

EWA2025

EWA 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.



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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

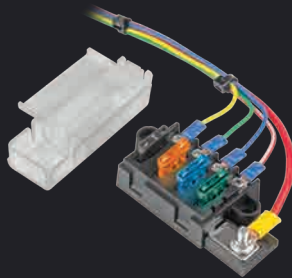
85 Switchable Circuit Breaker



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

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Conduit & Conduit Fittings



Conduit & Conduit Fittings



Polyflex® PA6

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PP Split

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Conduit Tools & Accessories

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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 IONNIG 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

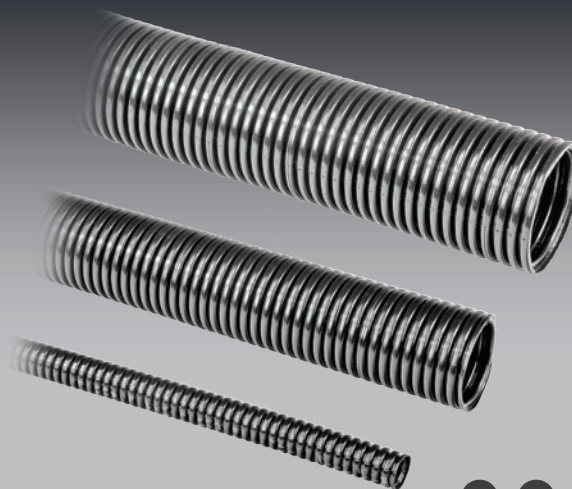


Hinged Fittings

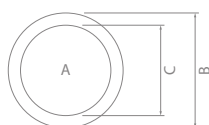
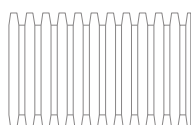
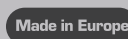
Conduit & Conduit Fittings

- 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



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

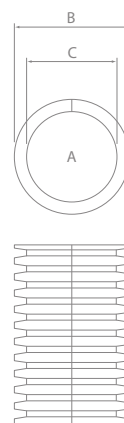
Polyflex® PPmod



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

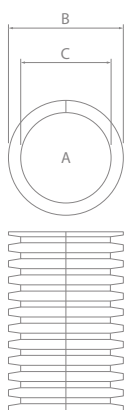
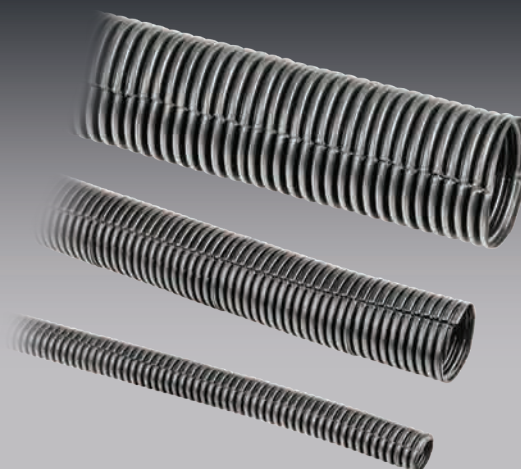
Part No.	NW – A	B (mm)	C (mm)	Roll Length (m)
1927304/100	4.5	7.1	5.0	100
1927306/100	6	9.2	6.0	100
1927308/50	8.5	12.9	8.5	50
1927311/50	11	15.7	11.1	50

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



- 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.

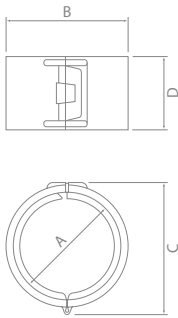


Fig 1

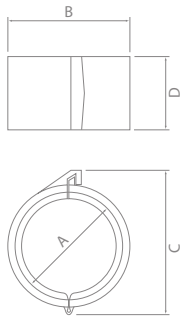


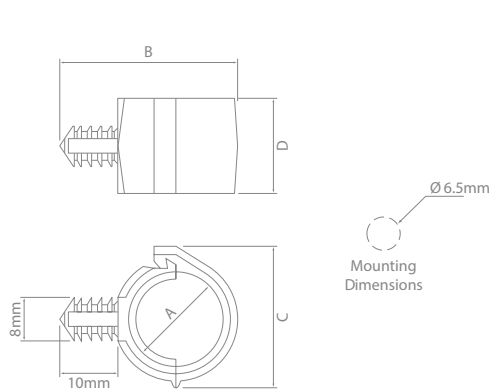
Fig 2

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



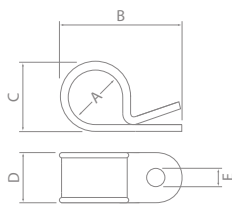
9805917/10

9805914/10

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.



8211094/10



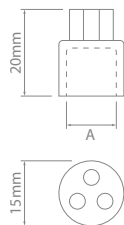
8211019/10

'P' Clamps – Heavy-Duty

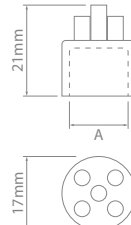
Part No.	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	Pack Qty
8211060/10	5.7 – 6.3	28	10	16	6.6	10
8211094/10	8.6 – 9.3	30	14	16	6.6	10
8211108/10	9.5 – 10.3	32	15	16	6.6	10
8211124/10	11.5 – 12.3	34	17	16	6.6	10
8211000/10	12.3 – 13.3	36	18	16	6.6	10
8211035/10	15.5 – 16.3	38	121	16	6.6	10
8211019/10	21.4 –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



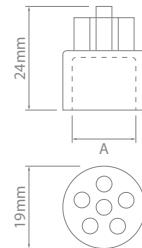
Conduit & Conduit Fittings



SJ03/5



SJ05/5



SJ06/5

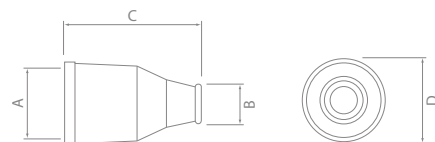
Conduit End Caps

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

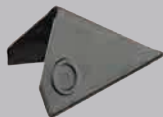
Using Conduit Tools



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



SF06



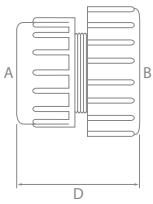
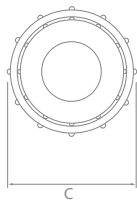
SF13

Made in Europe

- 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.

Adaptor Body :
Conical Seal :
Cap Nut :

Polycarbonate
Neoprene
Polyamide 6



Military Plug Adaptor Kits

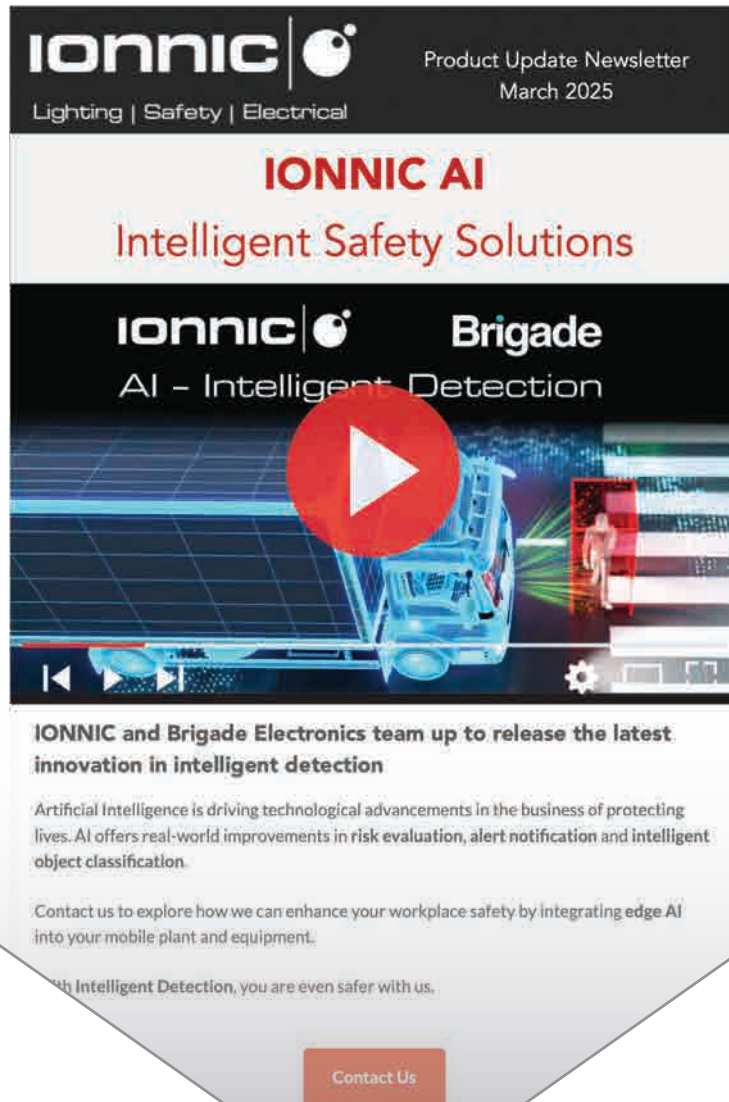
Part No.	NW – A	NC – A	Thread Size – B	C (mm)	D (mm)	Notes
SF02	10	12	7/8" -20 UNEF	36	31	
SF06	10	12	1" -20 UNEF	39	35	
SF03	17	20	1" -20 UNEF	36	35	
SF01	17	20	M35 x 1.75	36	35	Suits TE DEUTSCH HDP Series with L015 mod.
SF04	17	20	1, 3/16" -18 UNEF	36	38	Suits TE DEUTSCH HD36-18 adaptors
SF05	22	25	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 |  Product Update Newsletter
Lighting | Safety | Electrical March 2025

IONNIC AI
Intelligent Safety Solutions

ionnic |  **Brigade**
AI - Intelligent Detection

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](#)



ionnic.com

Conduit & Conduit Fittings



Made in Europe

- 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.

Adaptor Body :

'O' Ring :

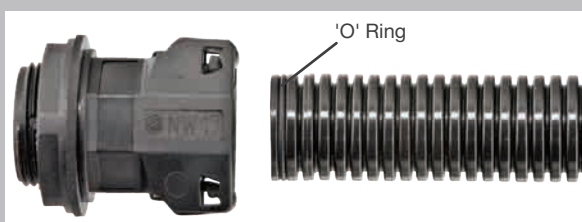
Burning Behaviour :

Polyamide 6 (PA6)

Perbunane

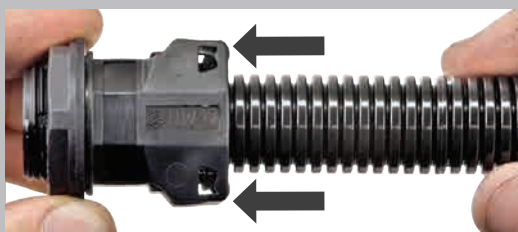
According to FMVSS 302
<100mm/min

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.

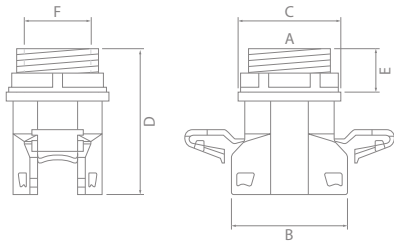


Insert conduit into already closed SEM-FAST adaptor and firmly push in until locking clamps catch.



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

Conduit & Conduit Fittings



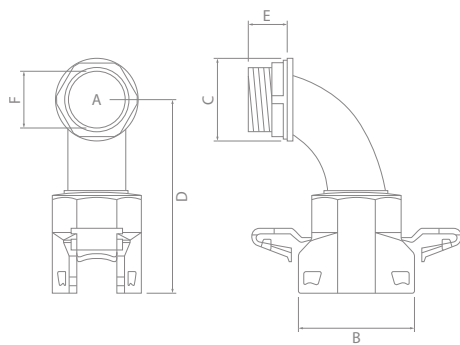
SEM16M16/5



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.



SEM16M1690/5



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



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.



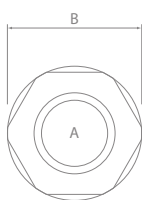
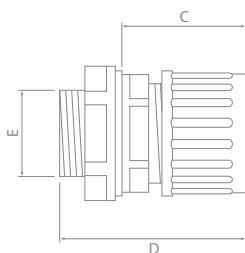
For maximum effectiveness the conical seal must be placed at least two corrugations back from the end of the conduit, as shown above.



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.

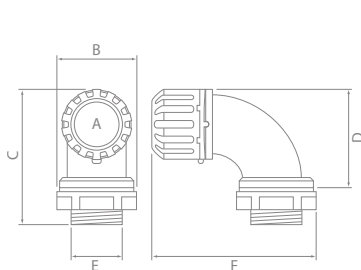


Fig 1

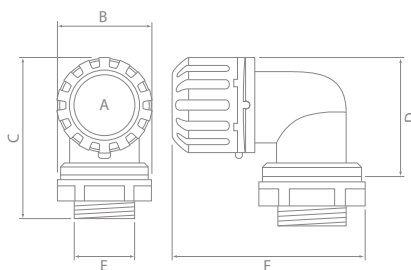


Fig 2



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



CTPB28



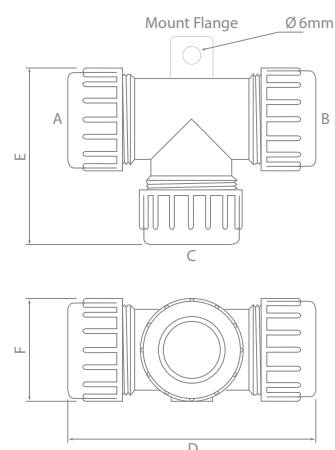
SE20

Made in Europe

- 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.

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

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



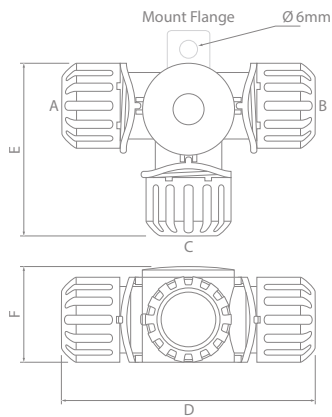
Threadconnect T Piece Kits

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.

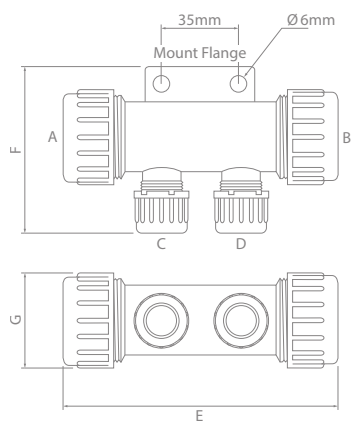
Conduit & Conduit Fittings



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



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 :

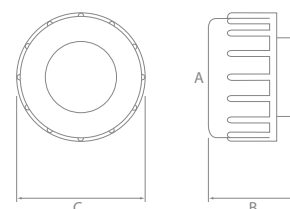
Neoprene
Polyamide 6



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

Hinged T & Y 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

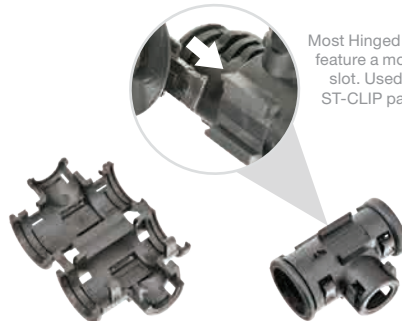
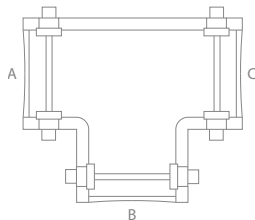


9817203/10

Material :
Operating Temperature :

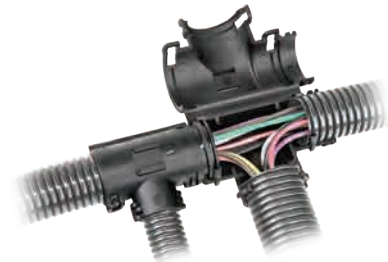
Polyamide 66 (PA66)
-40°C to 135°C

Made in Europe



9806090/10

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



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

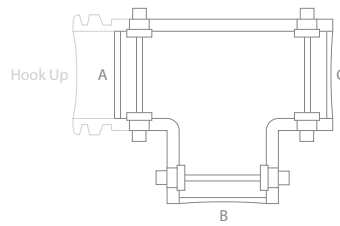


Fig 1

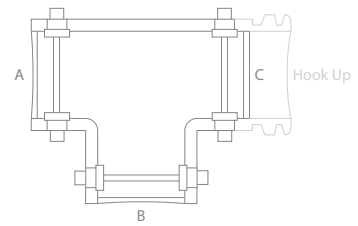


Fig 2

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

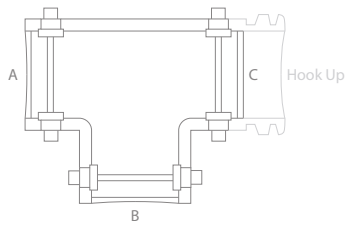
Create Manifold Using Hook Up Outlet

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

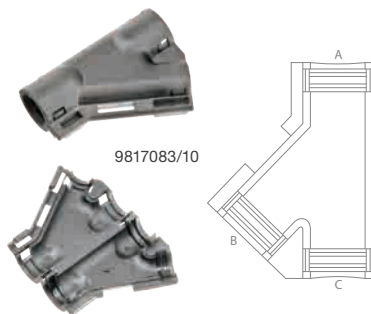


Fig 1

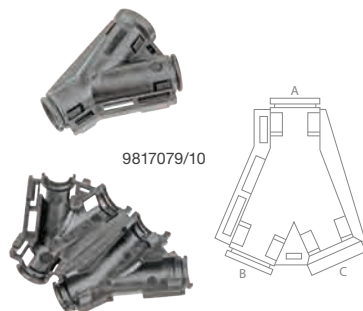


Fig 2

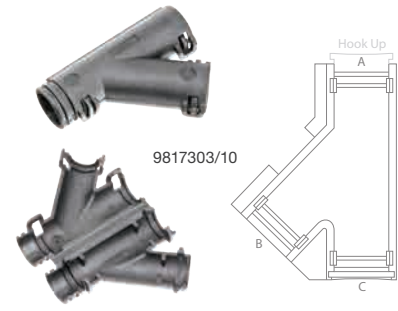


Fig 3



Fig 4

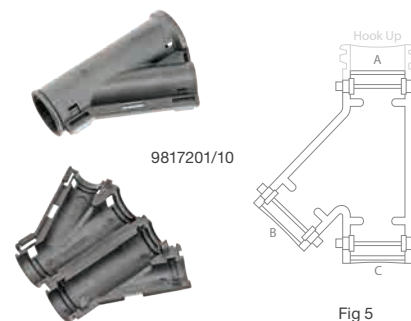


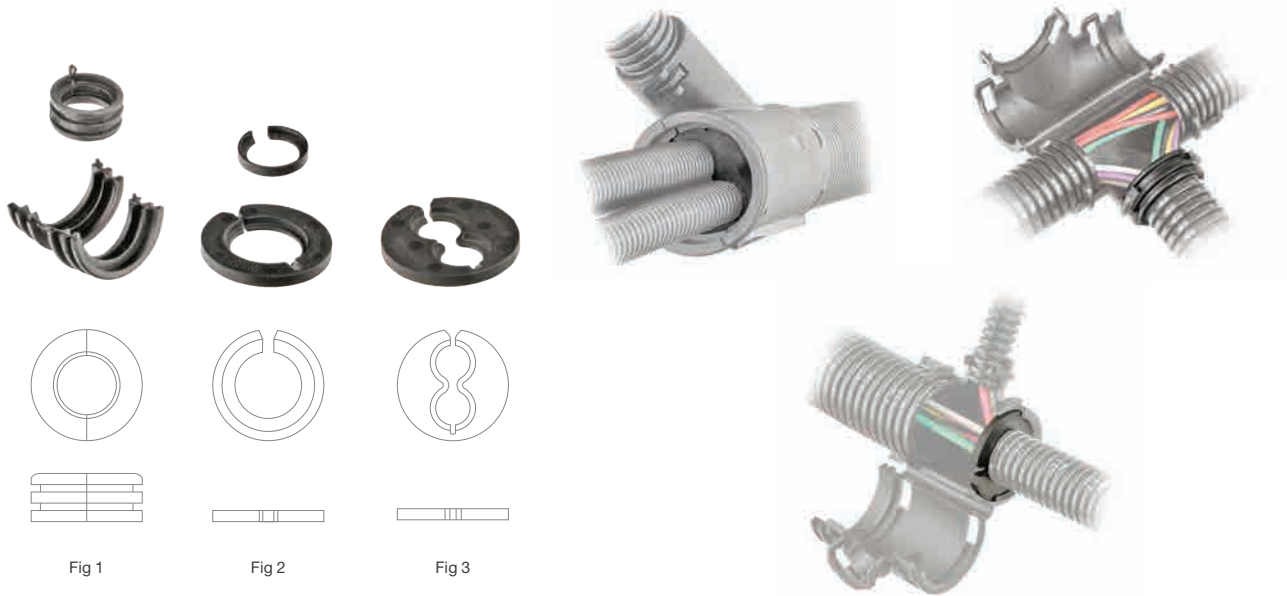
Fig 5

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

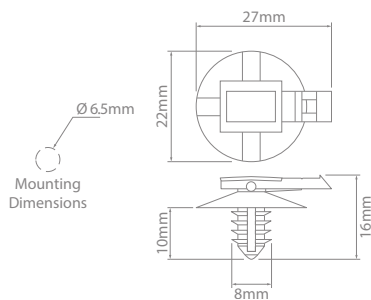
* Reducer supplied to achieve outlet size.

Conduit & Conduit Fittings



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

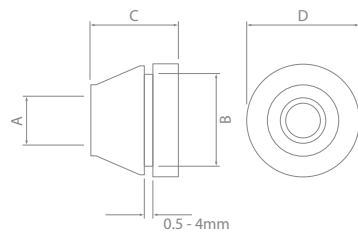


Terminal Insulators/Boots 44

Fitting Accessories



- 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

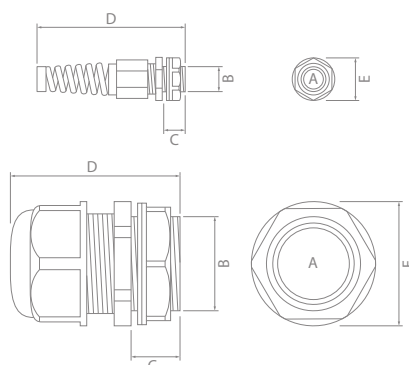
Fitting Accessories



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.

