

AE
INDUSTRIES

YOUR INVISIBLE PARTNER

Consignment, VMI/CMI, Order Fulfillment and Product Management

AE INDUSTRIES B.V.

AE Industries is ISO 9001 certified since 1996 and ISO 14001 certified since 2026. With locations in Breda (the Netherlands) and Nupaky (Czech Republic), we operate as an internationally active trading company. We custom-pack your orders in cooperation with a sheltered workshop, and we proudly serve as a recognized learning company for more than 10 years.

AE Industries offers a complete product program for the automotive, agricultural, maritime, truck, DIY, and technical installation aftermarket sectors. In addition, we provide customer-specific solutions, including customized packaging and consignment stock arrangements.

Partner with us for a smarter and more efficient supply chain that delivers quality, convenience and reliability at every step. Our quality-focused approach ensures excellence throughout the entire communication and coordination process.

High Quality, High Standards

Quality management forms an essential part of our corporate policy. AE Industries places great value on the high quality of its products and services, as well as on the continuous improvement of internal and external processes.

Skilled people

The seamless integration of our wide range of services drives our business, and this requires specialist expertise. Our highly qualified staff supports you in achieving and maintaining a competitive advantage:

- Our Product Management team oversees product quality assurance (QA).
- Our Sales team listens carefully to your needs and provides tailored solutions.
- Our Logistics and Warehouse team ensures the right products are packed at the right time in the right packaging.
- Our Marketing and Graphics department advises on branded packaging and provides sales support materials.



Products, services and offers

We provide a dedicated, seamless and efficient supply solution tailored to your business needs. As your one-stop-shop supplier, we offer a comprehensive product range with high stock availability, enabling you to source everything from one reliable partner.

Our streamlined logistics simplify the entire process, from procurement to delivery, allowing you to focus on growing your business.

With our comprehensive warehouse management, we optimize inventory handling and order fulfillment to maximize the efficiency and reliability of your orders.

We pack your shipments carefully to ensure safe delivery to their final destination. Our packing experts understand the requirements of different cargo types, transportation modes and transit times. We take all necessary precautions to ensure that goods arrive undamaged.

You can order your complete product range in one shipment and benefit from customized packaging featuring your own brand name and part numbers. This strengthens your market presence, simplifies product identification, logistics and reduces the need for additional workforce and operational costs.

AE INDUSTRIES YOUR INVISIBLE PARTNER

Our products are manufactured in Europe and the Far East. Warehoused in Breda (the Netherlands) and Nupaky (Czech Republic) and delivered on short lead times. Special requests for private label and customer specific packaging are handled by our own packing facility. We lead the way in the industry by repacking our products into your packaging for a truly hassle-free logistics experience.

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Plugs & Sockets

Lighting

Battery

Hose Clamps

Screws, Bolts & Nuts

Wire & Cable

Bundling & Protection

EV Products

Insulated Terminals

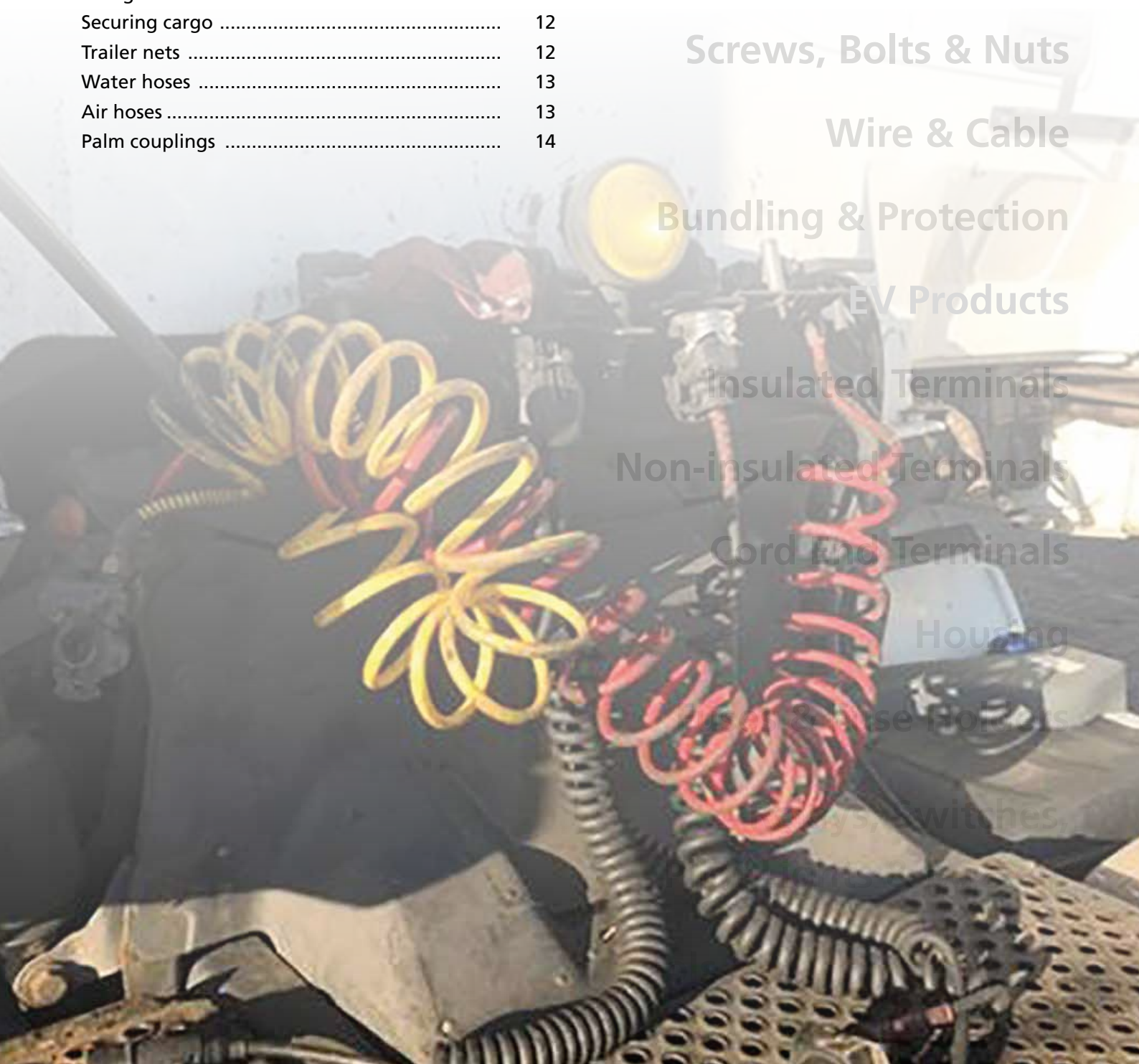
Non-insulated Terminals

Cord End Terminals

Housing

Splice Holders

Switches, relays



Coupling

Part nr.	Description	Size	Tow capacity	Approval
TP0013	M22 x 55 mm straight towball (not for public road), galvanised	50 mm	1500 kg	
TP0017	Dynamic load D17.2, vertical load S210, angled towball, galvanised	50 mm	3500 kg	ECE E8
TP0017-4	D17.2/S350, angled towball, black	50 mm	3500 kg	E-approved coupling
TP0017-2	Two-fold towball, galvanised	50 mm	3500 kg	ECE E8
TP0017-3	Two-fold towball, black	50 mm	3500 kg	ECE E11
TP0045	Square coupling towball, galvanised, with opening for cylinder lock	50 mm	750 kg	ECE E4
TP0022	Square coupling towball, galvanised, with opening for cylinder lock	60 mm	750 kg	ECE E4
TP0031	Square coupling towball, galvanised, with opening for cylinder lock	70 mm	750 kg	ECE E4
TP0046	Round coupling towball, galvanised, with opening for cylinder lock	50 mm	750 kg	ECE E4
TP0030	Round coupling towball, galvanised, with opening for cylinder lock	60 mm	750 kg	ECE E4
TP0023	Round coupling towball, galvanised, with opening for cylinder lock	70 mm	750 kg	ECE E4
TP0051	Round coupling towball, with adaptorset, galvanised	40/45/50 mm	2300 kg	ECE E4
TP0052	Round coupling towball (EM300A), galvanised	45/46 mm	3000 kg	ECE E1
TP0048	Round coupling towball (EM300B), galvanised	50/51 mm	3000 kg	ECE E1
TP0047	Square coupling towball	60 mm	1300 kg	ECE E4
TP0037	Universal round coupling towball, galvanised, with adaptor set	40/45/50 mm	3000 kg	ECE E4
TP0050	Universal round coupling towball, can be used with adaptor set TP0074	50 mm	2000 kg	ECE E4
TP0074	Adaptor set for TP0037, TP0050 and TP0051 (incl. bolts and nuts), galvanised	35/45/50mm	35/45 mm: 2000 kg 45/50 mm: 2200 kg	



TP0013
50 mm



TP0017
50 mm



TP0017-4
50 mm



TP0045 50 mm
TP0022 60 mm
TP0031 70 mm



TP0046 50 mm
TP0030 60 mm
TP0023 70 mm



TP0051
40/45/50 mm
adaptor set included
can be used with adaptor
set TP0074



TP0052 45/46 mm
TP0048 50/51 mm



TP0017-2 50 mm



TP0017-3
50mm



TP0047 60 mm



TP0037
40/45/50 mm
adaptor set included can be
used with adaptor set TP0074



TP0050 50 mm
can be used with adaptor
set TP0074



TP0074
35/40/45mm
for use with TP0037, TP0050
and TP0051



TP0007



THD001



TP0012



TP0044

Part nr.	Description
TP0007	Towball cap with ring, synthetic rubber
THD001	Towball cap, PVC
TP0012	Towball cap with lock and key, chrome-plated PVC
TP0044	Tow ball cap with ring, PVC

Also available



TP0021
Mounting bracket for socket
PVC with metal ring
122 x 77 mm, Ø ring 36 mm



TP0021-1
Mounting bracket for socket
metal, 130 x 65 mm



TP0039
Plug holder, metal
For 7 or 13 pole plugs



TP0036
Socket cover, flexible PVC



PDD8001
Parking socket, nylon
For 13 pole ISO 11446 plugs

Winches

Part nr.	Description	Size	Approval
TP0080	Winch cable with hook, iron	10 mtr x Ø 8 mm	
TP0081	Handwinch 545 kg, with hook, iron	170 x 85 x 150 mm Mounting plate: 130 x 85 mm Band 8,5 mtr x 50 mm	CE approved
TP0082	Handpuller 1814 kg (2 tons max), with cable and hook, iron	Cable L 90 cm x Ø 4 mm	CE approved
TP0083	Handpuller 3628 kg (4 tons max), with cable and hook, iron	Cable L 1,20 m x Ø 4 mm	CE approved



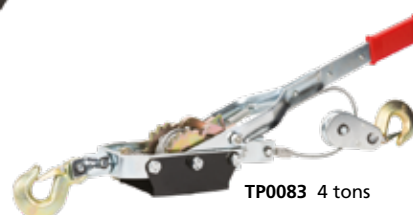
TP0080



TP0082 2 tons



TP0081



TP0083 4 tons

Safety



TP0001 1,0 mtr
TP0001-1 1,5 mtr



TP0041



TP0002



TP0002Z



TP0005



TP0053



TP0054

Part nr.	Description
TP0001	Breakaway cable with carabiner, length 1,0 mtr, black, plastified
TP0001-1	Breakaway cable with carabiner, length 1,5 mtr, black, plastified
TP0041	Safety cable, length 25 cm, white, PVC
TP0002	Auxiliary coupling with slit, galvanised
TP0002Z	Auxiliary coupling with slit, black, steel
TP0005	Auxiliary coupling with spring, galvanised
TP0053	Auxiliary coupling with plug holder, galvanised, 750 kg
TP0054	Auxiliary coupling with strip, galvanised

Anti-theft

Part nr.	Description
TP0004	Discus lock with 2 keys, Ø 70 mm, steel
TP0004-1	Discus lock with 2 keys, Ø 70 m, steel
TP0018	Discus lock with 2 keys, Ø 90 mm, steel
TP0019	Cylinder lock for towball coupling, with 2 keys, steel
TP0008	Coupling hitch lock, 110 x 110 mm, galvanised
TP0009	Coupling hitch lock, 185 x 110 x 300 mm, bag model, galvanised
TP0012	Towball cap with lock and key, chrome-plated PVC
TP0027	Coupling hitch lock, universal egg model, Ø 50 mm, with 2 keys, galvanised
TP0084	Universal wheel clamp, 18-25 cm, with 2 keys, hardened steel
TP0025	Universal coupling hitch lock, with 2 keys, galvanised
TP0024	Coupling hitch lock, divisible, galvanised



TP0004 Ø 70 mm
TP0018 Ø 90 mm

TP0004-1 Ø 70 mm



TP0019



TP0008



TP0009



TP0012



TP0027



TP0084



TP0025



TP0024

Jockey wheels

Part nr.	Description	Max. static load	Max. dynamic load
TP0006	Jockey wheel Ø 48 mm, metal rim, solid rubber tire 200 x 50 mm	150 kg	90 kg
TP0015	Jockey wheel Ø 60 mm, metal rim, solid rubber tire 200 x 60 mm, with 30 mm flange	400 kg	250 kg
TP0028	Jockey wheel Ø 48 mm, metal rim, rubber air tire 260 x 85 mm	150 kg	90 kg
TP0055	Jockey wheel Ø 35 mm, metal rim, solid rubber tire 170 x 45 mm	300 kg	150 kg
TP0056	Jockey wheel Ø 60 mm, metal rim, solid rubber tire 220 x 65 mm	300 kg	150 kg
TP0057	Jockey wheel Ø 48 mm, PVC rim, solid rubber tire 200 x 50 mm	300 kg	150 kg
TP0058	Jockey wheel Ø 48 mm, PVC rim, rubber air tire 260 x 85 mm	150 kg	90 kg



Axes & spare wheels

TP0076



TP0077



TP0011



TP0014



TP0059



TP0060

Part nr.	Description
TP0076	Axis jockey wheel, galvanised, 92 mm
TP0077	Axis jockey wheel, galvanised, 120 mm
TP0011	Spare wheel, metal rim, solid rubber tire, 200 x 50 x Ø 20 mm
TP0014	Spare wheel, metal rim, rubber air tire, 260 x 85 x Ø 20 mm
TP0059	Spare wheel, PVC rim, rubber air tire, 260 x 85 x Ø 20 mm
TP0060	Spare wheel, metal rim, solid rubber tire, 200 x 60 x Ø 20 mm

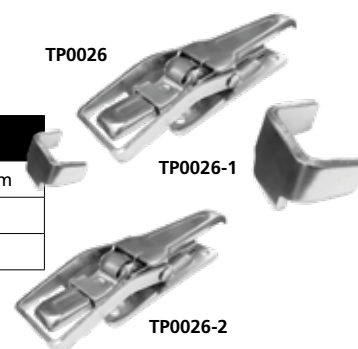
Clamps

Part nr.	Description
TP0003	Jockey wheel clamp, Ø 48 mm
TP0062	Jockey wheel clamp, Ø 35 mm
TP0075	Jockey wheel clamp, Ø 60 mm
TP0079	Clamp holder, set of 2 pcs, galvanised, Ø 60/70 mm



Hinges & latches

Part nr.	Description
TP0026	Tailgate latch Tico with counterpart, 275 x 80 mm, galvanised, plate 152 x 80 mm, hole distance 60 x Ø 8 mm
TP0026-1	Counterpart for TP0026-2, galvanised
TP0026-2	Tailgate latch Tico, 275 x 80 mm, galvanised, plate 152 x 80 mm, hole distance 60 x Ø 8 mm



Part nr.	Description
TP0033	Left board latch nr. 0, galvanised, 145 x 48 mm
TP0034	Right board latch nr. 0, galvanised, 145 x 48 mm
TP0063	Screw-on eyelet nr. 0, galvanised, 90 x 60 mm
TP0064	Screw-on eyelet nr. 1, galvanised, 120 x 70 mm

Part nr.	Description
TP0067	Trailer latch, 210 x 45 mm, narrow
TP0067-1	Counterpart for TP0067, 126,5 mm
TP0068	Trailer latch, 205 x 45 mm, wide
TP0068-1	Counterpart for TP0068, 142 mm



Part nr.	Description
TP0065	Trailer hinge, galvanised, 320 x 56 x 16 mm, hole Ø 16 mm
TP0078	Trailer hinge, galvanised, 220 x 56 x 16 mm, hole Ø 16 mm
TP0066	Weld-on hinge post, 15 mm, untreated steel
TP0069	Drop catch weld-on, galvanised
TP0070	Drop catch threaded, galvanised, screw size M12 x 25 mm

Part nr.	Description
TP0032	Springbolt with cap, galvanised, 165 x 76 x 39 mm
TP0020	Bonnet fastener with counterpart, metal length 120 mm, hole Ø 4 mm



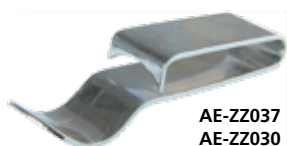
Support

Part nr.	Description
TP0016	Prop stand Ø 48 mm, metal, length 700 mm
TP0061	Prop stand Ø 48 mm, metal, adjustable length 420 - 750 mm
TP0042	Corner steady, 580 x 235 mm, galvanised
TP0038	Corner steady feet, with metal pin, set of 4 pcs



Chassis clamps

- Zink plated steel
- DIN EN-10132-1 (cold-rolled steel strip)
- DIN EN-10132-4 (spring steel)

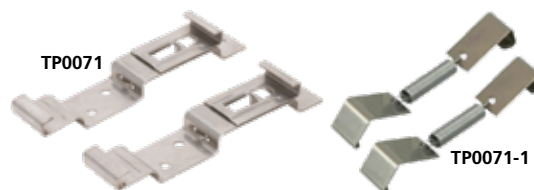


AE-ZZ037 28 mm
 AE-ZZ030 43 mm
 AE-ZZ046 52 mm

Part nr.	Length mm	Width mm	Height mm
AE-ZZ037	28,0	15,0	5,0
AE-ZZ030	43,0	22,0	5,0
AE-ZZ046	52,0	12,0	5,0

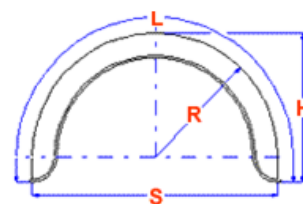
Number plate clamps

Part nr.	Description
TP0071	Number plate clamps, set of 2 pcs
TP0071-1	Set of 2 clamps for repair shop plates



Mudguards

Part nr.	Description	B mm	L mm	H mm	R mm	S mm
TPM0001	Mudguard round HR2280	220	1285	415	400	800
TPM0008	Mudguard round HR1968	190	1060	330	340	680
TPM0010	Mudguard round HR2075	200	1210	390	375	750
TPM0002	Mudguard angular HMHR1960	190	900	280	-	600
TPM0003	Mudguard angular HMHR1966	190	1060	340	-	660
TPM0004	Mudguard angular HMHR2075	200	1150	350	-	750
TPM0005	Tandem mudguard round THRD22155	220	2040	375	375	1550
TPM0006	Tandem mudguard angular THMHRD21152	220	1980	400	-	1520
TPM0007	Tandem mudguard angular THMHRD23152	230	1980	400	-	1520



TPM0001 220 x 800 mm
 TPM0008 190 x 680 mm
 TPM0010 200 x 750 mm

TPM0002 190 x 600 mm
 TPM0003 190 x 660 mm
 TPM0004 200 x 750 mm



TPM0005 220 x 1550 mm



TPM0006 220 x 1520 mm
 TPM0007 230 x 1520 mm

Securing cargo

Part nr.	Description
TP0100	Cargo bar, aluminium, adjustable lenght 2350-2720 mm
TP0029-1	Lashing eye single, 105 x 105 mm, galvanised stainless steel, with spring, pulling force appr. 800 daN
TP0072	Lashing eye single, 95 x 100 mm, galvanised stainless steel, with spring, pulling force appr. 800 daN
TP0040	Lashing eye tourniquet with spring, 66 x 15 mm
TP0073	Screw-on rope hook, 50 x 13 mm, Ø 6 mm holes, spaced 20 mm, galvanised
TP0073-1	Screw-on rope hook, 72 x 20 mm, Ø 5 mm holes, spaced 20 mm, galvanised steel



TP0100



TP0029-1

TP0072

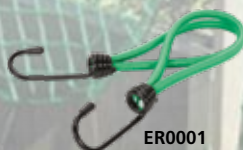


TP0040


 TP0073
TP0073-1

Trailer nets

Part nr.	Size	Material	Mesh size
TN0001	1,5 x 2,2 m	PP yarn, Ø 3 mm	45 x 45 mm
TN0002	1,5 x 2,7 m	PP yarn, Ø 3 mm	45 x 45 mm
TN0003	2,0 x 3,0 m	PP yarn, Ø 3 mm	45 x 45 mm
TN0004	2,5 x 4,5 m	PP yarn, Ø 3 mm	45 x 45 mm
TN0005	2,5 x 3,5 m	PP yarn, Ø 3 mm	45 x 45 mm
TN0011	2,5 x 1,6 m	HDPE	fine-meshed
TN0012	3,0 x 2,0 m	HDPE	fine-meshed
TN0013	4,5 x 2,5 m	HDPE	fine-meshed
ER0001	260 mm x Ø 8 mm	PES with rubber core	rope


 45x45 mm mesh, green
With black elastic rope Ø 5 mm


ER0001


 Fine-meshed, green
With black elastic rope Ø 6 mm

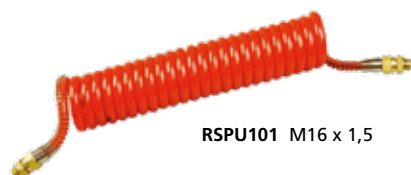

Water hoses

- Produced from phthalate-free soft PVC
- Operation temperature: -15 up to +60 °C

