protected.
- Audio alarm & warning/error codes for easy diagnosis.
- 12V & 24V models available.
- Australian general power outlets on all models.
- Select models include a 5V USB port.
- LCD panel for control and monitoring on select models.
- Switch panels can be remotely mounted.
- 5-year warranty.



AC Output :
Approvals :
Operating Temperature :

230VAC 50Hz
CE, C-Tick & 'e' marked
0°C to 40°C



Australian GPO



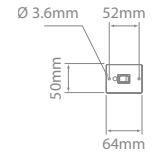
5V USB charging port (5V 750mA)



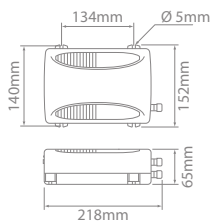
ED-IV2012



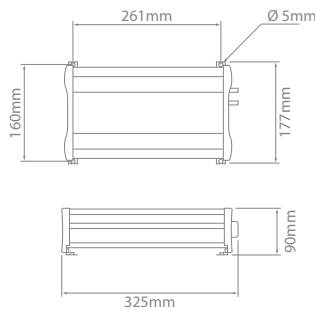
Remote switch panel with 6m cable



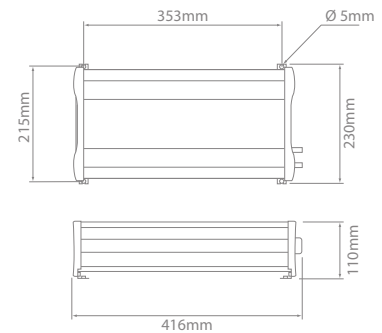
Remote Switch Panel



ED-IV4012



ED-IV1012



ED-IV2012

Pure Sine Wave Inverters

| Part No. | Input Voltage | Output Power (W) | Output Current (A) | GPOs | Weight (kg) |
|-----------|---------------|------------------|--------------------|------|-------------|
| ED-IV4012 | 12 | 400 | 1.74 | 1 | 1.1 |
| ED-IV1012 | 12 | 1000 | 4.3 | 1 | 2.9 |
| ED-IV2012 | 12 | 2000 | 8.7 | 2 | 5.5 |

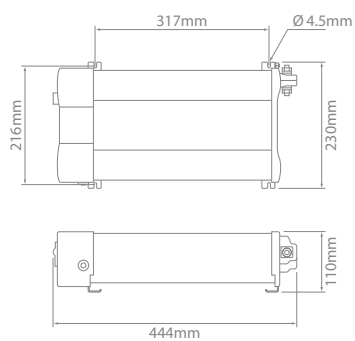


Fig 1

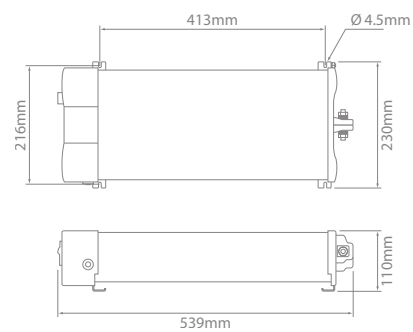



Fig 2

Pure Sine Wave Inverters – LCD Panel

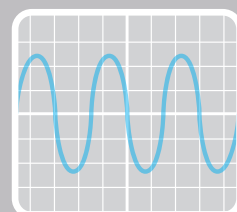
| Part No. | Input Voltage | Output Power (W) | Output Current (A) | GPOs | Weight (kg) | Fig |
|---|---------------|------------------|--------------------|------|-------------|-----|
| ED-IV2012X | 12 | 2000 | 8.7 | 1 | 5.5 | 1 |
| ED-IV2024X | 24 | 2000 | 8.7 | 1 | 5.5 | 1 |
| ED-IV2612X  | 12 | 2600 | 11.3 | 1 | 7 | 2 |

Pure Sine Wave

Pure sine wave inverters produce current that is close to grid AC output.

There are many advantages to pure sine wave inverters over others:

- Reliably powers devices that will not work with modified sine wave inverters.
- Very low harmonic distortion and clean power similar to utility supplied electricity.
- Inductive loads like microwaves and motors run faster, quieter and cooler.
- Reduces audible and electrical noise in fans, fluorescent lights, audio amplifiers, TV, fax and answering machines.
- Prevents crashes in computers, weird print outs and glitches in monitors.



ED-3REM



ED-BC4012



- Selectable outputs for different battery types.
- 4 stage charging controls:
 - Bulk.
 - Absorption.
 - Float.
 - Maintenance.
- Output current controlled via front keypad.
- Priority charge function on bank 1.
- Selectable Night Mode for silent operation.
- Optional LCD panel for remote control and monitoring.
- Transient, short circuit, over voltage & over temperature protected.
- 12V & 24V models available.
- 5-year warranty.

Input Voltage : 90–265VAC
Frequency : 50–60Hz
Output Circuits : 3*
Battery Types : Flooded, Lithium, AGM/GEL
Approvals : C-Tick, AS/NZS 60335.2.29
Operating Temperature : -20°C to 60°C

*1 fully independent, 2 common with diode isolation



ED-BC4012



3 output banks with priority charge function on bank 1

Optional LCD panel for remote control and monitoring

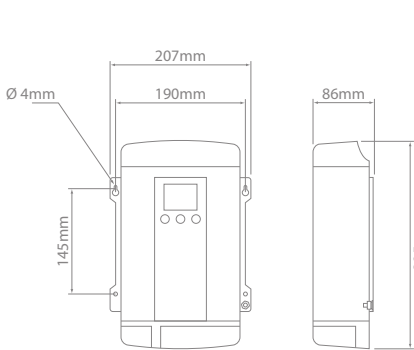


Fig 1

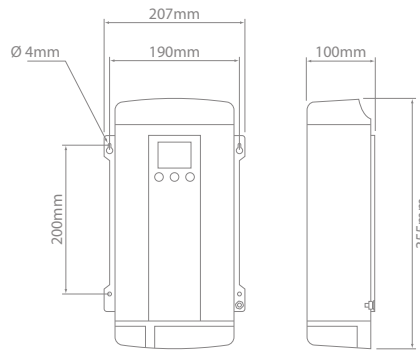


Fig 2

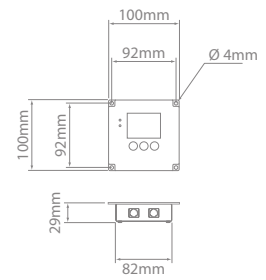


Fig 3

AC to DC Battery Chargers

| Part No. | Model | Output Current (A) | Output Voltage (DC) | | Weight (kg) | Fig |
|-----------|---|--------------------|---------------------|------|-------------|-----|
| | | | Min | Max | | |
| ED-BC2012 | 12V | 20 | 14.2 | 15.5 | 2.4 | 1 |
| ED-BC3024 | 24V | 30 | 28.4 | 31.0 | 4.0 | 2 |
| ED-BC4012 | 12V | 40 | 14.2 | 15.5 | 2.6 | 1 |
| ED-BC6012 | 12V | 60 | 14.2 | 15.5 | 4.0 | 2 |
| ED-3REM | Optional LCD remote panel with 7.3m cable | | | | | 3 |

- Multi-stage charging controls.
- Transient, short circuit, over voltage & over temperature protected.
- Compatible with flooded cell, lithium and AGM/GEL batteries.
- NGBC series & REC2410-30NG encapsulated for enhanced resistance to vibration and humidity.
- LED status indicator supplied with select models.
- BC-2412-10 incorporates internal resettable fuse.
- ED models features solar input capability.
- ED models includes temperature sensor for more accurate battery charging.
- 2 or 5-year warranty.



ED-DCBC4012



VDBC1224-20

Output Circuits : 1
 Inputs : 1 x Battery
 ED Models 1 x Battery & Solar
 Battery Types : Flooded, Lithium, AGM/GEL
 Approvals : C-Tick
 Operating Temperature : -20°C to 60°C

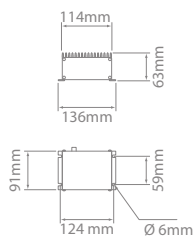
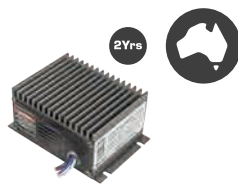


Fig 1

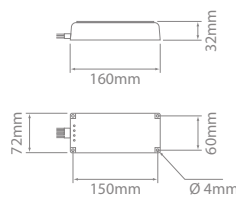
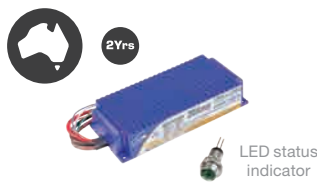


Fig 2

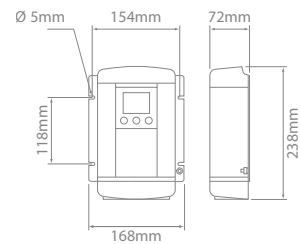


Fig 3

DC to DC Battery Chargers

| Part No. | Output Current (A) | Input Voltage (DC) | Nominal Output Voltage (DC) | Weight (kg) | Alternate Functions ^Δ | Fig |
|---------------------|--------------------|--------------------|-----------------------------|-------------|----------------------------------|-----|
| BC-2412-10 | 10 | 24 | 12 | 0.7 | — | 1 |
| VDBC1224-20 | 20 | 12 | 24 | 0.6 | Voltage Doubler | 2 |
| REC2412-30NG | 40 | 22 – 30 | 12 | 0.6 | Voltage Reducer/Equaliser | 2 |
| ED-DCBC3024 | 30 | 12/24 | 24 | 1.8 | MPPT Solar 14-45V | 3 |
| ED-DCBC4012 | 5-50* | 12/24 | 12 | 1.8 | MPPT Solar 14-45V | 3 |

* User selectable.