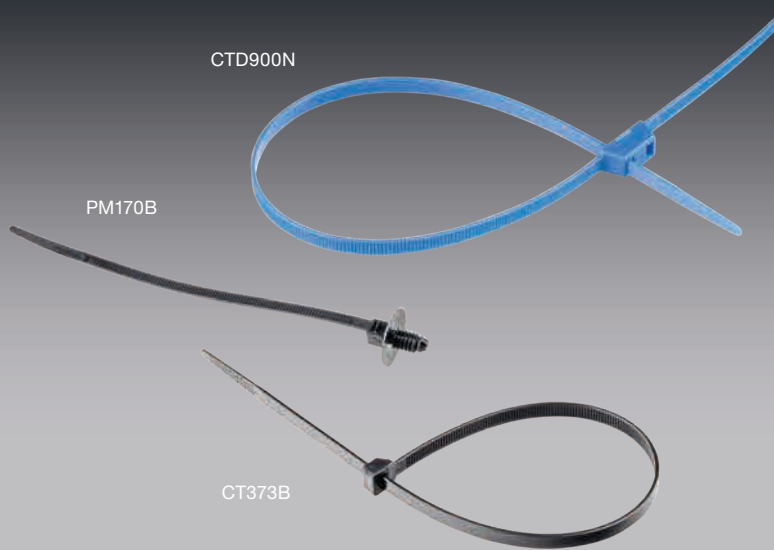
Kit contents:

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



Cable Ties – Standard-Duty

Colour		Dimensions (mm)	Pack Qty
Black	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 – Ø4mm hole	155 x 3.7	Black	100
SM194B	Screw mount – Ø5.5mm hole	200 x 4.2	Black	100
PM170B	Push mount – Ø7mm hole. Releasable zip	170 x 4.8	Black	100
PM194B	Push mount – Ø6.2mm 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 – Ø5.5mm 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

- 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.



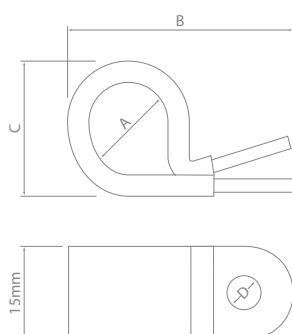
PSPHD09/10



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

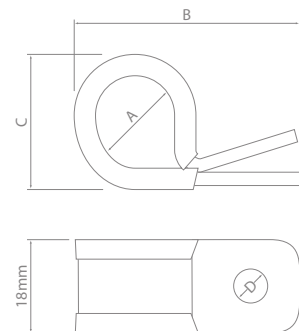
SAE 304 Stainless Steel



PSS04/10



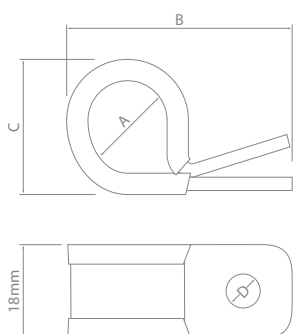
PSS12/10



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

Fitting Accessories



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



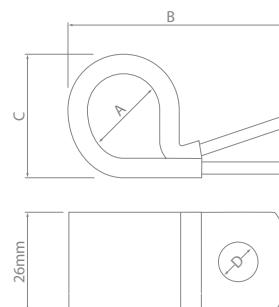
Fitting Accessories



PSPHD05/10



PSPHD17/10



Hose Support Clamps – Heavy-Duty – Plastic Coated

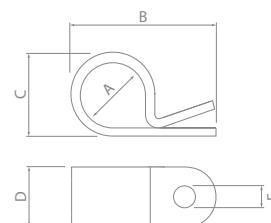
Part No.	A (mm)	B (mm)	C (mm)	D (mm)	Pack Qty
PSPHD0.5/10	10	48	16	10	10
PSPHD00/10	12	50	18	10	10
PSPHD01/10	14	52	20	10	10
PSPHD02/10	16	54	22	10	10
PSPHD03/10	18	56	24	10	10
PSPHD04/10	20	64	26	10	10
PSPHD05/10	22	66	28	10	10
PSPHD06/10	24	68	30	10	10
PSPHD07/10	26	71	32	10	10
PSPHD08/10	28	73	34	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



PSN01/100



PSN03/100



'P' Clamps – Light-Duty

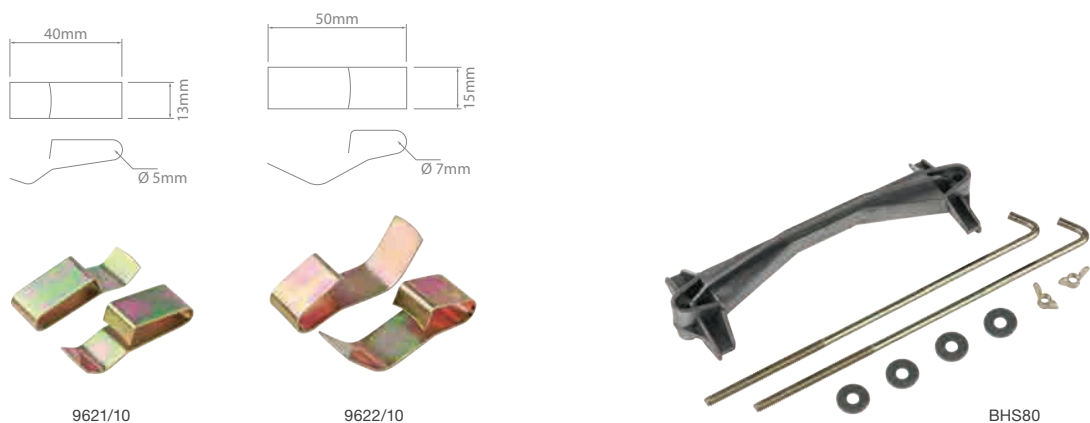
Part No.	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	Pack Qty
PSN0.5/100	5	19	7	10	5.3	100
PSN01/100	6.4	21	8	10	5.3	100
PSN01.5/100	7.2	23	10	10	5.3	100
PSN02/100	9.5	27	13	13	5.3	100
PSN03/100	12.7	30	14	13	5.3	100
PSN04/100	15.8	35	18	13	5.3	100

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



- 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.



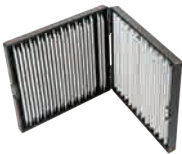
37994

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



Selecting Prongs



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

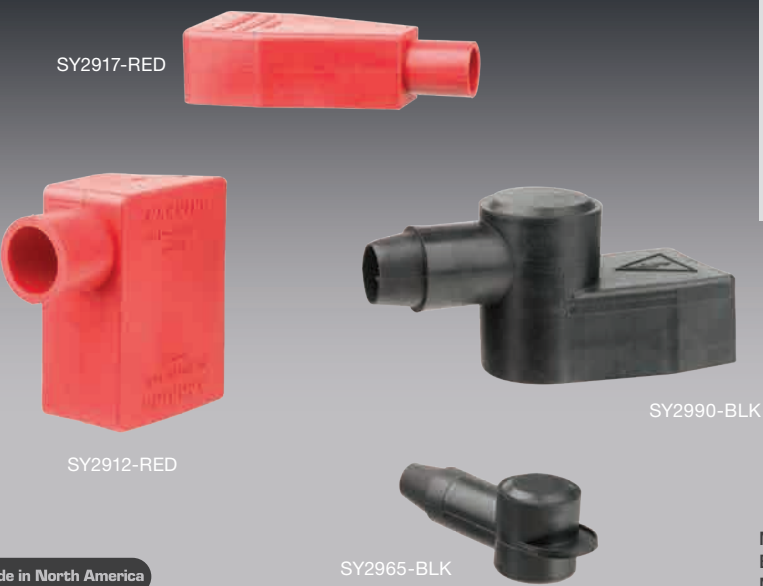
Kit contents:

- 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.

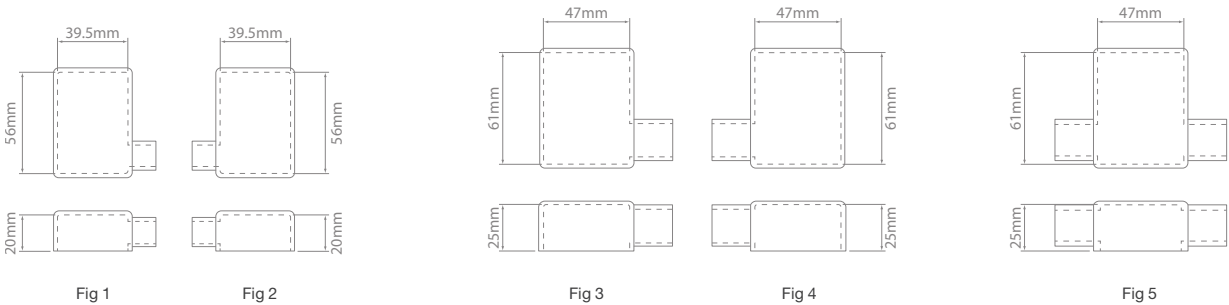


Fitting Accessories



- 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.

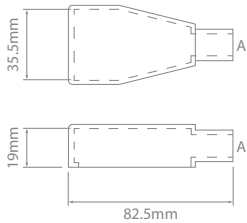
Material : Flexible PVC
Burning Behaviour : UL94V2
Max. Operating Temperature : 105°C



Battery Terminal Insulators

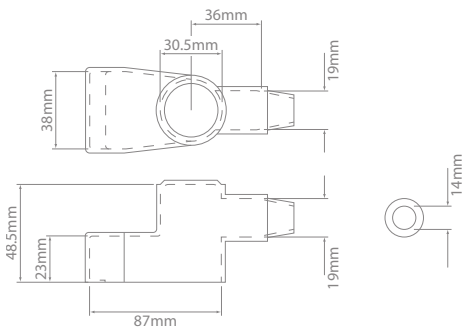
Red	Black	Pack Qty	Post Height (mm)	Cable Ø (mm)	Cable Entry	Material Thickness (mm)	Fig
SY2906-RED	SY2906-BLK	1	20	12.5	Right Hand	1.5	1
SY2910-RED	SY2910-BLK	1	20	12.5	Left Hand	1.5	2
SY2912-RED	SY2912-BLK	1	25	17.5	Right Hand	2.3	3
SY2914-RED	SY2914-BLK	1	25	17.5	Left Hand	2.3	4
SY2914R/100	SY2914B/100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

Fitting Accessories

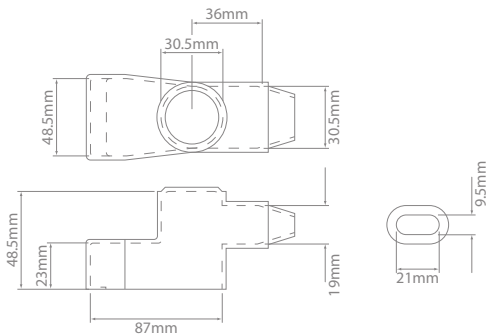


Battery Terminal Insulators – Straight Leads

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

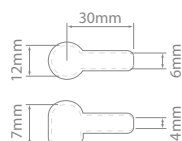
Red	Black	Pack Qty	Terminal Ø (mm)	Post Height (mm)	Material Thickness (mm)	Fig
SY2990-RED	SY2990-BLK	1	30.5	23	2	1
SY2990R/100	SY2990B/100	100				
SY2995-RED	SY2995-BLK	1	30.5	23	2	2
SY2995R/100	SY2995B/100	100				



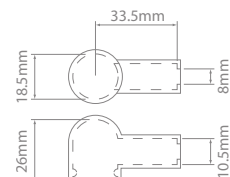
Fitting Accessories



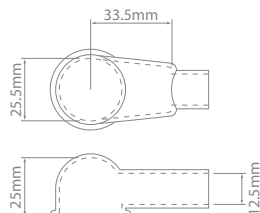
SY2900



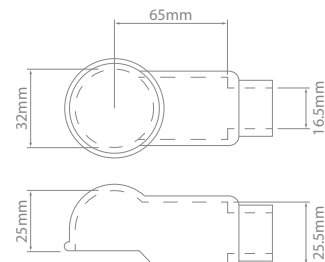
SY2980



SY2982

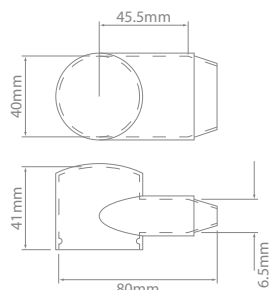


SY2984



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

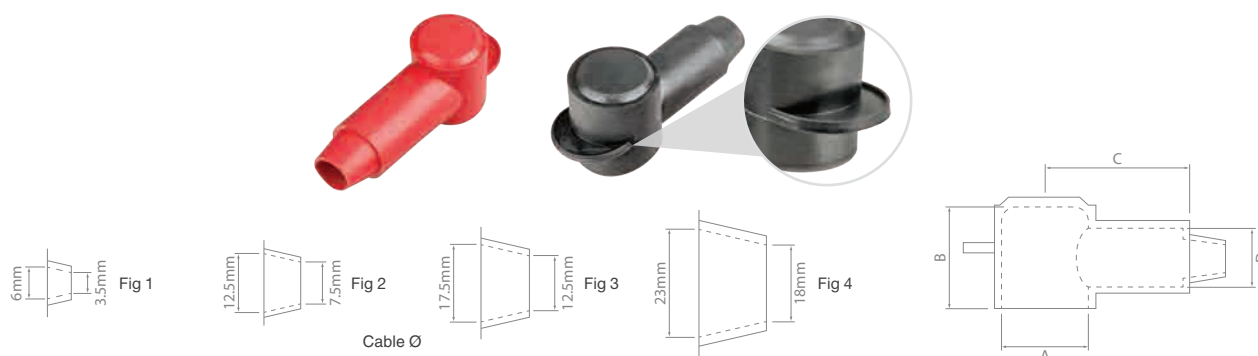
SY2998-RED



Terminal Insulators – Lug & Ring – Marine

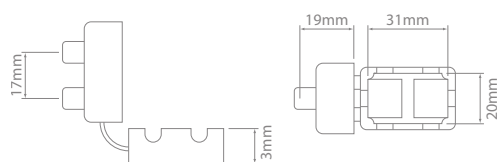
Red	Black	Pack Qty	Terminal Ø (mm)	Post Height (mm)	Terminal Length (mm)	Material Thickness (mm)
SY2999-RED	SY2999-BLK	1	40	41	58.5	1.5
SY2999R/100	SY2999B/100	100				
SY2998-RED	SY2998-BLK	1	Base for use with SY2999			2.5

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



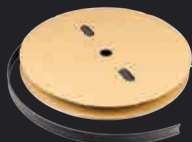
PVC Tubing 56



Spiral Wrap 57



Heatshrink – Standard Wall 58



Heatshrink – Diesel Resistant 61



Heatshrink – Adhesive Lined 62

Sleeving



- 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

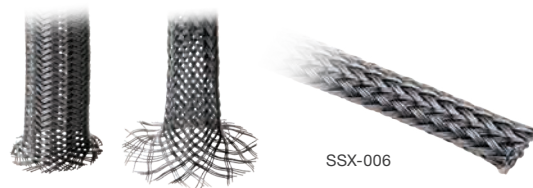
Guard-Flex – Anti-Fray

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

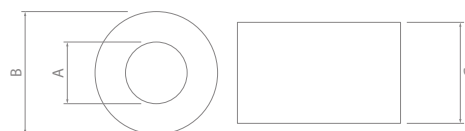
Anti-fraying

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

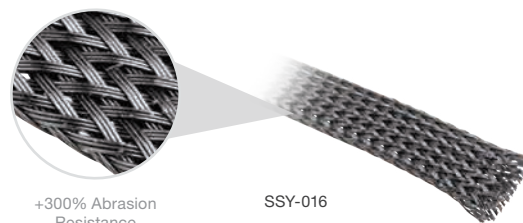
Guard-Gorilla – High Anti-Abrasion

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

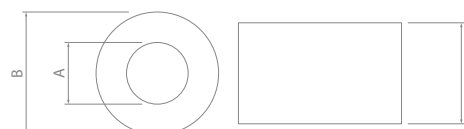
+300%
Abrasion
Resistance

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.



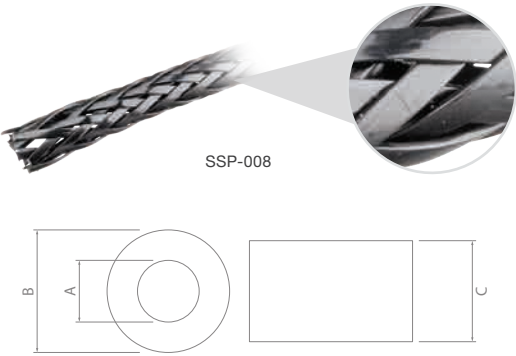
+300% Abrasion
Resistance



Guard-Gorilla – High Anti-Abrasion

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

Sleeving



Guard-Tough – Nylon Flat Filament

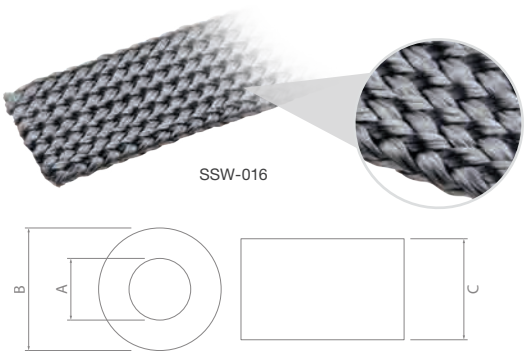
Material : Polyamide 6.6
 Approvals : RoHS
 Cutting Tool : Hot Knife
 Melting Point : 256 ±5°C
 Flammability : UL 94V-2
 Operating Temperature : -60°C to 160°C

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.



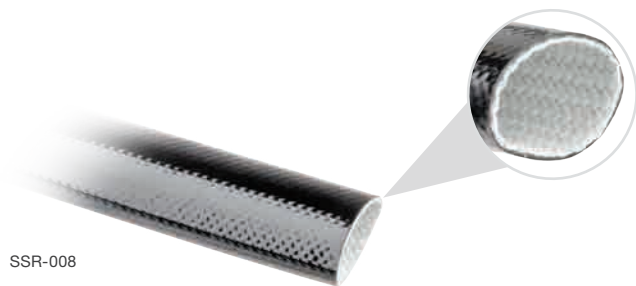
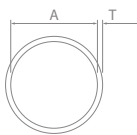
SSR-020

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

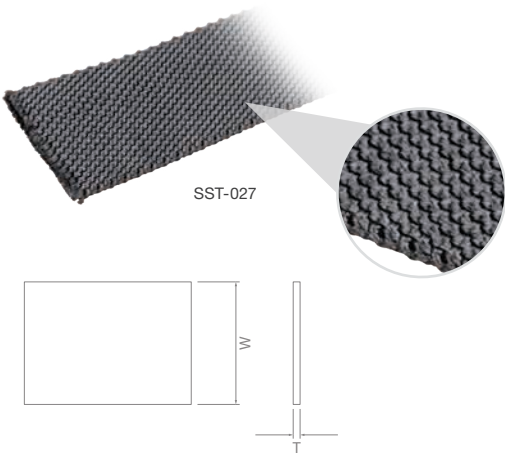


- Range of materials & sizes available.
- Broad operating temperatures.
- Tight textile weaves.
- All supplied in 25m rolls.
- Extremely flexible & easy to apply over irregular shapes.
- Salt, oil, most fuels, solvent and abrasion resistant.

Approvals :
Roll Lengths :
Continuous lengths can not be guaranteed due to manufacturing limitations.

RoHS
25m

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

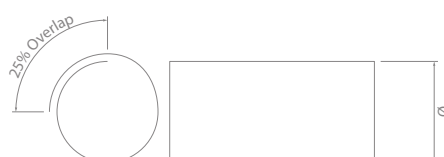
Self-closing sleeve is a non-expandable sleeving woven from monofilament and multifilament warped polyester. Guard-Wrap provides a lightweight, cost-effective and tough solution for the protection of a wide range of components. Its inherent flexibility allows it to bend, coil and conform to irregular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



- 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

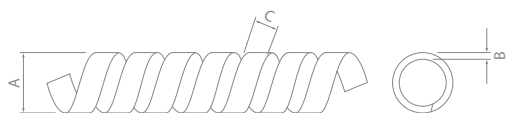
Roll Length – 25m	Roll Length – 50m	Roll Length – 100m	Roll Length – 200m	Roll Length – 250m	Inside Ø – A (mm)	Wall Thickness (mm)
PVC4/25	—	—	—	PVC4/250	4	0.5
PVC6/25	—	—	PVC6/200	—	6	0.5
PVC8/25	—	—	PVC8/200	—	8	0.65
PVC10/25	—	—	PVC10/200	—	10	0.65
PVC12/25	—	PVC12/100	—	—	12	0.85
PVC16/25	—	PVC16/100	—	—	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



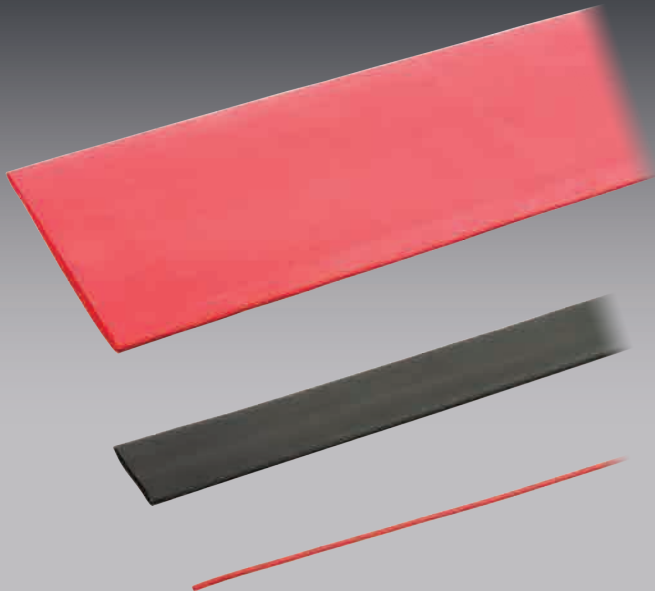
CTC-12B/10

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



- 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

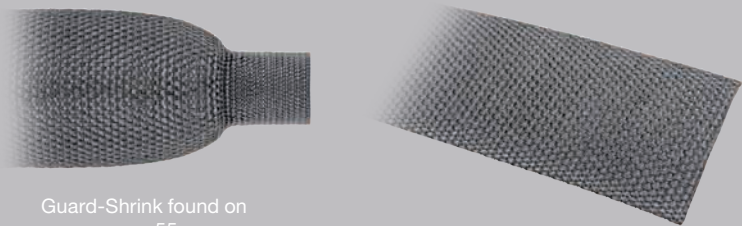
Standard Wall Heatshrink Specifications

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.

HS-KIT

20 x HS10 (Black)
40 x HS10 (Red)

20 x HS13 (Black)
40 x HS13 (Red)

Contents:

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

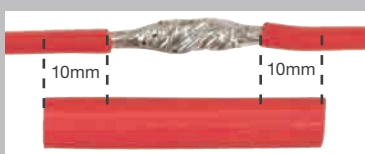


Custom lengths
available for all
2:1 Standard Wall
Heatshrink

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.



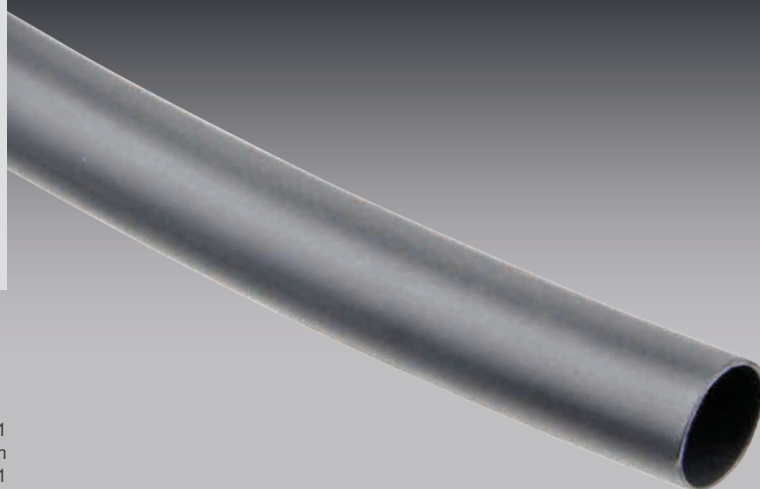
Apply heat thoroughly to the entire strip using hot air gun or similar tool.