Part nr.	Description	ID x OD	Lenght
BZS03065	Transparent PVC water hose	Ø 3 x 6 mm	5 m
BZS04075	Transparent PVC water hose	Ø 4 x 7 mm	5 m
BZS05095	Transparent PVC water hose	Ø 5 x 9 mm	5 m
BZS06105	Transparent PVC water hose	Ø 6 x 10 mm	5 m
BZS07105	Transparent PVC water hose	Ø 7 x 10 mm	5 m
BZS08125	Transparent PVC water hose	Ø 8 x 12 mm	5 m
BZS10145	Transparent PVC water hose	Ø 10 x 14 mm	5 m
BZS12175	Transparent PVC water hose	Ø 12 x 17 mm	5 m

Air hoses

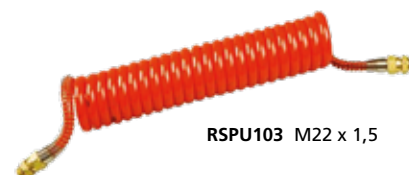
Coiled air hose, polyurethane	
Part nr.	Description
RSPU101	Red polyurethane with galvanised steel connection support, inner diameter 50 mm, outer diameter 75 mm Working length 4 mtrs, hose size 8 x 2 x 12 mm, connection M16 x 1,5
RSPU102	Yellow polyurethane with galvanised steel connection support, inner diameter 50 mm, outer diameter 75 mm Working length 4 mtrs, hose size 8 x 2 x 12 mm, connection M16 x 1,5
RSPU103	Red polyurethane with galvanised steel connection support, inner diameter 50 mm, outer diameter 75 mm Working length 4 mtrs, hose size 8 x 2 x 12 mm, connection M22 x 1,5
RSPU104	Yellow polyurethane with galvanised steel connection support, inner diameter 50 mm, outer diameter 75 mm Working length 4 mtrs, hose size 8 x 2 x 12 mm, connection M22 x 1,5
RSPU109	Black polyurethane with yellow PVC connection support, inner diameter 50 mm, outer diameter 75 mm Working length 4 mtrs, hose size 8 x 2 x 12 mm, connection M16 x 1,5
RSPU110	Black polyurethane with red PVC connection support, inner diameter 50 mm, outer diameter 75 mm Working length 4 mtrs, hose size 8 x 2 x 12 mm, connection M16 x 1,5



RSPU101 M16 x 1,5



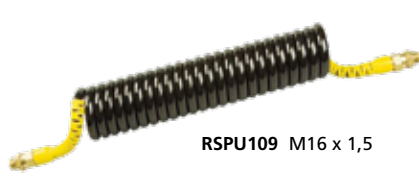
RSPU102 M16 x 1,5



RSPU103 M22 x 1,5



RSPU104 M22 x 1,5



RSPU109 M16 x 1,5



RSPU110 M16 x 1,5

Coiled air hose, polyamide

Part nr.	Description
RSPA556	Black polyamide with red PVC connection support, inner diameter 90 mm, outer diameter 115 mm Working length 4 mtrs, hose size 12 x 9 mm, connection M18 x 1,5
RSPA557	Black polyamide with yellow PVC connection support, inner diameter 90 mm, outer diameter 115 mm Working length 4 mtrs, hose size 12 x 9 mm, connection M18 x 1,5
RSPA558	Black polyamide with black PVC connection support, inner diameter 90 mm, outer diameter 115 mm Working length 4 mtrs, hose size 12 x 9 mm, connection M18 x 1,5



RSPA556



RSPA557



RSPA558

Also available



RSPU092
 Black polyurethane air pressure
 gun, incl. T-piece
 Length 5 mtrs
 Hose size 8 x 5 mm
 Max. pressure 10 Bar

Palm couplings

- Working pressure: 8 Bar
- Max. pressure: 13 Bar

Part nr.	Description
RSPU603	Coupling with valve M16 red
RSPU204	Coupling with valve M22 red
RSPU601	Coupling without valve M16 red
RSPU201	Coupling without valve M22 red
RSPU604	Coupling with valve M16 yellow
RSPU203	Coupling with valve M22 yellow
RSPU602	Coupling without valve M16 yellow
RSPU202	Coupling without valve M22 yellow



RSPU603 with valve
RSPU204 with valve
RSPU601
RSPU201

RSPU604 with valve
RSPU203 with valve
RSPU602
RSPU202



with valve



without valve

Truck & Trailer Parts

Plugs & Sockets

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Lighting

Battery

Hose Clamps

Screws, Bolts & Nuts

Wire & Cable

Bundling & Protection

EV Products

Insulated Terminals

Non-insulated Terminals

Cord End Terminals

Housing

Fuses & Fuse Holders

Relays, Switches,

Pilot Lights & Buzzers

Tools & Accessories

220/230V Plugs & sockets - 2 Poles

Part nr.	Description	Approval
AE-ZZ001	2 Pole rubber plug, earthed, 220V-16A	DIN 49440 & 49441
AE-ZZ004	2 Pole rubber socket, earthed, 220V-16A	DIN 49440 & 49441
AE-ZZ211	2 Pole PVC plug, regular and pin earthed, 230V-16A	CE approved, IP20
AE-ZZ214	2 Pole PVC socket with protective cap, pin earthed, 230V-16A	CE approved, IP20



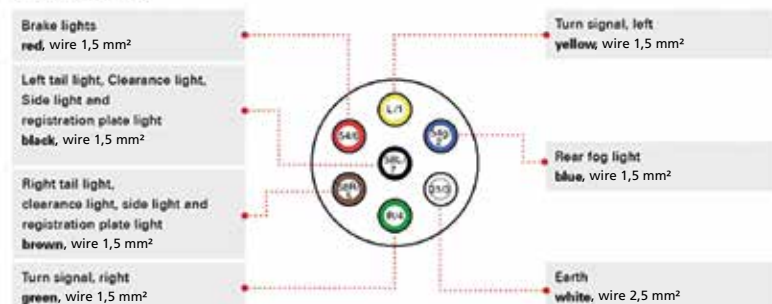
12V Plugs - 7 Poles

Part nr.	Description	Approval
PL07P001BRASS	7 Pole N type nylon plug, screw contacts, brass pins	ISO 1724, IP54
PL07P001NP	7 Pole N type nylon plug, screw contacts, nickel plated pins	ISO 1724, IP54
PL07P002BRASS	7 Pole N type aluminium plug, screw contacts, brass pins	ISO 1724, IP54
PL07P002NP	7 pole N type aluminium plug, screw contacts, nickel plated pins	ISO 1724, IP54



ISO 1724

7-pin, 12 volts, Type N



12V Sockets - 7 Poles

Part nr.	Description	Approval
SC07P001BRASS	7 Pole N type nylon socket, screw contacts, brass pins	ISO 1724, IP54
SC07P001NP	7 Pole N type nylon socket, screw contacts, nickel plated pins	ISO 1724, IP54
SC07P002	7 Pole N type aluminium socket, screw contacts, with FCO (foglight cut-off), brass pins	ISO 1724, IP54
SC07P002NP	7 Pole N type aluminium socket, screw contacts, with FCO (foglight cut-off), nickel plated pins	ISO 1724, IP54
SC07P003BRASS	7 Pole N type nylon socket, screw contacts, with FCO (foglight cut-off), brass pins	ISO 1724, IP54
SC07P003NP	7 Pole N type nylon socket, screw contacts, with FCO (foglight cut-off), nickel plated pins	ISO 1724, IP54
SC07P004	7 Pole N type nylon socket, screw contacts, with micro FCO (foglight cut-off), nickel plated pins	ISO 1724, IP54
SC07P012	7 Pole N type aluminium socket, screw contacts, brass pins	ISO 1724, IP54
PL07P003	7 Pole N type nylon coupling socket with cover, screw contacts, brass pins	ISO 1724, IP54

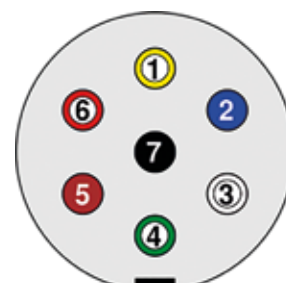


12V Plugs & sockets - 7 Poles

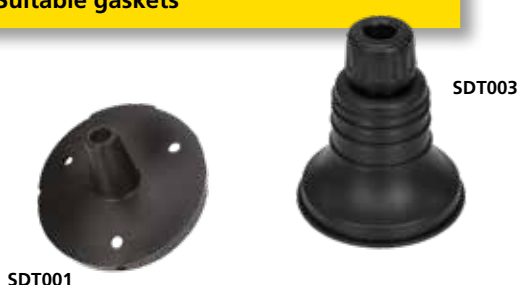
This 7 pole 12V plug system, compliant with ISO 1724/ISO 3732 S, is the most frequently used system for electrical connections between traction vehicle and trailer with 12V vehicle electric system. The system is mainly used for applications with average requirements. This auxiliary system differs from the normal system by white housing, contact inserts and non-interchangeable contact arrangement.

- Load-carrying capacity: Max. 15A at 12V
- Cable cross section: Max 1 x 2,5 mm² or max. 2 x 1,5 mm²
- Permissible temperature range: -25 °C ~ 70 °C ambient temperature

Part nr.	Description	Approval
SC07P005	7 Pole black nylon S type socket with light grey cover	ISO 3732
PL07P005	7 Pole light grey nylon S type plug with screw type strain relief	ISO 3732
SC07P006	7 Pole black nylon S type socket with light grey cover, screw type strain relief and trailer fitting	ISO 3732



Suitable gaskets



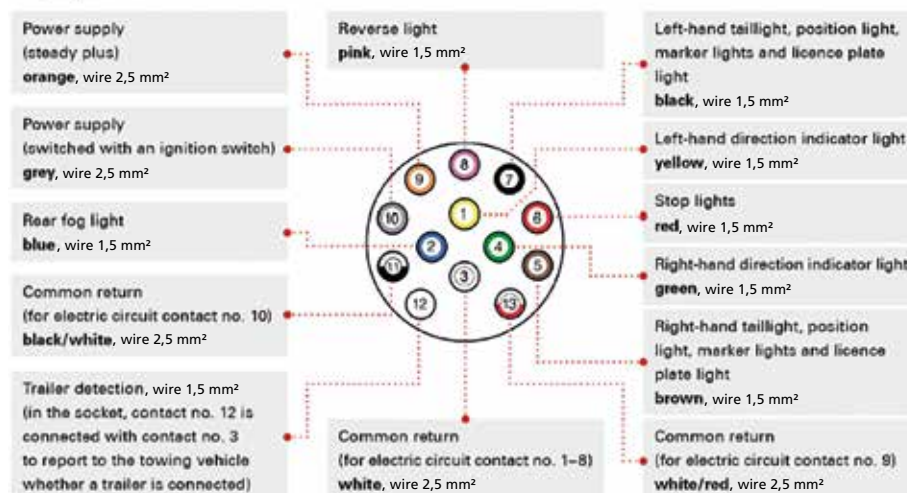
Pin	Color	Wire	Description
1	Yellow	1,5 mm ²	Reversing lights
2	Blue	2,5 mm ²	Spare
3	White or grey	2,5 mm ²	Earth for pin 4
4	Green	2,5 mm ²	+12V permanent
5	Brown	1,5 mm ²	Spare
6	Red	2,5 mm ²	+12V via ignition switch
7	Black	2,5 mm ²	Earth for pin 6

12V Plugs & Sockets - 13 Poles

Part nr.	Description	Approval
PL13P001	13 Pole nylon plug with strain relief, M3 screw contacts, wire outlet Ø 9,15 mm	ISO 11446, IP54
SC13P001	13 Pole reinforced composite socket, M3 screw contacts, nickel plated pins	ISO 11446, IP54
PL13P002	7+6 Pole nylon "WeSt" multi-plug, M3 screw contacts	NEN 6120, IP54
SC13P003	7+6 Pole reinforced composite "WeSt" socket, M3 screw contacts, with micro FCO (foglight cut-off), nickel plated pins	NEN 6120, IP54
SC13P005	13 Pole reinforced composite socket with PVC gasket, M3 screw contacts, with FCO (foglight cut-off), nickel plated pins	ISO 11446, IP54
SC13P006	13 Pole reinforced composite socket with PVC gasket, M3 screw contacts, with micro FCO (foglight cut-off), nickel plated pins	ISO 11446, IP54



ISO 11446 13-pin, 12 Volt



12V Towbar wiring kits - 7 Poles

Part nr.	Strands	Length	Remarks
THKS07P001	7 x 0,75 mm ²	1,5 mtrs	ISO 1724
THKS07P001FCO	8 x 0,75 mm ²	1,5 mtrs	With foglight cut-off ISO 1724
THKS07P002	7 x 0,75 mm ²	2,0 mtrs	ISO 1724
THKS07P002FCO	8 x 0,75 mm ²	2,0 mtrs	With foglight cut-off ISO 1724
THKS07P101	7 x 0,5 mm ²	1,5 mtrs	With mounting plate ISO 1724 WITHOUT MOUNTING MATERIALS AND RUBBER GASKET
THKS07P102	7 x 0,5 mm ²	2,0 mtrs	With mounting plate ISO 1724 WITHOUT MOUNTING MATERIALS AND RUBBER GASKET



THKS07P001



THKS07P001FCO



THKS07P002



THKS07P002FCO



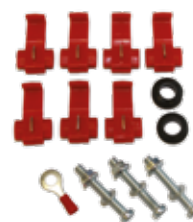
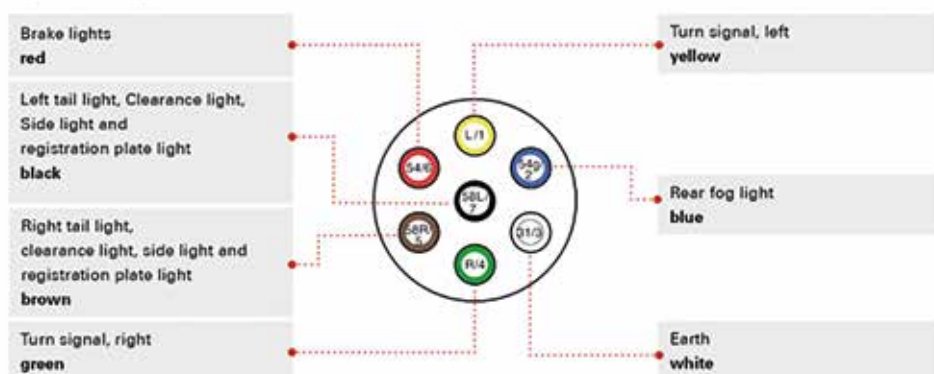
THKS07P101



THKS07P102

ISO 1724

7-pin, 12 volts, Type N



Unless otherwise stated,
all wire harnesses are
supplied with

- waterproof cap
- fasteners & clips
- flexible rubber gasket

12V Towbar wiring kits - 13 Poles



Part nr.	Strands	Length	Remarks
THKS13P001	11 x 0,5 mm ² 1 x 0,75 mm ²	1,5 mtrs	ISO 11446
THKS13P001FCO	12 x 0,5 mm ² 1 x 0,75 mm ²	1,5 mtrs	With foglight cut-off ISO 11446
THKS13P002	11 x 0,5 mm ² 1 x 0,75 mm ²	2,0 mtrs	ISO 11446
THKS13P002FCO	12 x 0,5 mm ² 1 x 0,75 mm ²	2,0 mtrs	With foglight cut-off ISO 11446
THKS13P003FCO	9 x 0,75 mm ² 4 x 1,5 mm ²	1,5 mtrs	7+6 Pole "WeSt" socket Separate green wires included With foglight cut-off NEN 6120
THKS13P004FCO	9 x 0,75 mm ² 4 x 1,5 mm ²	2,0 mtrs	7+6 Pole "WeSt" socket Separate green wires included With foglight cut-off NEN 6120
THKS13P101	13 x 0,5 mm ²	1,5 mtrs	With mounting plate ISO 11446 WITHOUT MOUNTING MATERIALS AND RUBBER GASKET
THKS13P102	13 x 0,5 mm ²	2,0 mtrs	With mounting plate ISO 11446 WITHOUT MOUNTING MATERIALS AND RUBBER GASKET
THKS13P240FCO	9 x 0,75 mm ²	2,4 mtrs	With foglight cut-off ISO 11446 WITHOUT RUBBER GASKET

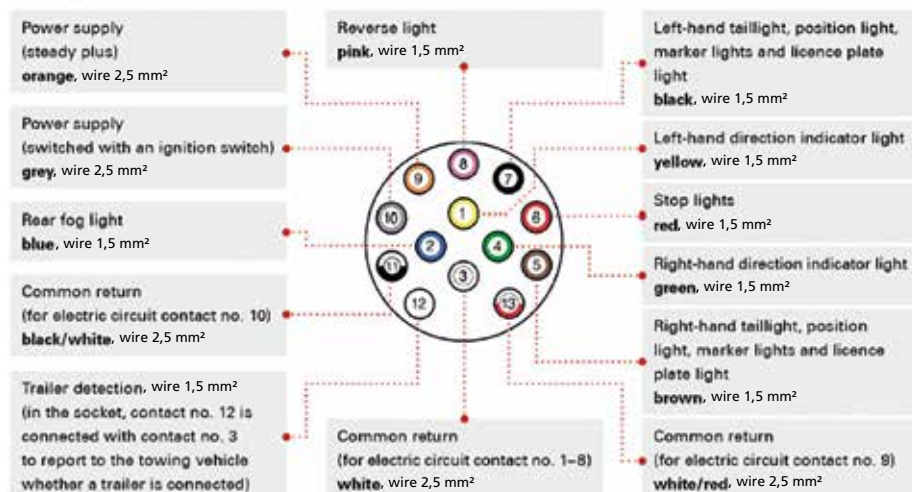
THKS13P101



THKS13P102

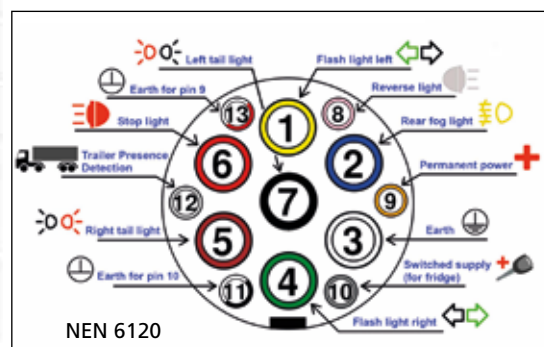


ISO 11446 13-pin, 12 Volt



Unless otherwise stated,
all wire harnesses are
supplied with

- waterproof cap
- fasteners & clips
- flexible rubber gasket



12V Adaptors

Part nr.	Poles		Description	Approval
	Car	Trailer		
AP13S071	13	7	Adaptor 13/7, nickel plated pins	ISO 11446 & 1724, IP54
AP13S072	13	7	Micro adaptor 13/7, nickel plated pins	ISO 11446 & 1724, IP54
AP13S073	7	13	Short adaptor 7/13, nickel plated pins	ISO 1724 & 11446, IP54
AP13S074	13	7+6 "WeSt"	Adaptor 13/7+6, nickel plated pins	ISO 11446 & NEN 6120, IP54
AP13S075	7	13	Short adaptor 7/13, brass pins	ISO 1724 & 11446, IP54
AP13S076	13	7	Micro adaptor 13/7, brass pins	ISO 11446 & 1724, IP54



AP13S071
13 -> 7 poles



AP13S072
13 -> 7 poles



AP13S073
7 -> 13 poles



AP13S074
13 -> 7+6 poles "WeSt"



AP13S075
7 -> 13 poles



AP13S076
13 -> 7 poles

12V Adaptor cables

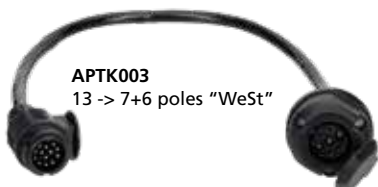
Part nr.	Poles		Description	Approval
	Car	Trailer		
APTK001	7+6 "WeSt"	13	Adaptor wiring kit 7+6/13, length 0,7 mtrs	NEN 6120 & ISO 11446, IP54
APTK002	13	7	Adaptor wiring kit 13/7, length 0,7 mtrs	ISO 11446 & 1724, IP54
APTK003	13	7+6 "WeSt"	Adaptor wiring kit 13/7+6, length 0,7 mtrs	ISO 11446 & NEN 6120, IP54
APTK004	7	13	Adaptor wiring kit 7/13, length 0,7 mtrs	ISO 1724 & 11446, IP54



APTK001
7+6 "WeSt" -> 13 poles



APTK002
13 -> 7 poles



APTK003
13 -> 7+6 poles "WeSt"



APTK004
7 -> 13 poles

12V Spiral & straight coils

Part nr.	Plugs	Strands	Coil	Inner Ø	Outer Ø	Working length	Max. perm. length	Remarks
ADTK014	13 Pole Nylon	12 x 0,5 mm ² 1 x 1 mm ²	TPU	-	-	3 mtrs	4 mtrs	ISO 11446
ADTK015	7 Pole Aluminium	6 x 0,75 mm ² 1 x 1 mm ²	TPU	25 ± 5 mm	35 ± 5 mm	3,5 mtrs ± 50 mm	4 mtrs ± 50 mm	ISO 1724
ADTK016	7 Pole Nylon	6 x 0,75 mm ² 1 x 1 mm ²	TPU	25 ± 5 mm	35 ± 5 mm	3,5 mtrs ± 50 mm	4 mtrs ± 50 mm	ISO 1724
ADTK017	7 Pole Aluminium	7 x 0,5 mm ²	TPU	-	-	3 mtrs	-	ISO 1724
ADTK018	7 Pole Nylon	7 x 0,5 mm ²	PVC	-	-	3 mtrs	-	ISO 1724 1 x socket 1 x plug
ADTK022	7 Pole Plastic	6 x 1 mm ² 1 x 1,5 mm ²	PUR	25 ± 5 mm	35 ± 5 mm	3,2 mtrs ± 50 mm	3,5 mtrs ± 50 mm	ISO 1724 1 x socket 1 x plug
SPKA350	12-24V spiral cable without plugs	6 x 0.75 mm ² 1 x 1.0 mm ²	TPU	-	-	3,5 mtrs	-	-