^Δ Alternate functions must be set prior to installation.



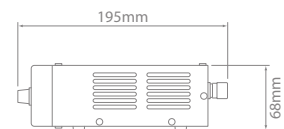
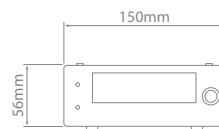


- Adjustable output voltage.
- Light & portable.
- Internal cooling.
- LED status indicators.
- Transient, short circuit, over voltage & over temperature protected.



Approvals :
Operating Temperature :

CE, C-Tick
0°C to 80°C



Power Supply

| Part No. | Output Current (A) | Input Voltage (AC) | Output Voltage (DC) | Weight (kg) |
|----------------|--------------------|----------------------|---------------------|-------------|
| RPS3800 | 15 – 17.4 | 90 – 125 / 200 – 240 | 0 – 24* | 1.1 |

* User selectable.

- Integrated accelerometer for pitch & roll measurements.
- 3 stage configurable warning and alarm.
- Internal buzzer.
- Multi-voltage.
- Full colour display.
- Compact size.
- Made in Australia.



Voltage : 9-36V
 Body : ABS
 Connector : 1.9m lead to cigar plug
 Weight : 90g
 Approvals : CE, C-Tick
 Operating Temperature : -40°C to 85°C

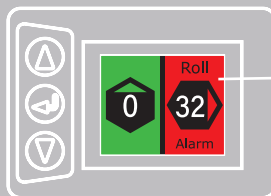
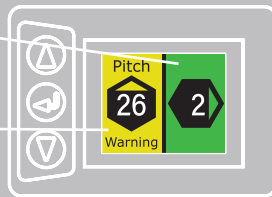


Pitch & Roll

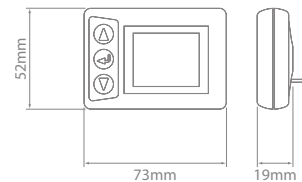
Digital inclinometer incorporates a 3 stage visual and audible warning for a vehicle's pitch and roll, each warning stage can be user configured.

Stage 1 – Green
 Safe Range, no alarm.

Stage 2 – Yellow
 Slow beeping.



Stage 3 – Red
 Fast beeping.



Digital Inclinometer

Part No.
HMDS0400

Supplied with mounting bracket and hardware.



Control & Display Unit

(actual size)

Large circular bar graph clearly shows battery charge at a glance. Smart display animations indicate whether the battery is being charged or discharged and by which intensity.



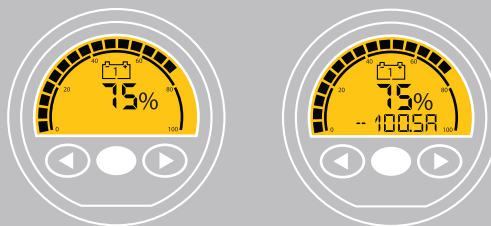
Compact round Control & Display Unit with splash proof front panel, large backlit display and only 36mm installation depth.

Permanent large digit battery state of charge (%) indicator.

Second parameter row allows an additional parameter to be shown. During setup, this row will also show a clear textual explanation of each function.

Simple three button interface allows easy parameter readout selection in normal operating mode and intuitive navigation through the setup menus.

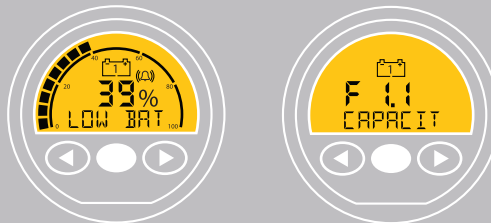
Normal operating mode (second parameter row disabled).



Second parameter row can display:

- Volts
- Amperes
- Watts
- Maintenance hours
- Temperature
- Ampere hours
- Time remaining

Alarm icon and scrolling explanation. An audible alarm can also be enabled.



Scrolling text clearly explains functions during setup.

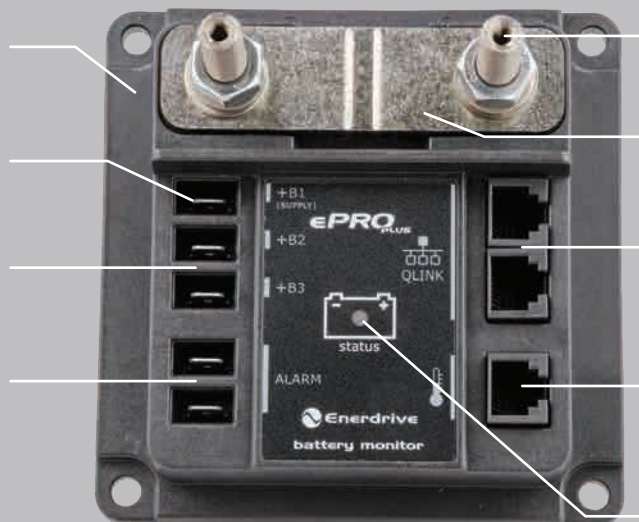
Intelligent Shunt Module

Special fiber reinforced base material offers excellent high temperature properties, good chemical resistance and high strength.

Voltage sense input for (main) battery bank 1. Also positive supply input for ePRO Plus.

Voltage sense inputs for battery banks 2 and 3. Or assignable to other functions.

Potential free 5A/30VDC (1A/70VDC) programmable alarm relay contact to control external equipment.



Stainless steel studs, nuts and washers for optimal corrosion resistance.

Ultra low loss custom made shunt module can handle 500A continuously.

Dual QLINK port for connection to the Control & Display Unit or other accessories.

Input port for optional battery temperature sensor.

Multi purpose indicator provides status, error and battery charge information (3 colours).





IHM01



SY15186

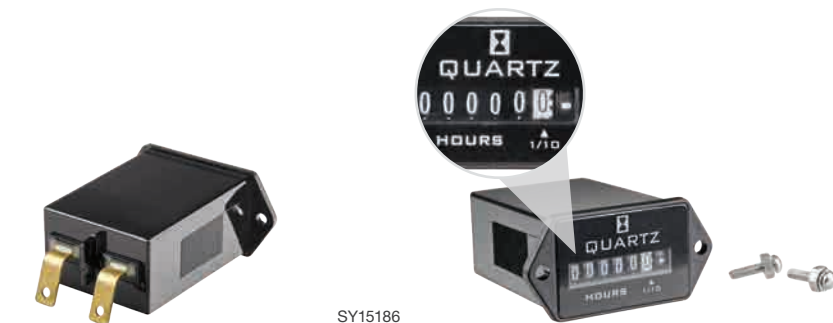
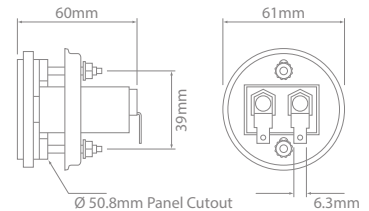
- Sealed case.
- Multi-voltage.
- Transient voltage & reverse polarity protected.
- IHM01 aluminium bezel.
- 6 digit display.
- Running indicator.
- 4mm numeral height.
- Shock & vibration resistance.
- Quartz accuracy.
- Made in North America.

| | |
|-------------------------|------------------------|
| Voltage : | 10–80V |
| Current Draw : | 0.16A |
| Shock : | 55G |
| Vibration : | 20G max. rms 10 – 80Hz |
| Case : | Black Polymer |
| Wire Length : | 390mm |
| Type : | Electromechanical |
| Accuracy : | +/- 0.02% |
| Approvals : | CE, RoHS |
| Operating Temperature : | -40°C to 85°C |

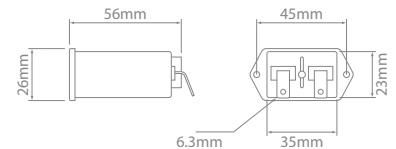


Black anodised aluminium

IHM01



SY15186



Hour Meter Kits

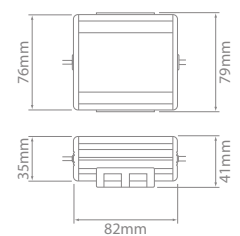
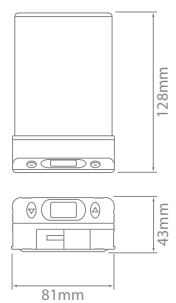
| | | |
|-----------------|-------------|--|
| Part No. | Lens | Kit contents: |
| IHM01 | Glass | 1 x Display 1 x Mounting hardware 1 x Wiring harness – 390mm |
| SY15186 | Plastic | 1 x Display 1 x Mounting hardware |

- Microprocessor technology – no time delay.
- 12V and 24V models available.
- Incorporates override function for manual control.
- In-cab control & indication.
- 2 axle 12A output capability.
- EBC series plug & play installation.
- Detachable mounting bracket.
- 2-year warranty.