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



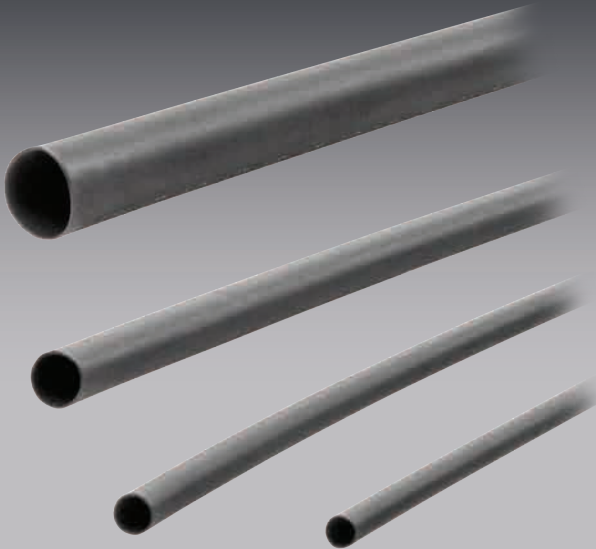
2:1 Heatshrink – Diesel Resistant – Rolls

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 :
Shrink Temperature :
Dielectric Strength :
Operating Temperature :

Polyolefin
95°C
>15kV/mm
>20kV/mm
Medium Wall
Dual Wall
Medium Wall

-55°C to 80°C
-55°C to 110°C



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

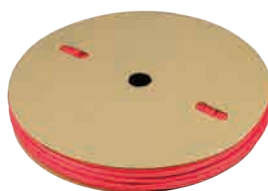
3:1 Dual Wall Heatshrink – 40mm/50mm/70mm Lengths

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 NEW	24
DW9RED	DW9BLK	9	DW39RED	DW39BLK	DW39CLR NEW	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.

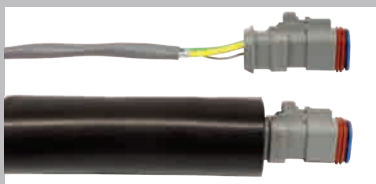


4:1 Dual Wall Heatshrink – 1.2m Lengths

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.

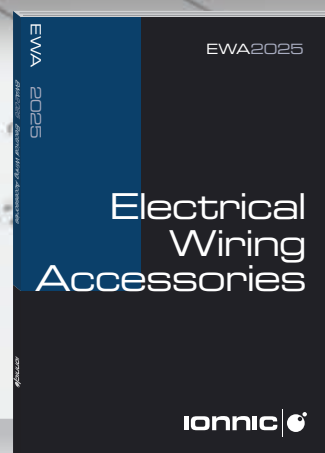
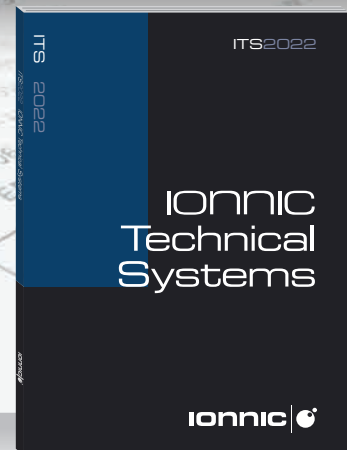
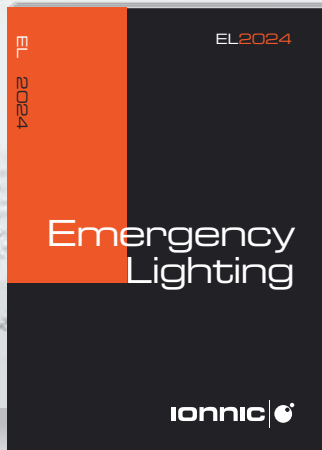


Apply heat starting at the connector end.



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



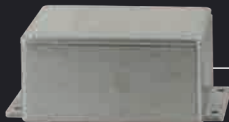
Polypropylene 68



ABS/Thermoplastic 70



PVC 74



Die-cast 75



Pendant Control 76



Fuel Junction 78

Enclosures

Polypropylene



SBZ003



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

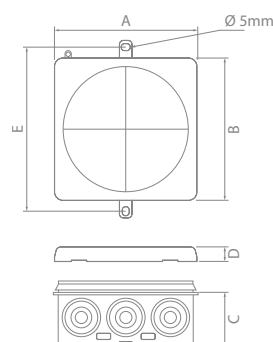
IP55

Made in Europe

SBZ Series features firm but flexible construction



SBZ001



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							



100

100



100

100

Enclosures



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.

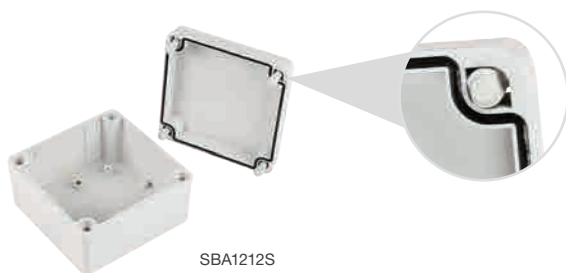
Hinge & Latch :
Operating Temperature : PJ Series

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

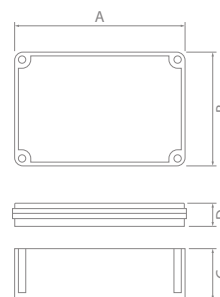
IP66

RoHS

CE

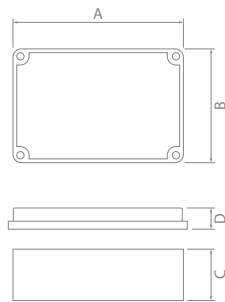


SBA1212S



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



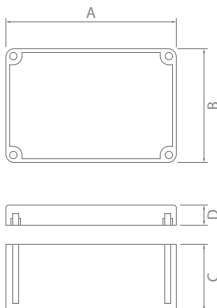
SBB2230



SBB0812

ABS Enclosures – SBB Series

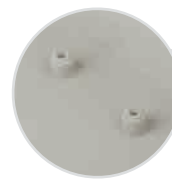
Part No.	A (mm)	B (mm)	C (mm)	D (mm)
SBB0812	80	120	40	14
SBB1010	100	100	40	14
SBB1115	150	110	49	25
SBB1924	240	190	70	26
SBB2230	300	220	76	50



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

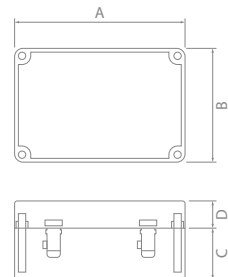


SBH2020

IP66

RoHS

CE



ABS Enclosures – Hinged Lid

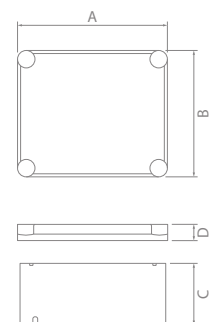
Part No.	A (mm)	B (mm)	C (mm)	D (mm)
SBH1212S	125	125	55	20
SBH2020	200	200	120	20
SBH2819-1	280	190	100	80



50860

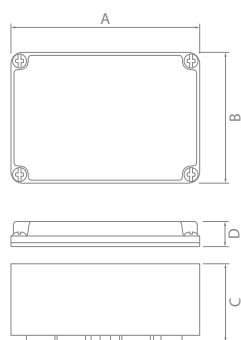
50866

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



Thermoplastic Enclosures – PJ Series



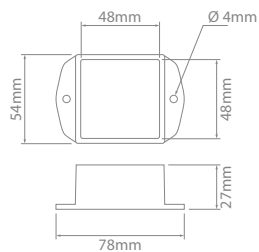
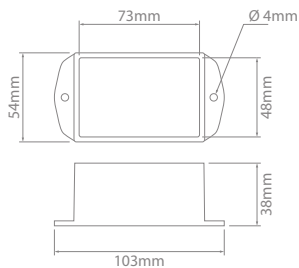
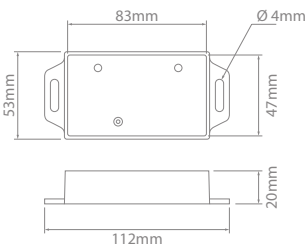
Part No.	A (mm)	B (mm)	C (mm)	D (mm)
PJ110706	75	110	50	15
PJ111106	110	110	50	15
PJ151107	110	150	60	15



Ideal for use with epoxy resin



Ideal for use with epoxy resin



IONNIC Potting Box

Part No.	Profile
SIPR01	Low
SIPR02	High
SIPR03	Mid



Enclosures

PVC



265/4



265/1

IP56

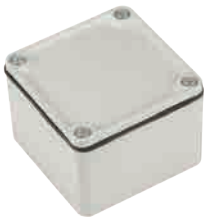
- Solid & lightweight enclosures.
- Environmentally sealed – IP56.
- Ideal for general purpose applications.
- Supplied with sealing gasket.

Body :
 Ingress Protection :
 Operating Temperature :

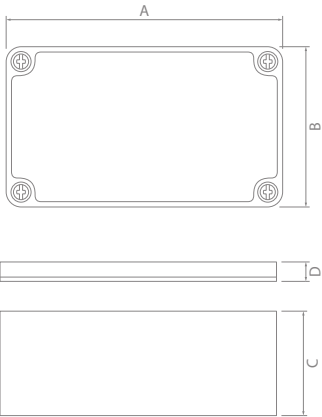
Polyvinyl Chloride
 IP56
 -20°C to 60°C



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



IP66

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

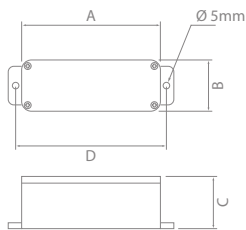


Fig 1

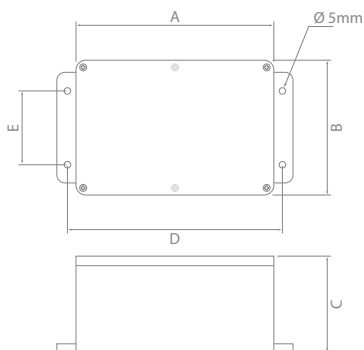


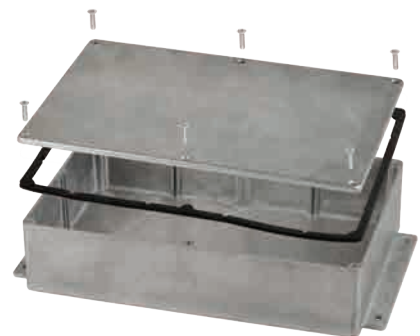
Fig 2



H0420



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

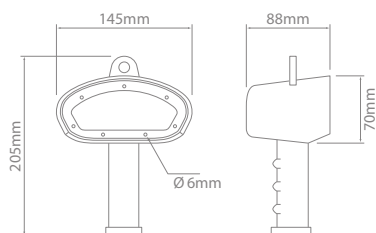




- Configurable to personal requirements.
- Engraved face plate available on request.
- Wide range of toggle switches available to integrate.

Body :

Polyurethane



HC1



FP



FP2



FP3



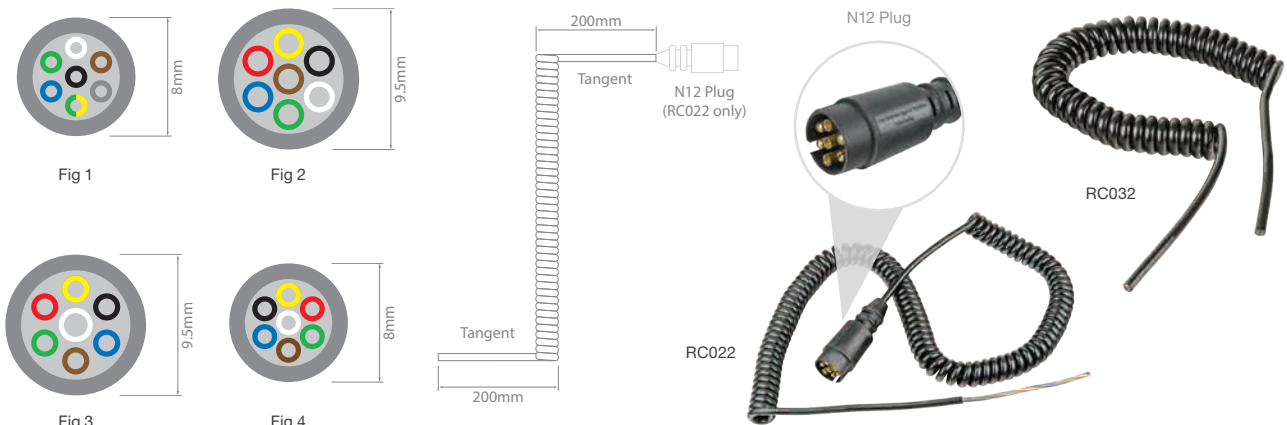
CG16SR

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	Hytrel	4



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	

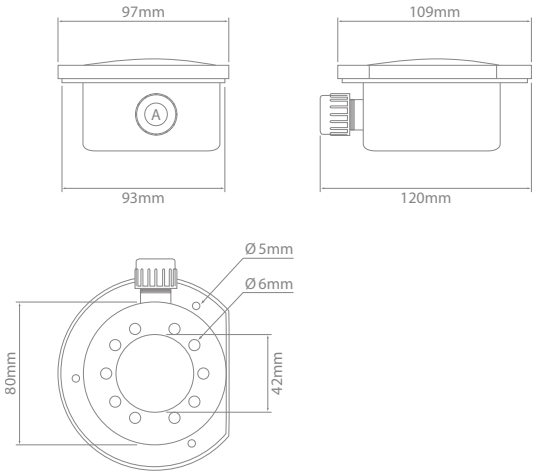
Enclosures

- Environmentally sealed – IP67.
- Integrated Threadconnect fitting.



IP67 Made in Europe

Body :
Seal :
Ingress Protection :
Operating Temperature :
Polyoxymethylene
Perbunane
IP67
-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



S5505

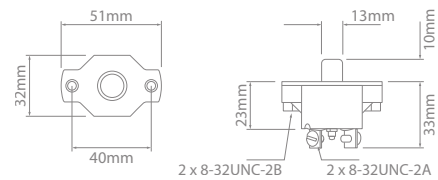


- Panel or surface mount option.
- Compact size.
- Manual or automatic reset methods.
- Broad operating temperature.
- Ideal for trucks, buses, RV's, portable generators, battery chargers.

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

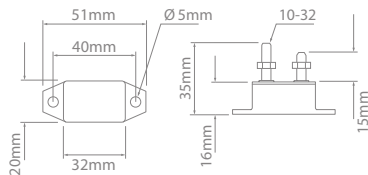


CDM Series – Panel Mount

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

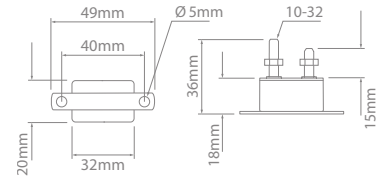
Manual reset.

Circuit Breakers



Bussmann®

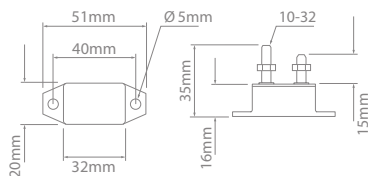
Made in North America



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



Manual
reset



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.

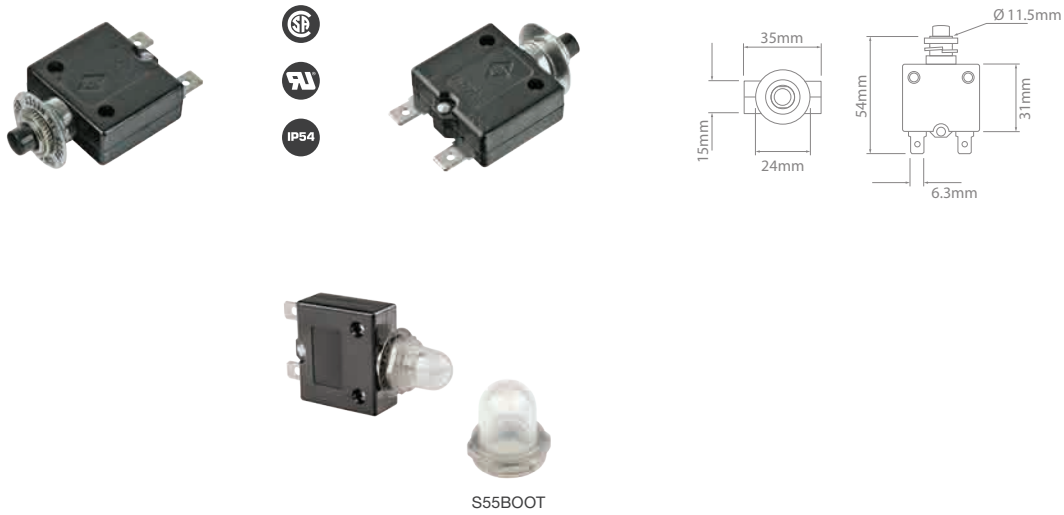


Accessories – 121/123 Series – Terminal Insulators

	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

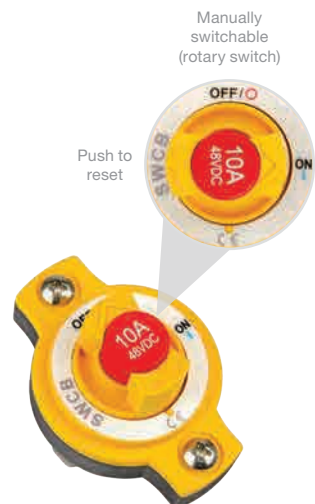
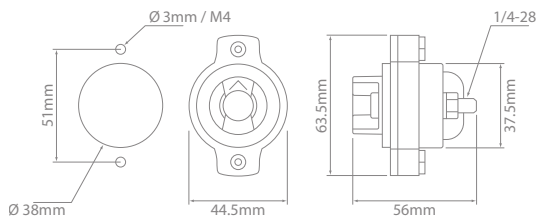
- 2 in 1 – switch / circuit breaker.
- Manually switchable (rotary switch).
- 48 VDC max. Easily supports 12, 24 and 36V systems.
- Robust construction, high shock and vibration resistance.
- Compact design.
- Environmentally sealed – IP67.
- 2-year warranty.

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

Manual reset.



Circuit Breakers

CB255-10



- 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.



CB187F-100

Made in North America

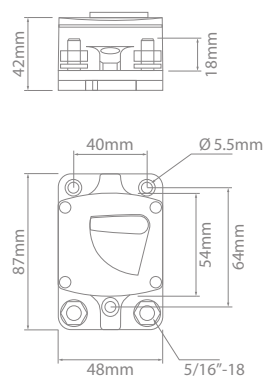
IP66

Material :
Approvals :

187F Series
255 Series

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

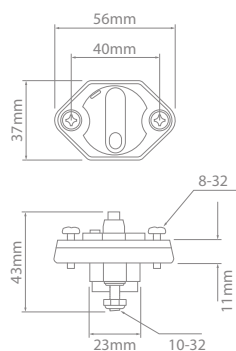
Ingress Protection :
Operating Temperature :



187F Series – Surface Mount

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

Switchable.



255 Series – Panel Mount

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

Switchable.

Circuit Breakers



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.

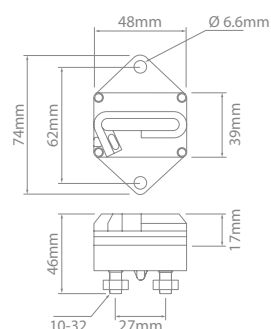
Material : Thermoset Plastic
 Ingress Protection : 184/185 Series IP67
 Approvals : CE, SAE J1625
 Operating Temperature : 184/185 Series -40°C to 85°C



IP67



Made in North America

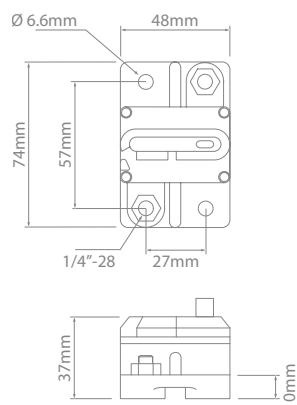


184P Series – Panel Mount

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

Manual Reset.

Circuit Breakers



Made in North America

Switchable –
press to trip



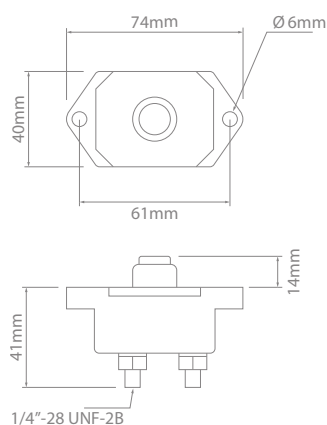
IP67



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

50A	60A	80A	105A	135A	150A
SDLM50	SDLM60	SDLM80	SDLM105	SDLM135	SDLM150

Manual Reset.

Not a Bussmann product.



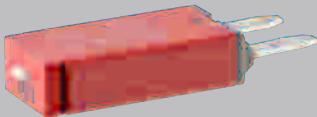
Circuit Breakers



CB227-15



CB192-30M

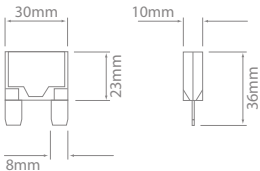
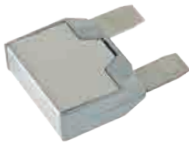


CB233-10

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 :		SAE J553
	Maxi & ATC Series	SAE J1171
Operating Temperature :		-40°C to 85°C

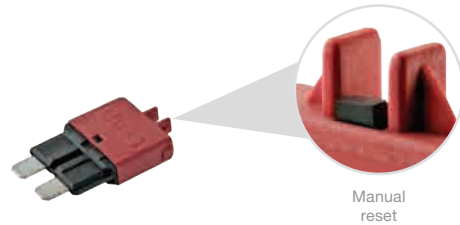
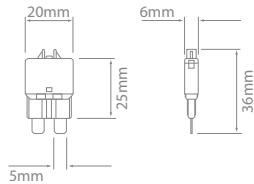


Maxi (MAX)

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

Modified Reset.