12V Accessories

Testers

- Suitable for caravan or trailer
- For simple testing 12V trailer lights
- Needs a 9V battery (not included)

Part nr.	Description
TES0601	7 pole plug tester
TES0602	plug tester set, with adapter short from 13 to 7 pins and adapter contra from 7 to 13 pins
TES0603	13 pole plug tester



Mounting brackets



TP0021
Mounting bracket
PVC with metal ring
For 7 or 13 pole sockets
122 x 77 mm, Ø ring 36 mm



TP0021-1
Mounting bracket, metal
For 7 or 13 pole sockets
130 x 65 mm

Plug holders & socket cover



TP0039
Plug holder, metal
For 7 or 13 pole plugs



PDB001
Parking socket, nylon
For 13 pole ISO 11446 plugs



TP0036
Socket cover, flexible PVC

Rubber gaskets

Part nr.	Description
SDT001	Universal PVC gasket for 7 or 13 pole sockets, round, long and narrow nozzle, cable Ø 8,0 - 8,8 mm
SDT002	PVC gasket for 7 or 13 pole sockets, 2 straight sides, short and wide nozzle, cable Ø 8,0 - 8,8 mm
SDT003	Nylon (PA6) gasket for 7 or 13 poles sockets, round, with washer, rubber and nut, cable Ø 13,0 - 14,0 mm
SDT004	PVC gasket for 7 or 13 pole sockets, 2 straight sides, cable Ø 8,5 - 9,8 mm (nozzle can be cut down)
SDT005	PVC gasket with double nozzle for 7 or 13 pole sockets, 2 straight sides, cable Ø 7,0 - 7,2 mm and 8,0 - 8,2 mm



SDT001*



SDT002



SDT003*



SDT004



SDT005

*Also suitable for ISO 3732 plug system

24V Plugs & sockets - 7 Poles S & N type



502021



502011



502023



24PL007

S type aluminium

Part nr.	Description	Contacts
502021	Aluminium S type socket ISO 3731, IP54	Screw
502011	Aluminium S type plug ISO 3731, IP54	Screw

S type nylon

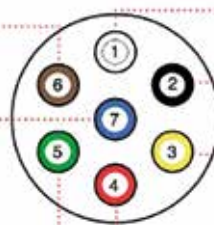
Part nr.	Description	Contacts
502023	Nylon S type socket ISO 3731, IP54	Screw
24PL007	Nylon S type plug ISO 3731, IP44	Screw

ISO 3731 7-pin, 24 volts, Type S

Additional power supply
(Operated with ignition switch)
brown, wire 2,5 mm²

Rear fog light
blue, wire 1,5 mm²

Control via earth
green, wire 1,5 mm²



Earth
white, wire 2,5 mm²

Not connected
black, wire 1,5 mm²

Reversing light
yellow, wire 1,5 mm²

Power supply
(steady plus)
red, wire 2,5 mm²



502020



502010



502010SP



502022



24PL006



502012

N type aluminium

Part nr.	Description	Contacts
502020	Aluminium N type socket ISO 1185, IP54	Screw
502010	Aluminium N type plug ISO 1185, IP54	Screw
502010SP	Aluminium N type plug with metal spring cable support ISO 1185, IP54	Screw

N type nylon

Part nr.	Description	Contacts
502022	Nylon N type socket ISO 1185, IP54	Screw
24PL006	Nylon N type plug ISO 1185, IP44	Screw
502012	Nylon N type Europlug ISO 1185, IP54	6,3 Tab

ISO 1185 7-pin, 24 volts, Type N

Right tail light, clearance light, side
light and registration plate light
brown, wire 1,5 mm²

Braking control for trailers
blue, wire 1,5 mm²

Turn signal, right
green, wire 1,5 mm²



Earth
white, wire 2,5 mm²

Left tail light, clearance light, side
light and registration plate light
black, wire 1,5 mm²

Turn signal, left
yellow, wire 1,5 mm²

Brake lights
red, wire 1,5 mm²

Also available



24SDT001
Seal for S & N type sockets
For cable Ø 18 mm

24V Plugs & sockets - 5 ABS, 7 EBS & 15 Poles

5 Poles ABS			
Part nr.	Description	Contacts	Wire Size
24SC001	5 Pole ABS socket ISO 7638-1, IP54	Screw	2 x 4 mm ² 3 x 1,5 mm ²
24PL001	5 Pole ABS plug ISO 7638-1, IP54	Screw	2 x 4 mm ² 3 x 1,5 mm ²

7 Poles EBS			
Part nr.	Description	Contacts	Wire Size
24SC002	7 Pole EBS socket ISO 7638-1, IP54	Screw	2 x 4 mm ² 5 x 1,5 mm ²
24PL002	7 Pole EBS plug ISO 7638-1, IP54	Screw	2 x 4 mm ² 5 x 1,5 mm ²



24SC001
5 pole ABS
Screw contacts



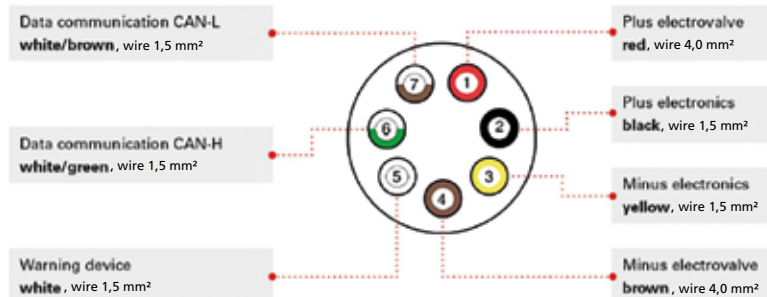
24PL001
5 pole ABS
Screw contacts

24SC002
7 pole EBS
Screw contacts



24PL002
7 pole EBS
Screw contacts

ISO 7638-1 ABS/EBS, 5- | 7-pin, 24 Volt



15 Poles			
Part nr.	Description	Contacts	Wire Size
24SC003	15 Pole socket ISO 12098, IP54	Screw	3 x 2,5 mm ² 12 x 1,5 mm ²
24PL003	15 Pole plug ISO 12098, IP54	Screw	3 x 2,5 mm ² 12 x 1,5 mm ²

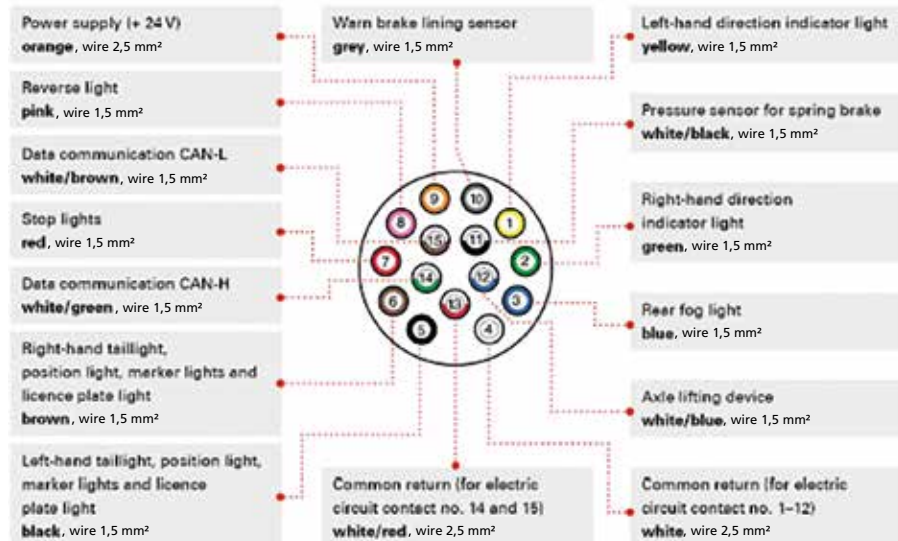


24SC003
15 pole
Screw contacts



24PL003
15 pole
Screw contacts

ISO 12098 15-pin, 24 Volt



Also available

PDDB002
Parking socket
For ISO 12098/7638-1 plugs
ADR certified



24V Spiral coils - 15 -> 2x7 Poles

Part nr.	Plugs	Strands	Coil	Inner Ø	Outer Ø	Working length	Max. perm. length	Remarks
ADTK004	15 pole 14 connection, ISO 12098 7 pole N type, aluminium, ISO 1185 7 pole S type, aluminium, ISO 3731	6 x 1,0 mm ² 1 x 1,5 mm ²	TPU	27 ± 5 mm	38 ± 5 mm	3,7 mtrs ± 50 mm	4 mtrs ± 50 mm	
ADTK005	15 Pole 14 connection, ISO 12098 7 Pole N type, nylon, ISO 1185 7 Pole S type, nylon, ISO 3731	6 x 1,0 mm ² 1 x 1,5 mm ²	TPU	27 ± 5 mm	38 ± 5 mm	3,7 mtrs ± 50 mm	4 mtrs ± 50 mm	
ADTK006	15 Pole 14 connection, ISO 12098 7 Pole N type, nylon, ISO 1185 7 Pole S type, nylon, ISO 3731	6 x 1,0 mm ² 1 x 1,5 mm ²	TPU	27 ± 5 mm	38 ± 5 mm	3,7 mtrs ± 50 mm	4 mtrs ± 50 mm	Moulded plugs



ADTK004 3,7 mtrs

S+N aluminium plugs



ADTK005 3,7 mtrs

S+N nylon plugs



ADTK006 3,7 mtrs

S+N moulded
plugs

24V Spiral coils - 5 ABS, 7 EBS & 15 Poles

Part nr.	Plugs	Strands	Coil	Inner Ø	Outer Ø	Working length	Max. perm. length	Remarks
ADTK007	5 Pole ABS, nylon	2 x 4 mm ² 3 x 1,5 mm ²	TPU	20 ± 5 mm	40 ± 5 mm	3,7 mtrs ± 50 mm	4 mtrs ± 50 mm	ABS ISO 7638-1
ADTK008	7 Pole EBS, nylon	2 x 4,0 mm ² 5 x 1,5 mm ²	TPU	20 ± 5 mm	40 ± 5 mm	3,7 mtrs ± 50 mm	4 mtrs ± 50 mm	EBS ISO 7638-1
ADTK708	7 Pole EBS, nylon	2 x 2,5 mm ² 5 x 1,0 mm ²	TPU	20 ± 5 mm	40 ± 5 mm	3,7 mtrs ± 50 mm	4 mtrs ± 50 mm	EBS ISO 7638-1
ADTK020	15 Pole ADR, nylon	12 x 1,5 mm ² 3 x 2,5 mm ²	TPU	20 ± 5 mm	40 ± 5 mm	3,7 mtrs ± 50 mm	4 mtrs ± 50 mm	ADR ISO 12098



ADTK007 3,7 mtrs

ABS

ADTK008 3,7 mtrs
ADTK708 3,7 mtrs

EBS

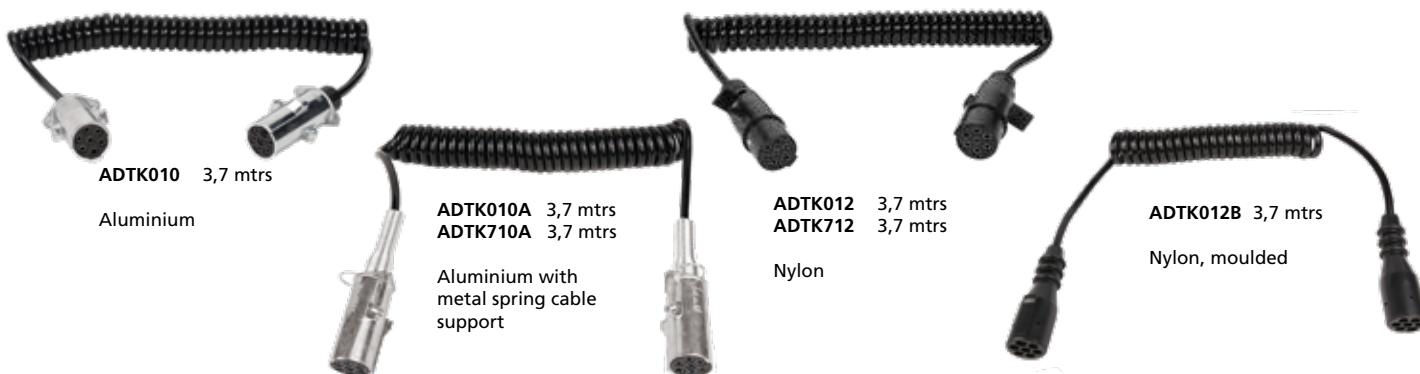


ADTK020 3,7 mtrs

ADR

24V Spiral coils - 2x7 Poles

Part nr.	Plugs	Strands	Coil	Inner Ø	Outer Ø	Working length	Max. perm. length	Remarks
ADTK010	7 Pole N type, aluminium	6 x 1,0 mm ² 1 x 1,5 mm ²	TPU	27 ± 5 mm	38 ± 5 mm	3,7 mtrs ± 50 mm	4 mtrs ± 50 mm	ISO 1185
ADTK010A	7 Pole N type, aluminium	6 x 1,0 mm ² 1 x 1,5 mm ²	TPU	27 ± 5 mm	38 ± 5 mm	3,7 mtrs ± 50 mm	4 mtrs ± 50 mm	Metal spring cable support ISO 1185
ADTK710A	7 Pole N type, aluminium	6 x 0,75 mm ² 1 x 1,0 mm ²	TPU	27 ± 5 mm	38 ± 5 mm	3,7 mtrs ± 50 mm	4 mtrs ± 50 mm	Metal spring cable support ISO 1185
ADTK012	7 Pole N type, nylon	6 x 1,0 mm ² 1 x 1,5 mm ²	TPU	27 ± 5 mm	38 ± 5 mm	3,7 mtrs ± 50 mm	4 mtrs ± 50 mm	ISO 1185
ADTK712	7 Pole N type, nylon	6 x 0,75 mm ² 1 x 1,0 mm ²	TPU	27 ± 5 mm	38 ± 5 mm	3,7 mtrs ± 50 mm	4 mtrs ± 50 mm	ISO 1185
ADTK012B	7 Pole N type, nylon	6 x 1,0 mm ² 1 x 1,5 mm ²	TPU	27 ± 5 mm	38 ± 5 mm	3,7 mtrs ± 50 mm	4 mtrs ± 50 mm	Moulded plugs ISO 1185



Part nr.	Plugs	Strands	Coil	Inner Ø	Outer Ø	Working length	Max. perm. length	Remarks
ADTK011	7 Pole S type, aluminium	6 x 1,0 mm ² 1 x 1,5 mm ²	TPU	27 ± 5 mm	38 ± 5 mm	3,7 mtrs ± 50 mm	4 mtrs ± 50 mm	ISO 3731
ADTK011A	7 Pole S type, aluminium	6 x 1,0 mm ² 1 x 1,5 mm ²	TPU	27 ± 5 mm	38 ± 5 mm	3,7 mtrs ± 50 mm	4 mtrs ± 50 mm	Metal spring cable support ISO 3731
ADTK711A	7 Pole S type, aluminium	6 x 0,75 mm ² 1 x 1,0 mm ²	TPU	27 ± 5 mm	38 ± 5 mm	3,7 mtrs ± 50 mm	4 mtrs ± 50 mm	Metal spring cable support ISO 3731
ADTK013	7 Pole S type, nylon	6 x 1,0 mm ² 1 x 1,5 mm ²	TPU	27 ± 5 mm	38 ± 5 mm	3,7 mtrs ± 50 mm	4 mtrs ± 50 mm	ISO 3731
ADTK713	7 Pole S type, nylon	6 x 0,75 mm ² 1 x 1,0 mm ²	TPU	27 ± 5 mm	38 ± 5 mm	3,7 mtrs ± 50 mm	4 mtrs ± 50 mm	ISO 3731
ADTK011D	7 Pole S type, nylon	6 x 1,0 mm ² 1 x 1,5 mm ²	TPU	27 ± 5 mm	38 ± 5 mm	3,7 mtrs ± 50 mm	4 mtrs ± 50 mm	Moulded plugs ISO 3731



24V Special applications - 2 & 12 Poles



12 Pole rubberized break-proof metal plug
Silver plated solder contacts
IP67, IPX7 protection

24PL009

For max. Ø 24 mm cable
Nato Stock no. 5935-12-188-1750
VG 96923 B1-12P / MS75020-1

24PL008

For max. Ø 17 mm cable
Nato Stock no. 5935-12-350-1294
VG 96923 B2-12P / MS75020-1



24SC006

12 Pole break-proof metal socket
For max. Ø 23,5 mm cable
Silver plated solder contacts
With cap and M6 mounting kit
Nato Stock no. 5935-12-128-1833
IP67, IPX7 protection
VG 96923 A-12S / MS75021-2



24SC009

Socket contact with surrounding spring
Silver plated crimp/solder contact
For max. Ø 50 mm² cable
Spare part for 24SC007 / 24SC008
Nato Stock no. 5999-12-335-5654
VG 96917 S50



24SC007

2 Pole break-proof metal socket
For max. Ø 50 mm² cable
Silver plated crimp/solder contacts
With screw cap
Nato Stock no. 5935-12-308-5019
IP54, IPX4, IPX7 protection
VG 96917 A002



24SC008

2 Pole reinforced composite socket
For max. Ø 35 mm² cable
Silver plated crimp/solder contacts
With rubber cap
IP54, IPX4, IPX7 protection
VG 96917



Plug contact
Silver plated crimp/solder contact

24PL014

For max. Ø 35 mm² cable
Spare part for 24PL010 / 24PL012 / PL02P001
Nato Stock no. 5999-12-187-6686
VG 96917 P35

24PL015

For max. Ø 50 mm² cable
Spare part for 24PL011 / 24PL013 / 24PL016
VG 96917



2 Pole waterproof break-proof metal plug
Silver plated crimp/solder contacts
With rubberized metal screw ring
IP54, IPX4, IPX7 protection

24PL010

For max. Ø 35 mm² cable
Length 120 mm
VG 96917 E001B

24PL011

For max. Ø 50 mm² cable
VG 96917



PL02P001

2 Pole break-proof metal sealing plug
For max. Ø 35 mm² cable
Silver plated crimp/solder contacts
Nato stock no. 5935-12-133-0447,
5935-12-306-8954, 5935-12-306-9243
IP54, IPX4, IPX7 protection
VG 96917



24PL016

2 Pole rubberized break-proof metal plug
Silver plated crimp/solder contacts
For max. Ø 50 mm² cable
IP54, IPX4, IPX7 protection
VG 96917



2 Pole reinforced composite plug
Silver plated crimp/solder contacts
IP54, IPX4, IPX7 protection

24PL012

For max. Ø 35 mm² cable
VG 96917

24PL013

For max. Ø 50 mm² cable
VG 96917 E001B



24SC011

2 Pole rubberized break-proof metal coupler
Silver plated contacts
For 24PL010, 24PL011, 24PL012,
24PL013, 24PL016, PL02P001
Without screw caps
IP54, IPX4, IPX7 protection
VG 96917

6-24V Applications

SC01P001



SC01P004



SC01P004-1



SC01P005



SC01P012-1



SC01P012



SC01P020



SC01P030



SC01P013



APTK106



APTK009



Single sockets		
Part nr.	Description	Remarks
SC01P001	DIN standard built-in socket for standard plugs with protective cap	6,3 mm tab connection 12-24V, 16A
SC01P004	Built-in break proof metal socket Universal and norm socket Fastening by hexagon nut	Screw connection Mounting hole Ø 18 mm 6-24V, 16A DIN / ISO 4165, IP20
SC01P004-1	Built-in DIN standard socket for standard and universal plugs Metal housing Fastening by hexagon nut	6,3 mm tab connection Mounting hole Ø 18 mm Inner Ø 12 mm 6-24V, 16A DIN / ISO 4165
SC01P005	Built-in socket with slotted housing Universal and norm socket	Screw connection 12-24V, 20A DIN / ISO 4165
SC01P012	Built-in socket for standard plugs Panel mounted, fastening by hexagon nut	6,3 mm tab connection Mounting hole Ø 27,8 mm Inner Ø 21 mm 12-24V, 20A with 2,5 mm ² cable, 16A with 1,5 mm ² cable DIN / ISO 2768
SC01P012-1	Built-in socket for standard plugs Panel mounted, fastening by clamp sleeve	6,3 mm tab connection Mounting hole Ø 27,8 mm Inner Ø 21 mm 12-24V, 20A with 2,5 mm ² cable, 16A with 1,5 mm ² cable
SC01P013	Surface-mounted socket for standard and universal plugs Dust- and splash-proof	6,3 mm tab connection Inner Ø 12 mm 12-24V, 16A DIN / ISO 4165
SC01P020	Built-in socket for standard plugs Plastic housing Easy to build in	6,3 mm tab connection 12V, 10A
SC01P030	Built-in socket for standard plugs Plastic housing Easy to build in	6,3 mm tab connection 12-24V, 10A
APTK009	Socket with flat cable	Cable length 1,8 mtrs 12-24V, 8A
APTK106	Surface-mounted socket for universal plugs	6,3 mm tab connection Inner Ø 21 mm 12-24V, 20A with 2,5 mm ² cable, 16A with 1,5 mm ² cable