2Yrs

Axles : 2
 Approvals : RBC Series C-Tick



Brake Controllers

| Part No. | Voltage | Weight (kg) |
|---------------|---------|-------------|
| EBC-12 | 12 | 0.3 |
| EBC-24 | 24 | 0.3 |
| RBC-24 | 24 | 0.2 |



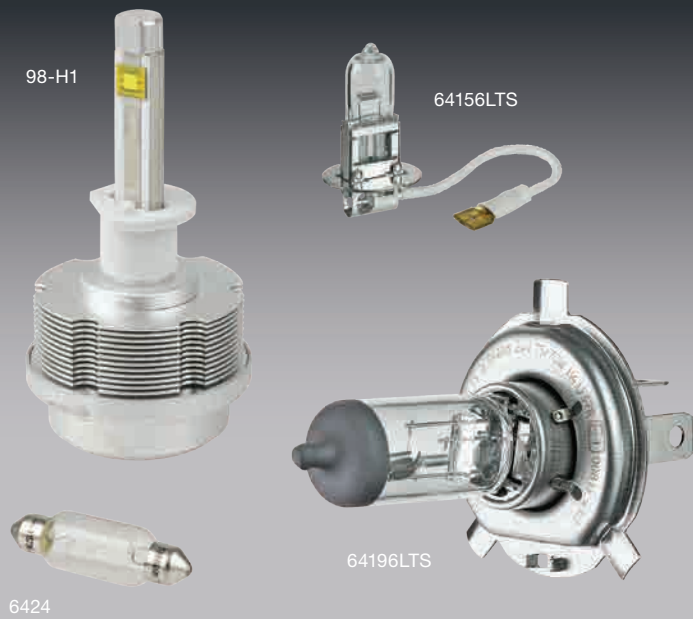
Bulbos



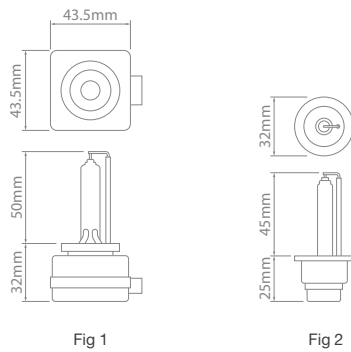


Bulbs

Bulbs



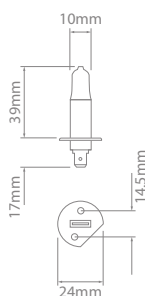
- Wide range of bulbs including LED, HID, halogen and incandescent.
- Truckstar models feature:
 - Osram patented Single Coil technology.
 - Up to 100% more light output compare with conventional 24V bulbs.
 - More then twice the life of conventional 24V bulbs.
 - High vibration resistance.
 - Ideal for trucks and other heavy-duty applications.



HID

| Part No. | Voltage | Watt | Base | Fig |
|--------------|---------|------|------|-----|
| 80037 | 12–24 | 35 | D1S | 1 |
| 80009 | 12–24 | 35 | D2S | 2 |

Halogen – H1

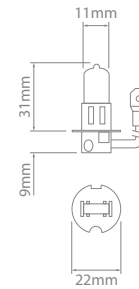


| Part No. | Voltage | Watt | Base | Description |
|---------------------|---------|------|--------|-------------------------|
| 64150 | 12 | 55 | P14.5s | Original Line |
| 64150NBUDUO* | 12 | 55 | P14.5s | Night Breaker Unlimited |
| 84150 | 12 | 55 | P14.5s | Long Life |
| 62200 | 12 | 100 | P14.5s | Off Road – Rally |
| 64155 | 24 | 70 | P14.5s | Original Line |
| 64155LTS | 24 | 70 | P14.5s | Truckstar |
| 84155 | 24 | 70 | P14.5s | Long Life |

* Pack of 2.

Halogen – H3

| Part No. | Voltage | Watt | Base | Description |
|-----------------|---------|------|-------|---------------|
| 64151 | 12 | 55 | PK22S | Original Line |
| 64156 | 24 | 70 | PK22S | Original Line |
| 64156LTS | 24 | 70 | PK22S | Truckstar |



Halogen – H4

| Part No. | Voltage | Watt | Base | Description | Fig |
|-----------------|---------|-------|------|------------------|-----|
| 64193 | 12 | 60/55 | P43t | Original Line | 1 |
| 64196 | 24 | 75/70 | P43t | Original Line | 1 |
| 64196LTS | 24 | 75/70 | P43t | Truckstar | 1 |
| 64199 | 24 | 75/70 | P45t | Off Road – Rally | 2 |

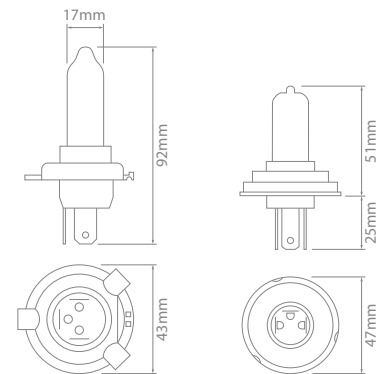
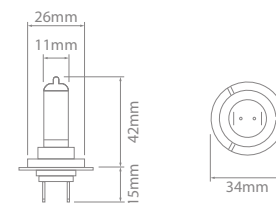


Fig 1

Fig 2

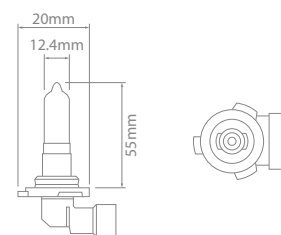
Halogen – H7

| Part No. | Voltage | Watt | Base | Description |
|--------------|---------|------|-------|---------------|
| 64210 | 12 | 55 | PX26d | Original Line |
| 64215 | 24 | 70 | PX26d | Original Line |

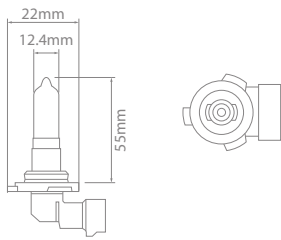


Halogen – HB3

| Part No. | Voltage | Watt | Base | Description |
|-------------|---------|------|------|---------------|
| 9005 | 12 | 60 | 20d | Original Line |

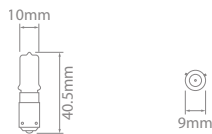


Bulbs



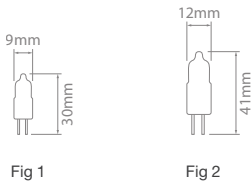
Halogen – HB5

| Part No. | Voltage | Watt | Base | Description |
|-------------|---------|-------|-------|---------------|
| 9007 | 12 | 65/55 | PX29t | Original Line |



Halogen – Miniature

| Part No. | Voltage | Watt | Base | Description |
|--------------|---------|------|-------|---------------|
| 64136 | 12 | 21 | BAY9s | Original Line |
| 64138 | 24 | 21 | BAY9s | Original Line |



Halogen – Bi-Pin

| Part No. | Voltage | Watt | Base | Pack Qty | Fig |
|---------------------|---------|------|-------|----------|-----|
| 059-024/10W | 24 | 10 | G4 | 1 | 1 |
| 060-012/100W | 12 | 100 | G6.35 | 1 | 2 |
| 060-024/100W | 24 | 100 | G6.35 | 1 | 2 |
| 899-911/5 | 12 | 35 | G6.35 | 5 | 2 |

Incandescent – Stop Tail / Flasher / Park

| Part No. | Voltage | Watt | Base | Colour | Pack Qty | Fig |
|----------|---------|------|--------|--------|----------|-----|
| 5007/10 | 12 | 5 | BA15s | | 10 | 1 |
| 5008/10 | 12 | 10 | BA15s | | 10 | 1 |
| 7506/10 | 12 | 21 | BA15s | | 10 | 2 |
| 5627/10 | 24 | 5 | BA15s | | 10 | 1 |
| 5637/10 | 24 | 10 | BA15s | | 10 | 1 |
| 7511/10 | 24 | 21 | BA15s | | 10 | 2 |
| 7507/10 | 12 | 21 | BAU15s | Amber | 10 | 3 |
| 9507/10* | 24 | 21 | BAU15s | Amber | 10 | 3 |
| 2618/10 | 12 | 5 | BA15d | | 10 | 4 |
| 7528/10 | 12 | 21/5 | BAY15d | | 10 | 5 |
| 7537/10 | 24 | 21/5 | BAY15d | | 10 | 5 |

* Truckstar

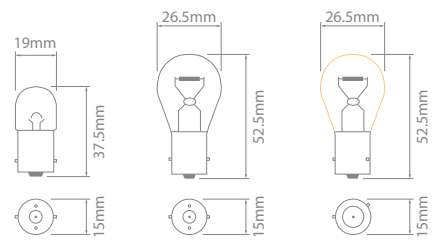


Fig 1

Fig 2

Fig 3

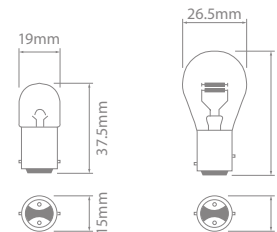


Fig 4

Fig 5

Incandescent – Festoon

| Part No. | Voltage | Watt | Base | Length – mm | Pack Qty | Fig |
|----------|---------|------|---------|-------------|----------|-----|
| 6418/10 | 12 | 5 | SV8.5-8 | 35 | 10 | 1 |
| 6461/10 | 12 | 10 | SV8.5-8 | 35 | 10 | 1 |
| 6413/10 | 12 | 5 | SV8.5-8 | 41 | 10 | 2 |
| 6424/10 | 24 | 5 | SV8.5-8 | 41 | 10 | 2 |
| 6428/10 | 12 | 3 | S7-8 | 28 | 10 | 3 |