Circuit Breakers

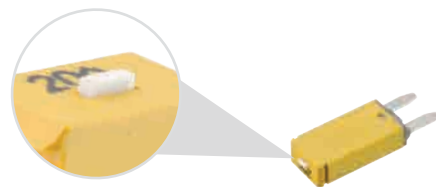
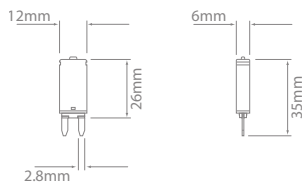


Manual reset

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 & Fuser 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

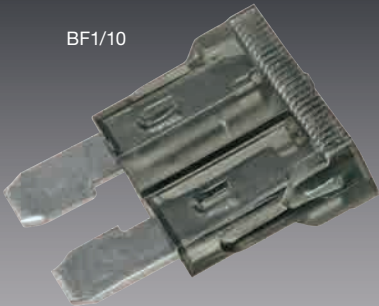


Modular MFL Fuse Holder 115

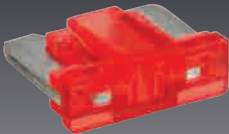


Mini Electrical Centres 116

Fuses & Fuse Holders



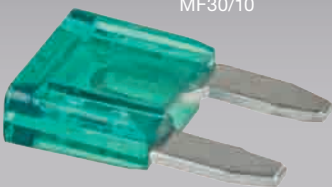
BF1/10



MCBF10/10

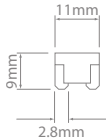


M2F20/10



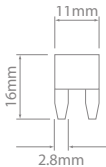
MF30/10

- 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



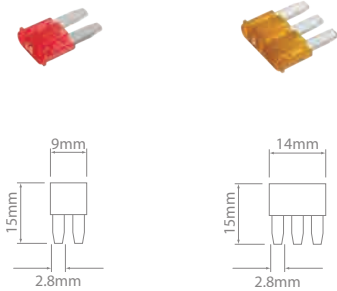
Blade – Mini (ATM)

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

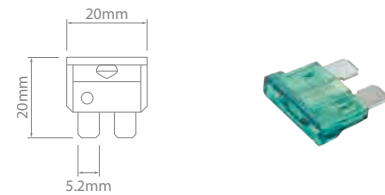
Blade – Micro 2/3 Blade (ATR & ATL)

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



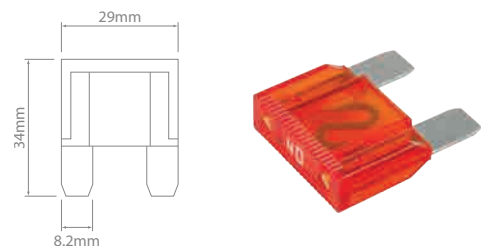
Blade (ATO/ATS)

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



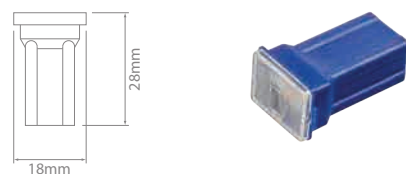
Blade – Maxi (MAX)

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

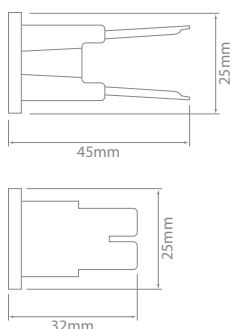
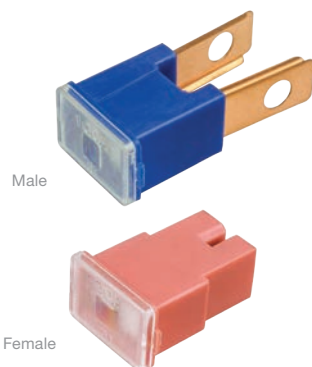


Fuse Link – Mini (MFL)

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

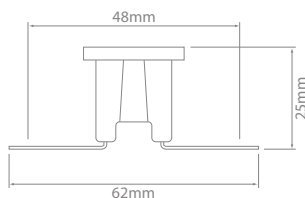
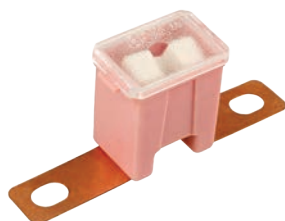


Fuses & Fuse Holders



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

NEW



Made in Europe

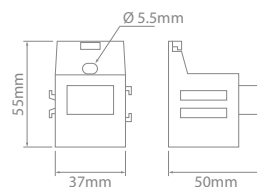
- FH602 & FH603 kits can seal to IP67 when used with a Microplex CAN Controller or 280 Series relays.
- Bases can be linked together using interconnecting guides.
- Kits supplied with all required components including contacts, seals and cavity plugs.
- Locking bracket can be easily released – no tools 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

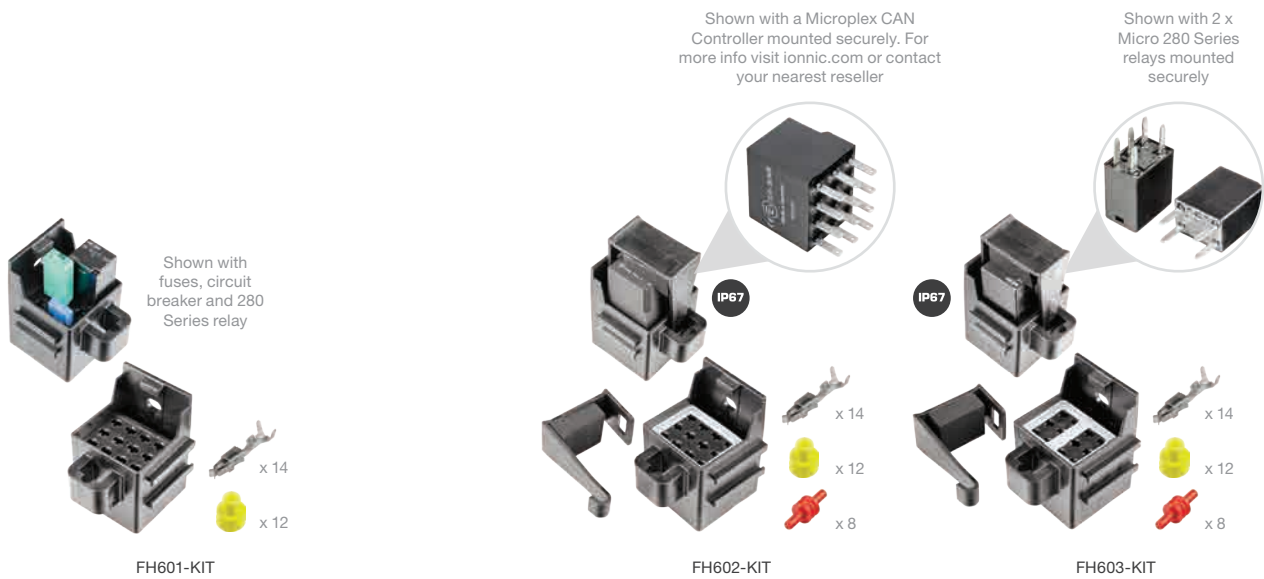


Watch a hands-on video showcasing the holders and kit combinations.
See more product videos on the ionnic YouTube channel.

Watch video



Fuses & Fuse Holders



Fuse & Relay Holder Kits – 600 Series NEW

FH601-KIT	FH602-KIT	FH603-KIT
 1 x Mounting Base 14 x Contacts (929939-3) 12 x Wire Seal (281934-2)	 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)	 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)

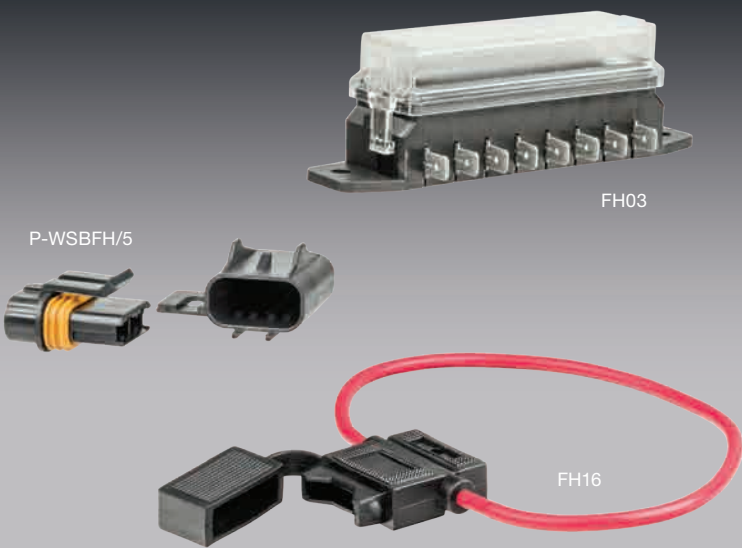


Fuse & Relay Holder Kits – Accessories NEW

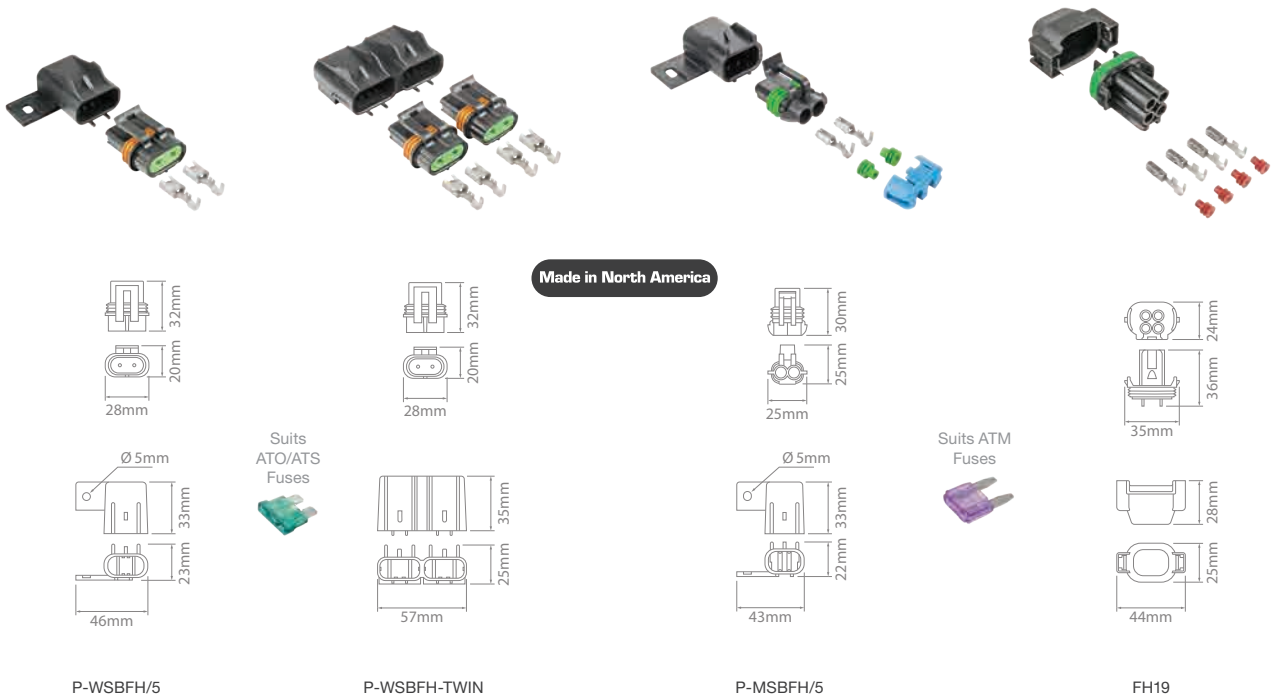
Part No.	Description	Blade Size (mm)	Wire Size (mm ²)	Cable O.D. Range (mm)	Pack Qty
927779-3/100	Contacts	2.8	0.5 – 1.0	1.4 – 2.3	100
929939-3/100	Contacts	2.8	0.5 – 1.0	1.4 – 3.4	100
WS1009/100	Wire Seal – Ø 5.2mm. Blue			1.2 – 1.7	100
P-15324973/100	Wire Seal – Ø 5.2mm. Red			2.03 – 2.85	100
281934-2/100	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



- 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

Suits
ATO/ATS
Fuses

Lateral Blade Fuse Holders
– Side entry terminals

Made in Europe

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

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

FH05

FH06

FH07

P-12010105

Suits ATO/ATS Fuses

Interlocking slots allows holders to be securely linked

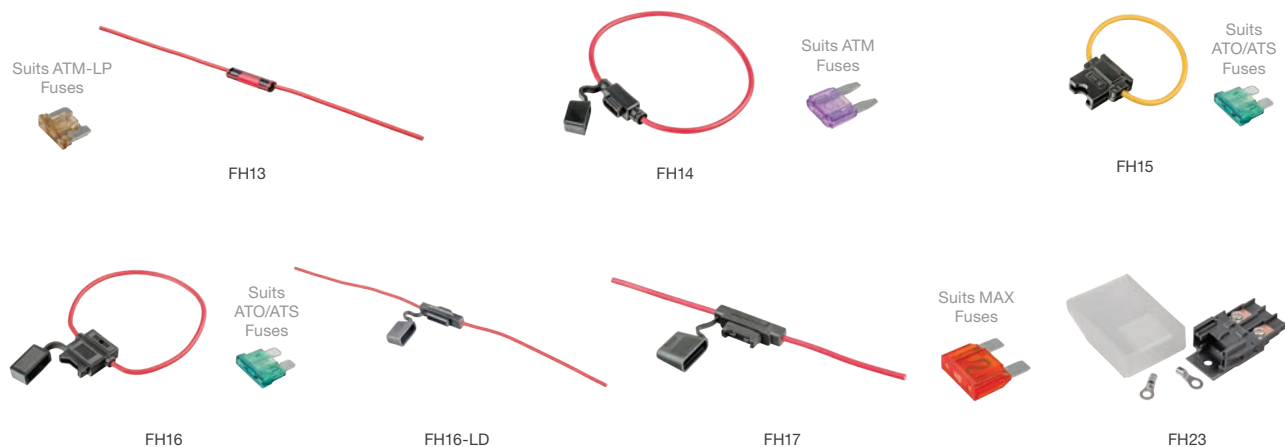
Fuse Holders – Blade – Axial

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

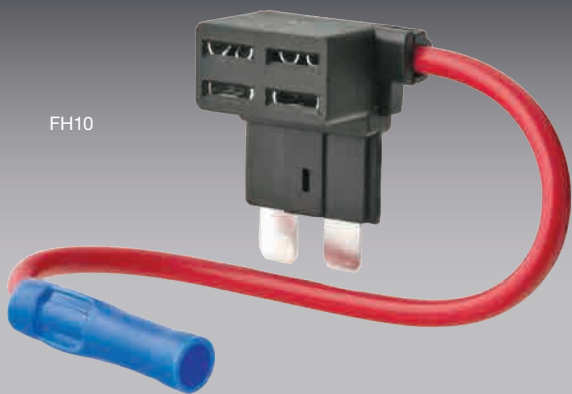
6.3mm
Blade

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		

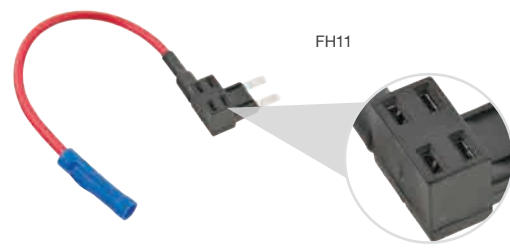
Fuses & Fuse Holders

- 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.

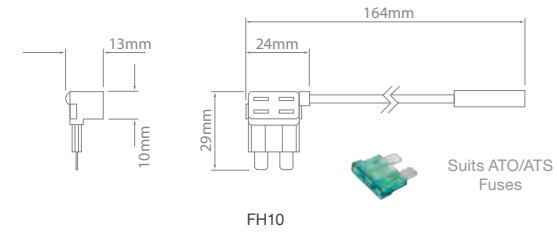


FH10

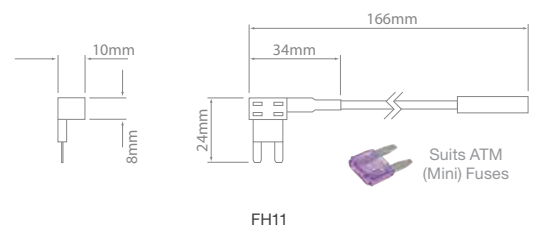
Current Rating : 10A per circuit
Cable Size : 4mm/1.84mm²



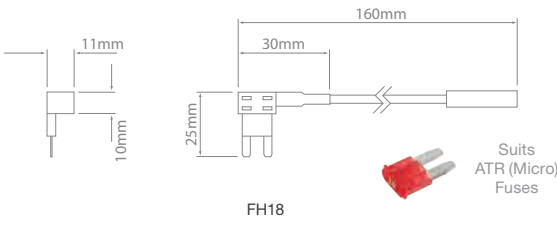
FH11



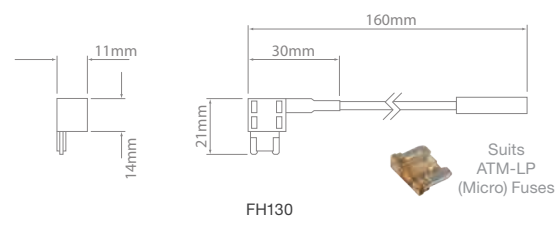
FH10



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



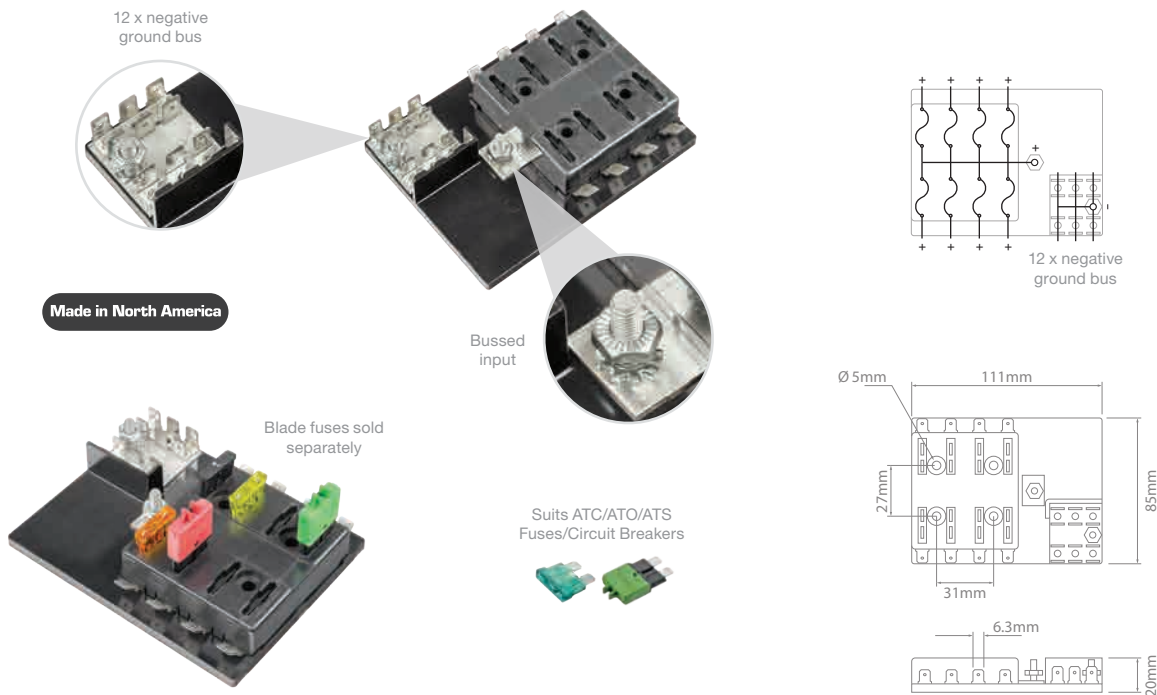
FH406



FH108

- 4, 6, 8 or 12 fuse models.
- All models include bussed 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

NEW

FH404

Seats 8 x ATO/ATS Fuses

Blade fuses sold separately

NEW

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

Holds 2 spare fuses inside of cover

Dual bussed inputs for power on both Marine models

6 x negative ground bus

B2 B2 B2

A1 A2 A3

+B

+A

Ø4.5mm

98mm

74mm

94mm

M5

123mm

56mm

Made in Europe

Suits ATC/ATO/ATS Fuses/Circuit Breakers



Marine Fuse Panels supplied with 84 icon decal set



FH412

Lockable splash cover

12 x negative ground bus

B1 B2 B3 B4 B5 B6

A1 A2 A3 A4 A5 A6

+B

+A

Ø4.5mm

138mm

74mm

94mm

M5

164mm

56mm

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

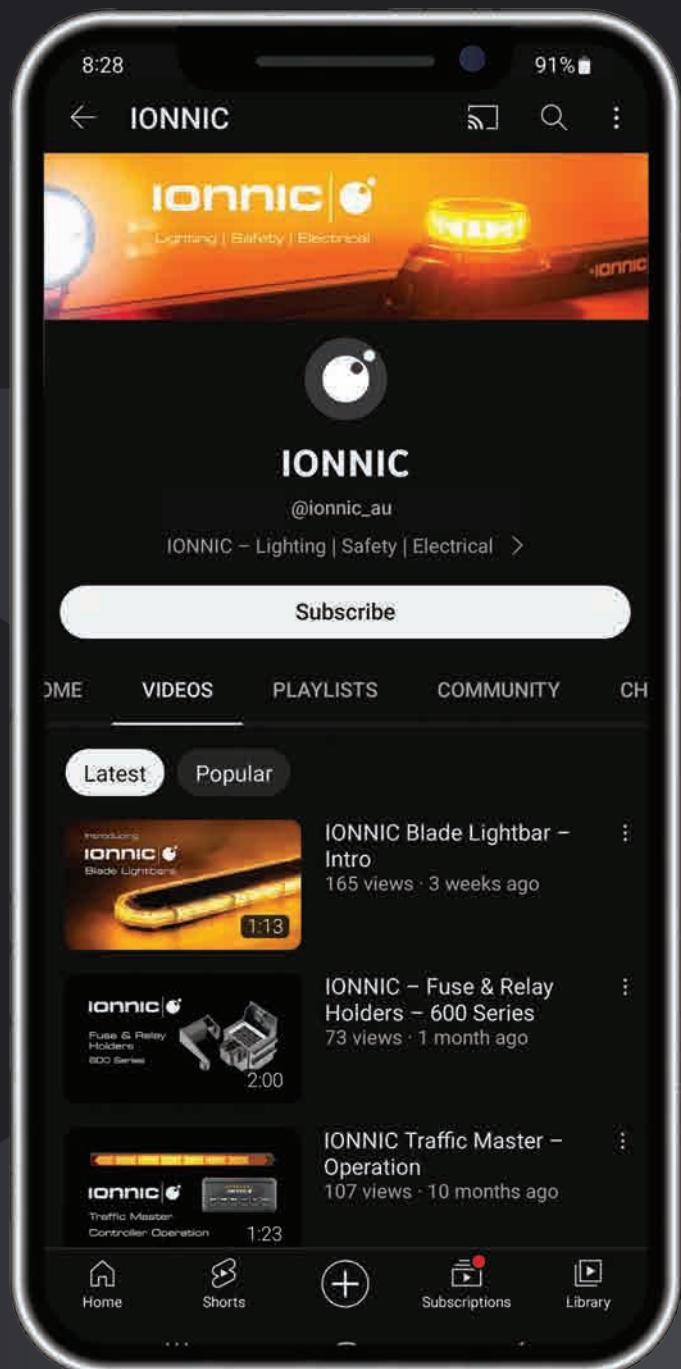
Supplied with 84 icon decal set.