Multi-sockets		
Part nr.	Description	Remarks
APTK007	Twin socket connector with universal plug	Cable length 0,25 mtr Inner Ø 12 mm 12-24V, 2 x 8A
APTK012	Triple socket connector with universal plug	Inner Ø 12 mm 12-24V, 3 x 5A
APTK010	Triple socket (2 x power, 1 x USB) with universal plug	Cable length 1,5 mtrs Inner Ø 12 mm 12V -> 5V, 1000mA
APTK109	Triple socket with universal plug	Inner Ø 21 mm 2 x 1,5 mm ² cable, length 2 mtrs 12-24V, 16A
APTK111	Triple built-in socket for universal plugs	6,3 mm tab connection Inner Ø 12 mm 12-24V, 16A DIN / ISO 4165
APTK108	Triple surface-mounted socket for universal plugs	Inner Ø 12 mm 12-24V, 20A with 2,5 mm ² cable, 16A with 1,5 mm ² cable



Plugs		
Part nr.	Description	Remarks
PL01P001	Universal plug for cigarette lighter, with glass fuse	Screw terminal for 2,5 mm ² 12-24V, 16A
PL01P004	Universal safety plug for cigarette lighter, with glass fuse	Screw terminal for 2,5 mm ² 12-24V, 8A
PL01P002	Standard plug for DIN / ISO 4165 sockets	Screw terminals 12-24V, 15A
PL01P005	90° Universal plug for cigarette lighter and DIN / ISO 4165 sockets	Screw terminals max 2x 2,5 mm ² LED: Green 12-24V, 7,5A
PL01P006	DIN-socket adaptor for DIN / ISO 4165 sockets	Inner Ø 21 mm 12-24V, 8A

Appliance cable		
Part nr.	Description	Remarks
APTK107	Appliance cable with universal safety plug and straight DC connector	2 x 0,75 mm ² cable, length 2 mtrs 12-24V, 8A



Adaptor		
Part nr.	Description	Remarks
APTK013	AC/DC adaptor	Input AC 100~240V, 1,8A Output DC 12V, 5A



Extension cables		
Part nr.	Description	Remarks
APTK006	Extension cable with universal safety plug and socket	Cable length 0,6-3 mtrs 12-24V, 8A
APTK014	Extension cable with universal safety plug and fracture proof socket for standard and universal plugs	Cable length 4 mtrs 12-24V, 8A DIN / ISO 4165
APTK015	Extension cable with standard plug for DIN / ISO 4165 sockets	Cable length 0,25 mtr 12-24V, 8A

USB		
Part nr.	Description	Remarks
SC01P009	Built-in USB socket with protective cap	12-24V input 2,1A@5V output
SC01P010	Surface-mounted power USB socket With integrated power voltage converter For charging and operating devices that are suitable for charging by 5V USB, like mobile/smart phones, sat navs and digital cameras	With 15 cm 0,5 mm ² cable connection 8-34V input 3A@5V output
APTK016	USB cable with universal safety plug, for charging and operating devices	Cable length 1,8 mtrs Input 2A@12V Output 5V, 1000mA
APTK011	Micro USB cable	Cable length 1,8 mtrs 3A output, not suitable for charging mobile phones
APTK010	Triple socket (2 x power, 1 x USB) with universal plug	Cable length 1,5 mtrs Inner Ø 12 mm 12V -> 5V, 1000mA



6-24V Applications - 2 & 3 Pole plugs & sockets

PL02P004

2 Pole aluminium plug
Screw terminals
With cap nut
6-24V, 30A
DIN 14690



PL02P004SEAL

Seal for PL02P004
Cable Ø 6-12 mm



SC02P001SEAL

Gasket for SC02P001
Cable Ø 6-12 mm



2 poles

SC02P001

2 Pole aluminium socket
With ring tongue connection M3
Screw contacts
With seal in screw cap
6-24V, 30A
DIN 14690



3 poles

AE-ZZ006

3 Pole nylon socket
2 x 6,3 and 1 x 4,8 mm tab contacts
Protection type IP54
DIN / ISO 9680
6-24V



SC03P001

3 Pole plastic trailer socket
Screw connection M3
16A@6-24V
Similar to DIN 9680



AE-ZZ005

3 Pole nylon plug
2 x 6,3 and 1 x 4,8 mm tab contacts
Protection type IP54
DIN / ISO 9680
6-24V



PL03P008

3 Pole plastic trailer plug
Screw connection M3
16A@6-24V
Similar to DIN 9680



24V Rema type plug & socket

- Designed for reliable transmission of lighting, braking or charging, and auxiliary power between vehicles and trailer elements
- Contacts are solders only

Part nr.	Plugs	Housing	Pins
AE-ZZ009	250A, 2 Pole starter socket SW-5	PA6 Nylon, black	Brass
AE-ZZ015	250A, 2 Pole starter plug SW-4	PA6 Nylon, black	Brass

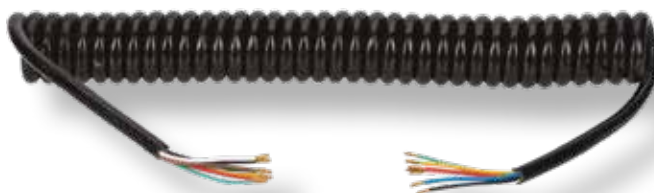
AE-ZZ009



AE-ZZ015



Also available



SPKA350

TPU spiral cable without plugs
12-24V

Strands: 6 x 0,75 + 1 x 1,0 mm²
Working length 3,5 mtrs



ADTKA501

Spiral coil with 2 Nylon Rema plugs
Nickel plated brass pins

24V, 2 poles

Strands: 2 x 35 mm²
Working length 3 mtrs
Max perm. length 4 mtrs ± 50 mm

600V Anderson type connectors

Part nr. red	Part nr. grey	Part nr. black	Part nr. blue	Size (LxWxH)	Remarks	Can be used with
AE-ZZ434	AE-ZZ435	AE-ZZ436		48 x 36,4 x 15,9 mm	Rating: 50A@600V including 2x AE-ZZ449 contacts	Handle AE-ZZ443 Dust cover AE-ZZ444
AE-ZZ437	AE-ZZ438		AE-ZZ439	79,2 x 53,7 x 24,8 mm	Rating: 175A@600V Including 2x AE-ZZ450 contacts	Handle AE-ZZ445 Dust cover AE-ZZ446
AE-ZZ440	AE-ZZ441		AE-ZZ442	108 x 69,8 x 33,3 mm	Rating: 350A@600V Including 2x AE-ZZ451 contacts	Handle AE-ZZ447 Dust cover AE-ZZ448



AE-ZZ434



AE-ZZ437



AE-ZZ440



AE-ZZ435



AE-ZZ438



AE-ZZ441



AE-ZZ436



AE-ZZ439



AE-ZZ442

Accessories		
Part nr.	Description	Size (L x Ø)
AE-ZZ443	Red polycarbonate (PC) handle for 50A connectors, including 2x screws	58,7 x 48,7 x 10 mm
AE-ZZ444	Black rubber dust cover for 50A connectors	34,8 x 13,8 x 18 mm
AE-ZZ445	Red polycarbonate (PC) handle for 175A connectors, including M6 screws (41,8 mm), nuts, washers	124 x 109,5 x 41,4 mm
AE-ZZ446	Black rubber dust cover for 175A connectors	46 / 53,4 x 38 x 30 mm
AE-ZZ447	Red polycarbonate (PC) handle for 350A connectors, including M6 screws (48,2 mm), nuts, washers	124 x 109,5 x 41,4 mm
AE-ZZ448	Black rubber dust cover for 350A connectors	63 / 69 x 29 x 39 mm
AE-ZZ449	Silver plated contacts for 50A connectors for 14 mm ² (6 AWG) wire	30,3 (12) x Ø 5,6 mm
AE-ZZ450	Silver plated contacts for 175A connectors for 38 mm ² (2 AWG) wire	59,8 (27,5) x Ø 8,8 mm
AE-ZZ451	Silver plated contacts for 350A connectors for 70 mm ² (2/0 AWG) wire	78,1 (31,5) x Ø 12,5 mm



Tool for Anderson contacts

BN21
10" Crimping tool for
Anderson contacts
4,0-6,6 / 4,0-16,0 mm²

Can be used with AE-ZZ449



Junction boxes



JB06P001
1x6 Pole CBL junction box



JB08P001
2x4 Pole CBL junction box



JB08P002
4x2 Pole CBL junction box



JB06P002
1x6 Pole junction box



JB08P004
2x8 Pole junction box



AE-ZZ002
2x8 Pole junction box



AE-ZZ031
2x8 Pole junction box interior

Part nr.	Poles	Connection	Dimenstions	IP	Remarks
JB06P001	1x6	Terminal block, Screw	149 x 73 x 44 mm	IP52	Metal lid with screw, 16A, DIN 40050-9
JB08P001	2x4	Terminal block, Screw	149 x 73 x 44 mm	IP52	Metal lid with screw, 16A, DIN 40050-9
JB08P002	4x2	Tab connectors 6,3 x 0,8 mm	149 x 73 x 44 mm	IP52	Metal lid with screw, 16A, DIN 40050-9
JB06P002	1x6	M4 screw contacts	120 x 69 x 30 mm	IP54	PA housing with rubber grommets and metal lid with clamps
JB08P004	2x8	Tab connectors 6,3 x 0,8 mm	120 x 87 x 36 mm	IP6K	Plastic lid with clamps
AE-ZZ002	2x8	Tab connectors 6,3 x 0,8 mm	150 x 93 x 45 mm	IP54	PA housing, aluminium lid with clamps
AE-ZZ031	2x8	Tab connectors 6,3 x 0,8 mm	77 x 31 x 24 mm		

Truck & Trailer Parts

Plugs & Sockets

Lighting

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Battery

Hose Clamps

Screws, Bolts & Nuts

Wire & Cable

Bundling & Protection

EV Products

Insulated Terminals

Non-insulated Terminals

Cord End Terminals

Housing

Fuses & Fuse Holders

Relays, Switches,

Pilot Lights & Buzzers

Tools & Assortments

Rear lights - LED

Part nr.	Description	Dimensions	Rating	Reflector	Stop	Tail	Reverse	Direction indicator	Number plate	Fog	Approval
LTL1834	Right rear light with PG plug connection	3900 x 850 x 1300 mm	24V	Δ	✓	✓	✓	✓	✓	✓	ECE E9
LTL1835	Left rear light with PG plug connection	3900 x 850 x 1300 mm	24V	Δ	✓	✓	✓	✓	✓	✓	ECE E9
LTL1846	Universal waterproof red-amber rear light	140 x Ø 71,5 mm	9-33V		✓	✓		✓			ECE E4
LTL1847	Universal waterproof red-amber rear light	140 x Ø 71 mm	9-33V		✓	✓		✓			ECE E4
LTL1848	Universal waterproof red fog light	140 x Ø 71 mm	9-33V							✓	ECE E11
LTL1849	Universal waterproof clear rear light	140 x Ø 71 mm	9-33V		✓	✓		✓			ECE E12

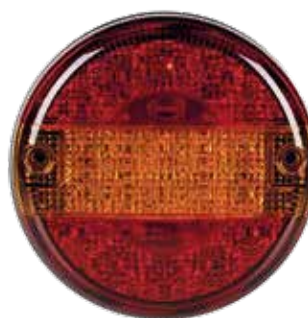


LTL1834 right
LTL1835 left

LED



PG plug



LTL1846

LED
Red/amber lens
Waterproof



LTL1847

LED
Red/amber lens
Waterproof



LTL1848 fog light

LED
Red lens
Waterproof



LTL1849

LED
Clear lens
Waterproof

Rear lights - Bulb

LT5002 right
LTL1872 right lens
LT5003 left
LTL1873 left lens

Europoint Type

Bulbs: 1xP21/5W, 4xP21W, 3xR5W



Grommet



LT5004 right
bulbs: 4xP21W, 3xR5W
LT5005 left
bulbs: 4xP21W, 4xR5W

Volvo Type



Grommet



Part nr.	Description	Dimensions	Rating	Reflector	Stop	Tail	Reverse	Direction indicator	Number plate	Fog	Approval
LT5002	Right rear light with side marker and grommet connection	420 x 147 x 76,5 mm	24V	Δ	✓	✓	✓	✓		✓	ECE E2
LTL1872	Right lens for LT5002										
LT5003	Left rear light with side marker and grommet connection	420 x 147 x 76,5 mm	24V	Δ	✓	✓	✓	✓		✓	ECE E2
LTL1873	Left lens for LT5003										
LT5004	Right rear light with side marker and grommet connection	465 x 130 x 80 mm	24V	✓	✓	✓	✓	✓		✓	ECE E2
LT5005	Left rear light with side marker and grommet connection	465 x 130 x 80 mm	24V	✓	✓	✓	✓	✓	✓	✓	ECE E2
LT5006	Right rear light with side marker and grommet connection	465 x 130 x 80 mm	24V	✓	✓	✓	✓	✓		✓	ECE E2
LT5007	Left rear light with side marker and grommet connection	465 x 130 x 80 mm	24V	✓	✓	✓	✓	✓	✓	✓	ECE E2
LT5009	Left rear light with grommet connection	350 x 133 x 85 mm	24V	✓	✓	✓	✓	✓	✓	✓	ECE E2

LT5006 right
bulbs 4xP21W, 2xR10W
LT5007 left
bulbs 4xP21W, 3xR10W

Mercedes Type



Grommet



LT5009 left

L5 Type

Bulbs: 4xP21W and 2xR10W per unit



Grommet



LTL1867 right
LTL1852 left
LTL1843 lens

Iveco Daily Type (new model)
Bulbs: 3xP21W, 2xR5W



Grommet



LTL1853 right
LTL1854 left
LTL1871 lens

Bulbs: 4xP21W, 3xR5W



Grommet



Part nr.	Description	Dimensions	Rating	Reflector	Stop	Tail	Reverse	Direction indicator	Number plate	Fog	Approval
LTL1867	Right rear light, grommet connection	304,5 x 130 x 79 mm	12-24V	✓	✓	✓	✓	✓			ECE E2
LTL1852	Left rear light, grommet connection	304,5 x 130 x 79 mm	12-24V	✓	✓	✓		✓		✓	ECE E2
LTL1843	Universal lens for LTL1867 and LTL1852										ECE E2
LTL1853	Right rear light with side marker, grommet connection	400 x 130 x 82 mm	24V		✓	✓	✓	✓	✓	✓	ECE E9
LTL1854	Left rear light with side marker, grommet connection	400 x 130 x 82 mm	24V		✓	✓	✓	✓	✓	✓	ECE E9
LTL1871	Universal lens for LTL1853 and LTL1854										ECE E9
LT5001-10	Left rear light	196 x 106 x 61 mm	12V		✓	✓		✓	✓	✓	ECE E3
LT5001-10-S	Lens for LT5001-10										ECE E3
LT5001-13	Right rear light	196 x 106 x 61 mm	12V		✓	✓	✓	✓	✓		ECE E3
LT5001-13-S	Lens for LT5001-13										ECE E3
LT5800-10	Left rear light	220 x 140 x 60 mm	12V	Δ	✓	✓		✓	✓	✓	ECE E3
LT5800-10-S	Lens for LT5800-10										ECE E3
LT5800-13	Right rear light	220 x 140 x 60 mm	12V	Δ	✓	✓	✓	✓	✓		ECE E3
LT5800-13-S	Lens for LT5800-13										ECE E3

LT5001-13



LT5001-10

LT5001-10 left
LT5001-10-S left lens
LT5001-13 right
LT5001-13-S right lens

Bulbs: 1xP21/5W, 2xP21W, 1xR5W (not included)

LT5800-13



LT5800-10

LT5800-10 left
LT5800-10-S left lens
LT5800-13 right
LT5800-13-S right lens

Bulbs: 1xP21/5W, 3xP21W (not included)



LT3002 light
LT3003 lens

Bulbs: 1xP21/5W, 1xP21W (not included)



LT8100 light
LT8100-S lens

Tractor rear light

Bulbs: 1xP21/5W, 2xP21W (not included)

Part nr.	Description	Dimensions	Rating	Reflector	Stop	Tail	Reverse	Direction indicator	Number plate	Fog	Approval
LT3002	Universal rear light, grommet connection	105 x 98 x 50 mm	12V		✓	✓		✓			ECE E3
LT3003	Lens for LT3002										ECE E3
LT8100	Universal rear light, grommet connection	210 x 83 x 58 mm	12V		✓	✓		✓			ECE E3
LT8100-S	Lens for LT8100										ECE E3
LTL1861	Universal rear light	140 x Ø 80 mm	9-33V		✓	✓		✓	✓		ECE E2
LTL1863	Right rear light, PG plug connection	390 x 130 x 84,6 mm	24V	Δ	✓	✓	✓	✓	✓	✓	ECE E9
LTL1864	Lens for LTL1863										ECE E9
LTL1865	Left rear light, PG plug connection	390 x 130 x 84,6 mm	24V	Δ	✓	✓	✓	✓	✓	✓	ECE E9
LTL1866	Lens for LTL1865										ECE E9



LTL1861

Bulbs: 2xP21W, 1xR5W



LTL1863 right
LTL1864 right lens
LTL1865 left
LTL1866 left lens

Bulbs 3xP21W, 1xPY21W, 2xR5W
Can be connected to the junctionbox
with a 2500 mm Trailight cable



PG plug

Trailer boards



LT250490 magnetic kit
Bulbs included

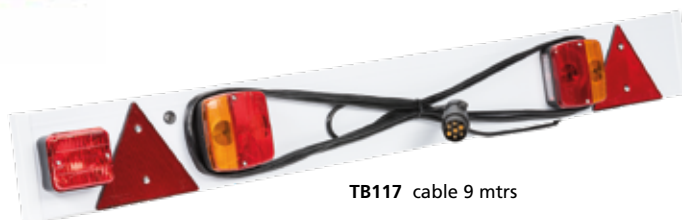


TB112-L LED
2x multifunction lights
2x triangular reflectors
1x separate fog light

Part nr.	Description	Dimensions	Light source	Rating	Reflector	Stop	Tail	Reverse	Direction indicator	Number plate	Fog	Approval
LT250490	Magnetic kit with 7,5 mtrs cable and 7P plug		Bulb	12V		✓	✓		✓	✓		ECE E4
TB112-L	Board with 6 mtrs cable and 7P plug	1220 mm	LED	12V	Δ	✓	✓		✓		✓	Reflector E4 Achterlicht E4 Mistachterlicht E11
TB114	Board with 6 mtrs cable and 7P plug	1200 x 140 mm	Bulb	12V	Δ	✓	✓		✓		✓	Reflector E4 Achterlicht E4 Mistachterlicht E11
TB117	Board with 9 mtrs cable and 7P plug	1200 x 140 mm	Bulb	12V	Δ	✓	✓		✓		✓	Reflector E4 Achterlicht E4 Mistachterlicht E11
TB116-B	Board with 7,5 mtrs cable and 7P plug	Adjustable 1400 - 2100 mm	Bulb	12V	Δ	✓	✓		✓			Reflector E4 Achterlicht E4



TB114 cable 6 mtrs
Bulbs included
2x multifunction lights
2x triangular reflectors
1x separate fog light



TB117 cable 9 mtrs
Bulbs included
2x multifunction lights
2x triangular reflectors
1x separate fog light



TB116-B adjustable
Bulbs included
2x multifunction lights
2x triangular reflectors
Space for separate fog light

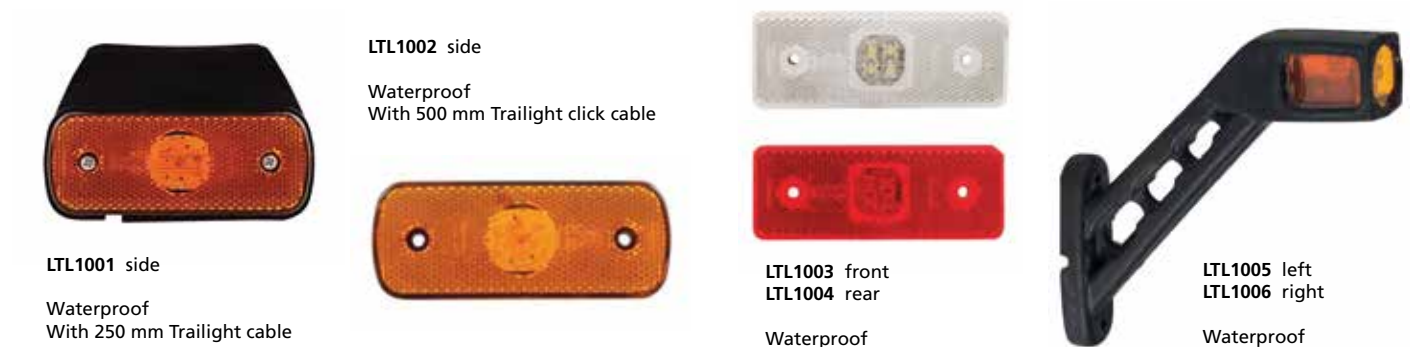
Number plate lights



LIGHTING

Part nr.	Description	Dimensions	Light source	Rating	Approval
LT802	12V R10W light (cable, wire and bulb not included)	82 x 30 x 32,5 mm	Bulb	12V	ECE E3
LT804	12V R10W light (cable, wire and bulb not included)	96,2 x 49,8 x 53,2 mm	Bulb	12V	ECE E3
LT805	Waterproof light	102 x 55 x 57 mm	LED	24V	ECE E2
LT806	R5W light (harness and bulb not included)	100 x 54 x 54 mm	Bulb	24V	ECE E2
LT807	Waterproof light	100 x 57 x 55 mm	LED	12V	ECE E2
LT808	Waterproof light	100 x 57 x 55 mm	LED	24V	ECE E2
LT809	R5W light (bulb not included)	100 x 57 x 55 mm	Bulb	24V	ECE E9

Marker & outline marker lights - LED



Part nr.	Description	Dimensions	Light source	Rating	Waterproof	Approval
LTL1001	Amber, side marker with 250 mm trailight cable	113,5 x 48 mm	LED	24V	✓	ECE E9
LTL1002	Amber, side marker with 500 mm trailight cable	109 x 43 mm	LED	24V	✓	ECE E9
LTL1003	Clear, front marker with socket	111 x 42 mm	4 LEDs	24V	✓	ECE E9
LTL1004	Red, rear marker with trailight cable	111 x 42 mm	4 LEDs	24V	✓	ECE E9
LTL1005	Red-clear-amber, left marker with 1500 mm trailight cable	168,5 x 174,5 mm	3 LEDs	24V	✓	ECE E4
LTL1006	Red-clear-amber, right merker with 1500 mm trailight cable	168,5 x 174,5 mm	3 LEDs	24V	✓	ECE E4