Fig 1

Fig 2

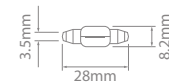


Fig 3

Incandescent – Miniature

| Part No. | Voltage | Watt | Base | Pack Qty | Fig |
|----------|---------|------|------|----------|-----|
| 3796/10 | 12 | 2 | BA9s | 10 | 1 |
| 3797/10 | 24 | 2 | BA9s | 10 | 1 |
| 3894/10 | 12 | 3 | BA9s | 10 | 1 |
| 3893/10 | 12 | 4 | BA9s | 10 | 1 |
| 3930/10 | 24 | 4 | BA9s | 10 | 1 |



Incandescent – Wedge

| Part No. | Voltage | Watt | Base | Pack Qty | Fig |
|------------|---------|------|-----------|----------|-----|
| 2721/10 | 12 | 1.2 | W2x4.6d | 10 | 1 |
| 2741/10 | 24 | 1.2 | W2x4.6d | 10 | 1 |
| 2821/10 | 12 | 3 | W2.1x9.5d | 10 | 2 |
| 2840/10 | 24 | 2 | W2.1x9.5d | 10 | 2 |
| 2825/10 | 12 | 5 | W2.1x9.5d | 10 | 2 |
| 921/10 | 12 | 16 | W2.1x9.5d | 10 | 3 |
| 2741MF/10* | 24 | 1.2 | B8.5d | 10 | 4 |

* 2741MF/10 has a plastic base.

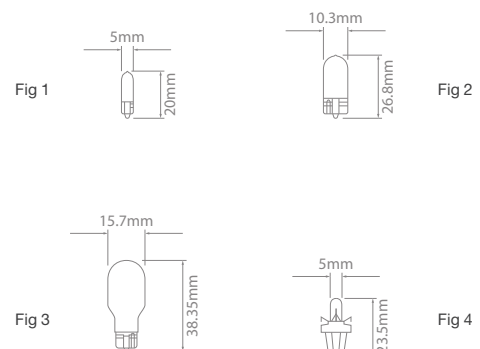


Fig 1

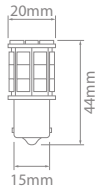
Fig 2

Fig 3

Fig 4

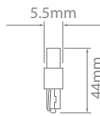


Bulbs



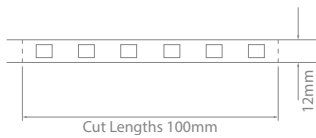
LED – Stop / Light / Indicator

| Part No. | Voltage | Base | Description |
|--------------|---------|-------|-------------------------------|
| 1156Y | 12-24 | BA15s | Indicator – Amber LEDs |



LED – Wedge

| Part No. | Voltage | Base | Pack Qty |
|-------------------|---------|---------|----------|
| LED-12V/10 | 12 | W2x4.6d | 10 |
| LED-24V/10 | 24 | W2x4.6d | 10 |



LED – Flexible Strip Roll

| Part No. | Voltage | Watt Per 5m | Roll Length (m) | Colour Temperature |
|---------------------|---------|-------------|-----------------|--------------------|
| BA-5050-60/5 | 24 | 14.4 | 5 | Cool White |

Can be cut into various lengths. Cut points every 6 LEDs (100mm).

| Part No. | Page | Part No. | Page | Part No. | Page | Part No. | Page |
|----------------|------|------------|------|--------------|------|-------------|------|
| 0 | | 2825/10 | 197 | 7807294/10 | 29 | 9806101/10 | 26 |
| 0411-204-1605 | 166 | 2840/10 | 197 | 7807296/10 | 29 | 9806102/10 | 27 |
| 0411-240-2005 | 166 | 3 | | 8 | | 9806103/10 | 27 |
| 0411-291-1405 | 166 | 3771BUS-2 | 115 | 80009 | 194 | 9806104/10 | 26 |
| 0411-310-1605 | 166 | 3771BUS-3 | 115 | 80037 | 194 | 9806107/10 | 27 |
| 0411-336-1605 | 166 | 3796/10 | 197 | 8211000/10 | 13 | 9806108/10 | 27 |
| 0411-337-1205 | 166 | 3797/10 | 197 | 8211000/10 | 41 | 9806110/10 | 27 |
| 0411-353-0805 | 166 | 37994 | 43 | 8211009/10 | 13 | 9806111/10 | 26 |
| 059-024/10W | 196 | 37999 | 43 | 8211019/10 | 41 | 9806111/100 | 26 |
| 060-012/100W | 196 | 3893/10 | 197 | 8211027/10 | 13 | 9806112/10 | 27 |
| 060-024/100W | 196 | 3894/10 | 197 | 8211027/10 | 41 | 9806113/10 | 27 |
| OL20-1600-22 | 159 | 3930/10 | 197 | 8211035/10 | 13 | 9806114/10 | 27 |
| 1 | | 3AG1/10 | 96 | 8211035/10 | 41 | 9806115/10 | 26 |
| 1011-026-0205 | 113 | 3AG25/10 | 96 | 8211060/10 | 13 | 9806115/100 | 26 |
| 1027-003-1200 | 113 | 3AG3/10 | 96 | 8211060/10 | 41 | 9806118/10 | 26 |
| 1027-005-1200 | 113 | 3AG30/10 | 96 | 8211094/10 | 13 | 9806120/10 | 27 |
| 1027-008-1200 | 113 | 3AG35/10 | 96 | 8211094/10 | 41 | 9806121/10 | 27 |
| 103349 | 158 | 5 | | 8211108/10 | 13 | 9806124/10 | 27 |
| 103349-302 | 158 | 5007/10 | 197 | 8211108/10 | 41 | 9806126/10 | 27 |
| 103349B | 158 | 5008/10 | 197 | 8211124/10 | 13 | 9806127/10 | 26 |
| 103349R | 158 | 50856 | 72 | 8211124/10 | 41 | 9806129/10 | 27 |
| 114008 | 166 | 50860 | 72 | 84150 | 194 | 9806130/10 | 26 |
| 114009 | 166 | 50861 | 72 | 84155 | 194 | 9806131/10 | 26 |
| 114010 | 166 | 50862 | 72 | 899-911/5 | 196 | 9806133/10 | 26 |
| 1156Y | 198 | 50864 | 72 | 899-912/5 | 196 | 9806135/10 | 27 |
| 1200068/100 | 9 | 50866 | 72 | 9 | | 9806136/10 | 27 |
| 1200069/100 | 9 | 50868 | 72 | 9001511 | 15 | 9806137/10 | 27 |
| 1200070/50 | 9 | 50870 | 72 | 9001511 | 175 | 9806138/10 | 26 |
| 1200089/50 | 9 | 50872 | 72 | 9001520 | 15 | 9806138/100 | 26 |
| 1200100/50 | 9 | 5627/10 | 197 | 9001543 | 15 | 9806141/10 | 27 |
| 1200127/50 | 9 | 5637/10 | 197 | 9001543 | 175 | 9806143/10 | 27 |
| 1200135/50 | 9 | 6 | | 9001550 | 15 | 9806146/10 | 27 |
| 1200178/50 | 9 | 62200 | 194 | 9001550 | 175 | 9806149/10 | 27 |
| 1200224/50 | 9 | 6413/10 | 197 | 9005 | 195 | 9806158/10 | 26 |
| 1200291/25 | 9 | 64136 | 196 | 9007 | 196 | 9806159/10 | 26 |
| 1200372/25 | 9 | 64138 | 196 | 921/10 | 197 | 9806160/10 | 26 |
| 1200500/25 | 9 | 64150 | 194 | 927779-3/100 | 99 | 9806166/10 | 27 |
| 1200807/5000 | 9 | 64151 | 195 | 929939-3/100 | 99 | 9806167/10 | 27 |
| 1200808/3300 | 9 | 64155 | 194 | 9507/10 | 197 | 9806172/10 | 26 |
| 1200810/3000 | 9 | 64155LTS | 194 | 9621/10 | 41 | 9806196/10 | 25 |
| 1200813/2000 | 9 | 64156 | 195 | 9622/10 | 41 | 9817034/10 | 28 |
| 1200817/1100 | 9 | 64156LTS | 195 | 968875-1/100 | 109 | 9817079/10 | 28 |
| 1200822/700 | 9 | 6418/10 | 197 | 968875-1/100 | 114 | 9817079/100 | 28 |
| 1200829/450 | 9 | 64193 | 195 | 968876-1/100 | 109 | 9817083/10 | 28 |
| 1241394-1-BULK | 114 | 64196 | 195 | 968876-1/100 | 114 | 9817200/10 | 28 |
| 1241395-1/100 | 114 | 64196LTS | 195 | 9805911/10 | 13 | 9817201/10 | 28 |
| 1241396-1-BULK | 114 | 64199 | 195 | 9805912/10 | 13 | 9817201/100 | 28 |
| 1241397-1/100 | 114 | 64210 | 195 | 9805913/10 | 13 | 9817202/10 | 28 |
| 1241414-1-BULK | 114 | 64215 | 195 | 9805914/10 | 13 | 9817203/10 | 28 |
| 1241415-1/100 | 114 | 6424/10 | 197 | 9805916/10 | 13 | 9817302/10 | 28 |
| 1241416-1-BULK | 114 | 6428/10 | 197 | 9805917/10 | 13 | 9817303/10 | 28 |
| 1241417-1/50 | 114 | 6461/10 | 197 | 9805925/10 | 13 | 9817305/10 | 28 |
| 1927304/100 | 10 | 7 | | 9805939/10 | 12 | 9817305/100 | 28 |
| 1927306/100 | 10 | 7506/10 | 197 | 9805940/10 | 12 | 9817306/10 | 28 |
| 1927308/50 | 10 | 7507/10 | 197 | 9805941/10 | 12 | 9817308/10 | 28 |
| 1927311/50 | 10 | 7511/10 | 197 | 9805942/10 | 12 | 9817309/10 | 28 |
| 2 | | 7528/10 | 197 | 9805943/10 | 12 | 9817310/10 | 28 |
| 220S20 | 69 | 7537/10 | 197 | 9805944/10 | 12 | 9817310/100 | 28 |
| 220S25 | 69 | 7704489 | 167 | 9805945/10 | 12 | 9817311/10 | 28 |
| 2618/10 | 197 | 7704496 | 167 | 9805945/10 | 12 | A | |
| 265/1 | 74 | 7807270/10 | 29 | 9806082/10 | 25 | AMB19B/100 | 36 |
| 265/3 | 74 | 7807272/10 | 29 | 9806086/10 | 25 | AMB25B/100 | 36 |
| 265/4 | 74 | 7807276/10 | 29 | 9806088/10 | 25 | AMG040 | 121 |
| 265/5 | 74 | 7807278/10 | 29 | 9806089/10 | 25 | AMG060 | 121 |
| 265/7 | 74 | 7807280/10 | 29 | 9806090/10 | 25 | AMG080 | 121 |
| 2721/10 | 197 | 7807282/10 | 29 | 9806091/10 | 25 | AMG100 | 121 |
| 2741/10 | 197 | 7807288/10 | 29 | 9806092/10 | 25 | AMG125 | 121 |
| 2741MF/10 | 197 | 7807290/10 | 29 | 9806093/10 | 25 | AMG150 | 121 |
| 281934-2/100 | 99 | | | 9806095/10 | 25 | AMG175 | 121 |
| 281934-2/100 | 109 | | | 9806096/10 | 25 | AMG200 | 121 |
| 282081-1/100 | 109 | | | 9806099/10 | 25 | AMG225 | 121 |
| 2821/10 | 197 | | | 9806100/10 | 27 | AMG250 | 121 |