IONNIC YouTube Channel

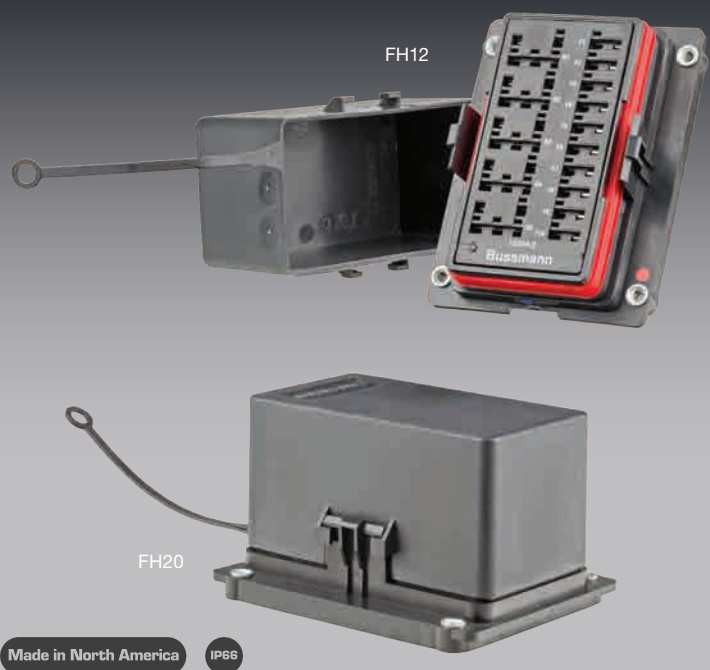
Product videos,
configuration tutorials
and more



SUBSCRIBE



Fuses & Fuse Holders



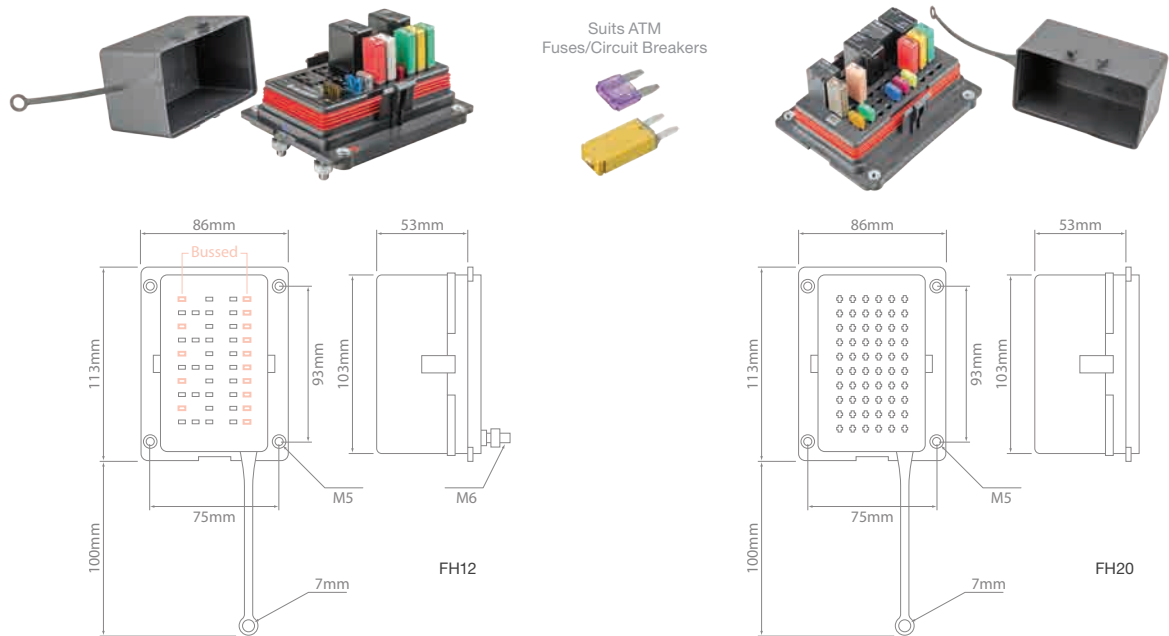
- Mini blade circuit breakers/fuses and micro relay panels.
- Efficient power distribution in a rugged compact form for applications in marine, construction, agriculture, heavy trucking, specialty vehicles.
- Weatherproof enclosure – IP66, when cover, cable seals, and cavity plugs are installed.
- Bussed (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

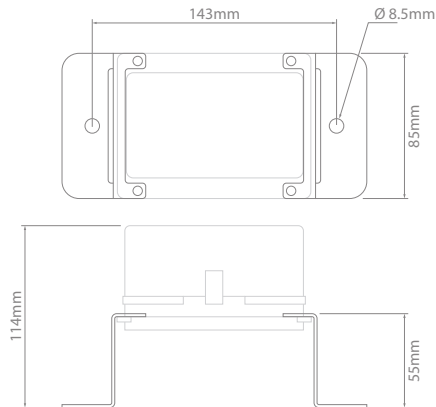


Weatherproof Fuse Panels

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 (mm²)	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

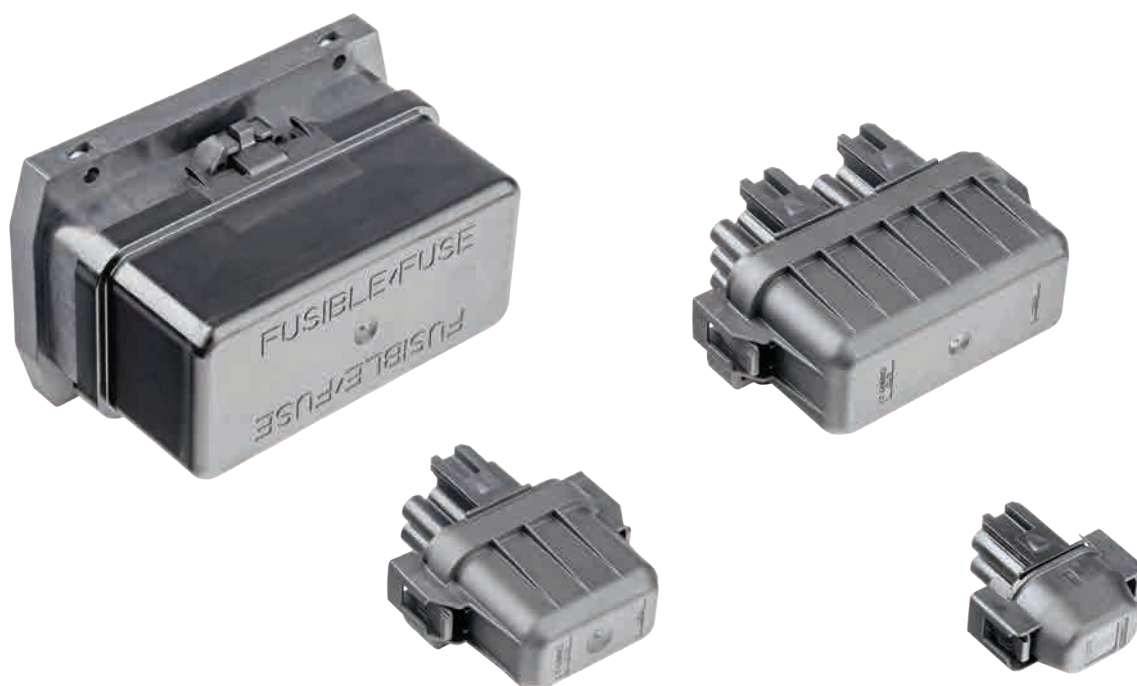


IP67

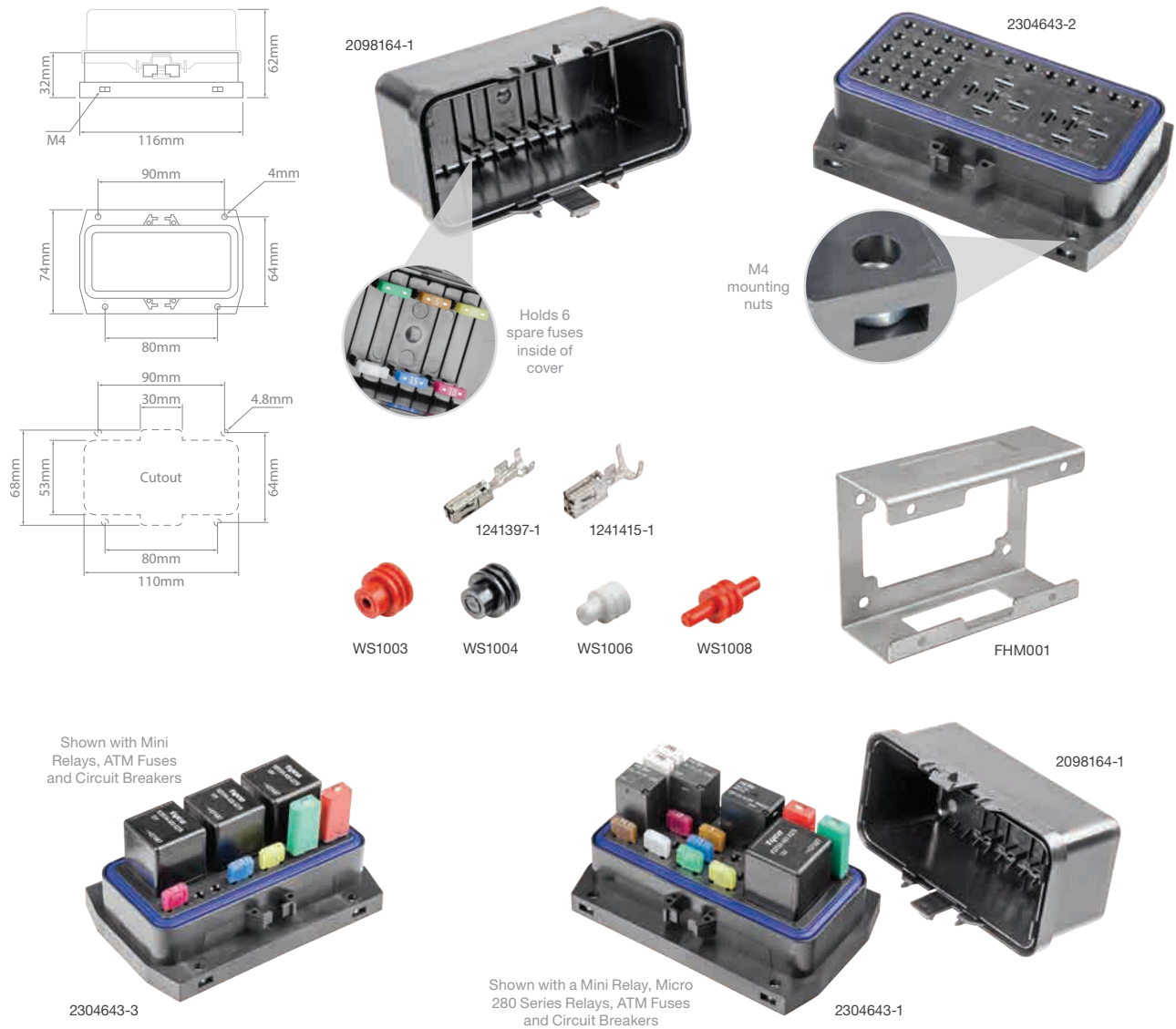
- Kits supplied with all required components including contacts, seals, mount, cover and housing.
- Available from 4 to 60 cavity configurations, 2.8mm & 6.3mm blade sizes.
- Ideal for conveniently and securely networking multiple fuses, relays and circuit breakers.
- Multiple Contact Point (MCP) contacts 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

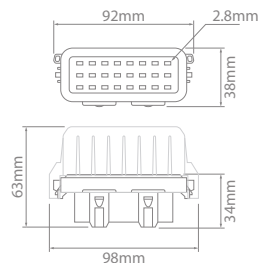


24 x 2.8mm cavities



Holds 4 spare fuses inside of cover

2318957-2

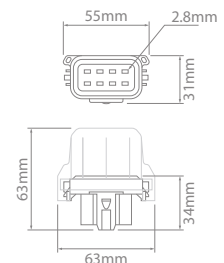


Shown with a Micro 280 Series Relay, ATM Fuse and Circuit Breaker



2319023-1

8 x 2.8mm cavities

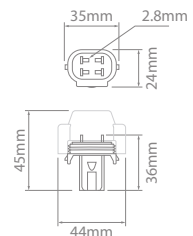


Shown with ATM Fuses

2066046-2



4 x 2.8mm cavities



1011-026-0205



1241397-1



WS1007



WS1008

Fuse & Relay Enclosure Kits – 2.8mm Cavities NEW

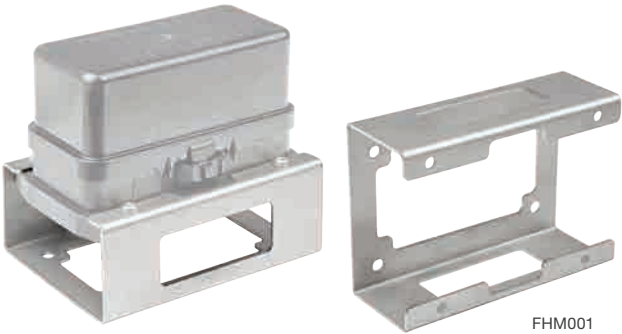
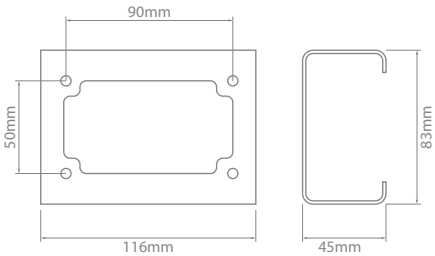
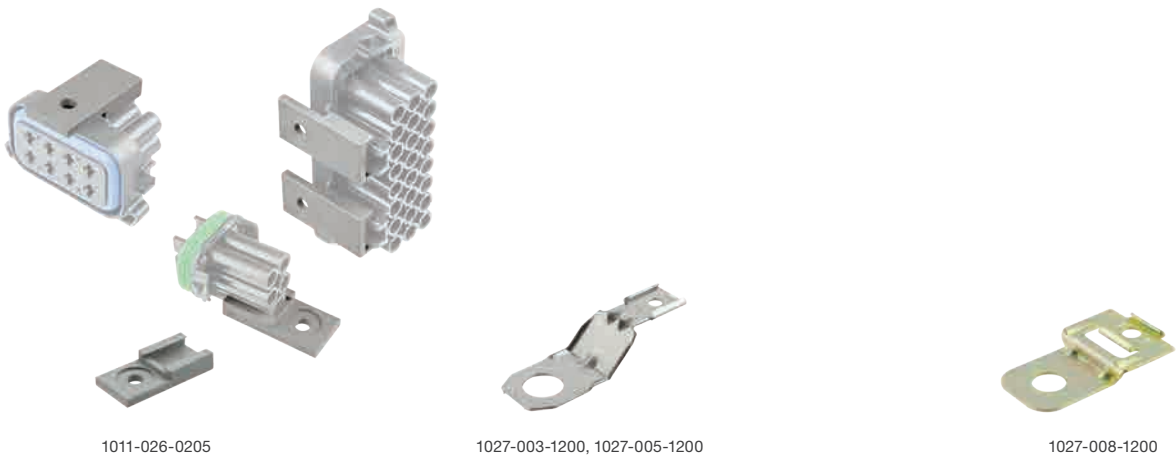
Part No.	Cavities		Kit Contents	
FH305	24 x 2.8mm		1 x Housing (2318967-1) 1 x Cover (2318957-2) 24 x Seals (WS1007)	6 x Cavity Plugs (WS1008) 24 x Contacts (1241397-1) 2 x Mounts (1011-026-0205)
FH306	8 x 2.8mm		1 x Housing (2319023-1) 1 x Cover (2319021-2) 8 x Seals (WS1007)	2 x Cavity Plugs (WS1008)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

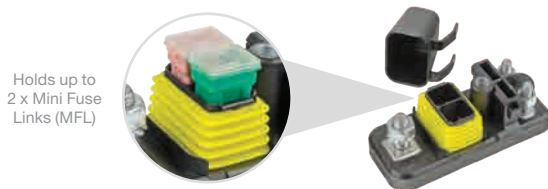
Modular MFL Fuse Holder

- 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)

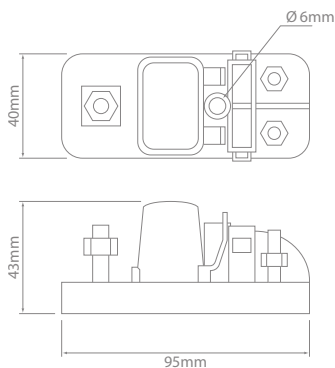
Seats 2 x
MFL Fuse
Links



Multiple units can be
connected together
using a busbar



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



FH08

FH09

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 :

Cover :

Body :

Seal :

Contacts :

Bracket :

Ingress Protection :

Operating Temperature :

120A

Polycarbonate

Thermoplastic

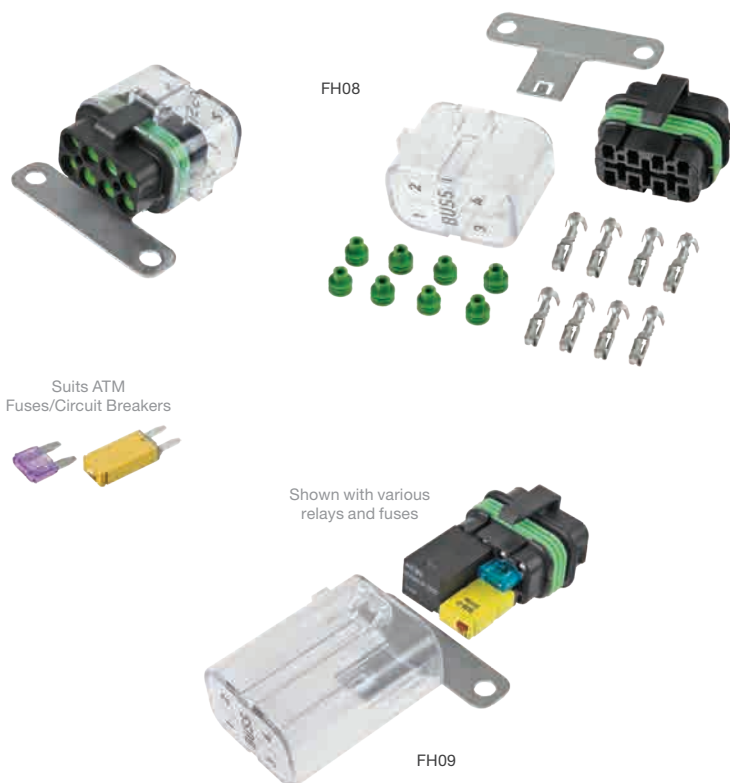
Silicone Rubber

Tinned Brass

Zinc-plated Steel

IP66

-40°C to 125°C

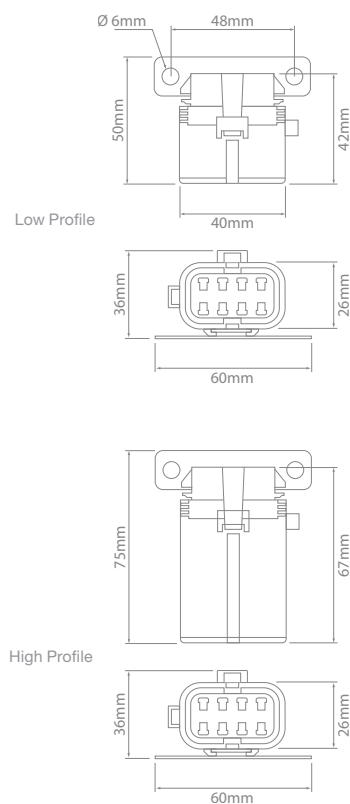


FH08

FH09

Suits ATM
Fuses/Circuit Breakers

Shown with various
relays and fuses



Mini Electrical Centre – Kits

Part No.	Cover	Cavities
FH08	Low Profile	8 x 2.8mm
FH09	High Profile	8 x 2.8mm

Kit contents:
 1 x Mini Electrical Centre Body
 1 x Mini Electrical Centre Cover
 1 x Mounting Bracket
 8 x Socket 0.8–1mm² (P-12077411)
 8 x Seals 0.8–1mm² (P-15324982)

Fuses & Fuse Holders



P-12077411/100



P-12129493/100

Mini Electrical Centres – Contacts

Pack Qty – 100	Type (2.8mm)	Wire Size (mm²)	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

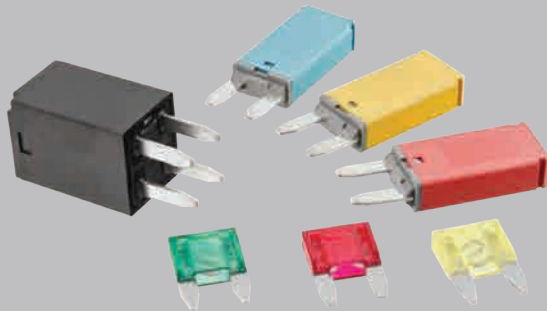
Mini Electrical Centres – Seals & Cavity Plugs

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



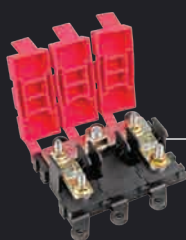
Bolt-in Fuses **120**



T-Class Fuses **122**



Bolt-in Fuse Holders **123**



Modular AMI Fuse Holder **126**

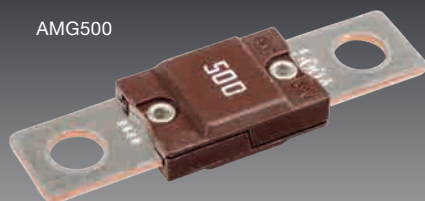


Power Distribution Units **127**



Marine Rated Battery Fuses **132**

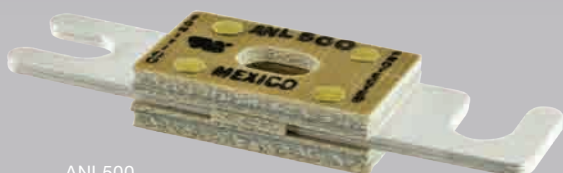
Bolt-in Fuses & Holders



AMG500



AMI80



ANL500

- 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



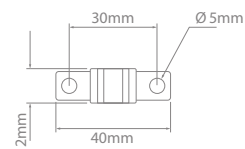
AMI100



AMI00

Bussmann®

Made in North America



AMI Series

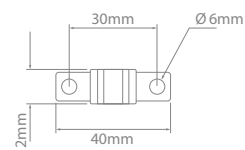
20A Black AMI20	30A Orange AMI30	40A Green AMI40	50A Red AMI50	60A Yellow AMI60	70A Brown AMI70
80A White AMI80	100A Blue AMI100	125A Pink AMI125	150A Grey AMI150	175A Beige AMI175	200A Purple AMI200



ANS30



ANS100

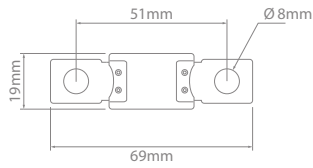


ANS Series



30A ANS30	40A ANS40	50A ANS50	60A ANS60	70A ANS70	80A ANS80	100A ANS100	125A ANS125
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Bolt-in Fuses & Holders



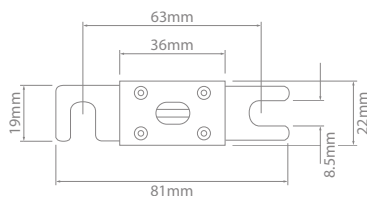
Bussmann®

Made in North America



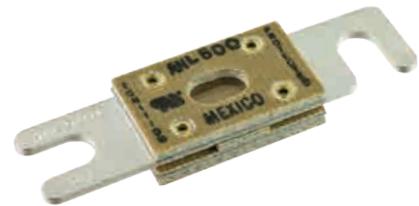
AMG Series

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



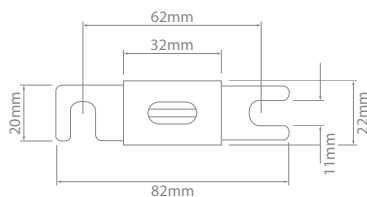
Bussmann®

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
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Bolt-in Fuses & Holders



- 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.