Marker & outline marker lights - Bulb



LT906



LT910



LT911



LT912

LT906 side with reflector
LT910 front with reflector
LT911 front
LT912 rear

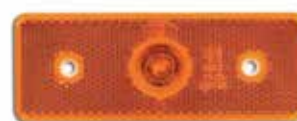
Bulb (C5W, 38 mm) not included

Part nr.	Description	Dimensions	Rating	Reflector	Approval
LT906	Amber, side marker with grommet connection	66 x 62 x 45 mm	12V	✓	ECE E3
LT910	Clear, front marker with grommet connection	66 x 62 x 45 mm	12V	✓	ECE E3
LT911	Clear, front marker with grommet connection	66 x 62 x 45 mm	12V		ECE E3
LT912	Red, rear marker with grommet connection	66 x 62 x 45 mm	12V		ECE E3
LT913	Amber, side marker with reflector and L socket	111 x 42 mm	12-24V	✓	ECE E9
LT914	Amber, side marker with reflector and L socket	120 x 45 mm	12-24V	✓	ECE E9
LT915	Amber, side marker with reflector and socket	126 x 57 mm	12-24V	✓	ECE E9
LT916	Amber, side marker with mounting braquet, reflector and integrated ttr cable connector	111 x 42 mm (excl. bracket)	12-24V	✓	ECE E9



LT913

Bulb W3W (T10) not included



LT914

Bulb W3W (T10) not included



LT915

Bulb W3W (T10) not included



LT916 with mounting bracket

Bulb W3W (T10) not included


LT55

Bulb (R5W BA15s) not included


LT56

Bulb (R5W - BA15s) not included


LT901

Bulb (C5W, 38 mm) not included


LT917 left
LT918 right

Bulb (R4W - BA15s) included


LT919

Bulb (R5W) not included


LT57020

Bulb (C5W, 38 mm) not included

Part nr.	Description	Dimensions	Rating	Approval
LT55	Universal red-clear outline marker, rubber	192 x 66 x 145 mm, 30°	12V	ECE R7
LT56	Universal red-clear outline maker, rubber	177 x 66 x 173 mm, 90°	12V	ECE R7
LT901	Universal red-clear outline maker, with mounting bracket, round reflector and grommet connection	65 x 60 x 40 mm	12V	ECE E3
LT917	Left red-clear-amber outline marker with 1500 mm trailight click cable	174,5 x 34 x 168,5 mm	24V	ECE E9
LT918	Right red-clear-amber outline marker with 1500 mm trailight click cable	174,5 x 34 x 168,5 mm	24V	ECE E9
LT919	Universal red-clear outline marker, with cable connection	185 mm, 60°		ECE E2
LT57020	Universal red-clear outline maker, with mounting bracket, round reflector and grommet connection	44 x 116 x 45,5 mm (incl. bracket)	12V	ECE E3

Interior lights

Part nr.	Description	Dimensions	Rating	Approval
LTL1014	Clear C5W interior light	Ø 74 mm	1x5W	
LTL1015	Red C5W interior light	Ø 74 mm	1x5W	
LT920	Clear C5W interior light with switch	100 x 37 x 25 mm	1x5W	ECE E2
LTL1020	Clear fluorescent interior light with reverse polarity protection	278 x 63,5 x 32,5 mm	24V/6W	ECE E2



LTL1014 clear
LTL1015 red
Bulb 1x C5W



LT920
Clear lens
Bulb 1x C5W
With switch



LTL1020
With fluorescent tube 24V / 6W
With reverse polarity protection

Work lights



LTL0065
Work light
1 H3 bulb



LTL0076
Work/flood light
9 LEDs, 1430 Lm



LTL0077
Work/flood light
9 LEDs, 1430 Lm



LTL0081
Work/flood light
16 LEDs, 2100 Lm



LTL2205
Work/flood light
6 LEDs, 570 Lm

Part nr.	Description	Dimensions	Rating	Lumen	IP protection	Approval
LTL0065	Square work light, 1 H3 bulb	105 x 90 x 105 mm	12-24V		IP67	ECE E9
LTL0076	Round work/flood light, 9 LEDs, 0,3 mtr cable	114 x 34 x 136 mm	12-24V	1430 Lm	IP67	ECE R10
LTL0077	Square work/flood light, 9 LEDs, 0,3 mtr cable	108 x 47 x 128 mm	12-24V	1430 Lm	IP67	ECE R10
LTL0081	Square work/flood light, 16 LEDs, 0,3 mtr cable	108 x 63 x 128 mm	12-24V	2100 Lm	IP67	ECE R10
LTL2205	Round work/flood light, 6 LEDs, 0,4 mtr cable	Ø 118 x 35 mm	12-24V	570 Lm	IP67	ECE R10

Emergency lights - Warning beacons



LTL1406-ALR
LED

Reverse polarity protection



LTL2283-C
Halogen

Reverse polarity protection



LTL0009-ALR
LED

Reverse polarity protection

Part nr.	Description	Dimensions	Rating	Protection	Approval
LTL1406-ALR	Amber emergency light with rubber flexible base, 8 LEDs	127 x 209 mm	12-24V	IP66	ECE R65 / ECE R10
LTL2283-C	Amber emergency light with flexible base, H1 bulb	128 x 275 mm	12-24V	IP65	ECE R65 / ECE R10
LTL0009-ALR	Amber emergency light with micro magnetic base, 40 LEDs, 3 mtrs spiral cable with plug	130 x 95 mm	12-24V	IP66	ECE R65 / ECE R10

Emergency lights - LED mini bars

LTBLK0002 with 1 flashing pattern



LTBLK0008 with 8 flashing patterns



LTBLK0009 with 8 flashing patterns



Part nr.	Description	Dimensions	Rating	Protection	Approval
LTBLK0002	Amber emergency light with magnetic base and 3 mtrs spiral cable with plug, 56 LEDs	95 x 595 x 305 mm	12-24V	IP67	ECE R65 / ECE R10
LTBLK0008	Amber emergency light with screw base and 3 mtrs cable, 144 LEDs	300 x 1172 mm	12-24V	IP66	ECE R65 / ECE R10
LTBLK0009	Amber emergency light with screw base and 3 mtrs cable, 144 LEDs	300 x 1492 mm	12-24V	IP66	ECE R65 / ECE R10

Reflectors

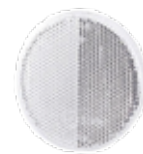


Screw mount:
845 amber
843 red
841 clear



Adhesive:
27P amber
28P red
29P clear

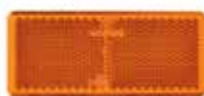
With bolt:
27 amber
28 red
29 clear



Adhesive:
LT038 clear



Part nr. clear	Part nr. red	Part nr. amber	Dimensions	Mounting	Approval
841	843	845	Ø 61 x 6 mm	Screw (1 x M5 hole)	ECE E20 / ECE R3
29P	28P	27P	Ø 74 x 12 mm (85 mm incl. frame)	Adhesive	ECE E20 / ECE R3
29	28	27	Ø 74 x 12 mm (85 mm incl. frame)	Bolt (1 x M6 hole)	ECE E20 / ECE R3
LT038			Ø 79 x 8 mm	Adhesive	ECE E20 / ECE R3
	839		143 x 125 x 6,3 mm	Screw (2 x M5 hole)	ECE E20 / ECE R3
847	849	851	96 x 42 x 6 mm	Screw (2 x M4 hole)	ECE E20 / ECE R3
846	848	850	96 x 42 x 6 mm	Adhesive	ECE E20 / ECE R3



Adhesive:
850 amber
848 red
846 clear

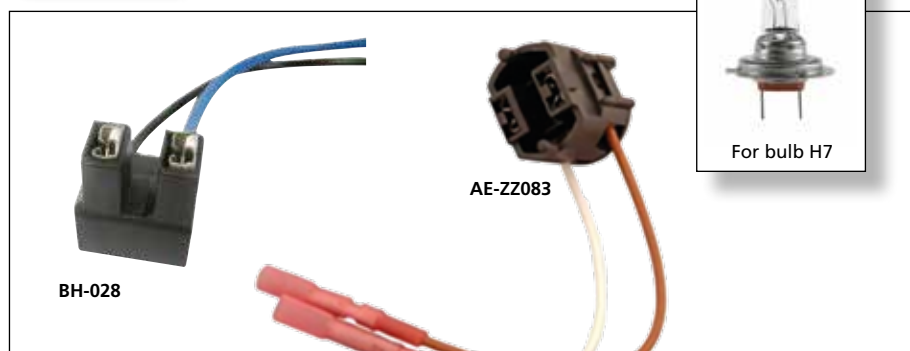
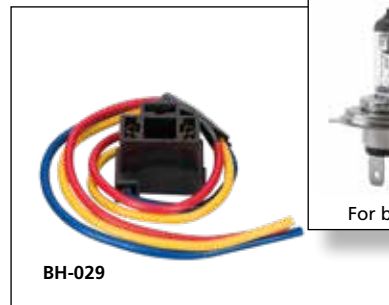
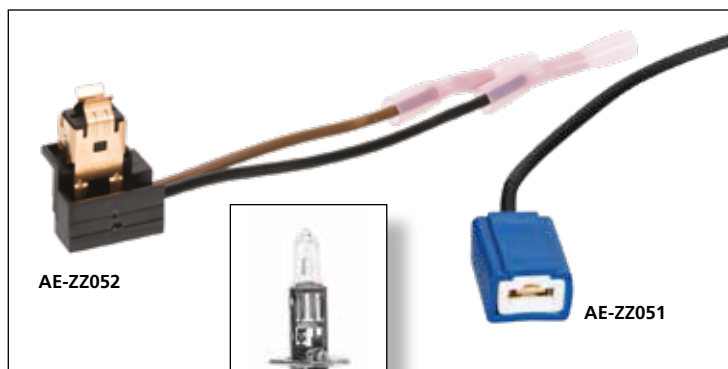


Screw mount
839 red



Screw mount:
851 amber
849 red
847 clear

Pre-wired bulb sockets





AE-ZZ036
Cable 1 mm²/18 AWG



For bulb T5



For bulb T10



AE-ZZ043
Silicone
Cable 1,5 mm²/18 AWG
Resists -40~200°C



AE-ZZ048
Plastic
Cable 1,5 mm²/16 AWG



AE-ZZ016
Screw fastening



AE-ZZ017
With mounting bracket
Screw fastening



For bulb BA15d



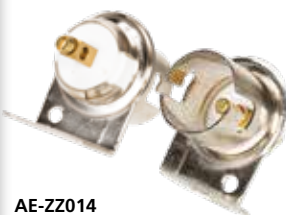
AE-ZZ029
Screw fastening



For bulb BA7s



For bulb BA15s



AE-ZZ014
With mounting bracket
Screw fastening



AE-ZZ022
Screw fastening

Truck & Trailer Parts

Plugs & Sockets

Lighting

Battery

Battery terminals, adaptors & caps	52
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Hose Clamps

Screws, Bolts & Nuts

Wire & Cable

Bundling & Protection

EV Products

Insulated Terminals

Non-Insulated Terminals

Cord End Terminals

Housing

Fuse & Fuse Holders

Relays, Switches

Pilot Lights & Sensors

Wiring Kits

Battery terminals, adaptors & caps

Battery terminals				
Part nr. POS	Part nr. NEG	Description	Fastening	Rating
ACPK003P-8	ACPK003N-8	Zinc coated die-cast brass Nautical Type terminal, 53 x 31 x 34 mm	M8 threaded stud and wing nut + M8 x 25 mm bolt and hex nut	12-24V
ACPK002P-8	ACPK002N-8	Zinc coated die-cast brass Nautical Type terminal, 53 x 31 x 34 mm	M8 threaded stud and nut and washer + M8 x 25 mm bolts with nuts	12-24V, 1000A
ACPK002P-10	ACPK002N-10	Zinc coated die-cast brass Nautical Type terminal, 53 x 31 x 34 mm	M10 threaded stud with nut and washer + M8 x 25 mm bolt with nut	12-24V, 1000A
ACPK102P-10	ACPK102N-10	Zinc coated die-cast brass Nautical Type terminal	M10 metal bearing (no bolt) and nut	12-24V
ACPK010P	ACPK010N	Zinc coated die-cast brass Industrial Type terminal, 53 x 30 x 34 mm	M10 x 16 mm bolt with washer + M8 x 25 mm bolt with nut	12-24V
ACPK014P	ACPK014N	Zinc coated die-cast brass Industrial Type terminal, 56 x 32 x 53 mm	M12 x 16 mm bolt with washer + M8 x 25 mm bolt with nut	12-24V
ACPK004P (red)	ACPK004N (green)	Renault Type terminal	M8 fastening to wire	12-24V
ACPK035P	ACPK036N	Zinc coated die-cast brass terminal, 53 x 43 x 36 mm	M6 x 25 mm bolt with nut + 3xM6 studs for cable lugs, wire range 18 mm ²	12-24V
ACPK001P	ACPK001N	Zinc coated die-cast brass heavy "T" Alpha Type terminal, 56 x 50,2 x 11 mm	M8 x 25 mm bolt with nut + 3xM6 x 14 mm screws, wire range 10-50 mm ²	12-24V
ACPK022P	ACPK022N	Die-cast brass reinforced straight Alpha Type terminal with alloy plate, 51,5 x 35 x 12 mm	M8 x 25 mm bolt with nut + 2xM6 x 14 mm screws, wire range 10-70 mm ²	12-24V
ACPK037P	ACPK037N	Die-cast brass straight Alpha Type terminal, 49 x 30 x 16,6 mm	M8 x 25 mm bolt with nut + 2xM6 x 14 mm screws, wire range 16-25 mm ²	12-24V
ACPK005P	ACPK005N	Die-cast brass standard Alpha Type terminal for European cars with alloy plate	wire range 10-35 mm ²	12V
ACPK008P	ACPK008N	Die-cast brass small Alpha Type terminal for Japanese cars, 48 x 42,5 x 11 mm	M6 x 25 mm bolt with nut + 2xM6 x 14 mm screws, wire range 10-35 mm ²	12V
ACPK012P	ACPK012N	Die-cast brass heavy Alpha Type terminal, 61,2 x 50,6 x 14 mm	M8 x 30 mm bolt with nut + 2xM8 x 16 mm screws, wire range 10-70 mm ²	12-24V
ACPK009P	ACPK009N	Die-cast brass reinforced Alpha Type terminal with alloy plate, 50 x 48,5 x 9,5 mm	M8 x 25 mm bolt with nut + 2xM6 x 14 mm screws with galvanised plate, wire range 10-50 mm ²	12-24V
ACPK017P	ACPK017N	Zinc coated die-cast brass Alpha Type terminal with double plates, 59 x 49 x 13 mm	M8 x 25 mm bolt with nut + 5xM6 x 14 mm screws with dual brass plates, wire range 10-50 mm ²	12-24V
ACPKCUBE101		Terminal for use with CubeOTO fuse, 66,5 x 30 x 16 mm	M8 bolt with insulating washer and self-fastening nut, matching covers available	58V Holder for OBFMC series 30A-300A
ACPKCUBE201		Terminal for use with CubeOTO fuse, 57,8 x 24 x 40 mm	M8 bolt with washer (included) M8 insulation nut CF-M8 (sold separately)	58V Holder for OBFMC series 30A-300A
CF-M8		M8 insulation nut to be used with ACPKCUBE201 (not included)		
QLAKR01 (red)	QLAKB01 (blue)	Brass plated steel terminal with quick release polypropylene cap, fits to all SAE and DIN standard 12V batteries	wire range 2-16 mm ²	12V up to 100A
QLAK001		Set of QLAKR01 and QLAKB01 terminals	wire range 2-16 mm ²	12V up to 100A
ACPK102SW		Copper plated zinc alloy Swan Type terminal. Switch off power by turning green knob. Remove knob for anti-theft function 86 x 33,2 x 26,5 (+10) mm	M8 + 32 mm bolt with hex nut + M8 x 22 x 1,2 mm green ABS knob for brass threaded insert	For 12 or 24V top post batteries up to 100A



ACPK003P-8
ACPK003N-8



ACPK002P-8
ACPK002N-8



ACPK002P-10
ACPK002N-10



ACPK102P-10
ACPK102N-10



ACPK010P
ACPK010N



ACPK014P
ACPK014N



ACPK004P
ACPK004N



ACPK035P
ACPK036N



ACPK001P
ACPK001N



ACPK022P
ACPK022N



ACPK037P
ACPK037N



ACPK005P
ACPK005N



ACPK008P
ACPK008N



ACPK012P
ACPK012N



ACPK009P
ACPK009N



ACPK017P
ACPK017N



ACPKCUBE101

CF-M8

ACPKCUBE201

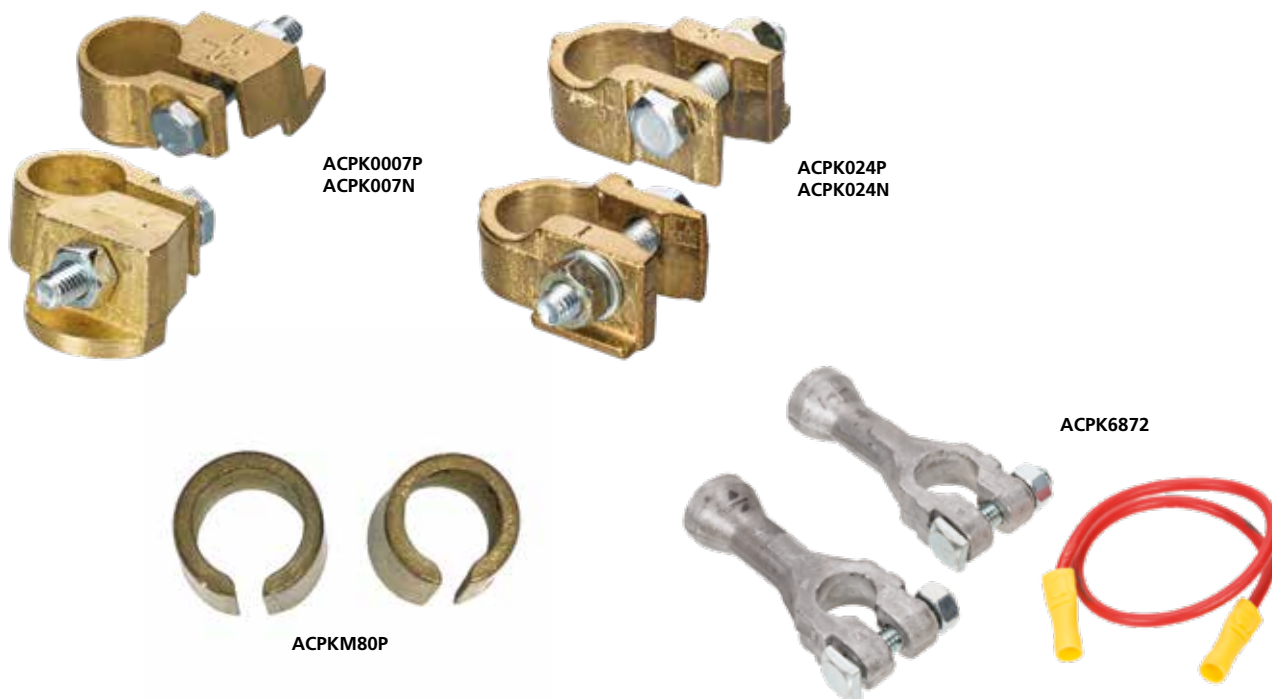


QLAKR01 Red (pos)
QLAKB01 Blue (neg)
QLAK001 Set



ACPK102SW

Battery adaptors		
Part nr. POS	Part nr. NEG	Description
ACPK007P	ACPK007N	Die-cast brass Ford battery adaptor
ACPK024P	ACPK024N	Die-cast brass Ford battery adaptor, tin-plated M6 x 30 mm screw with nut and washer
ACPKM80P		Brass adaptor set (+/-) for adapting Japanese to standard battery poles, inner Ø 11,3 - 13,3 mm and Ø 12,9 - 14,3 mm
ACPK6872		Adaptor kit to convert top post batteries to side terminal batteries Ground cable extension lead included



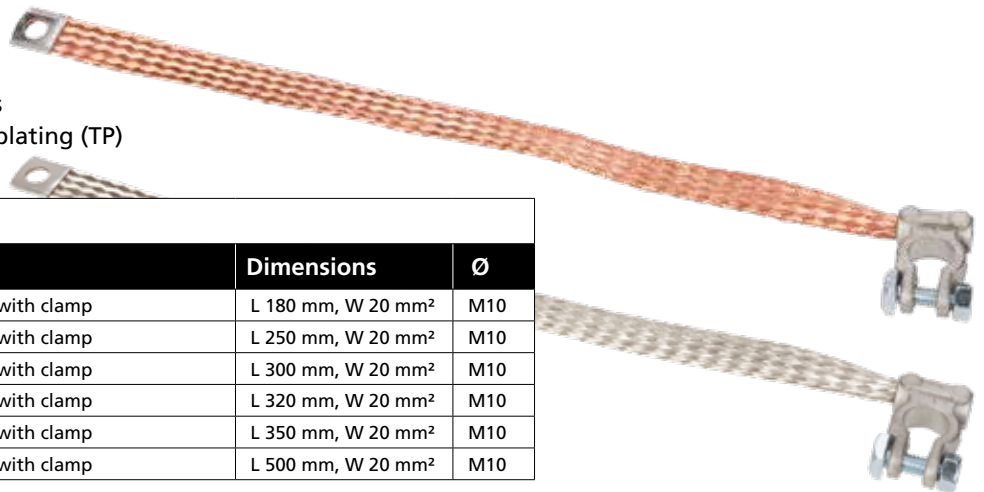
Terminal caps		
Part nr. POS	Part nr. NEG	Description
ADKA001R	ADKA001B	Terminal cap for ACPK010, ACPK014 and ACPK022, lead free plasticized PVC, flame resistant
ADKA002R	ADKA002B	Terminal cap right elbow for ACPK010 and ACPK014, lead free plasticized PVC, flame resistant
ADKA003R	ADKA003B	Terminal cap left elbow for ACPK010 and ACPK014, lead free plasticized PVC, flame resistant