Index

| Part No. | Page | Part No. | Page | Part No. | Page | Part No. | Page |
|--------------|------|---------------|------|--------------|------|------------|------|
| AMG300 | 121 | BF25/10 | 95 | CB123-30 | 83 | CDM15 | 82 |
| AMG400 | 121 | BF25/100 | 95 | CB123-40 | 83 | CDM20 | 82 |
| AMG450 | 121 | BF3/10 | 95 | CB123-50 | 83 | CDM25 | 82 |
| AMG500 | 121 | BF3/100 | 95 | CB184P-100 | 88 | CDM30 | 82 |
| AMGFH1 | 124 | BF30/10 | 95 | CB184P-120 | 88 | CDM40 | 82 |
| AMGFH2 | 123 | BF30/100 | 95 | CB184P-80 | 88 | CDM50 | 82 |
| AMI100 | 120 | BF4/10 | 95 | CB185F-100 | 89 | CDM60 | 82 |
| AMI125 | 120 | BF4/100 | 95 | CB185F-120 | 89 | CG12 | 33 |
| AMI150 | 120 | BF40/10 | 95 | CB185F-150 | 89 | CG12/10 | 33 |
| AMI175 | 120 | BF40/100 | 95 | CB185F-30 | 89 | CG16 | 33 |
| AMI20 | 120 | BF5/10 | 95 | CB185F-40 | 89 | CG16/10 | 33 |
| AMI200 | 120 | BF5/100 | 95 | CB185F-50 | 89 | CG16SR | 33 |
| AMI30 | 120 | BF7.5/10 | 95 | CB185F-60 | 89 | CG16SR | 76 |
| AMI40 | 120 | BF7.5/100 | 95 | CB185F-70 | 89 | CG20 | 33 |
| AMI50 | 120 | BF-KIT | 97 | CB185F-80 | 89 | CG20 | 69 |
| AMI60 | 120 | BHS80 | 41 | CB187F-100 | 86 | CG20/10 | 33 |
| AMI70 | 120 | BHS81 | 41 | CB187F-120 | 86 | CG20/10 | 69 |
| AMI80 | 120 | | | CB187F-150 | 86 | CG25 | 33 |
| AMIFH | 124 | C | | CB187F-200 | 86 | CG25 | 69 |
| AMIFH-DUAL | 124 | | | CB187F-30 | 86 | CG25/10 | 33 |
| ANL035-B | 121 | C10ONG | 153 | CB187F-40 | 86 | CG25/10 | 69 |
| ANL040-B | 121 | C10-TWIN | 154 | CB187F-50 | 86 | CG32 | 33 |
| ANL050-B | 121 | C120BLK-50 | 153 | CB187F-60 | 86 | CG32/10 | 33 |
| ANL060-B | 121 | C120ONG | 153 | CB187F-70 | 86 | CG40 | 33 |
| ANL080-B | 121 | C120RED-50 | 153 | CB187F-80 | 86 | CG50 | 33 |
| ANL100-B | 121 | C16ONG | 153 | CB192-20M | 90 | CG63 | 33 |
| ANL125-B | 121 | C16-TWIN | 154 | CB192-30M | 90 | CM3504 | 137 |
| ANL130-B | 121 | C25BLK-100 | 153 | CB227-10 | 91 | CT102B | 34 |
| ANL150-B | 121 | C25ONG | 153 | CB227-10/10 | 91 | CT143B | 34 |
| ANL175-B | 121 | C25RED-100 | 153 | CB227-15 | 91 | CT194B | 34 |
| ANL200-B | 121 | C25-TWIN | 154 | CB227-15/10 | 91 | CT200B | 34 |
| ANL225-B | 121 | C35BLK-100 | 153 | CB227-20 | 91 | CT280B | 34 |
| ANL250 | 121 | C35ONG | 153 | CB227-20/10 | 91 | CT292B | 34 |
| ANL250-B | 121 | C35RED-100 | 153 | CB227-25 | 91 | CT300B | 34 |
| ANL275-B | 121 | C35-TWIN | 154 | CB227-25/10 | 91 | CT370B | 34 |
| ANL300 | 121 | C50BLK-50 | 153 | CB227-30 | 91 | CT373B | 34 |
| ANL300-B | 121 | C50ONG | 153 | CB227-30/10 | 91 | CT432B | 34 |
| ANL325-B | 121 | C50RED-50 | 153 | CB227-5 | 91 | CT533B | 34 |
| ANL350-B | 121 | C50-TWIN | 154 | CB227-5/10 | 91 | CT550HB | 34 |
| ANL400 | 121 | C70BLK-50 | 153 | CB227-7.5 | 91 | CT762B | 34 |
| ANL400-B | 121 | C70ONG | 153 | CB227-7.5/10 | 91 | CTC-12B/10 | 57 |
| ANL500 | 121 | C70ONG-50 | 153 | CB233-10 | 91 | CTC-16B/10 | 57 |
| ANL500-B | 121 | C70RED-50 | 153 | CB233-10/10 | 91 | CTC-24B/10 | 57 |
| ANL600-B | 121 | C95BLK-50 | 153 | CB233-15 | 91 | CTC-3B/10 | 57 |
| ANL675-B | 121 | C95ONG | 153 | CB233-15/10 | 91 | CTC-6B/10 | 57 |
| ANL750-B | 121 | C95RED-50 | 153 | CB233-20 | 91 | CTD490B | 35 |
| ANLFH1 | 124 | CB121-10 | 83 | CB233-20/10 | 91 | CTD500B | 35 |
| ANS100 | 120 | CB121-10M | 83 | CB233-25 | 91 | CTD900N | 35 |
| ANS125 | 120 | CB121-15 | 83 | CB233-25/10 | 91 | CTE3-194B | 35 |
| ANS30 | 120 | CB121-15M | 83 | CB233-30 | 91 | CTE6-194B | 35 |
| ANS40 | 120 | CB121-20 | 83 | CB233-30/10 | 91 | CTP12 | 23 |
| ANS50 | 120 | CB121-20M | 83 | CB233-5 | 91 | CTP16 | 23 |
| ANS60 | 120 | CB121-25 | 83 | CB233-5/10 | 91 | CTPB20 | 23 |
| ANS70 | 120 | CB121-25M | 83 | CB233-7.5 | 91 | CTPB28 | 23 |
| ANS80 | 120 | CB121-30 | 83 | CB233-7.5/10 | 91 | CTPB32 | 23 |
| ANSFH-04 | 129 | CB121-30M | 83 | CB255-10 | 87 | CTS6B/100 | 36 |
| ANSFH-08 | 129 | CB121-40 | 83 | CB255-15 | 87 | CTS8B/100 | 36 |
| | | CB121-40M | 83 | CB255-20 | 87 | | |
| | | CB121-50 | 83 | CB255-25 | 87 | | |
| | | CB121-50M | 83 | CB255-30 | 87 | | |
| | | CB121-8 | 83 | CB255-35 | 87 | D08 | 167 |
| | | CB121B/10 | 47 | CB255-40 | 87 | D12 | 167 |
| | | CB121B/10 | 83 | CB255-50 | 87 | D14 | 167 |
| | | CB121B/100 | 47 | CBF-KIT | 97 | D16 | 167 |
| | | CB121B/100 | 83 | CBS-10 | 85 | D20 | 167 |
| | | CB121BOOT-BLK | 47 | CBS-15 | 85 | D2682 | 163 |
| | | CB121BOOT-BLK | 83 | CBS-20 | 85 | D2683 | 167 |
| | | CB121BOOT-RED | 47 | CBS-25 | 85 | D7000 | 164 |
| | | CB121BOOT-RED | 83 | CBS-30 | 85 | DET12 | 163 |
| | | CB121R/10 | 47 | CBS-40 | 85 | DET16 | 163 |
| | | CB121R/10 | 83 | CBS-50 | 85 | DET20 | 163 |
| | | CB121R/100 | 47 | CBS-60 | 85 | DET48 | 163 |
| | | CB121R/100 | 83 | CBS-70 | 85 | DET-RT | 167 |
| | | CB123-10 | 83 | CC58 | 159 | DET-RT1 | 167 |
| | | CB123-15 | 83 | CDM03 | 82 | DR-25-1/2 | 61 |
| | | CB123-20 | 83 | CDM05 | 82 | | |
| | | CB123-25 | 83 | CDM10 | 82 | | |
| B | | | | | | D | |
| B109-7046-2 | 126 | | | | | | |
| B109-7046-3 | 126 | | | | | | |
| B109-7046-4 | 126 | | | | | | |
| B109-7046-5 | 126 | | | | | | |
| B109-7046-6 | 126 | | | | | | |
| B109-7046-7 | 126 | | | | | | |
| BA-5050-60/5 | 198 | | | | | | |
| BC-2412-10 | 185 | | | | | | |
| BF1/10 | 95 | | | | | | |
| BF10/10 | 95 | | | | | | |
| BF10/100 | 95 | | | | | | |
| BF15/10 | 95 | | | | | | |
| BF15/100 | 95 | | | | | | |
| BF2/10 | 95 | | | | | | |
| BF2/100 | 95 | | | | | | |
| BF20/10 | 95 | | | | | | |
| BF20/100 | 95 | | | | | | |