Made in North America



Approvals :

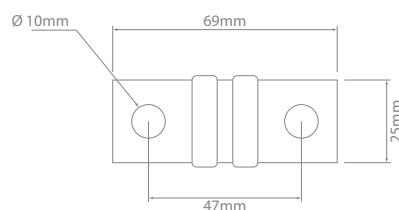
CE, CSA, UL, RoHS

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 inverter/chargers.



T-Class Fuses

225A
JJN225

250A
JJN250

300A
JJN300

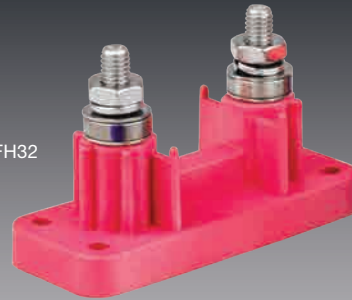
350A
JJN350

400A
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.

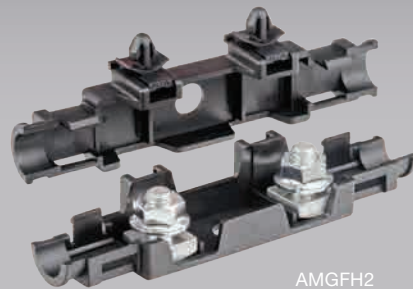
FH32



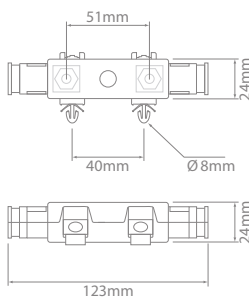
AMIFH



AMGFH2



Bolt-in Fuse Holders



Seats 1 x AMG Fuses



Fuse inspection windows



Shown with fuse



Made in Europe

Bolt-in Fuse Holders – Inline/Panel Mount

Part No.

AMGFH2

Seats

1 x AMG Fuse



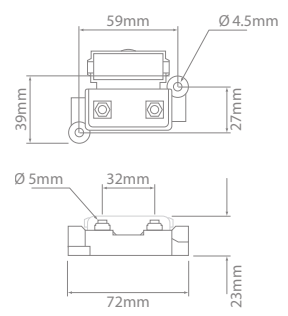
Bolt-in Fuses & Holders

Made in Europe

AMIFH

Shown with fuse

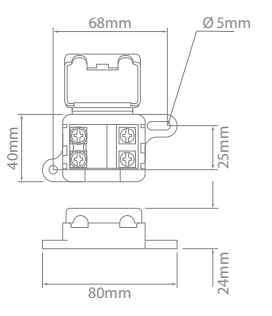
Seats 1 x AMI/ANS Fuses

AMIFH-DUAL

Shown with fuses

Seats 2 x AMI/ANS Fuses

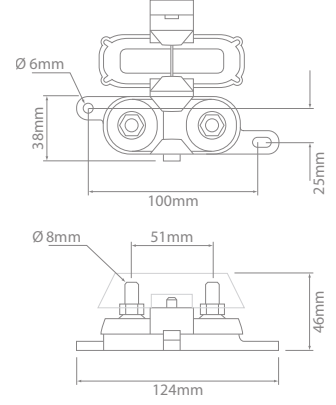



Made in North America

AMGFH1

Shown with fuse

Seats 1 x AMG Fuse

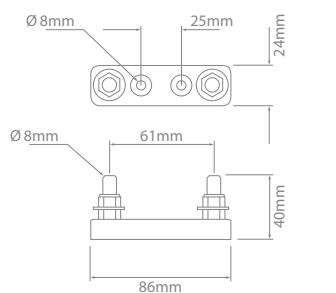



Made in North America

ANLFH1

Shown with fuse

Seats 1 x ANL Fuse

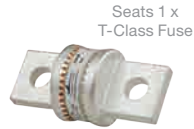
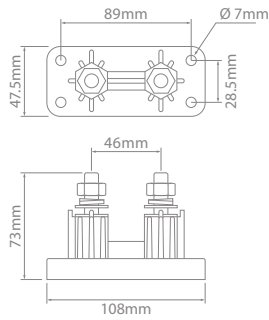



Bolt-in Fuse Holders – Surface Mount

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

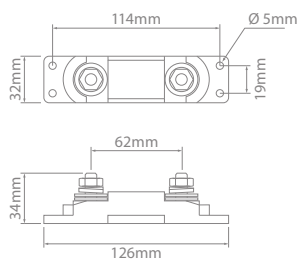
AMIFH & AMIFH-DUAL are not Bussmann products.

Bolt-in Fuses & Holders



FH30

Made in North America

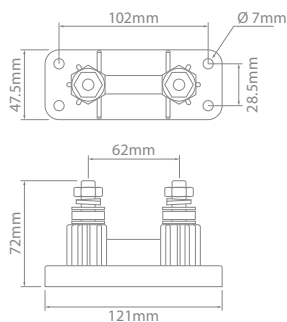


Stainless steel hardware on all models.
Brass washers on FH31 & FH33



FH31

Made in North America

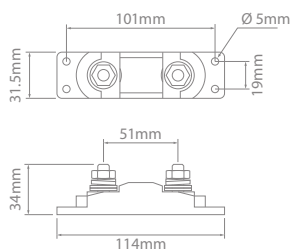


Seats 1 x ANL (Ceramic only) Fuse

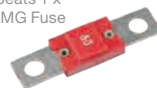


FH32

Made in North America



Seats 1 x AMG Fuse



FH33

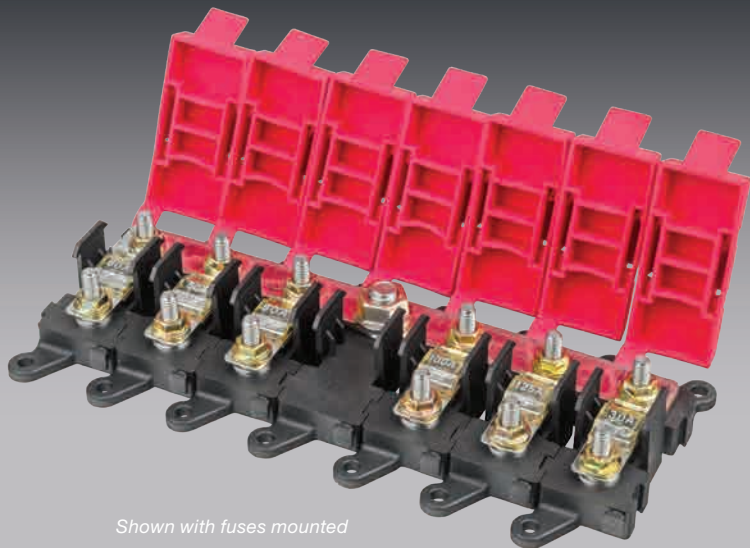
Bolt-In Fuse Holders – FH Series

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

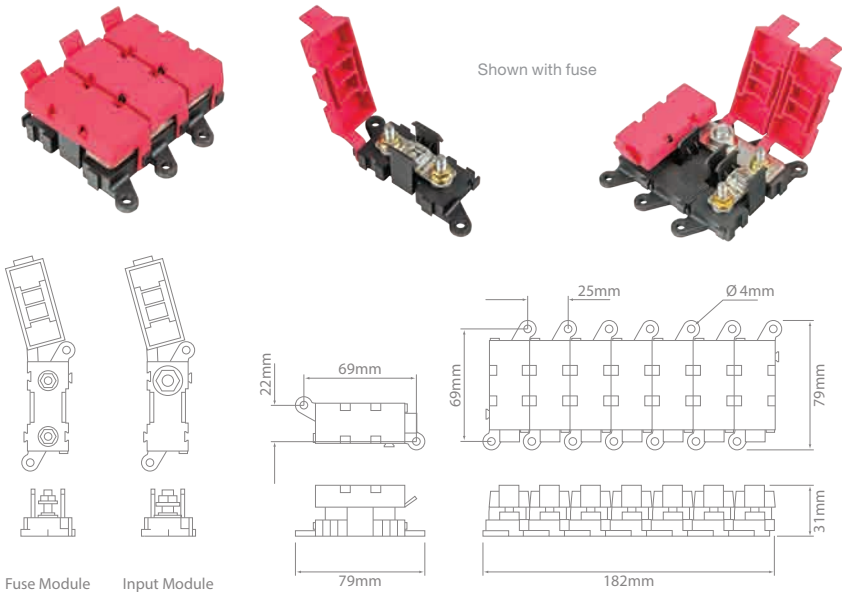


Shown with fuses mounted

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 Fuse Module
Max. Current Rating :	M8 Stainless Steel M5 Stainless Steel
Operating Temperature :	400A Continuous -40°C to 85°C



Custom Build Your Fuse Holder

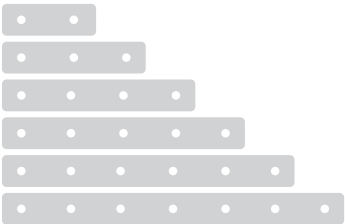
For bussed configurations, a maximum of 6 Fuse Modules, 1 Input Module & 1 Busbar is required, (7 modules in total).
E.g. for a bussed 5 fuse configuration the following is required:

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



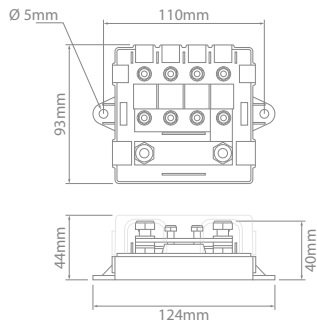
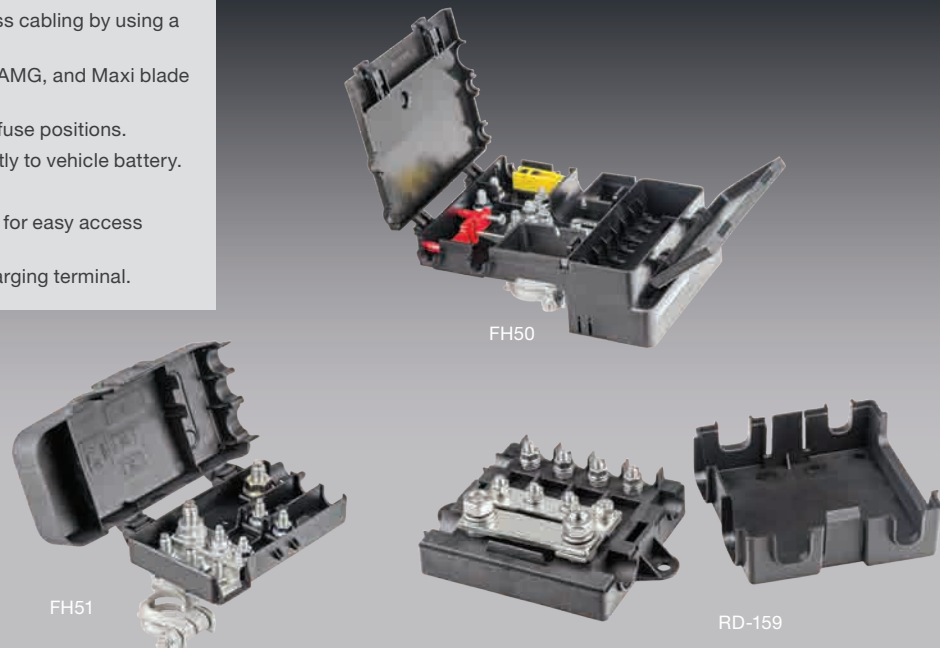
Modular AMI Fuse Holder

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

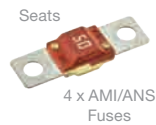
- Reduce clutter from excess cabling by using a power distribution unit.
- Models to suit AMI, ANS, AMG, and Maxi blade fuses/circuit breakers.
- Common feed powers all fuse positions.
- FH50 & FH51 mount directly to vehicle battery.
- Removable busbars.
- Hinged/removable covers for easy access to fuses.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



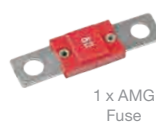
Made in Europe



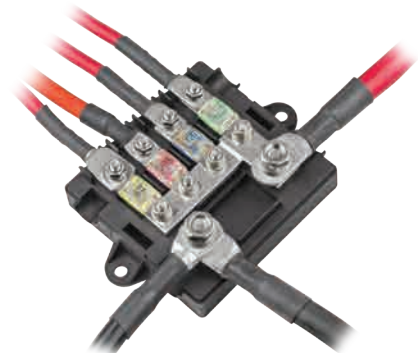
Tin plated copper busbars.
Stainless steel studs, nuts, washers



4 x AMI/ANS Fuses



1 x AMG Fuse

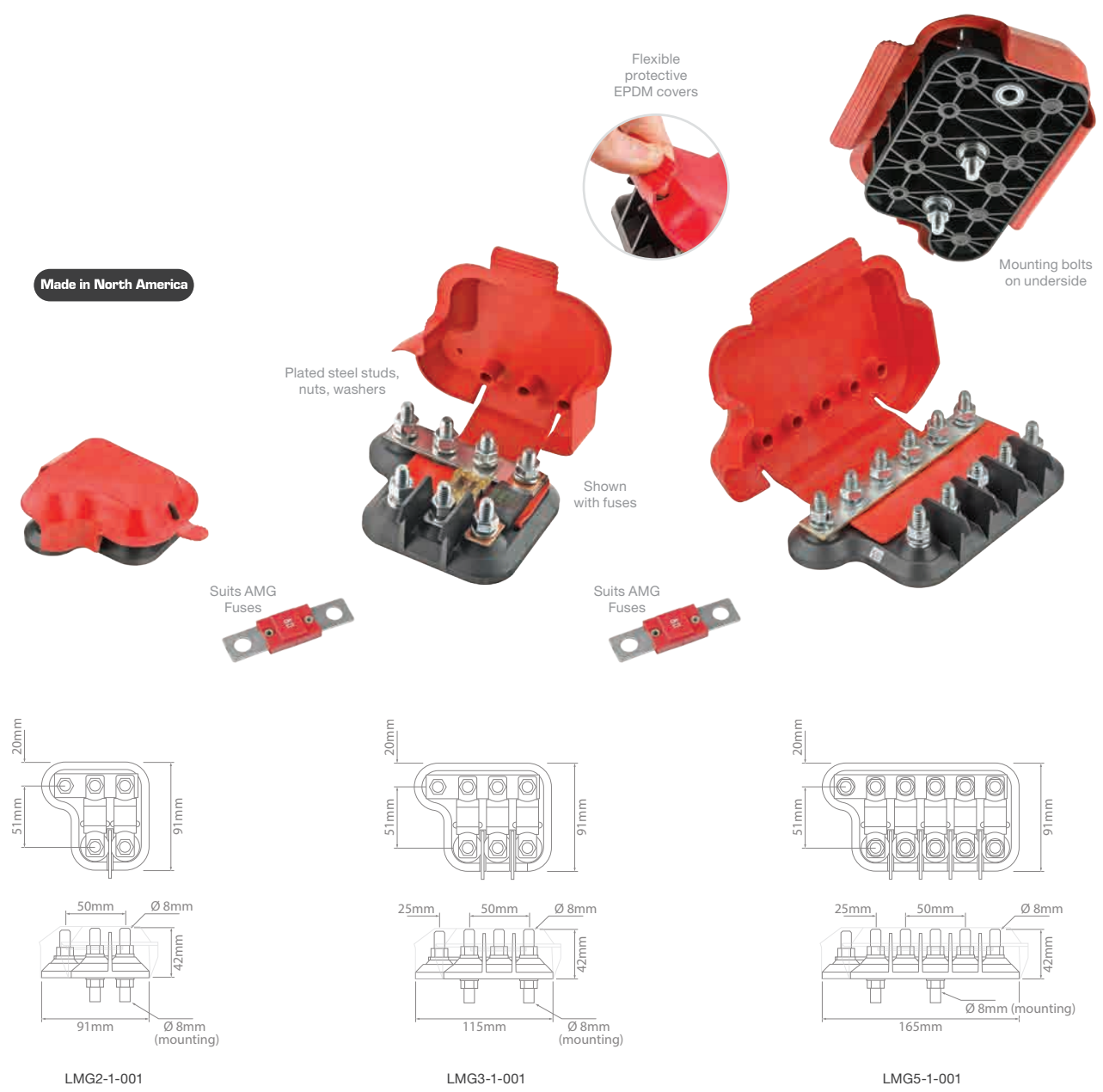


Power Distribution Units – Surface Mount

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



Power Distribution Units – Surface Mount cont.

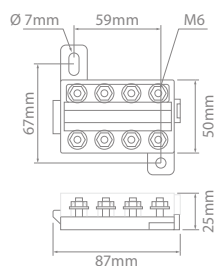
Part No.	Seats	Max. Total Input Rating (A)
LMG2-1-001	2 x AMG Fuses	300
LMG3-1-001	3 x AMG Fuses	300
LMG5-1-001	5 x AMG Fuses	300

Fuses not included.

Bolt-in Fuses & Holders



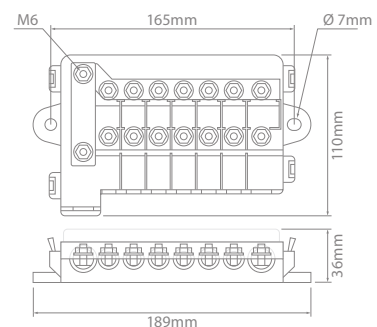
NEW



ANSFH-04



NEW



ANSFH-08

Power Distribution Units – Surface Mount cont.

NEW

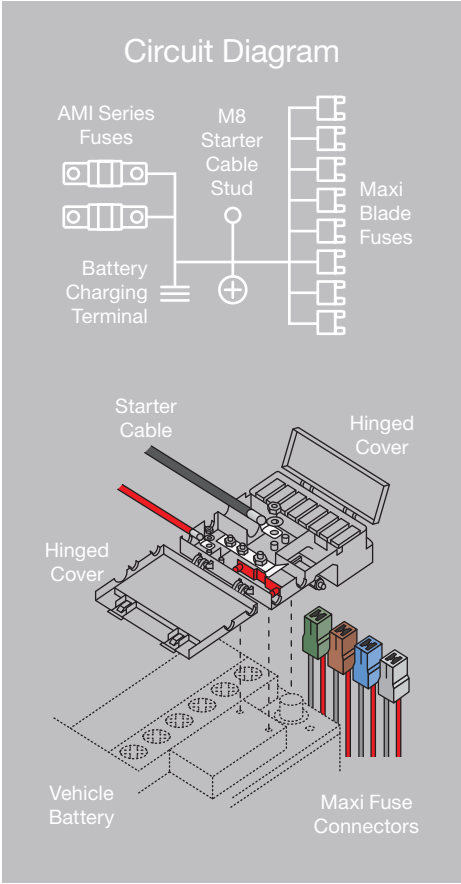
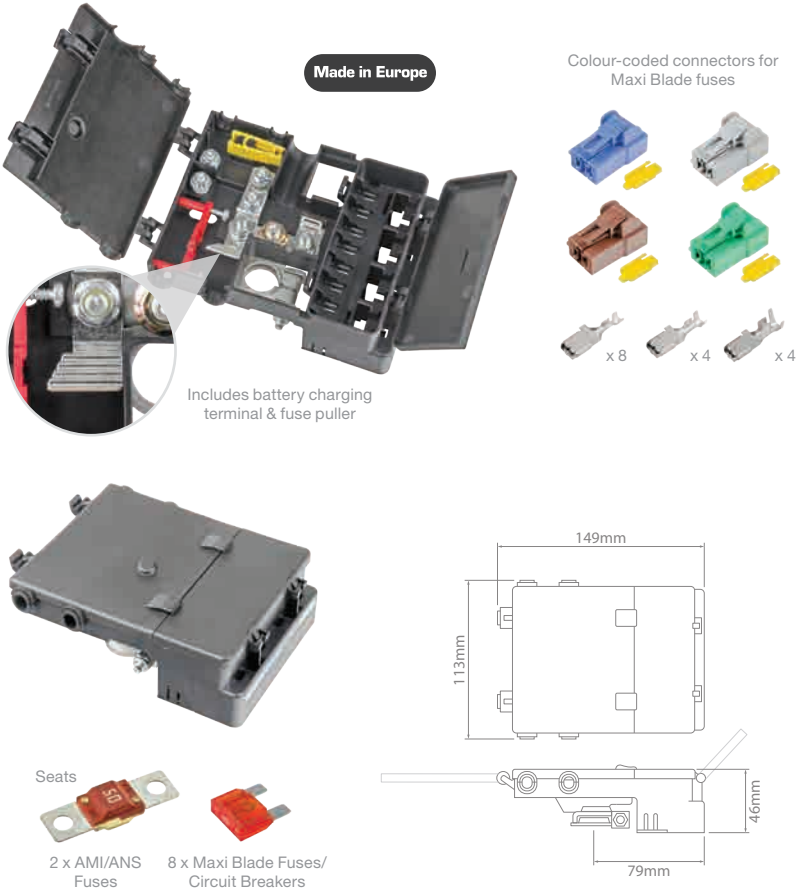
Part No.	Seats	Max. Total Input Rating (A)	Max. Output Rating Per Terminal (A)
ANSFH-04	4 x ANS Fuses	220	150
ANSFH-08	1 x AMG & 7 x ANS Fuses	500	150

Fuses not included.

Not Bussmann products.



Bolt-in Fuses & Holders



Power Distribution Units – Battery Mount – 10 Fuse

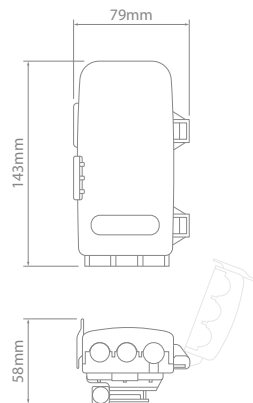
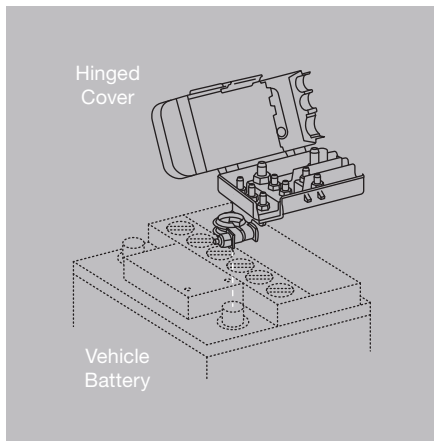
Part No.	Seats	Kit Contents:	
FH50	2 x AMI/ANS Series Bolt-in Fuses	1 x Power Distribution Unit (MT001)	1 x Connector Blue(MT201)
	8 x Maxi Blade Fuses	8 x Receptacle (MT401) 4 x Receptacle (MT402) 4 x Receptacle (MT403)	1 x Connector Grey (MT202) 1 x Connector Green (MT203) 1 x Connector Brown (MT204)



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. 1.5–2.5mm²	20
MT402/20	Receptacle – 8mm. 4–6mm²	20
MT403/20	Receptacle – 8mm. 8–10mm²	20

Bolt-in Fuses & Holders



Made in Europe



Seats



2 x AMI/ANS Fuses



1 x AMG Fuse

Power Distribution Units – Battery Mount – 3 Fuse

Part No.