Mass connection



- Suitable for larger cars and vans
- Available with and without tin plating (TP)



BATTERY

Battery mass strips - 20mm²

Part nr.	Description	Dimensions	Ø
MS20.180.212010	Copper braid with clamp	L 180 mm, W 20 mm ²	M10
MS20.250.212010	Copper braid with clamp	L 250 mm, W 20 mm ²	M10
MS20.300.212010	Copper braid with clamp	L 300 mm, W 20 mm ²	M10
MS20.320.212010	Copper braid with clamp	L 320 mm, W 20 mm ²	M10
MS20.350.212010	Copper braid with clamp	L 350 mm, W 20 mm ²	M10
MS20.500.212010	Copper braid with clamp	L 500 mm, W 20 mm ²	M10

Battery mass strips - 25 mm²

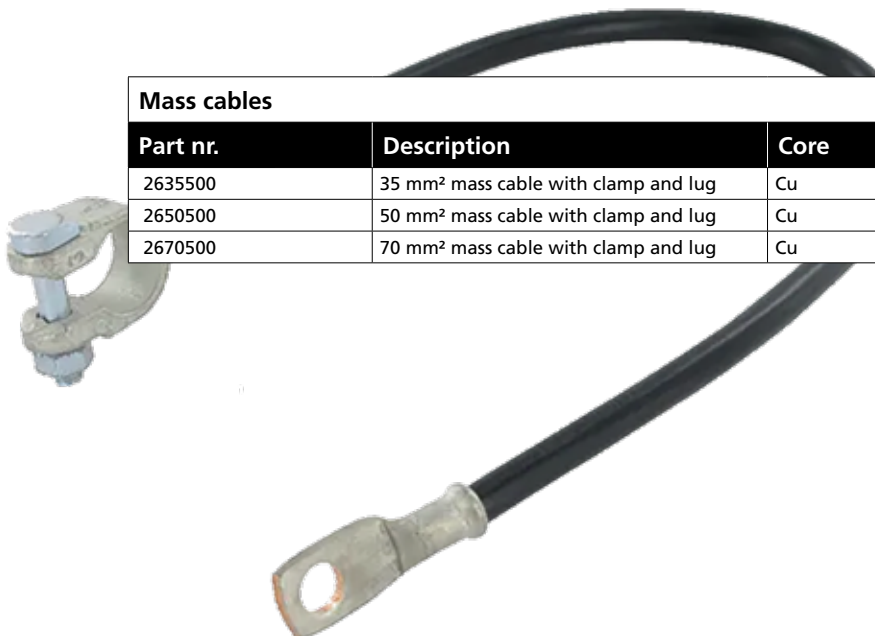
Part nr. natural	Part nr. tin coated	Description	Dimensions	Ø
MS25.200.21205	MS25.200.21205TP	Copper braid with clamp	L 200 mm W 25mm ²	M10
MS25.250.21205	MS25.250.21205TP	Copper braid with clamp	L 250 mm W 25mm ²	M10
MS25.300.21205	MS25.300.21205TP	Copper braid with clamp	L 300 mm W 25mm ²	M10
MS25.350.21205	MS25.350.21205TP	Copper braid with clamp	L 350 mm W 25mm ²	M10
MS25.400.21205	MS25.400.21205TP	Copper braid with clamp	L 400 mm W 25mm ²	M10
MS25.500.21205	MS25.500.21205TP	Copper braid with clamp	L 500 mm W 25mm ²	M10
MS25.600.21205	MS25.600.21205TP	Copper braid with clamp	L 600 mm W 25mm ²	M10

Battery mass strips - 50 mm²

Part nr. natural	Part nr. tin coated	Description	Dimensions	Ø
MS50.500.212010	MS50.500.21205TP	Copper braid with clamp	L 500 mm W 50mm ²	M10

Mass cables

Part nr.	Description	Core	Lenght	Ø lug hole mm
2635500	35 mm ² mass cable with clamp and lug	Cu	500	8
2650500	50 mm ² mass cable with clamp and lug	Cu	500	10
2670500	70 mm ² mass cable with clamp and lug	Cu	500	10



Mass connection strips - 10 mm²

Part nr. natural	Part nr. tin coated	Description	Dimensions	Ø
MVS10.180.008		Copper braid	L 180 mm W 10 mm ²	M8
MVS10.180.010		Copper braid	L 180 mm W 10 mm ²	M10
MVS10.280.008	MVS10.280.008TP	Copper braid	L 280 mm W 10 mm ²	M8
MVS10.400.008	MVS10.400.008TP	Copper braid	L 400 mm W 10 mm ²	M8
MVS10.400.010		Copper braid	L 400 mm W 10 mm ²	M10

Mass connection strips - 16 mm²

Part nr. natural	Description	Dimensions	Ø
MVS16.150.010	Copper braid	L 150 mm W 16 mm ²	M10
MVS16.200.010	Copper braid	L 200 mm W 16 mm ²	M10
MVS16.250.010	Copper braid	L 250 mm W 16 mm ²	M10

Mass connection strips - 20 mm²

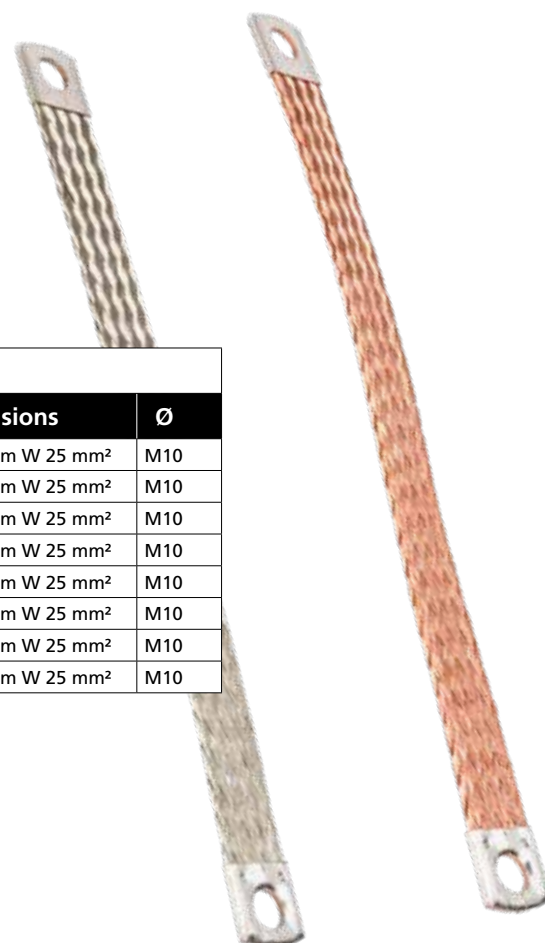
Part nr. natural	Description	Dimensions	Ø
MVS20.200.010	Copper braid	L 200 mm W 20 mm ²	M10
MVS20.250.010	Copper braid	L 250 mm W 20 mm ²	M10

Mass connection strips - 25 mm²

Part nr. natural	Part nr. tin coated	Description	Dimensions	Ø
MVS25.150.010		Copper braid	L 150 mm W 25 mm ²	M10
	MVS25.200.010TP	Copper braid	L 200 mm W 25 mm ²	M10
MVS25.250.010	MVS25.250.010TP	Copper braid	L 250 mm W 25 mm ²	M10
MVS25.300.010	MVS25.300.010TP	Copper braid	L 300 mm W 25 mm ²	M10
MVS25.350.010	MVS25.350.010TP	Copper braid	L 350 mm W 25 mm ²	M10
MVS25.400.010	MVS25.400.010TP	Copper braid	L 400 mm W 25 mm ²	M10
MVS25.450.010	MVS25.450.010TP	Copper braid	L 450 mm W 25 mm ²	M10
MVS25.500.010	MVS25.500.010TP	Copper braid	L 500 mm W 25 mm ²	M10

Mass connection strips - 50 mm²

Part nr. natural	Description	Dimensions	Ø
MVS50.300.010	Copper braid	L 300 mm W 50 mm ²	M10



Also available

MKRMS001
Earth clamping ring
With tab terminal connection
Inner Ø 18,3 mm, outer Ø 26 mm



Booster cables

- All booster cables come in a round zipper bag

Part nr.	Description	Rating	Length	Approval
STKA001	16 mm ² copper core cable with device for electronic protection and fully insulated copper clad steel clamps	220A@12-24V	3 mtrs	WEEE
STKA002	25 mm ² copper core cable with device for electronic protection and fully insulated copper clad steel clamps	360A@12-24V	3,5 mtrs	WEEE
STKA003	35 mm ² copper core cable with device for electronic protection and half-insulated zinc clad steel clamps	400A@12-24V	5 mtrs	WEEE
STKA210	3,64 mm ² CCA core cable with half-insulated zinc clad steel clamps	100A@6-12V	2,5 mtrs	CE
STKA211	6,64 mm ² CCA core cable with half-insulated zinc clad steel clamps	150A@6-12V	3 mtrs	
STKA212	16 mm ² CCA core cable with half-insulated zinc clad steel clamps	300A@12-24V	2,3 mtrs	CE
STKA213	25 mm ² CCA core cable with half-insulated zinc clad steel clamps	400A@12-24V	2,5 mtrs	WEEE, CE
STKA214	35 mm ² CCA core cable with half-insulated zinc clad steel clamps	500A@12-24V	3,5 mtrs	WEEE, CE



STKA001
With device for electronic protection



STKA002
With device for electronic protection



STKA003
With device for electronic protection



STKA210 100A 2,5 mtrs
STKA211 150A 3 mtrs
STKA212 300A 2,3 mtrs



STKA213



STKA214

Round zipper bag

The zipper bag is customizable on request. Please contact our Sales Department for more information.



Battery clamps

Alligator clips - Insulated

Part nr. POS	Part nr. NEG	Rating	Wire range	Description
ACLK001R	ACLK001B	5A	4 mm ²	Nickel plated steel with nylon insulation
ACLK011R	ACLK011B	3A	0,5 - 1,0 mm ²	Nickel plated steel with vinyl insulation
ACLK111R	ACLK111B	20A	1,5 mm ²	Nickel plated steel with vinyl insulation



Alligator clips - Non-insulated

Part nr.	Rating	Wire range	Description
AC001	5A	4 mm ²	Nickel plated steel
ACLK002	50A	5 mm ²	Nickel plated steel



Battery clamps

Part nr. POS	Part nr. NEG	Rating	Wire range	Description
ACLK003R	ACLK003B	40A	4 - 6 mm ²	Zinc plated steel with PVC insulation
ACLK004R	ACLK004B	60A	4 - 6 mm ²	Zinc plated steel with PVC insulation
ACLK005R	ACLK005B	90A	4 - 10 mm ²	Zinc plated steel with PVC insulation
ACLK006R	ACLK006B	120A	10 - 25 mm ²	Zinc plated steel with PVC insulation
ACLK007P	ACLK007N	125A	10 - 16 mm ²	Zinc plated steel with full PP HD insulation
ACLK008R	ACLK008B	800A	35 - 50 mm ²	Die-cast brass with PP HD insulation, bent mouth and braided copper mass strip
ACLK108R	ACLK108B	800A	35 - 50 mm ²	Die-cast brass with PP HD insulation and bent mouth
ACLK208R	ACLK208B	800A	35 - 50 mm ²	Die-cast brass with full PP HD insulation and bent mouth
ACLK308R	ACLK308B	800A	35 - 50 mm ²	Die-cast brass with full PP HD insulation, bent mouth and braided copper mass strip
ACLK009R	ACLK009B	400A	35 - 50 mm ²	Zinc plated steel with PVC insulation
ACLK209R	ACLK209B	350A	25 mm ²	Die-cast brass with PVC-160 insulation
ACLK010R	ACLK010B	180A	16 - 25 mm ²	Zinc plated steel with full PVC insulation
ACLK210R	ACLK210B	350A	16 - 25 mm ²	Die-cast brass with full Lupolen 3010-D insulation
ACLK211R	ACLK211B	600A	35 - 50 mm ²	Die-cast brass with PVC-160 insulation and braided copper mass strip
ACLK012R	ACLK012B	600A	25 - 35 mm ²	Zinc plated steel with PVC insulation, bent mouth & braided copper mass strip
ACLK014R	ACLK014B	200A	10 - 16 mm ²	Die-cast brass with PVC insulation
ACLK015R	ACLK015B	400A	25 - 35 mm ²	Die-cast brass with PVC insulation
ACLK016R	ACLK016B	500A	35 - 50 - 70 mm ²	Die-cast brass with PVC insulation
BLKL001P	BLKL001N	500A	35 - 50 mm ²	Zinc plated steel with PVC insulation and braided copper mass strip
BLKL101P	BLKL101N	650A	25 - 35 mm ²	Die-cast brass with full PP HD insulation and bent mouth





ACLK006R
ACLK006B



ACLK007P
ACLK007N



ACLK008R
ACLK008B
With braided copper
mass strip



ACLK108R
ACLK108B



ACLK208R
ACLK208B



ACLK308R
ACLK308B
With braided copper
mass strip



ACLK009R
ACLK009B



ACLK209R
ACLK209B



ACLK010R
ACLK010B



ACLK210R
ACLK210B



ACLK211R
ACLK211B
With braided copper
mass strip



ACLK012R
ACLK012B



ACLK014R
ACLK014B



ACLK015R
ACLK015B



ACLK016R
ACLK016B



BLKL001P
BLKL001N
With braided copper
mass strip



BLKL101P
BLKL101N

Circuit breakers

- Helps prevent battery drain when storing & repairing cars/trucks



KEY001

Part nr.	Rating	Contacts	IP	Remarks
STAS001	500A@12Vdc intermittent 100A@12Vdc continuous	M8 screw contacts, copper Length 25,1 mm		Light duty, with waterproof rubber cover Key removable in Off-position
KEY001				Spare key for STAS001
STAS002	800A@12Vdc intermittent 300A@12Vdc continuous	M10 screw contacts, copper Length 14,7 mm		With 2 keys Key removable in Off-position
STAS003	800A@12Vdc intermittent 300A@12Vdc continuous	M10 screw contacts, copper Length 14,7 mm		With waterproof rubber cover Key removable in Off-position
STAS004	800A@12Vdc intermittent 300A@12Vdc continuous	M10 screw contacts, copper Length 24,2 mm		Key removable in Off-position
STAS005	800A@12Vdc intermittent 300A@12Vdc continuous	M10 screw contacts, copper Length 24,2 mm		With waterproof rubber cover Key removable in Off-position
STAS006	800A@12Vdc intermittent 300A@12Vdc continuous	M10 screw contacts, copper Length 25 mm		Red T-handle not removable Zinc housing
STAS007	800A@12Vdc intermittent 300A@12Vdc continuous	M10 screw contacts, copper Length 25 mm		Red T-handle not removable Zinc housing with white paint coating
STAS008	800A@12Vdc intermittent 300A@12Vdc continuous	M10 screw contacts, copper Length 32 mm		Red T-handle not removable Zinc housing with white paint coating
STAS009	800A@12Vdc intermittent 300A@12Vdc continuous	M10 screw contacts, copper Length 32 mm		Black T-handle not removable Zinc housing with white paint coating
STAS010	100A@12-24Vdc continuous	M10 screw contacts and 6.4 mm tab contacts, copper		With waterproof rubber cover Key removable in Off-position
STAS011	1500A@12Vdc cranking 450A@12Vdc intermittent 300A@12Vdc continuous	M10 screw contacts, copper Length 31 mm	IP56	Heavy duty, dual circuit, ignition protected
STAS012	1500A@12Vdc cranking 450A@12Vdc intermittent 300A@12Vdc continuous	M10 screw contacts, copper Length 31 mm	IP56	Heavy duty, dual circuit, ignition protected Removable key in off position



STAS001



STAS002
with 2 keys



STAS003



STAS004



STAS005



STAS006



STAS007



STAS008



STAS009



STAS010



STAS011



STAS012

Truck & Trailer Parts

Plugs & Sockets

Lighting

Battery

Hose Clamps

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Screws, Bolts & Nuts

Wire & Cable

Bundling & Protection

VE Products

Insulated Terminals

Non-insulated Terminals

Cord and Terminal

Housing

se Holders

Relays, Switches, &

Pilot Lights & B

Wormdrive clamps - ST series W1

This strong wormdrive clamp is suitable for high torque loads and complies with standard SS 2298. This clamp is not only very robust, but it will also last much longer compared to classic electroplating protection. The band with rolled-up edges ensures perfect clamping on the hose without damaging it. The compact screw and ratchet assembly and also the housing made from a drawn tube make this clamp highly torsion-resistant. The hexagonal head C7 allows standard tools to be used for mounting and removal.

- Material: Mild steel, all parts zinc plated
- Fastening: 7 mm hex head
- Industry recommendations: Agricultural applications, automotive industry and aftermarket, industrial sector hardware, DIY
- Quality assurance: SS 2298, DIN 3017-1

Part nr.	Adjustment mm	Max. advised torque Nm	Band width mm	Band thickness mm	Packed
BHC1-0814	8 - 14	3,0	9,0	0,5 - 1	50
BHC1-1117	11 - 17	3,0	9,0	0,5 - 1	50
BHC1-1320	13 - 20	3,0	9,0	0,5 - 1	50
BHC1-1525	15 - 25	5,0	12,0	0,5 - 1	50
BHC1-1929	19 - 29	5,0	12,0	0,5 - 1	50
BHC1-2232	22 - 32	5,0	12,0	0,5 - 1	50
BHC1-2638	26 - 38	5,0	12,0	0,5 - 1	50
BHC1-3244	32 - 44	5,0	12,0	0,5 - 1	50
BHC1-3850	38 - 50	5,0	12,0	0,5 - 1	50
BHC1-4456	44 - 56	5,0	12,0	0,5 - 1	50
BHC1-5065	50 - 65	5,0	12,0	0,5 - 1	50
BHC1-5875	58 - 75	5,0	12,0	0,5 - 1	50
BHC1-6885	68 - 85	5,0	12,0	0,5 - 1	10
BHC1-7795	77 - 95	5,0	12,0	0,5 - 1	10
BHC1-87112	87 - 112	5,0	12,0	0,5 - 1	10
BHC1-104138	104 - 138	5,0	12,0	0,5 - 1	10
BHC1-130165	130 - 165	5,0	12,0	0,5 - 1	10
BHC1-155180	155 - 180	5,0	12,0	0,5 - 1	10
BHC1-175205	175 - 205	5,0	12,0	0,5 - 1	10
BHC1-200231	200 - 231	5,0	12,0	0,5 - 1	10
BHC1-226256	226 - 256	5,0	12,0	0,5 - 1	10

Hose clamp ST series W1 assortment

ASS-HCST001

77 pcs - 10 compartments
incl. tool



1 x screw driver

12 x BHC1-0814
13 x BHC1-1117
13 x BHC1-1320
10 x BHC1-1525
10 x BHC1-1929
7 x BHC1-2232
7 x BHC1-2638
4 x BHC1-3244



Wormdrive clamps - G series W4/A2

This clamp complies with standard SS 2298. It is only produced in stainless steel 300 series. This clamp is equipped with a stamped band with rolled-up edges, which allow perfect clamping on the hose without damaging it. This clamp will withstand high torsional levels and does not deform under the axial and radial forces that occur during clamping. The hexagonal head C7 allows standard tools to be used for mounting and removal.

- **Material:** Stainless steel 300 series
- **Fastening:** 7 mm hex head
- **Industry recommendations:** Agricultural applications, automotive industry and aftermarket, industrial sector hardware, marine, oil, gas and food sectors and applications where higher corrosion resistance is required
- **Quality assurance:** SS 2298, DIN 3017-1



Part nr.	Adjustment mm	Max. advised torque Nm	Band width mm	Band thickness mm	Packed
BHC4-814	8 - 14	3,0	9,0	0,5 - 1	50
BHC4-1117	11 - 17	3,0	9,0	0,5 - 1	50
BHC4-1320	13 - 20	3,0	9,0	0,5 - 1	50
BHC4-1525	15 - 25	5,0	12,0	0,5 - 1	50
BHC4-1929	19 - 29	5,0	12,0	0,5 - 1	50
BHC4-2232	22 - 32	5,0	12,0	0,5 - 1	50
BHC4-2638	26 - 38	5,0	12,0	0,5 - 1	50
BHC4-3244	32 - 44	5,0	12,0	0,5 - 1	50
BHC4-3850	38 - 50	5,0	12,0	0,5 - 1	50
BHC4-12040060	40 - 60	5,0	12,0	0,5 - 1	50
BHC4-4456	44 - 56	5,0	12,0	0,5 - 1	50
BHC4-5065	50 - 65	5,0	12,0	0,5 - 1	50
BHC4-5875	58 - 75	5,0	12,0	0,5 - 1	10
BHC4-6885	68 - 85	5,0	12,0	0,5 - 1	10
BHC4-7795	77 - 95	5,0	12,0	0,5 - 1	10
BHC4-87112	87 - 112	5,0	12,0	0,5 - 1	10
BHC4-104138	104 - 138	5,0	12,0	0,5 - 1	10
BHC4-130165	130 - 165	5,0	12,0	0,5 - 1	10
BHC4-155180	155 - 180	5,0	12,0	0,5 - 1	10
BHC4-175205	175 - 205	5,0	12,0	0,5 - 1	10
BHC4-200231	200 - 231	5,0	12,0	0,5 - 1	10
BHC4-226256	226 - 256	5,0	12,0	0,5 - 1	10
BHC4-251282	251 - 282	5,0	12,0	0,5 - 1	10
BHC4-277307	277 - 307	5,0	12,0	0,5 - 1	10
BHC4-302325	302 - 325	5,0	12,0	0,5 - 1	10
BHC4-321350	321 - 350	5,0	12,0	0,5 - 1	10
BHC4-346375	346 - 375	5,0	12,0	0,5 - 1	10
BHC4-396425	396 - 425	5,0	12,0	0,5 - 1	10
BHC4-421450	421 - 450	5,0	12,0	0,5 - 1	10

Wormdrive clamps - DD series W2 (12 mm)

This wormdrive clamp has a 12 mm wide band. It is manufactured in compliance with the European Standard DIN 3017-1, ensuring that the hose joins the connecting pipe end in a perfect tight fit.