| Part No. | Page | Part No. | Page | Part No. | Page | Part No. | Page |
|--------------|------|--------------|------|-------------|------|-------------|------|
| PV7/1G-100 | 158 | SBB1115 | 71 | SF01 | 16 | SSY-003 | 51 |
| PVC10/200 | 56 | SBB1924 | 71 | SF02 | 16 | SSY-006 | 51 |
| PVC10/25 | 56 | SBB2230 | 71 | SF03 | 16 | SSY-006-100 | 51 |
| PVC12/100 | 56 | SBH1212S | 72 | SF04 | 16 | SSY-008 | 51 |
| PVC12/25 | 56 | SBH2020 | 72 | SF05 | 16 | SSY-008-100 | 51 |
| PVC16/100 | 56 | SBH2819-1 | 72 | SF06 | 16 | SSY-012 | 51 |
| PVC16/25 | 56 | SBR001/10 | 69 | SF12 | 16 | SSY-012-100 | 51 |
| PVC20/100 | 56 | SBS001 | 69 | SF1208/5 | 24 | SSY-016 | 51 |
| PVC20/50 | 56 | SBS001B | 69 | SF13 | 16 | SSY-025 | 51 |
| PVC25/50 | 56 | SBS002 | 69 | SF14 | 16 | SSY-032 | 51 |
| PVC30/50 | 56 | SBS002B | 69 | SF1612/5 | 24 | SSZ-003 | 50 |
| PVC35/50 | 56 | SBS003 | 69 | SF2012/5 | 24 | SSZ-006 | 50 |
| PVC4/25 | 56 | SBS003B | 69 | SF2016/5 | 24 | SSZ-006-100 | 50 |
| PVC4/250 | 56 | SBS004 | 69 | SF2512/5 | 24 | SSZ-008 | 50 |
| PVC6/200 | 56 | SBS004B | 69 | SF2516/5 | 24 | SSZ-008-100 | 50 |
| PVC6/25 | 56 | SBS005 | 69 | SF2520/5 | 24 | SSZ-010 | 50 |
| PVC8/200 | 56 | SBS005B | 69 | SIPR01 | 73 | SSZ-012 | 50 |
| PVC8/25 | 56 | SBZ001 | 68 | SIPR02 | 73 | SSZ-016 | 50 |
| PVCTBLK/10 | 42 | SBZ001B | 68 | SIPR03 | 73 | SSZ-025 | 50 |
| P-WSBFH/5 | 100 | SBZ002 | 68 | SJ03/5 | 14 | SSZ-032 | 50 |
| P-WSBFH-TWIN | 100 | SBZ002B | 68 | SJ05/5 | 14 | SSZ-045 | 50 |
| | | SBZ003 | 68 | SJ06/5 | 14 | ST01 | 78 |
| | | SBZ003B | 68 | SJ12/5 | 14 | ST-CLIP/10 | 29 |
| R | | SD10M16/5 | 21 | SJ16/5 | 14 | SY15186 | 190 |
| RBC-24 | 191 | SD10M1690/5 | 21 | SJ20/5 | 14 | SY2900B/100 | 46 |
| RC001-CASE | 173 | SD12M16/5 | 21 | SJ25/5 | 14 | SY2900-BLK | 46 |
| RC003-CASE | 173 | SD12M1690/5 | 21 | SJ32 | 14 | SY2900R/100 | 46 |
| RC013 | 77 | SD12M20/5 | 21 | SJ40 | 14 | SY2900-RED | 46 |
| RC014 | 77 | SD12PG11/5 | 21 | SM143B | 35 | SY2906-BLK | 44 |
| RC022 | 77 | SD16M16/5 | 21 | SM194B | 35 | SY2906-RED | 44 |
| RC031 | 77 | SD16M1690/5 | 21 | SM200812/10 | 28 | SY2910-BLK | 44 |
| RC032 | 77 | SD16M20/5 | 21 | SOLDERAC3.2 | 171 | SY2910-RED | 44 |
| RCPLD | 173 | SD16M2090/5 | 21 | SOLDERRC0.7 | 171 | SY2912-BLK | 44 |
| RD-159 | 127 | SD16PG13/5 | 21 | SOLDERRC1.6 | 171 | SY2912-RED | 44 |
| REC2412-30NG | 179 | SD20M20/5 | 21 | SOLDERRC2.3 | 171 | SY2914B/100 | 44 |
| REC2412-30NG | 185 | SD20M2090/5 | 21 | SOLDERRC3.2 | 171 | SY2914-BLK | 44 |
| RG1-12/10 | 32 | SD20PG16/5 | 21 | SOLDERSTICK | 171 | SY2914R/100 | 44 |
| RG1-12/50 | 32 | SD25M25/5 | 21 | SSP-006 | 52 | SY2914-RED | 44 |
| RG1-16/10 | 32 | SD25M2590/5 | 21 | SSP-008 | 52 | SY2915-BLK | 44 |
| RG1-16/50 | 32 | SD25M32/5 | 21 | SSP-012 | 52 | SY2915-RED | 44 |
| RG1-19/10 | 32 | SD32M32 | 21 | SSP-019 | 52 | SY2917B/100 | 45 |
| RG1-19/50 | 32 | SD32M3290 | 21 | SSP-032 | 52 | SY2917-BLK | 45 |
| RG1-23/10 | 32 | SD32PG29 | 21 | SSR-004 | 53 | SY2917R/100 | 45 |
| RG1-23/50 | 32 | SD40M40 | 21 | SSR-006 | 53 | SY2917-RED | 45 |
| RG1-29/25 | 32 | SD50M50 | 21 | SSR-008 | 53 | SY2919B/100 | 45 |
| RG1-29/5 | 32 | SDLM105 | 89 | SSR-010 | 53 | SY2919-BLK | 45 |
| RG1-38/25 | 32 | SDLM135 | 89 | SSR-012 | 53 | SY2919R/100 | 45 |
| RG1-38/5 | 32 | SDLM150 | 89 | SSR-015 | 53 | SY2919-RED | 45 |
| RG1-48/10 | 32 | SDLM50 | 89 | SSR-020 | 53 | SY2959B/100 | 47 |
| RPS3800 | 186 | SDLM60 | 89 | SSR-025 | 53 | SY2959-BLK | 47 |
| | | SDLM80 | 89 | SST-027 | 54 | SY2959R/100 | 47 |
| S | | SE10 | 22 | SST-036 | 54 | SY2959-RED | 47 |
| S5503 | 84 | SE12 | 22 | SST-042 | 54 | SY2960B/100 | 47 |
| S5505 | 84 | SE20 | 22 | SSU-010 | 55 | SY2960-BLK | 47 |
| S5510 | 84 | SE25 | 22 | SSU-020 | 55 | SY2960R/100 | 47 |
| S5515 | 84 | SE2520 | 22 | SSU-025 | 55 | SY2960-RED | 47 |
| S5520 | 84 | SE25X12 | 23 | SSU-030 | 55 | SY2963B/100 | 47 |
| S5525 | 84 | SEM10M12/5 | 19 | SSU-034 | 55 | SY2963-BLK | 47 |
| S5530 | 84 | SEM12M12/5 | 19 | SSV-005 | 55 | SY2963R/100 | 47 |
| S55BOOT | 84 | SEM12M16/5 | 19 | SSV-008 | 55 | SY2963-RED | 47 |
| SB08/100 | 33 | SEM12M1690/5 | 19 | SSV-010 | 55 | SY2965B/100 | 47 |
| SB10/100 | 33 | SEM16M16/5 | 19 | SSV-013 | 55 | SY2965-BLK | 47 |
| SB13/100 | 33 | SEM16M1690/5 | 19 | SSV-016 | 55 | SY2965R/100 | 47 |
| SB14/100 | 33 | SEM16M20/5 | 19 | SSV-019 | 55 | SY2965-RED | 47 |
| SB16/100 | 33 | SEM16M2090/5 | 19 | SSV-025 | 55 | SY2966B/100 | 47 |
| SB22/100 | 33 | SEM20M20/5 | 19 | SSW-006 | 52 | SY2966-BLK | 47 |
| SBA0712 | 70 | SEM20M2090/5 | 19 | SSW-008 | 52 | SY2966R/100 | 47 |
| SBA0811 | 70 | SEM20M25/5 | 19 | SSW-012 | 52 | SY2966-RED | 47 |
| SBA1010 | 70 | SEM20M2590/5 | 19 | SSW-016 | 52 | SY2968B/100 | 47 |
| SBA1212 | 70 | SEM25M25/5 | 19 | SSW-023 | 52 | SY2968-BLK | 47 |
| SBA1212S | 70 | SEM32M32 | 19 | SSX-003 | 51 | SY2968R/100 | 47 |
| SBA1217 | 70 | SEM32M3290 | 19 | SSX-006 | 51 | SY2968-RED | 47 |
| SBA1417 | 70 | SEM40M40 | 19 | SSX-008 | 51 | SY2970B/100 | 47 |
| SBA1525-1 | 70 | SEM40M4090 | 19 | SSX-012 | 51 | SY2970-BLK | 47 |
| SBB0812 | 71 | SEM50M63 | 19 | SSX-016 | 51 | SY2970R/100 | 47 |
| SBB1010 | 71 | SEM50M6390 | 19 | SSX-025 | 51 | SY2970-RED | 47 |
| | | SEM8PG7/5 | 19 | SSX-032 | 51 | SY2971B/100 | 47 |