Seats

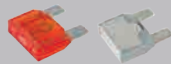
FH51

2 x AMI/ANS Fuses

1 x AMG Fuse

Fuses not included.

Maxi Blade Fuses/
Circuit Breakers



Page 95 & 90

AMI & ANS Fuses



Page 120

AMG Fuses



Page 121



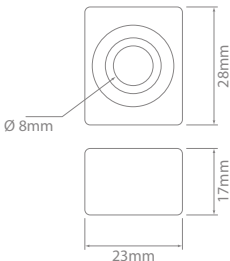
Bolt-in Fuses & Holders



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.

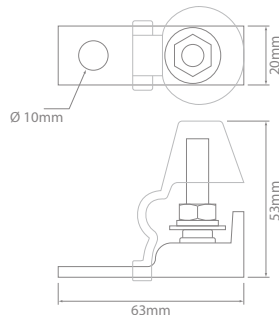
Max. Voltage Rating : 58V
Interrupt Rating : 10,000A @ 14V
Body : Ceramic
Housing & Cover : UL-Rated 94V0 Thermoplastic
Ingress Protection : IP66
Approvals : ISO 8820-6



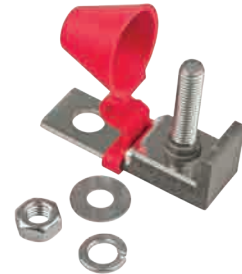
Marine Rated Battery Fuses

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	

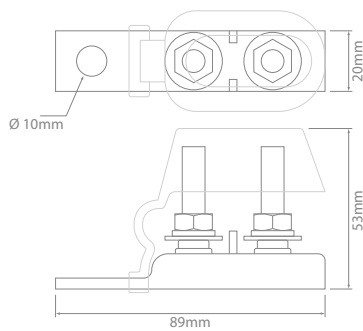
Bolt-in Fuses & Holders



Shown
with fuse



MRBF-FH1



Shown
with fuses



MRBF-FH2

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



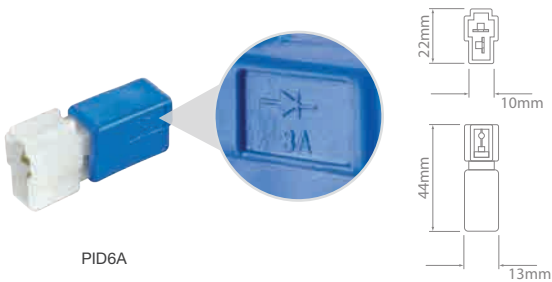
PID6A



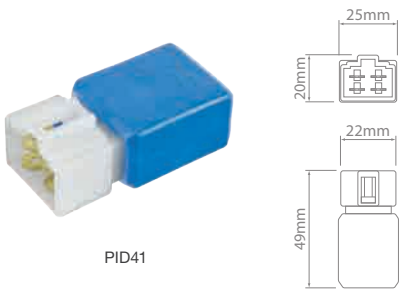
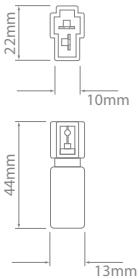
PID42

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

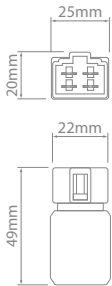
Housing : Thermoplastic Polymer
Connector : Polyamide
Terminal Size : 6.3mm
Max. Average Rectified Current : 3A
Operating Temperature : -65°C to 150°C



PID6A

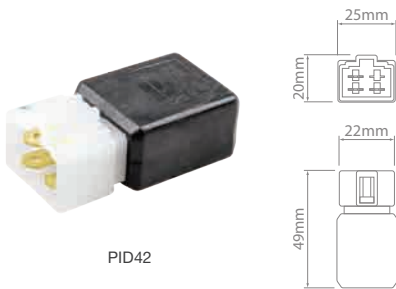


PID41

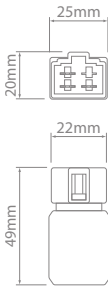


TE DEUTSCH Diodes & Resistors

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.

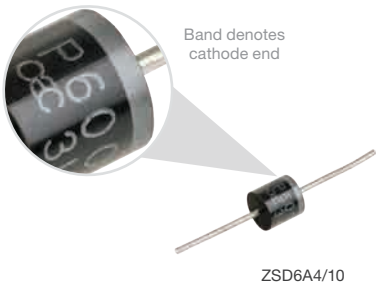


CM3504



ZSD6A4/10

Housing : CM3504 Polymer Metal, electrically isolated



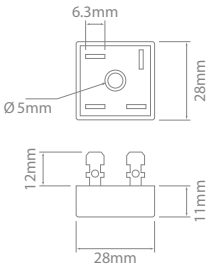
ZSD6A4/10



IN4004/10



IN5408/10



CM3504



Epoxy filled, metal heatsink housing

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



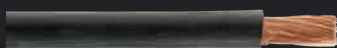
Thin Wall Cable 140



Single Cable 146



Tinned 150



Battery Cable 152



Sheathed 155



Specialty 157

Cable



TW050-BRN-500

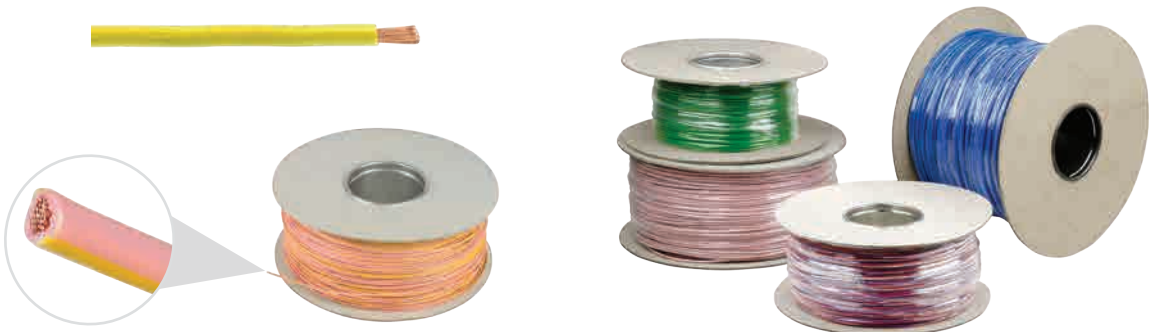
TW200-WHT/RED-500



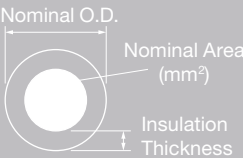
Made in Europe

- 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.

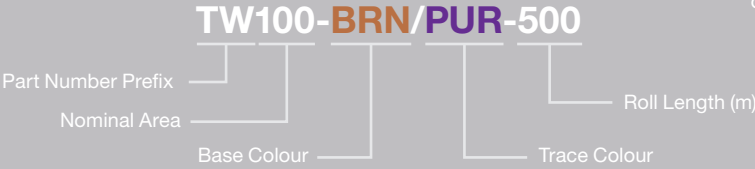
Conductor : Annealed Electrolytic Copper
Insulation : Lead Free PVC
Max. Voltage : 600V
Approvals : DIN72551, ISO 6772-4
Operating Temperature : -40°C to 105°C



	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



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.

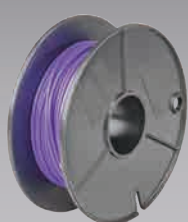


Cable

Single Cable



T1-6-RED-100



T1-3-PUR-30



T1-4-BLU/YEL-100



T1-3-YEL/GRN-100

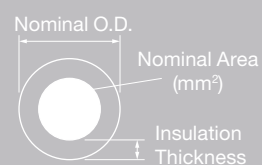


- RoHS Compliant.
- UV Stabilised V90HT PVC insulation.
- Oxygen free, high conductivity copper.
- Wide range of colours, sizes and lengths.
- Made in Australia.

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

Part Number Prefix — T1
 Industry Equivalent mm — 4
 Base Colour — GRN
 Trace Colour — RED
 Roll Length (m) — 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
	100m	—	—
 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



- 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.



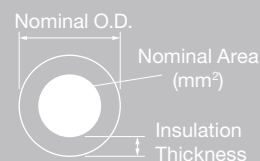
TC-1-ONG-100

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

Part Number Prefix ——— Roll Length (m)
Nominal Area ——— Colour



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

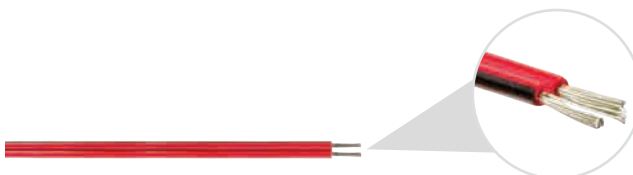
* Industry term for identifying cable size not conductor size (Nominal Area).



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).



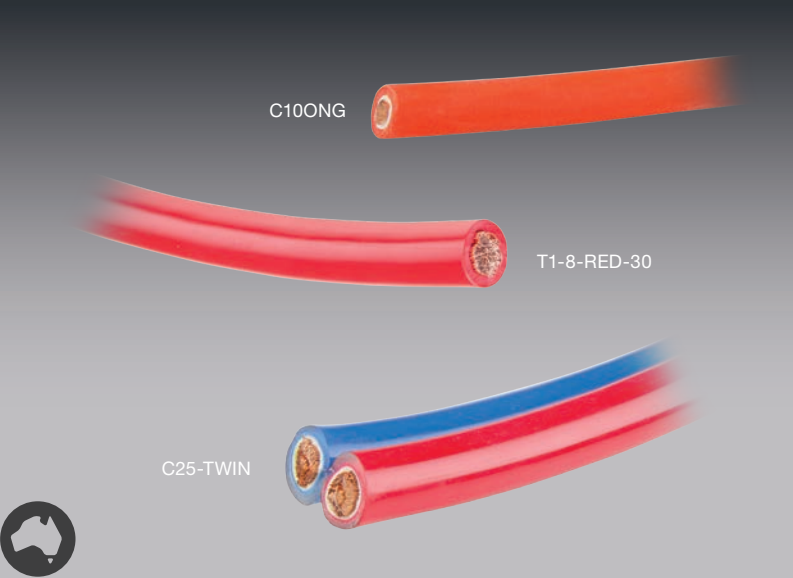
Twin Core Figure 8 Cable – Tinned

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



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



Conductor :
Insulation :
Approvals :

Annealed Electrolytic Copper
UV Stabilised V90HT PVC
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 	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 NEW	Red/Black	10	30	7.72	8 x 13.2	96 / 0.32
T1-172-30 NEW	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).



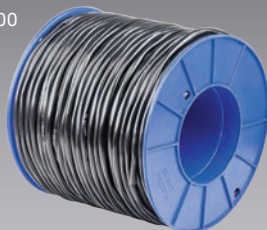
Single Cable – Sheathed (GAS)

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

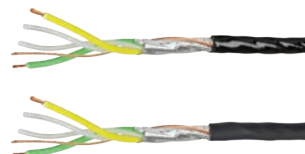


Cable

103349,
103349-302



Made in North America



103349B

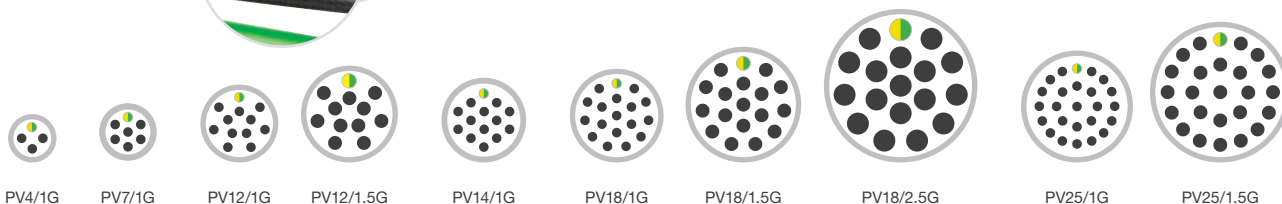
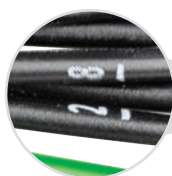
103349R

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.

Each black core individually numbered



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.

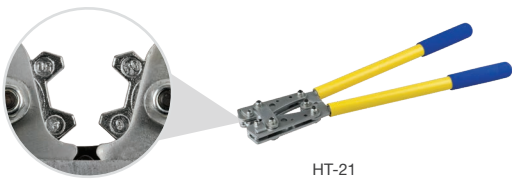
All tools in set are premium quality – made in the USA.



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 (mm²)
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



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





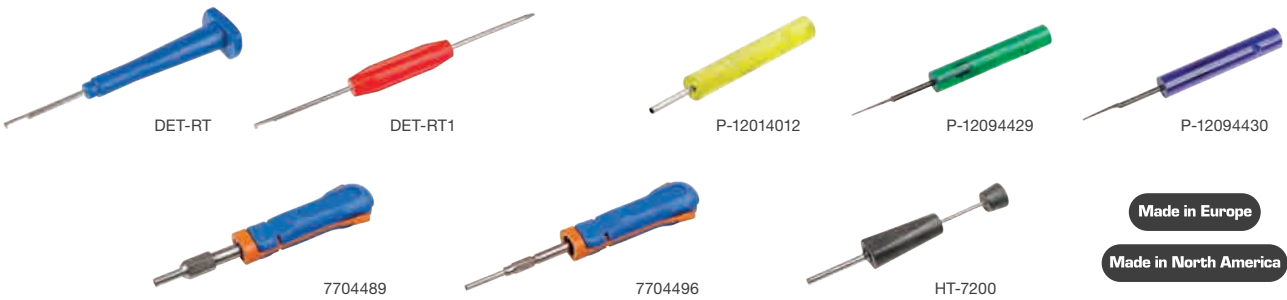
- Removes contact from connector without damage to the wire, insulation, connector seals, or connector body.
- Simplifies contact removal and field service.
- Compact and easy to use.

Made in North America



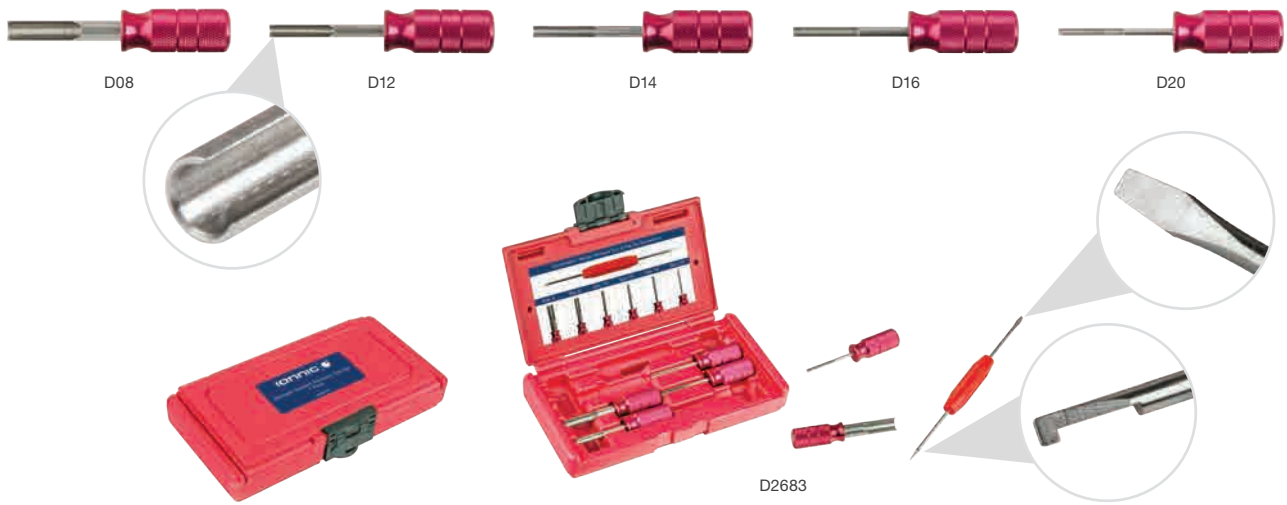
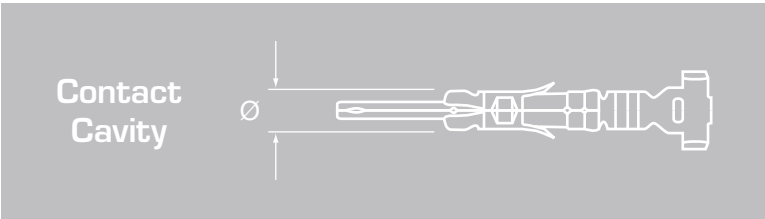
Contact Removal Tools – TE DEUTSCH

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)	



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

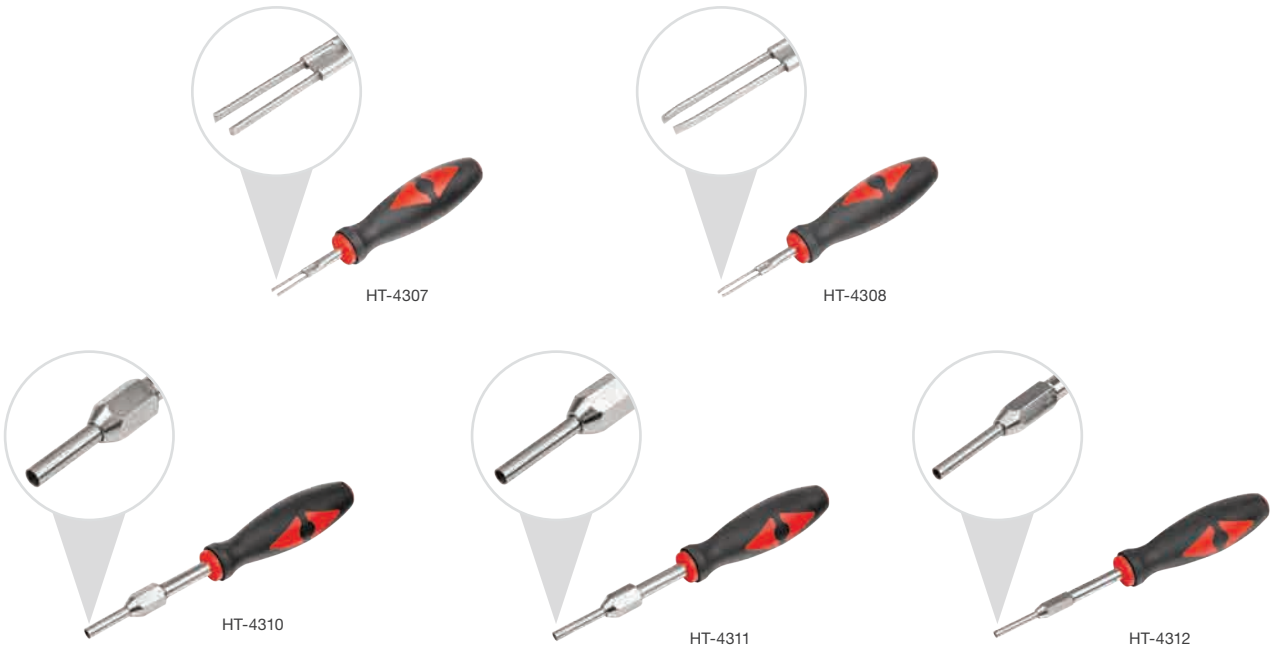


Contact Removal Tools – Heavy-duty

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			

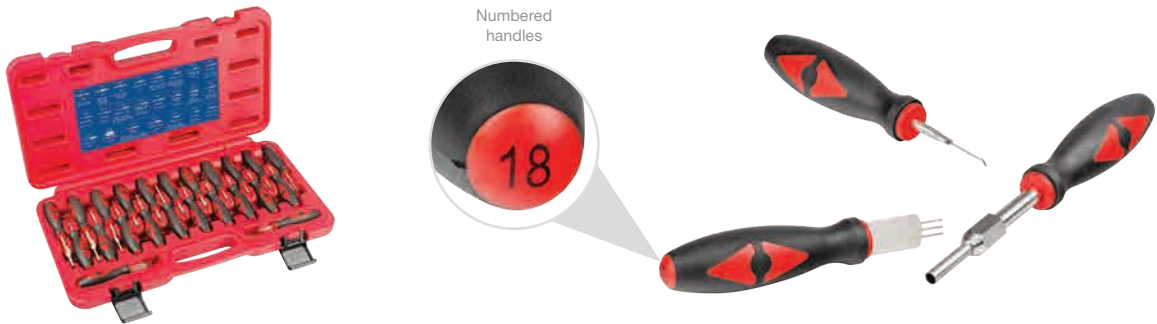


Tools



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



Solder

Part No.	Ø (mm)	Weight (g)	Description
SOLDERRC0.7	0.7	500	Resin core
SOLDERRC1.6	1.6	500	Resin core
SOLDERRC2.3	2.3	500	Resin core
SOLDERRC3.2	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

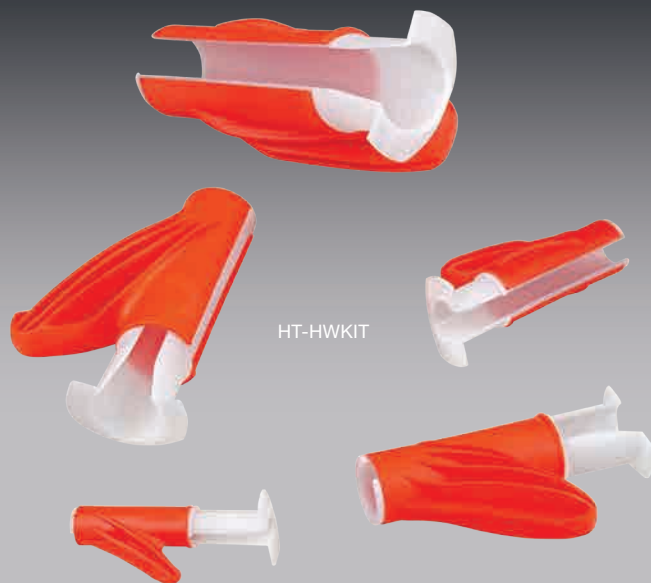
Part No.		Description
HT-10		Cable cutter – Up to 35mm ²
HT-11		Cable cutter – Up to 70mm ²
HT-12		Cable cutter – Up to 300mm ²
HT-14		Side cutters – Knipex – 250mm
HT-15		Side cutters – Knipex – 180mm
HT-16		Side cutters – 115mm
HT-30		Wire stripper/cutter
HT-31		Wire stripper/cutter – heavy-duty
HT-34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



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

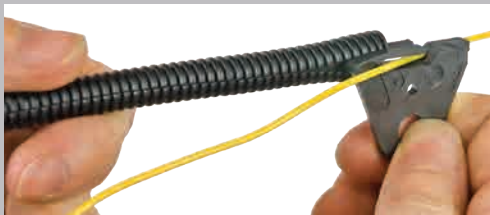
Cable Insertion Tools – Conduit

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



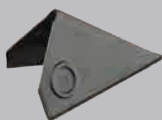
Single Cable
Insertion Tool



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



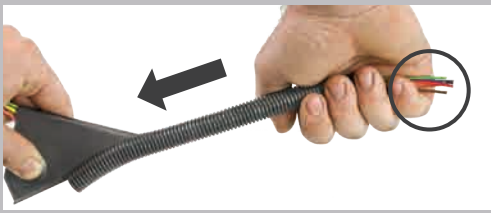
While holding end of conduit with cable, pull the insertion tool down the length of conduit.