The band is pressed, non-perforated, folded up at the edges and has smooth inner surface. This allows the avoidance of hose damage. This clamp resists large torsional forces well and is not deformed due to the axial and radial forces acting during tightening.

- Material: Chrome steel AISI 430 (band & house), zinc plated screw
- Fastening: 7 mm hex head
- Industry recommendations: Agricultural applications, automotive industry and aftermarket, industrial sector hardware, DIY
- Quality assurance: DIN 3017-1

Part nr.	Adjustment mm	Max. advised torque Nm	Band width mm	Band thickness mm	Packed
BHC2-12016025	16 - 25	5,0	12,0	0,5 - 1	50
BHC2-12020032	20 - 32	5,0	12,0	0,5 - 1	50
BHC2-12025040	25 - 40	5,0	12,0	0,5 - 1	50
BHC2-12032050	32 - 50	5,0	12,0	0,5 - 1	50
BHC2-12040060	40 - 60	5,0	12,0	0,5 - 1	50
BHC2-12050070	50 - 70	5,0	12,0	0,5 - 1	50
BHC2-12060080	60 - 80	5,0	12,0	0,5 - 1	50
BHC2-12070090	70 - 90	5,0	12,0	0,5 - 1	10
BHC2-12080100	80 - 100	5,0	12,0	0,5 - 1	10
BHC2-12090110	90 - 110	5,0	12,0	0,5 - 1	10
BHC2-12100120	100 - 120	5,0	12,0	0,5 - 1	10
BHC2-12110130	110 - 130	5,0	12,0	0,5 - 1	10
BHC2-12120140	120 - 140	5,0	12,0	0,5 - 1	10
BHC2-12130150	130 - 150	5,0	12,0	0,5 - 1	10
BHC2-12140160	140 - 160	5,0	12,0	0,5 - 1	10
BHC2-12150170	150 - 170	5,0	12,0	0,5 - 1	10
BHC2-12160180	160 - 180	5,0	12,0	0,5 - 1	10
BHC2-12170190	170 - 190	5,0	12,0	0,5 - 1	10
BHC2-12180200	180 - 200	5,0	12,0	0,5 - 1	10
BHC2-12190210	190 - 210	5,0	12,0	0,5 - 1	10
BHC2-12200220	200 - 220	5,0	12,0	0,5 - 1	10



Wormdrive clamps - D series W2 (9 mm)

The band of this clamp is 9 mm wide, manufactured in compliance with the European Standard DIN 3017-1. This standard guarantees that the hose joins the connecting pipe end in a perfect tight fit. The band is pressed, non-perforated, folded up at the edges and has smooth inner surface. This allows the avoidance of hose damage. This wormdrive clamp resists large torsional forces well and is not deformed due to the radial and axial forces during fixing.

- **Material:** Chrome steel AISI 430 (band & house), zinc plated screw
- **Fastening:** 7 mm hex head
- **Industry recommendations:** Designed for the automotive aftermarket to comply with DIN 3017-1. Also suited for other applications where space or weight is restricted in e.g. agriculture applications, the industrial sector, hardware and DIY.
- **Quality assurance:** DIN 3017-1



Part nr.	Adjustment mm	Max. advised torque Nm	Band width mm	Band thick- ness mm	Packed
MHC2-09008012	8 - 12	3,0	9,0	0,5 - 1	50
MHC2-09010016	10 - 16	3,0	9,0	0,5 - 1	50
MHC2-09012020	12 - 20	3,0	9,0	0,5 - 1	50
MHC2-09016025	16 - 25	3,0	9,0	0,5 - 1	50
MHC2-09020032	20 - 32	3,0	9,0	0,5 - 1	50
MHC2-09025030	25 - 30	3,0	9,0	0,5 - 1	50
MHC2-09032050	32 - 50	3,0	9,0	0,5 - 1	50
MHC2-09040060	40 - 60	3,0	9,0	0,5 - 1	50
MHC2-09050070	50 - 70	3,0	9,0	0,5 - 1	50
MHC2-09060080	60 - 80	3,0	9,0	0,5 - 1	50
MHC2-09070090	70 - 90	3,0	9,0	0,5 - 1	10
MHC2-09080100	80 - 100	3,0	9,0	0,5 - 1	10
MHC2-09090110	90 - 110	3,0	9,0	0,5 - 1	10
MHC2-09100120	100 - 120	3,0	9,0	0,5 - 1	10
MHC2-09110130	110 - 130	3,0	9,0	0,5 - 1	10
MHC2-09120140	120 - 140	3,0	9,0	0,5 - 1	10
MHC2-09130150	130 - 150	3,0	9,0	0,5 - 1	10
MHC2-09140160	140 - 160	3,0	9,0	0,5 - 1	10
MHC2-09150170	150 - 170	3,0	9,0	0,5 - 1	10
MHC2-09160180	160 - 180	3,0	9,0	0,5 - 1	10
MHC2-09170190	170 - 190	3,0	9,0	0,5 - 1	10
MHC2-09180200	180 - 200	3,0	9,0	0,5 - 1	10
MHC2-09190210	190 - 210	3,0	9,0	0,5 - 1	10
MHC2-09200220	200 - 220	3,0	9,0	0,5 - 1	10

Wormdrive clamps - D series W4/A2 (9 mm)

The band of this clamp is 9 mm wide, manufactured in compliance with the European Standard DIN 3017-1. This standard guarantees that the hose joins the connecting pipe end in a perfect tight fit. The band is pressed, non-perforated, folded up at the edges and has smooth inner surface. This allows the avoidance of hose damage. This wormdrive clamp resists large torsional forces well and is not deformed due to the radial and axial forces during fixing.

- Material: Stainless steel 300 series
- Fastening: 7 mm hex head
- Industry recommendations: Used in the marine, oil, gas and food sectors, as well as agricultural, hardware and industrial sectors, where higher corrosion resistance is required, but space and/or weight are at a premium
- Quality assurance: DIN 3017-1



Part nr.	Adjustment mm	Max. advised torque Nm	Band width mm	Band thickness mm	Packed
MHC4-09008012	8 - 12	3,0	9,0	0,5 - 1	50
MHC4-09010016	10 - 16	3,0	9,0	0,5 - 1	50
MHC4-09012020	12 - 20	3,0	9,0	0,5 - 1	50
MHC4-09016025	16 - 25	3,0	9,0	0,5 - 1	50
MHC4-09020032	20 - 32	3,0	9,0	0,5 - 1	50
MHC4-09025040	25 - 40	3,0	9,0	0,5 - 1	50
MHC4-09032050	32 - 50	3,0	9,0	0,5 - 1	50
MHC4-09040060	40 - 60	3,0	9,0	0,5 - 1	50
MHC4-09050070	50 - 70	3,0	9,0	0,5 - 1	50
MHC4-09060080	60 - 80	3,0	9,0	0,5 - 1	50
MHC4-09070090	70 - 90	3,0	9,0	0,5 - 1	10
MHC4-09080100	80 - 100	3,0	9,0	0,5 - 1	10
MHC4-09090110	90 - 110	3,0	9,0	0,5 - 1	10
MHC4-09100120	100 - 120	3,0	9,0	0,5 - 1	10
MHC4-09110130	110 - 130	3,0	9,0	0,5 - 1	10
MHC4-09120140	120 - 140	3,0	9,0	0,5 - 1	10
MHC4-09130150	130 - 150	3,0	9,0	0,5 - 1	10
MHC4-09140160	140 - 160	3,0	9,0	0,5 - 1	10
MHC4-09150170	150 - 170	3,0	9,0	0,5 - 1	10
MHC4-09160180	160 - 180	3,0	9,0	0,5 - 1	10
MHC4-09170190	170 - 190	3,0	9,0	0,5 - 1	10
MHC4-09180200	180 - 200	3,0	9,0	0,5 - 1	10
MHC4-09190210	190 - 210	3,0	9,0	0,5 - 1	10
MHC4-09200220	200 - 220	3,0	9,0	0,5 - 1	10

Mini clamps - M series W1 (9 mm)

This hose clamp is for a small clamping range and equipped with a short bolt, making it perfectly suitable to clamp hoses with thin walls. such as fuel hoses. It is often called fuel hose clamp. The rounded edge prevents the clamp from shearing into the hose.

- Material: W1: mild steel, all parts zinc plated
- Fastening: M4 screw (7 mm hex head)
- Industry recommendations: Ideal for small bore hoses with relatively low pressures, where little clamping force is required. Used in low pressure applications such as a fuel line
- Quality assurance: DIN 3017-1

Part nr.	Adjustment mm	Max. advised torque Nm	Band width mm	Band thickness mm	Packed
MJU1-09007009	7 - 9	1,0	9,0	0,5 - 1	50
MJU1-09008010	8 - 10	1,0	9,0	0,5 - 1	50
MJU1-09009011	9 - 11	1,0	9,0	0,5 - 1	50
MJU1-09010012	10 - 12	1,0	9,0	0,5 - 1	50
MJU1-09011013	11 - 13	1,0	9,0	0,5 - 1	50
MJU1-09012014	12 - 14	1,0	9,0	0,5 - 1	50
MJU1-09013015	13 - 15	1,0	9,0	0,5 - 1	50
MJU1-09014016	14 - 16	1,0	9,0	0,5 - 1	50
MJU1-09015017	15 - 17	1,0	9,0	0,5 - 1	50
MJU1-09016018	16 - 18	1,0	9,0	0,5 - 1	50
MJU1-09017019	17 - 19	1,0	9,0	0,5 - 1	50
MJU1-09018020	18 - 20	1,0	9,0	0,5 - 1	50



Mini clamps - M series W4/A2 (9 mm)

This hose clamp is for a small clamping range and equipped with a short bolt, making it perfectly suitable to clamp hoses with thin walls. such as fuel hoses. It is often called fuel hose clamp. The rounded edge prevents the clamp from shearing into the hose.

- Material: W4/A2: stainless steel 300 series
- Fastening: M4 screw (7 mm hex head)
- Industry recommendations: Ideal for small bore hoses with relatively low pressures, where little clamping force is required. Used in low pressure applications such as a fuel line
- Quality assurance: DIN 3017-1

Part nr.	Adjustment mm	Max. advised torque Nm	Band width mm	Band thick-ness mm	Packed
MJU4-09007009	7 - 9	1,0	9,0	0,5 - 1	50
MJU4-09008010	8 - 10	1,0	9,0	0,5 - 1	50
MJU4-09009011	9 - 11	1,0	9,0	0,5 - 1	50
MJU4-09010012	10 - 12	1,0	9,0	0,5 - 1	50
MJU4-09011013	11 - 13	1,0	9,0	0,5 - 1	50
MJU4-09012014	12 - 14	1,0	9,0	0,5 - 1	50
MJU4-09013015	13 - 15	1,0	9,0	0,5 - 1	50
MJU4-09014016	14 - 16	1,0	9,0	0,5 - 1	50
MJU4-09015017	15 - 17	1,0	9,0	0,5 - 1	50
MJU4-09016018	16 - 18	1,0	9,0	0,5 - 1	50
MJU4-09017019	17 - 19	1,0	9,0	0,5 - 1	50
MJU4-09018020	18 - 20	1,0	9,0	0,5 - 1	50



Single lip fixing clamps - SL series W1 (13 mm)

Fixing clamps affix hoses, pipes and cables to their proper places. It is also known as duct clamp. The rubber part of the band absorbs vibration and prevents cable damage, while having an added insulating effect. This clamp may also be used without the rubber lining, e.g. when they are intended to conduct electricity.

- **Material:** Mild steel, all parts zinc plated
- **Lining:** Rubber, shore hardness 65 °C ± 5 °C
- **Fastening:** M6 screw
- **Industry recommendations:** Mainly used on air, fluid, gas and steam lines and also suitable for low pressure hydraulic applications. The absence of a screw mechanism allows these clips to be useful on extremely small hoses
- **Quality assurance:** DIN 2768-vL



HOSE CLAMPS

Part nr.	Min Ø	Max Ø	Band width mm	Fastening	Packed
MPC1-13045006	3,20	4,80	13,0	M6	50
MPC1-13055008	4,80	6,40	13,0	M6	50
MPC1-13075010	6,40	7,90	13,0	M6	50
MPC1-13085011	7,90	9,50	13,0	M6	50
MPC1-13095012	9,50	11,10	13,0	M6	50
MPC1-13115014	11,10	12,70	13,0	M6	50
MPC1-13125015	12,70	14,30	13,0	M6	50
MPC1-13135016	14,30	15,90	13,0	M6	50
MPC1-13145017	15,90	17,50	13,0	M6	50
MPC1-13155018	17,50	19,00	13,0	M6	50
MPC1-13165019	19,00	20,60	13,0	M6	50
MPC1-13175020	20,60	22,20	13,0	M6	50
MPC1-13185021	22,20	23,80	13,0	M6	50
MPC1-13195022	23,80	25,40	13,0	M6	50
MPC1-13205023	25,40	27,00	13,0	M6	50
MPC1-13215024	27,00	28,60	13,0	M6	50
MPC1-13245027	28,60	30,20	13,0	M6	50
MPC1-13265029	30,20	31,80	13,0	M6	50
MPC1-13275030	31,80	33,30	13,0	M6	50
MPC1-13285031	33,30	34,90	13,0	M6	50
MPC1-13295032	34,90	36,50	13,0	M6	10
MPC1-13345037	36,50	38,10	13,0	M6	10
MPC1-13395042	38,10	41,00	13,0	M6	10

Single lip fixing clamps - SL series W5/A4 (13 mm)

Fixing clamps affix hoses, pipes and cables to their proper places. It is also known as duct clamp. The rubber part of the band absorbs vibration and prevents cable damage, while having an added insulating effect. This clamp may also be used without the rubber lining, e.g. when they are intended to conduct electricity

- Material: Stainless steel AISI 316
- Lining: Rubber, shore hardness 65 °C ± 5 °C
- Fastening: M6 screw
- Industry recommendations: Mainly used on air, fluid, gas and steam lines and also suitable for low pressure hydraulic applications. The absence of a screw mechanism allows these clips to be useful on extremely small hoses
- Quality assurance: DIN 2768-vL



Part nr.	Min Ø	Max Ø	Band width mm	Fastening	Packed
MPC5-13045006	3,20	4,80	13,0	M6	50
MPC5-13055008	4,80	6,40	13,0	M6	50
MPC5-13075010	6,40	7,90	13,0	M6	50
MPC5-13085011	7,90	9,50	13,0	M6	50
MPC5-13095012	9,50	11,10	13,0	M6	50
MPC5-13115014	11,10	12,70	13,0	M6	50
MPC5-13125015	12,70	14,30	13,0	M6	50
MPC5-13135016	14,30	15,90	13,0	M6	50
MPC5-13145017	15,90	17,50	13,0	M6	50
MPC5-13155018	17,50	19,00	13,0	M6	50
MPC5-13165019	19,00	20,60	13,0	M6	50
MPC5-13175020	20,60	22,20	13,0	M6	50
MPC5-13185021	22,20	23,80	13,0	M6	50
MPC5-13195022	23,80	25,40	13,0	M6	50
MPC5-13205023	25,40	27,00	13,0	M6	50
MPC5-13215024	27,00	28,60	13,0	M6	50
MPC5-13245027	28,60	30,20	13,0	M6	50
MPC5-13265029	30,20	31,80	13,0	M6	50
MPC5-13275030	31,80	33,30	13,0	M6	50
MPC5-13285031	33,30	34,90	13,0	M6	50
MPC5-13295032	34,90	36,50	13,0	M6	10
MPC5-13345037	36,50	38,10	13,0	M6	10
MPC5-13395042	38,10	41,00	13,0	M6	10
MPC5-13605065*	60,50	65,00	13,0	M6	10

* Without rubber

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Cord End Terminals

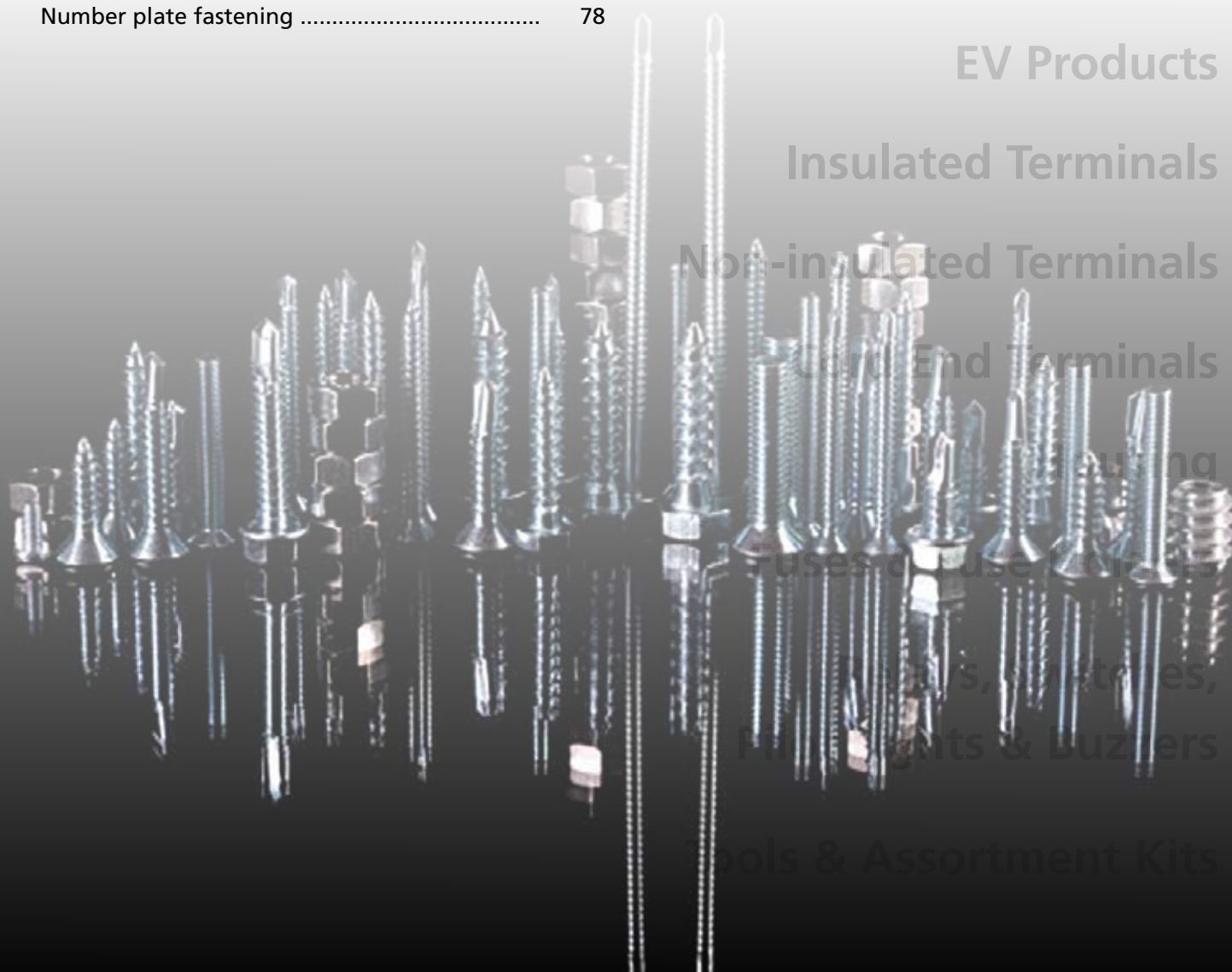
Stripping

Fuses & Fuse Holders

Relays, Switches,

Indicators & Buzzer

Tools & Assortment Kits



Self-drilling screws*

- Zinc plated pan head sheet thread self- drilling screws with Phillips drive
- DIN 7504N, ISO 15481

Part nr.	Size	Head Ø	For sheet metal	Packed
S0336.01.16520	3,5 x 13 mm	6,9 mm	0,7 - 2,25 mm	200
S0336.01.20720	3,9 x 16 mm	7,5 mm	0,7 - 2,4 mm	200
S0336.01.20920	3,9 x 19 mm	7,5 mm	0,7 - 2,4 mm	200
S0336.01.28720	4,2 x 16 mm	8,2 mm	1,75 - 3 mm	200
S0336.01.28920	4,2 x 19 mm	8,2 mm	1,75 - 3 mm	200
S0336.01.36720	4,8 x 16 mm	9,5 mm	1,75 - 4 mm	200
S0336.01.37120	4,8 x 25 mm	9,5 mm	1,75 - 4 mm	200



PHILLIPS



Tapping screws*

- Zinc plated pan head sheet thread screws with Phillips drive
- DIN 7981, ISO 7049

Part nr.	Size	Head Ø	Packed
S0332.01.28720	4,2 x 16 mm	8,2 mm	200
S0332.01.28920	4,2 x 19 mm	8,2 mm	200
S0332.01.36720	4,8 x 16 mm	9,5 mm	200
S0332.01.36920	4,8 x 19 mm	9,5 mm	200
S0332.01.37120	4,8 x 25 mm	9,5 mm	200