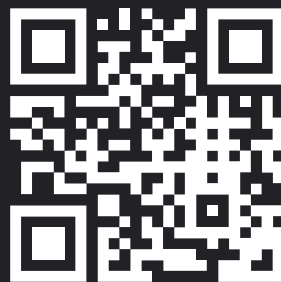
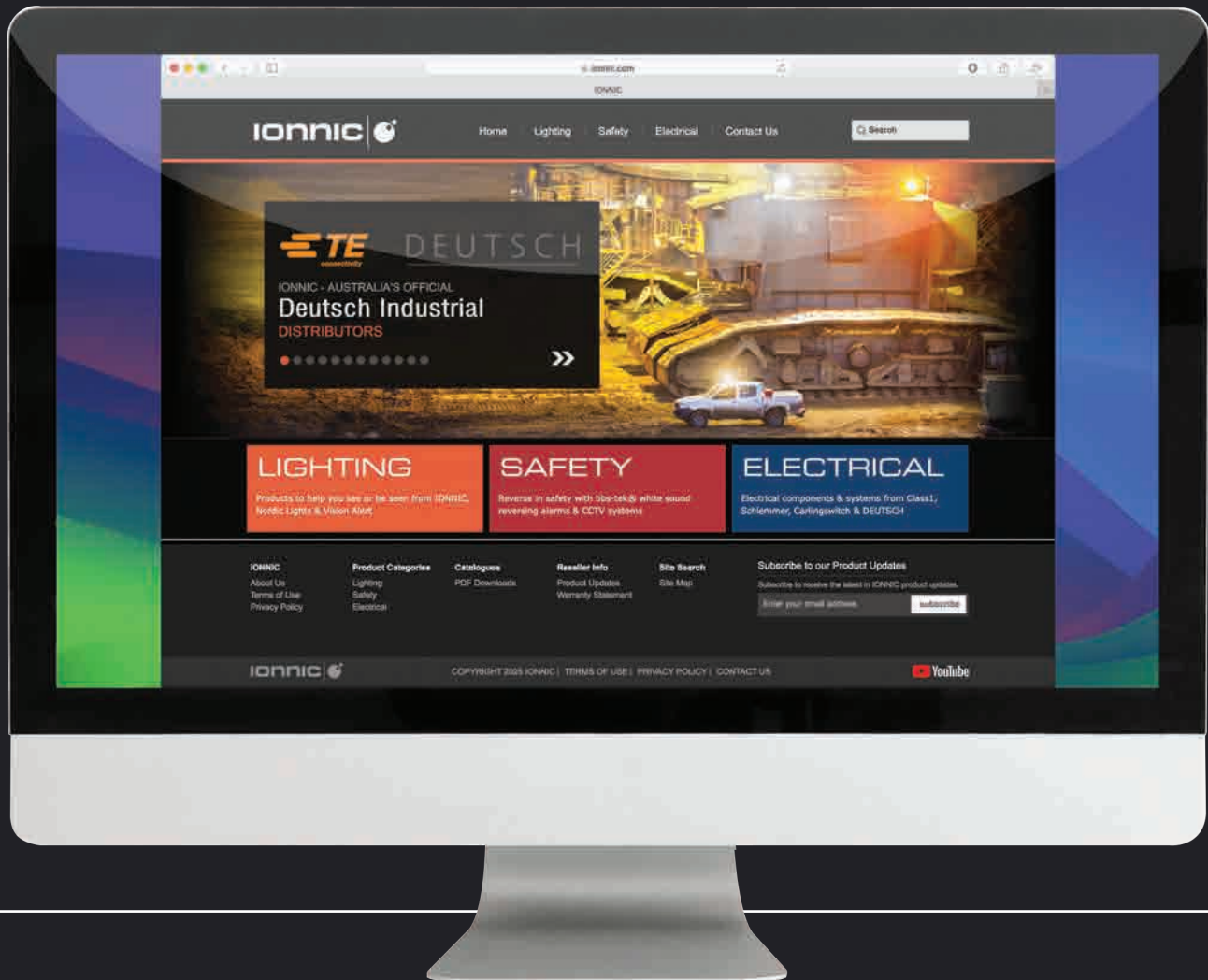