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



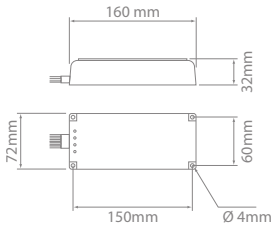
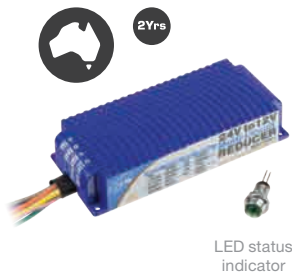
ED-DC1224-10



- 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 :

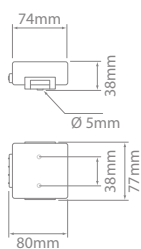
ED Series, P502 Series
ED Series
C-Tick
CE
RoHS



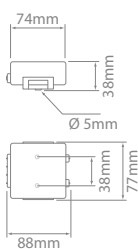
Voltage Converters – Multi Circuit

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.

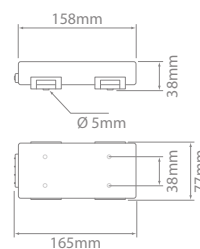


P5027



P5027M

Features
radio
memory
function



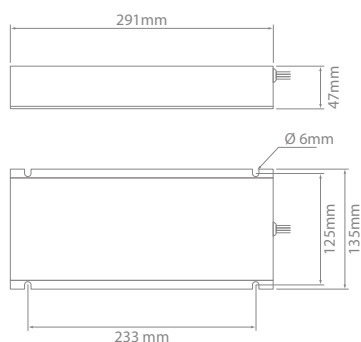
P5028



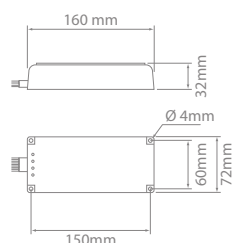
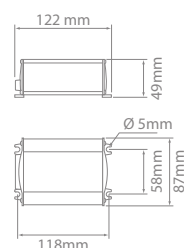
2Yrs



VR4



ED-DC2412-20



2Yrs



REC2412-30NG

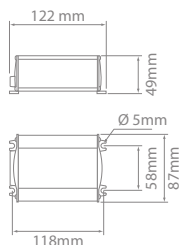
LED status
indicator

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).





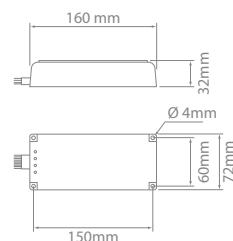
ED-DC1224-10



2Yrs



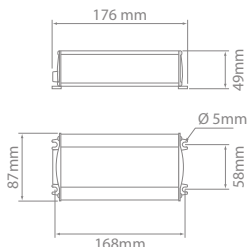
LED status indicator



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

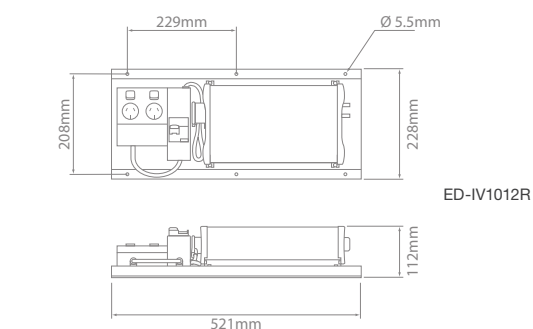
- AS/NZ 4763-2011 approved portable inverter.
- Pure sine wave output.
- RCD switch with M.E.N. for improved workplace safety.
- High surge capacity.
- Transient, short circuit, over-voltage & over temperature protected.
- Audio alarm & warning/error codes for easy diagnosis.
- Remote switch panel included.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



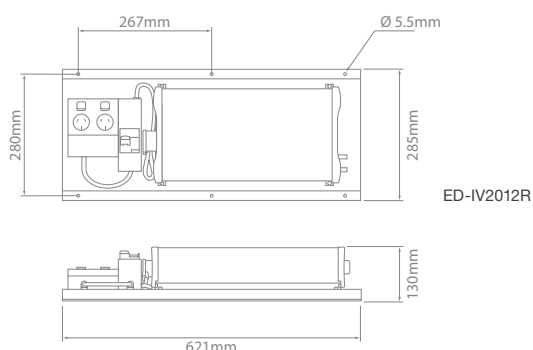
ED-IV1012R



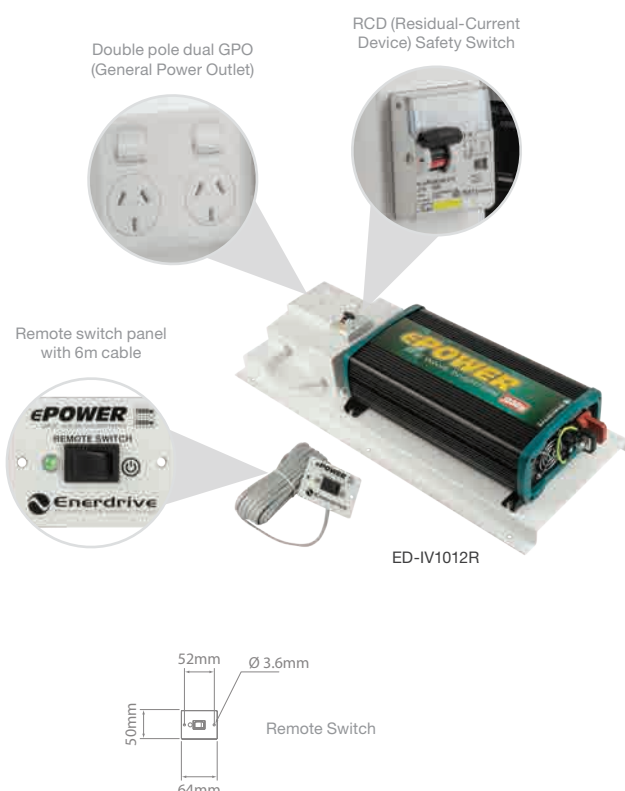
Input Voltage : 10.5–15.5VDC
 AC Output : 230VAC 50Hz
 General Power Outlet : 2
 Cable Length : Remote Panel 6m
 Approvals : CE, C-Tick & 'e' marked
 Operating Temperature : 0°C to 40°C



ED-IV1012R



ED-IV2012R



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



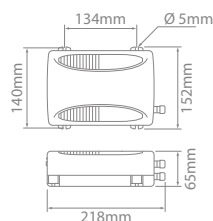
ED-IV4012



- 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



ED-IV4012

Australian
GPO



5V USB
charging port
(5V 750mA)

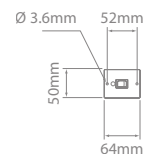


ED-IV2012

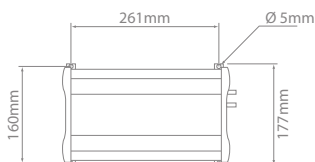


5Yrs

Remote switch
panel with 6m cable



Remote Switch Panel



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

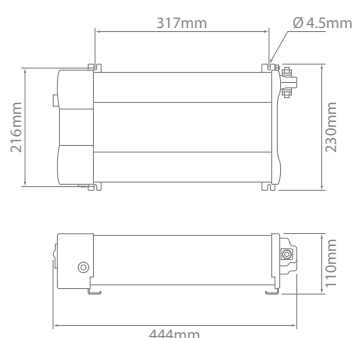


Fig 1

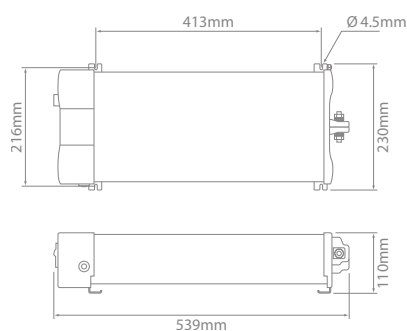


Fig 2

Pure Sine Wave Inverters – LCD Panel

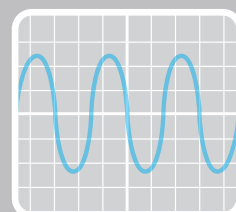
Part No.	Input Voltage	Output Power (W)	Output Current (A)	GPOs	Weight (kg)	Fig
ED-IV2012X	12	2000	8.7	1	5.5	1
ED-IV2024X	24	2000	8.7	1	5.5	1
ED-IV2612X 	12	2600	11.3	1	7	2

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

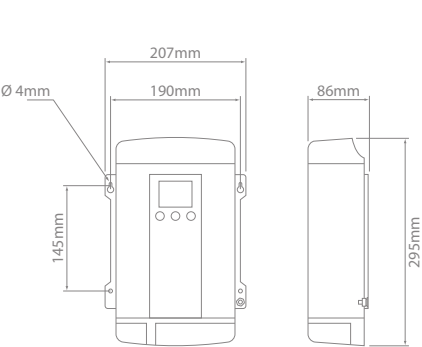


Fig 1

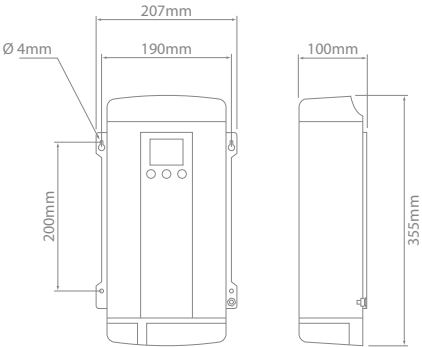


Fig 2

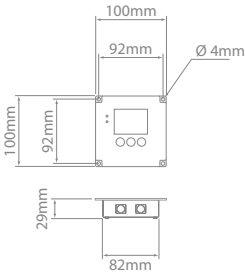


Fig 3

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.

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



ED-DCBC4012



VDBC1224-20

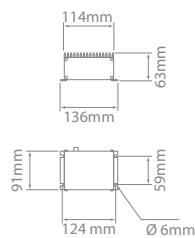
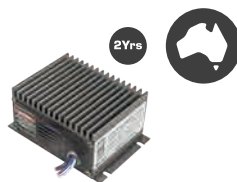


Fig 1

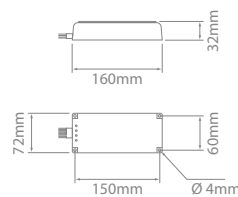


Fig 2

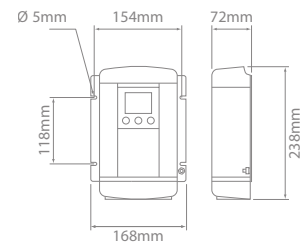


Fig 3

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.



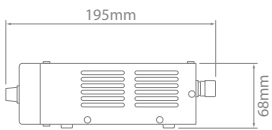
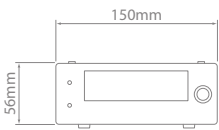


- Adjustable output voltage.
- Light & portable.
- Internal cooling.
- LED status indicators.
- Transient, short circuit, over voltage & over temperature protected.



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

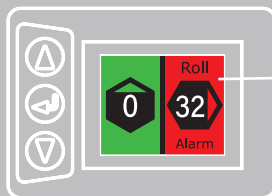
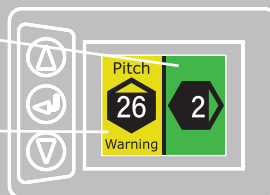


Pitch & Roll

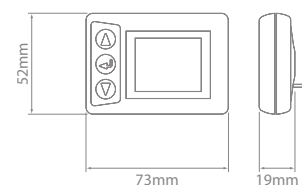
Digital inclinometer incorporates a 3 stage visual and audible warning for a vehicle's pitch and roll, each warning stage can be user configured.

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.





Made in Europe

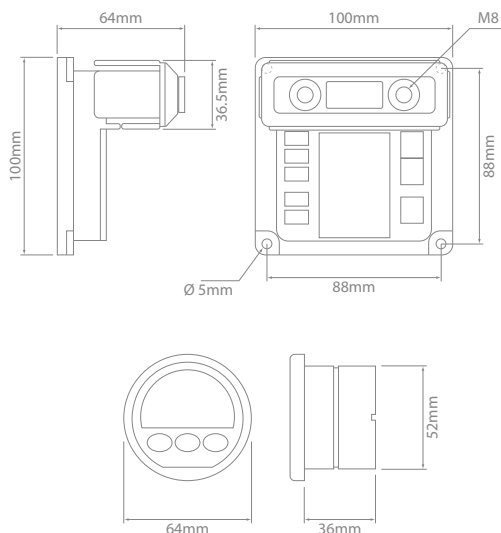
5Yrs

7V
70V



- Complete battery status information at a glance (% , V , A , Ah , W , h:m , °C).
- Supports up to three battery banks (12V, 24V and 48V).
- Very simple 'Plug and Play' installation.
- Programmable alarm contact.
- All wiring included (excluding battery cables).
- Compatible with lead based and lithium batteries (LiFePO4).
- The inputs for battery bank 2 and 3 can also be configured for other purposes – keyswitch input, mid-point voltage measurement, setup lock or backlight control.
- Measure DC currents up to 600A (500A continuous) and voltages up to 70VDC.
- 5-year warranty.
- Made in Europe.

Supply Voltage :		7-70VDC
Input Voltage :	Main Battery	7-70VDC
	Auxiliary Battery(s)	1-70VDC
Current :		10mA @ 12V
Battery Capacity :		10-10,000Ah
Approvals :		CE
Operating Temperature :		-20°C to 50°C



Battery Monitor Plus Kit

Part No.

ED-EN55050

Kit contents:

- 1 x Control & Display Unit (CDU)
- 1 x Intelligent Shunt Module
- 1 x Fused supply cable
- 1 x Shunt to CDU cable

- 6 x Rubber port blanks
- 1 x User manual
- 1 x Installation guide

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.

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

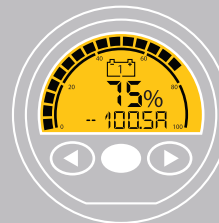
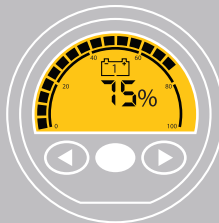


Compact round Control & Display Unit with splash proof front panel, large backlit display and only 36mm installation depth.

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.

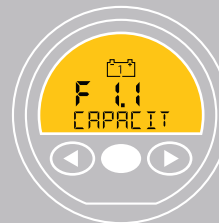
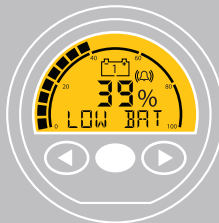
Normal operating mode (second parameter row disabled).



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.

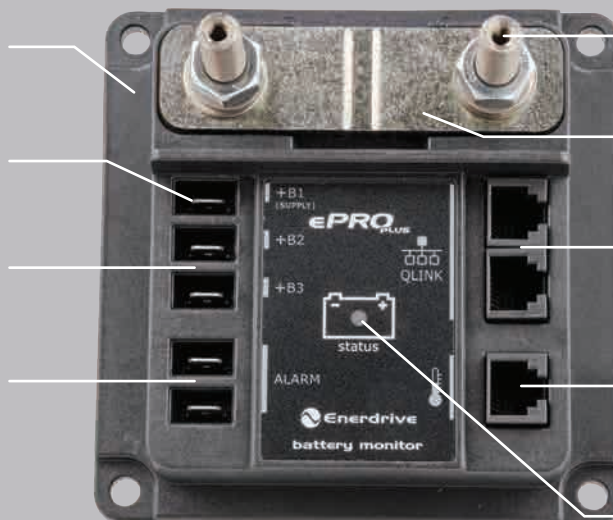
Intelligent Shunt Module

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.

Made in North America

10V
80V

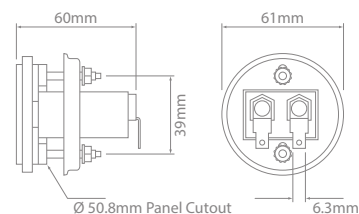
RoHS

CE

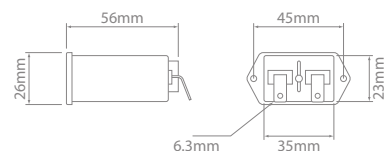
Voltage :	10–80V
Current Draw :	0.16A
Shock :	55G
Vibration :	20G max. rms 10 – 80Hz
Case :	Black Polymer
Wire Length :	390mm
Type :	Electromechanical
Accuracy :	+/- 0.02%
Approvals :	CE, RoHS
Operating Temperature :	-40°C to 85°C



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.



RBC-24



EBC-24

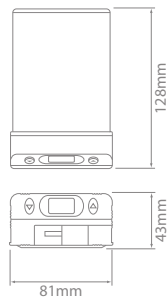
2Yrs

Axles :

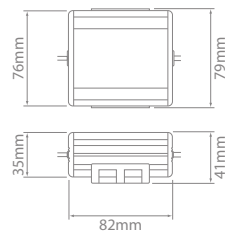
Approvals :

RBC Series

2
C-Tick



EBC-12,
EBC-24



RBC-24



Brake Controllers

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



Bulbos

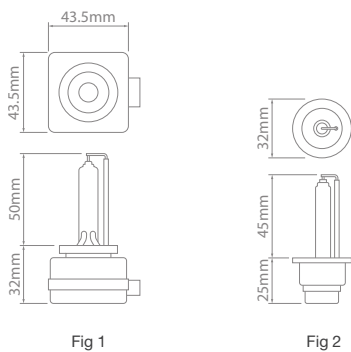




Bulbs



- 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.



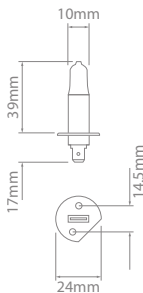
HID

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

Halogen – H1

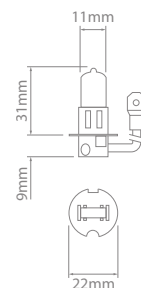
Part No.	Voltage	Watt	Base	Description
64150	12	55	P14.5s	Original Line
64150NBUDUO*	12	55	P14.5s	Night Breaker Unlimited
84150	12	55	P14.5s	Long Life
62200	12	100	P14.5s	Off Road – Rally
64155	24	70	P14.5s	Original Line
64155LTS	24	70	P14.5s	Truckstar
84155	24	70	P14.5s	Long Life

* 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

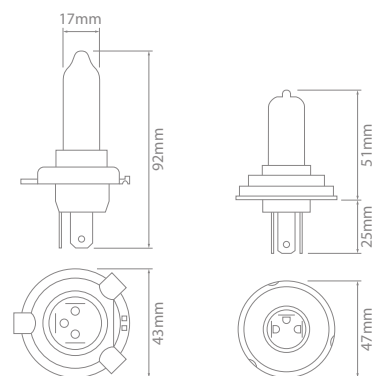
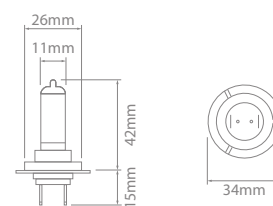


Fig 1

Fig 2

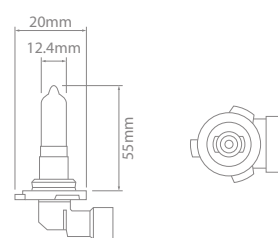
Halogen – H7

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

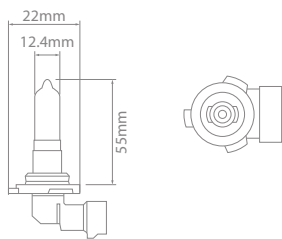


Halogen – HB3

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

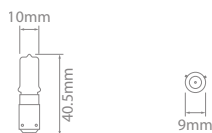


Bulbs



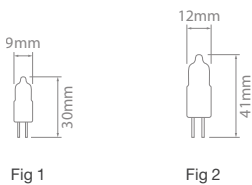
Halogen – HB5

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



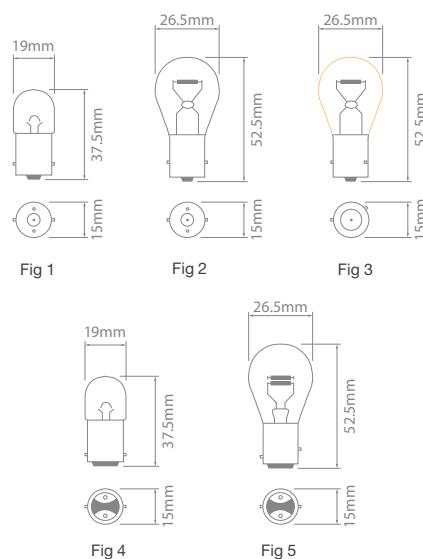
Halogen – Bi-Pin

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

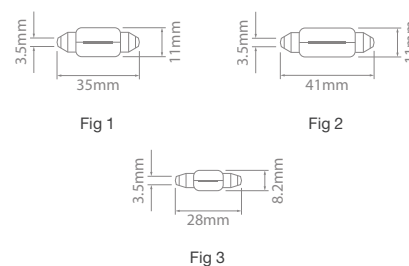
Part No.	Voltage	Watt	Base	Colour	Pack Qty	Fig
5007/10	12	5	BA15s		10	1
5008/10	12	10	BA15s		10	1
7506/10	12	21	BA15s		10	2
5627/10	24	5	BA15s		10	1
5637/10	24	10	BA15s		10	1
7511/10	24	21	BA15s		10	2
7507/10	12	21	BAU15s	Amber	10	3
9507/10*	24	21	BAU15s	Amber	10	3
2618/10	12	5	BA15d		10	4
7528/10	12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

* Truckstar



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



Incandescent – Miniature

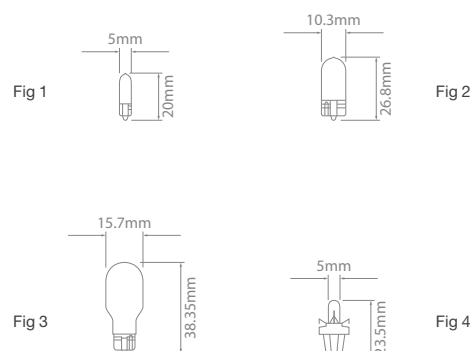
Part No.	Voltage	Watt	Base	Pack Qty	Fig
3796/10	12	2	BA9s	10	1
3797/10	24	2	BA9s	10	1
3894/10	12	3	BA9s	10	1
3893/10	12	4	BA9s	10	1
3930/10	24	4	BA9s	10	1



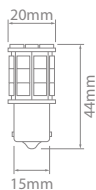
Incandescent – Wedge

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.

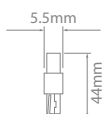


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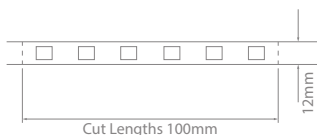
LED – Stop / Light / Indicator

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



IP67

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).

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