Index

| Part No. | Page | Part No. | Page | Part No. | Page | Part No. | Page |
|-------------------|------|------------------|------|-------------------|------|---------------------|------|
| SY2971-BLK | 47 | T1-3-BLK-100 | 147 | T1-4-WHT/RED-100 | 149 | TC-1-GRY-100 | 150 |
| SY2971R/100 | 47 | T1-3-BLK-30 | 147 | T1-4-WHT-100 | 147 | TC-1-ONG-100 | 150 |
| SY2971-RED | 47 | T1-3-BLU/RED-100 | 149 | T1-4-WHT-30 | 147 | TC-1-PINK-100 | 150 |
| SY2973-BLK | 47 | T1-3-BLU/RED-30 | 149 | T1-4-YEL/BLU-30 | 148 | TC-1-PUR-100 | 150 |
| SY2973-RED | 47 | T1-3-BLU/WHT-100 | 149 | T1-4-YEL-100 | 147 | TC-1-RED-100 | 150 |
| SY2974B/100 | 47 | T1-3-BLU/WHT-30 | 149 | T1-4-YEL-30 | 147 | TC-1-WHT-100 | 150 |
| SY2974-BLK | 47 | T1-3-BLU/YEL-100 | 149 | T1-50-100 | 156 | TC-1-YEL-100 | 150 |
| SY2974R/100 | 47 | T1-3-BLU-100 | 147 | T1-50-30 | 156 | TC-2.5-BLK-100 | 150 |
| SY2974-RED | 47 | T1-3-BLU-30 | 147 | T1-50-BRN/WHT-100 | 156 | TC-2.5-BLU-100 | 150 |
| SY2975B/100 | 47 | T1-3-BRN-100 | 147 | T1-5-BLK-100 | 147 | TC-2.5-BRN-100 | 150 |
| SY2975-BLK | 47 | T1-3-BRN-30 | 147 | T1-5-BLK-30 | 147 | TC-2.5-GRN-100 | 150 |
| SY2975R/100 | 47 | T1-3-GRN/WHT-30 | 148 | T1-5-BLU-100 | 147 | TC-2.5-GRY-100 | 150 |
| SY2975-RED | 47 | T1-3-GRN/YEL-30 | 148 | T1-5-BLU-30 | 147 | TC-2.5-PINK-100 | 150 |
| SY2980B/100 | 46 | T1-3-GRN-100 | 147 | T1-5-BRN-100 | 147 | TC-2.5-PUR-100 | 150 |
| SY2980-BLK | 46 | T1-3-GRN-30 | 147 | T1-5-BRN-30 | 147 | TC-2.5-RED-100 | 150 |
| SY2980R/100 | 46 | T1-3-GRY-100 | 147 | T1-5-GRN-100 | 147 | TC-2.5-WHT-100 | 150 |
| SY2980-RED | 46 | T1-3-GRY-30 | 147 | T1-5-GRN-30 | 147 | TC-2.5-YEL-100 | 150 |
| SY2982B/100 | 46 | T1-3-ONG-100 | 147 | T1-5-ONG-30 | 147 | TC2-3-WHT-100 | 151 |
| SY2982-BLK | 46 | T1-3-ONG-30 | 147 | T1-5-PNK-30 | 147 | TC2-3-WHT-30 | 151 |
| SY2982R/100 | 46 | T1-3-PNK-100 | 147 | T1-5-RED-100 | 147 | TC2-4-WHT-100 | 151 |
| SY2982-RED | 46 | T1-3-PNK-30 | 147 | T1-5-RED-30 | 147 | TC2-4-WHT-30 | 151 |
| SY2984B/100 | 46 | T1-3-PUR-100 | 147 | T1-5-WHT-100 | 147 | TC2-6-WHT-30 | 151 |
| SY2984-BLK | 46 | T1-3-PUR-30 | 147 | T1-5-WHT-30 | 147 | TC3-4-WHT-50 | 151 |
| SY2984R/100 | 46 | T1-3-RED/BLK-30 | 148 | T1-5-YEL-30 | 147 | TC-4-BLK-100 | 150 |
| SY2984-RED | 46 | T1-3-RED/BLU-100 | 148 | T1-65-RED/BLK-100 | 157 | TC-4-RED-100 | 150 |
| SY2990B/100 | 45 | T1-3-RED/BLU-30 | 148 | T1-6-BLK-100 | 147 | TC-6-BLK-100 | 150 |
| SY2990-BLK | 45 | T1-3-RED/GRN-30 | 148 | T1-6-BLK-30 | 147 | TC-6-RED-100 | 150 |
| SY2990R/100 | 45 | T1-3-RED/WHT-30 | 148 | T1-6-BLU-100 | 147 | TC8-3-RED/BLK-50 | 151 |
| SY2990-RED | 45 | T1-3-RED-100 | 147 | T1-6-BLU-30 | 147 | TC8-4-RED/BLK-100 | 151 |
| SY2995B/100 | 45 | T1-3-RED-30 | 147 | T1-6-BRN-100 | 147 | TS101A | 77 |
| SY2995-BLK | 45 | T1-3-WHT/BLK-30 | 149 | T1-6-BRN-30 | 147 | TS101E | 77 |
| SY2995R/100 | 45 | T1-3-WHT/BLU-30 | 149 | T1-6-GRN-100 | 147 | TS301A | 77 |
| SY2995-RED | 45 | T1-3-WHT/BRN-30 | 149 | T1-6-GRN-30 | 147 | TS301E | 77 |
| SY2998-BLK | 46 | T1-3-WHT-100 | 147 | T1-6-ONG-30 | 147 | TS401A | 77 |
| SY2998-RED | 46 | T1-3-WHT-30 | 147 | T1-6-RED-100 | 147 | TS401E | 77 |
| SY2999B/100 | 46 | T1-3-YEL/BLU-100 | 148 | T1-6-RED-30 | 147 | TS403A | 77 |
| SY2999-BLK | 46 | T1-3-YEL/BLU-30 | 148 | T1-6-WHT-100 | 147 | TS403E | 77 |
| SY2999R/100 | 46 | T1-3-YEL/GRN-100 | 148 | T1-6-WHT-30 | 147 | TS508A | 77 |
| SY2999-RED | 46 | T1-3-YEL/RED-100 | 148 | T1-6-YEL-100 | 147 | TW050-BLK/BRN-500 | 142 |
| | | T1-3-YEL-100 | 147 | T1-6-YEL-30 | 147 | TW050-BLK/PNK-500 | 142 |
| | | T1-3-YEL-30 | 147 | T1-72-30 | 156 | TW050-BLK/WHT-500 | 142 |
| T | | T1-451-100 | 155 | T1-78-RED/BLK-100 | 157 | TW050-BLK/YEL-500 | 142 |
| T1-10-100 | 156 | T1-451-30 | 155 | T1-7-BLK-100 | 152 | TW050-BLK-100 | 141 |
| T1-10-100-BRN/WHT | 156 | T1-452-100 | 155 | T1-7-BLK-30 | 152 | TW050-BLK-500 | 141 |
| T1-10-30 | 156 | T1-452-30 | 155 | T1-7-RED-100 | 152 | TW050-BLU/BLK-500 | 142 |
| T1-109-100 | 155 | T1-48-100 | 155 | T1-7-RED-30 | 152 | TW050-BLU/D-GRN-500 | 142 |
| T1-109-30 | 155 | T1-48-30 | 155 | T1-8-BLK-30 | 152 | TW050-BLU/GRY-500 | 142 |
| T1-115-100 | 155 | T1-4-BLK-100 | 147 | T1-8-RED-30 | 152 | TW050-BLU/RED-500 | 142 |
| T1-115-30 | 155 | T1-4-BLK-30 | 147 | T1-9-100 | 156 | TW050-BLU/WHT-500 | 142 |
| T1-116-BLK-30 | 152 | T1-4-BLU/RED-100 | 149 | T1-9-30 | 156 | TW050-BLU/YEL-500 | 142 |
| T1-116-RED-30 | 152 | T1-4-BLU/WHT-100 | 149 | T3-367-100 | 157 | TW050-BLU-100 | 141 |
| T1-117-BLK-30 | 152 | T1-4-BLU/YEL-100 | 149 | TC-.75-BLK-100 | 150 | TW050-BLU-500 | 141 |
| T1-117-RED-30 | 152 | T1-4-BLU-100 | 147 | TC-.75-BLU-100 | 150 | TW050-BRN/WHT-500 | 142 |
| T1-118-BLK-30 | 152 | T1-4-BLU-30 | 147 | TC-.75-BRN-100 | 150 | TW050-BRN/YEL-500 | 142 |
| T1-118-RED-30 | 152 | T1-4-BRN-100 | 147 | TC-.75-GRY-100 | 150 | TW050-BRN-100 | 141 |
| T1-162-100 | 156 | T1-4-BRN-30 | 147 | TC-.75-ONG-100 | 150 | TW050-BRN-500 | 141 |
| T1-162-30 | 156 | T1-4-GRN/BLK-100 | 148 | TC-.75-PNK-100 | 150 | TW050-D-GRN/BRN-500 | 143 |
| T1-163-100 | 156 | T1-4-GRN/WHT-100 | 148 | TC-.75-PUR-100 | 150 | TW050-D-GRN/RED-500 | 143 |
| T1-163-30 | 156 | T1-4-GRN/WHT-30 | 148 | TC-.75-RED-100 | 150 | TW050-D-GRN/WHT-500 | 143 |
| T1-164-100 | 156 | T1-4-GRN/YEL-100 | 148 | TC-.75-WHT-100 | 150 | TW050-D-GRN-100 | 141 |
| T1-164-30 | 156 | T1-4-GRN-100 | 147 | TC-1.5-BLK-100 | 150 | TW050-D-GRN-500 | 141 |
| T1-17-BLK-100 | 152 | T1-4-GRN-30 | 147 | TC-1.5-BLU-100 | 150 | TW050-GRN/YEL-500 | 143 |
| T1-17-BLK-30 | 152 | T1-4-GRY-100 | 147 | TC-1.5-BRN-100 | 150 | TW050-GRY/BLK-500 | 143 |
| T1-17-RED-100 | 152 | T1-4-GRY-30 | 147 | TC-1.5-GRN-100 | 150 | TW050-GRY-100 | 141 |
| T1-17-RED-30 | 152 | T1-4-ONG-100 | 147 | TC-1.5-GRY-100 | 150 | TW050-GRY-500 | 141 |
| T1-172-30 | 156 | T1-4-ONG-30 | 147 | TC-1.5-ONG-100 | 150 | TW050-ONG/BLU-500 | 144 |
| T1-20-100 | 156 | T1-4-PNK-100 | 147 | TC-1.5-PINK-100 | 150 | TW050-ONG/RED-500 | 144 |
| T1-27-100 | 156 | T1-4-PNK-30 | 147 | TC-1.5-PUR-100 | 150 | TW050-ONG-100 | 141 |
| T1-27-30 | 156 | T1-4-PUR-100 | 147 | TC-1.5-RED-100 | 150 | TW050-ONG-500 | 141 |
| T1-36-BLK-30 | 152 | T1-4-PUR-30 | 147 | TC-1.5-WHT-100 | 150 | TW050-PNK/BLK-500 | 144 |
| T1-36-RED-30 | 152 | T1-4-RED/BLK-100 | 148 | TC-1.5-YEL-100 | 150 | TW050-PNK-100 | 141 |
| T1-3-BLK/GRN-30 | 149 | T1-4-RED/BLU-100 | 148 | TC13-BLK-50 | 154 | TW050-PNK-500 | 141 |
| T1-3-BLK/RED-100 | 149 | T1-4-RED/GRN-100 | 148 | TC13-RED-50 | 154 | TW050-PUR/BLK-500 | 144 |
| T1-3-BLK/RED-30 | 149 | T1-4-RED/WHT-30 | 148 | TC-1-BLK-100 | 150 | TW050-PUR/WHT-500 | 144 |
| T1-3-BLK/WHT-30 | 149 | T1-4-RED-100 | 147 | TC-1-BLU-100 | 150 | TW050-PUR-100 | 141 |
| T1-3-BLK/YEL-100 | 149 | T1-4-RED-30 | 147 | TC-1-BRN-100 | 150 | TW050-PUR-500 | 141 |
| T1-3-BLK/YEL-30 | 149 | T1-4-WHT/BLK-100 | 149 | TC-1-GRN-100 | 150 | TW050-RED/BLK-500 | 145 |

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EWA 2025 Version 3.0 – 03/2025

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