PHILLIPS



Machine screws*

- Zinc plated pan head metric thread screws with Phillips drive
- DIN 7985, ISO 7045

Part nr.	Size	Head Ø	Packed
S1632.01.40701	M5 x 16 mm	10 mm	200
S1632.01.41001	M5 x 20 mm	10 mm	200
S1632.01.41601	M5 x 40 mm	10 mm	200



PHILLIPS



Black tapping screws - Flange head long*

- Blackened flange head sheet thread screws with Phillips drive
- DIN 968

Part nr.	Size	Head Ø	Packed
S0335.09.20920	3,9 x 19 mm	10,0 mm	100
S0335.09.28720	4,2 x 16 mm	10,0 mm	100
S0335.09.28920	4,2 x 19 mm	10,0 mm	50
S0335.09.36720	4,8 x 16 mm	11,5 mm	50
S0335.09.36920	4,8 x 19 mm	11,5 mm	50
S0335.09.37120	4,8 x 25 mm	11,5 mm	50



Black tapping screws - Flange head short*

- Blackened flange head sheet thread screws with Phillips drive
- DIN 968C

Part nr.	Size	Packed
S3645.60.39009	3,9 x 9,5 mm	200
S3645.60.39013	3,9 x 13 mm	200
S3645.60.39016	3,9 x 16 mm	200
S3645.60.39019	3,9 x 19 mm	200
S3645.60.39022	3,9 x 22 mm	200
S3645.60.39025	3,9 x 25 mm	200
S3645.60.42009	4,2 x 9,5 mm	200
S3645.60.42013	4,2 x 13 mm	200
S3645.60.42016	4,2 x 16 mm	200
S3645.60.42019	4,2 x 19 mm	200
S3645.60.42022	4,2 x 22 mm	200
S3645.60.42025	4,2 x 25 mm	200
S3645.60.48009	4,8 x 9,5 mm	200
S3645.60.48013	4,8 x 13 mm	200
S3645.60.48016	4,8 x 16 mm	200
S3645.60.48019	4,8 x 19 mm	200
S3645.60.48022	4,8 x 22 mm	200
S3645.60.48025	4,8 x 25 mm	200



Black tapping screws - Pan head*

- Blackened pan head sheet thread screws with Phillips drive
- DIN 7981-CH

Part nr.	Size	Packed
S3640.00.42016	4,2 x 16 mm	200
S3640.00.42019	4,2 x 19 mm	200
S3640.00.48016	4,8 x 16 mm	200
S3640.00.48019	4,8 x 19 mm	200
S3640.00.55016	5,5 x 16 mm	200
S3640.00.55025	5,5 x 25 mm	200



* Other sizes are available on request

Hex bolts

- Zinc plated full metric thread hex bolts, strength class 8.8
- DIN 933, ISO 4017

Part nr.	Size	Packed
S1840.11.40701	M5 x 16 mm	500
S1840.11.41001	M5 x 20 mm	500
S1840.11.48301	M6 x 10 mm	500
S1840.11.48701	M6 x 16 mm	500
S1840.11.49001	M6 x 20 mm	500
S1840.11.49101	M6 x 25 mm	500
S1840.11.49201	M6 x 30 mm	500
S1840.11.49601	M6 x 40 mm	200
S1840.11.60701	M8 x 16 mm	200
S1840.11.61001	M8 x 20 mm	200
S1840.11.61101	M8 x 25 mm	200
S1840.11.61201	M8 x 30 mm	200
S1840.11.61601	M8 x 40 mm	200
S1840.11.61901	M8 x 50 mm	200
S1840.11.62001	M8 x 60 mm	200
S1840.11.69001	M10 x 20 mm	200
S1840.11.69101	M10 x 25 mm	200
S1840.11.69201	M10 x 30 mm	200
S1840.11.69601	M10 x 40 mm	100
S1840.11.69901	M10 x 50 mm	100
S1840.11.73601	M12 x 40 mm	100
S1840.11.73901	M12 x 50 mm	100



Carriage bolts with nut*

- Zinc plated metric thread carriage bolts with nut, strength class 4.8
- DIN 603/555, ISO 8677/4034

Part nr.	Size	Head Ø	Packed
S1990.01.40701	M5 x 16 mm	13,5 mm	200
S1990.01.41001	M5 x 20 mm	13,5 mm	200
S1990.01.41601	M5 x 40 mm	13,5 mm	200
S1990.01.49201	M6 x 30 mm	16,5 mm	200
S1990.01.61601	M8 x 40 mm	20,6 mm	200



Blind rivet bolts

- Zinc plated steel blind rivet bolts, clamping range 0,5 - 3,0 mm

Part nr.	Size	Length	Packed
S7997.50.53015	M5 x 11 mm	14,5 mm	500
S7997.50.63015	M6 x 13 mm	14,5 mm	250



Washers*

- Zinc plated washers
- DIN 125-A, ISO 7089



Part nr.	Size	Inner Ø	Packed
S4010.01.00401	4,3 x 9 x 0,8 mm	M4	250
S4010.01.00501	5,3 x 10 x 1,0 mm	M5	100
S4010.01.00601	6,4 x 12 x 1,6 mm	M6	100
S4010.01.00801	8,4 x 16 x 1,6 mm	M8	100
S4010.01.01001	10,5 x 20 x 2,0 mm	M10	100
S4010.01.01201	13,0 x 24 x 2,5 mm	M12	100

Large washers*

- Zinc plated washer, large



Part nr.	Size	Inner Ø	Packed
S4021.01.00501	5,2 x 20 x 1,0 mm	M5	250
S4021.01.00504	5,2 x 30 x 1,25 mm	M5	100
S4021.01.00601	6,4 x 25 x 1,0 mm	M6	100
S4021.01.00605	6,4 x 20 x 1,25 mm	M6	250
S4021.01.00603	6,4 x 30 x 1,25 mm	M6	100
S4021.01.00801	8,4 x 25 x 1,0 mm	M8	100
S4021.01.00803	8,4 x 30 x 1,25 mm	M8	100
S4021.01.00806	8,4 x 20 x 1,25 mm	M8	250
S4021.01.01002	10,5 x 30 x 1,25 mm	M10	100
S4021.01.01202	13,0 x 30 x 1,25 mm	M12	100

Spring lock washers*

- Zinc plated spring lock washers
- DIN 127-BB



Part nr.	Size	Inner Ø	Packed
S4030.01.00501	5,1 x 9,2 x 1,2 mm	M5	100
S4030.01.00601	6,1 x 11,8 x 1,6 mm	M6	100
S4030.01.00801	8,1 x 14,8 x 2,0 mm	M8	100
S4030.01.01001	10,2 x 18,1 x 2,2 mm	M10	100

Serrated spring lock washers*

- Zinc plated serrated spring lock washers
- DIN 6798-A



Part nr.	Size	Inner Ø	Packed
S4060.01.00601	6,4 x 11 x 0,7 mm	M6	100
S4060.01.00801	8,4 x 15 x 0,8 mm	M8	100

Sealing washers*

- Copper sealing washers
- DIN 7603-A



Part nr.	Size	Packed
S6030.00.60010	6 x 10 x 1,0 mm	100
S6030.00.80012	8 x 12 x 1,0 mm	100
S6030.00.80014	8 x 14 x 1,0 mm	100
S6030.01.00014	10 x 14 x 1,0 mm	100
S6030.01.00016	10 x 16 x 1,0 mm	100
S6030.11.20016	12 x 16 x 1,5 mm	100
S6030.11.20018	12 x 18 x 1,5 mm	100
S6030.11.40020	14 x 20 x 1,5 mm	100
S6030.11.60022	16 x 22 x 1,5 mm	100
S6030.11.80024	18 x 24 x 1,5 mm	50
S6030.21.60022	16 x 22 x 2,0 mm	50

Sealing washers*

- Copper sealing washers
- DIN / ISO 7603-C



Part nr.	Size	Packed
S6033.31.40020	14 x 20 x 2,0 mm	100
S6033.31.60022	16 x 22 x 2,2 mm	100

* Other sizes are available on request

Hex nuts*

- Zinc plated hex nuts
- Strength class 8
- DIN 934 / ISO 4032



Part nr.	Size	Packed
S3511.01.00401	M4 x 3,2 mm	250
S3511.01.00501	M5 x 4 mm	250
S3511.01.00601	M6 x 5 mm	250
S3511.01.00701	M7 x 5,5 mm	250
S3511.01.00801	M8 x 6,5 mm	250
S3511.01.01001	M10 x 8 mm	250
S3511.01.01201	M12 x 10 mm	100

Hex lock nuts with nylon insert*

- Zinc plated hex lock nuts with nylon insert
- Strength class 8
- DIN 985 / ISO 10511



Part nr.	Size	Packed
S3531.01.00501	M5 x 5 mm	250
S3531.01.00601	M6 x 6 mm	250
S3531.01.00801	M8 x 8 mm	250
S3531.01.01001	M10 x 10 mm	200
S3531.01.01201	M12 x 12 mm	200

Hex dome nuts*

- Zinc plated hex dome nuts
- Strength class 6
- DIN 1587



Part nr.	Size	Packed
S3541.01.00501	M5 x 10 mm	200
S3541.01.00601	M6 x 12 mm	200
S3541.01.00801	M8 x 15 mm	200
S3541.01.01001	M10 x 18 mm	100
S3541.01.01201	M12 x 22 mm	100

Flange nuts*

- Zinc plated flange nuts
- Strength class 8
- DIN 6923 / ISO 4161



Part nr.	Size	Packed
S3571.01.00601	M6 x 6 mm	200
S3571.01.00801	M8 x 8 mm	100

Speednuts

- Zinc plated speednuts

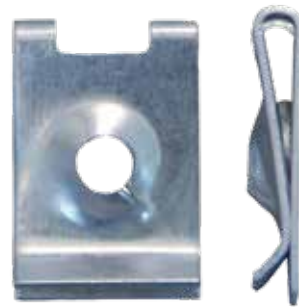
Part nr.	Hole Ø	Size	Packed
S3565.02.16001	3,5 mm	17 x 11 mm	100
S3565.02.28201	4,2 mm	17 x 11 mm	100
S3565.02.36201	4,8 mm	20 x 13 mm	100
S3565.02.44501	5,5 mm	24 x 15 mm	100
S3565.02.52501	6,3 mm	25 x 15 mm	100



Speednuts

- Zinc plated speednuts

Part nr.	Hole Ø	Size	Packed
S8229.30.35001	3,5 mm	16,5 x 11 mm	100
S8229.30.39001	3,9 mm	16,5 x 11 mm	100
S8229.30.42001	4,2 mm	16,5 x 11 mm	100
S8229.30.48001	4,8 mm	16,5 x 11 mm	100
S8229.30.55001	5,5 mm	20,8 x 13 mm	100
S8229.30.63002	6,3 mm	24,8 x 16 mm	100
S8229.30.65001	6,5 mm	26,35 x 16 mm	100



Cotter pins*

- Zinc plated cotter pins
- DIN 94

Part nr.	Size	Packed
S4935.00.16032	1,6 x 32 mm	250
S4935.00.20040	2,0 x 40 mm	250
S4935.00.25040	2,5 x 40 mm	250
S4935.00.32040	3,2 x 40 mm	200
S4935.00.35040	3,5 x 40 mm	250
S4935.00.40032	4,0 x 32 mm	250
S4935.00.40050	4,0 x 50 mm	200
S4935.00.50050	5,0 x 50 mm	200



* Other sizes are available on request

Number plate bolt - Cylinder head*

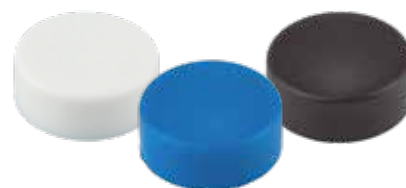
- Zinc plated cylinder head metric thread machine screws with Phillips drive
- With nut, washer and spacer

Part nr.	Size	Packed
S8200.40.60020	M6 x 20 mm	100



Nylon caps for cylinder head bolts

Part nr.	Size	Color	Packed
S8201.90.00001	Inner Ø 11 mm	white	100
S8201.90.00003	Inner Ø 11 mm	blue	100
S8201.90.00012	Inner Ø 11 mm	black	100



Number plate screws - Pan head*

- Zinc plated pan head sheet thread tapping screws with Phillips drive

Part nr.	Size	Packed
S8200.80.48016	4,8 x 16 mm	100
S8200.80.48020	4,8 x 19 mm	100
S8200.80.55019	5,5 x 19 mm	100



Number plate screw - Pan head with ring*

- Zinc plated pan head sheet thread tapping screws with Phillips drive
- With captive ring

Part nr.	Size	Packed
S8202.10.55016	5,5 x 16 mm	100



Number plate screw - Pan head short*

- Zinc plated pan head sheet thread self-drilling screws with Phillips drive

Part nr.	Size	Packed
S8202.10.50016	5,0 x 16 mm	100



Nylon caps for pan head bolts

Part nr.	Size	Color	Packed
S8201.80.00011	Inner Ø 9 mm	white	100
S8201.80.00002	Inner Ø 9 mm	blue	100
S8201.80.00012	Inner Ø 9 mm	black	100
S8201.80.00004	Inner Ø 9 mm	yellow	100



* Other sizes are available on request

Truck & Trailer Parts

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EV Products

Insulated Terminals

Non-insulated Terminals

Core End Terminals

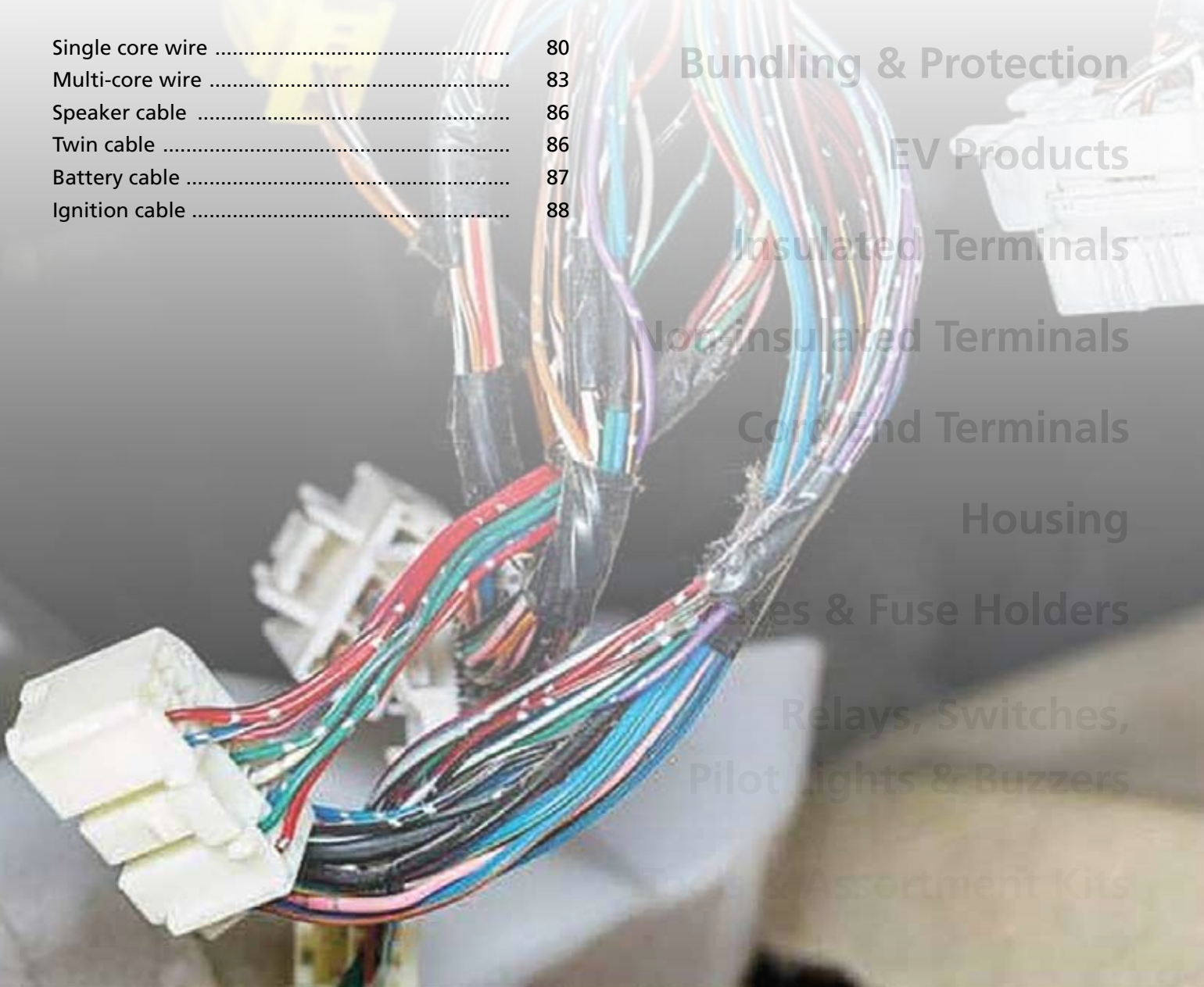
Housing

Fuses & Fuse Holders

Relays, Switches,

Pilot Lights & Buzzers

Assortment Kits



Single core wire (FLRY-B) - Reel/Spool

Stranded wire with or without trace color designed for low voltage installations in motor vehicles. Automobile cable (FL) with reduced thickness of insulation (R), with PVC insulation (Y) and irregularly twisted strands (B).

- Chromium (VI), cadmium, lead and mercury free
- Conductor: Copper wire (Class 5)
- Insulation: PVC T2, black
- Bending radius: 4 x D
- Test voltage: 1000V
- Rated voltage: 60V
- Temperature rating: -40 °C ~ 105 °C
- Quality assurance: DIN / ISO 6722



Solid-colored wire - Reel*

Part nr. without trace color	Wire size mm ²	Nominal conductor construction (wires x mm ²)	Max conductor resistance (Ohm/km)	Outer cable Ø (mm)	Min. insulation thickness (mm)	Color outer insulation	Mtrs/ reel
PE0050Z500RL	0,5	17 x 0,19	37,1	1,6	0,22	black	500
PE0075Z500RL	0,75	27 x 0,19	24,7	1,9	0,24	black	500
PE0100Z500RL	1,0	35 x 0,19	18,5	2,1	0,24	black	500
PE0150Z500RL	1,5	31 x 0,24	12,7	2,4	0,24	black	500
PE0250Z500RL	2,5	54 x 0,24	7,6	3,0	0,28	black	500
PE0075Z100RL	0,75	27 x 0,19	24,7	1,9	0,24	black	100
PE0100Z100RL	1,0	35 x 0,19	18,5	2,1	0,24	black	100
PE0150Z100RL	1,5	31 x 0,24	12,7	2,4	0,24	black	100
PE0250Z100RL	2,5	54 x 0,24	7,6	3,0	0,28	black	100
PE0400Z100RL	4,0	84 x 0,24	4,7	3,7	0,32	black	100
PE0600Z100RL	6,0	130 x 0,24	3,1	4,3	0,32	black	100

Two-colored wire - Reel*

Part nr. without trace color	Wire size mm ²	Nominal conductor construction (wires x mm ²)	Max conductor resistance (Ohm/km)	Outer cable Ø (mm)	Min. insulation thickness (mm)	Color outer insulation	Mtrs/ reel
PE0075BLGRS100RL	0,75	27 x 0,19	24,7	1,9	0,24	blue - grey	100
PE0075BRW100RL	0,75	27 x 0,19	24,7	1,9	0,24	brown - white	100
PE0075OZ100RL	0,75	27 x 0,19	24,7	1,9	0,24	orange - black	100
PE0075WGR100RL	0,75	27 x 0,19	24,7	1,9	0,24	white - green	100
PE0100BLW100RL	1,0	35 x 0,19	18,5	2,1	0,24	blue - white	100
PE0100BRW100RL	1,0	35 x 0,19	18,5	2,1	0,24	brown - white	100
PE0100GRG100RL	1,0	35 x 0,19	18,5	2,1	0,24	green - yellow	100
PE0150BW100RL	1,5	31 x 0,24	12,7	2,4	0,24	blue - white	100
PE0250ZG50RL	2,5	54 x 0,24	7,6	3,0	0,28	black - yellow	50
PE0400GGR100RL	4,0	84 x 0,24	4,7	3,7	0,32	yellow - green	100

*Also available in 5, 10 and 50 m lengths. Most sizes are available in black (Z), blue (B), brown (BR), green (GR), grey (GRS), orange (O), pink (RZ), purple (V), red (R), white (W) and yellow (G). For available trace colors, please contact our Sales Department.

*Most sizes are available in black (Z), blue (B), brown (BR), green (GR), grey (GRS), orange (O), pink (RZ), purple (V), red (R), white (W) and yellow (G). For available trace colors, please contact our Sales Department.

Solid-colored wire - Spool*

Part nr. without trace color	Wire size mm ²	Nominal conductor construction (wires x mm ²)	Max conductor resistance (Ohm/km)	Outer cable Ø (mm)	Min. insulation thickness (mm)	Color insulation	Mtrs/spool
PE0050Z100SP	0,5	17 x 0,19	37,1	1,6	0,22	black	100
PE0075Z100SP	0,75	27 x 0,19	24,7	1,9	0,24	black	100
PE0100Z100SP	1,0	35 x 0,19	18,5	2,1	0,24	black	100
PE0150Z100SP	1,5	31 x 0,24	12,7	2,4	0,24	black	100
PE0250Z100SP	2,5	54 x 0,24	7,6	3,0	0,28	black	100
PE0100Z50SP	1,0	35 x 0,19	18,5	2,1	0,24	black	50
PE0250Z50SP	2,5	54 x 0,24	7,6	3,0	0,28	black	50
PE0400Z50SP	4,0	84 x 0,24	4,7	3,7	0,32	black	50
PE0600Z50SP	6,0	130 x 0,24	3,1	4,3	0,32	black	50

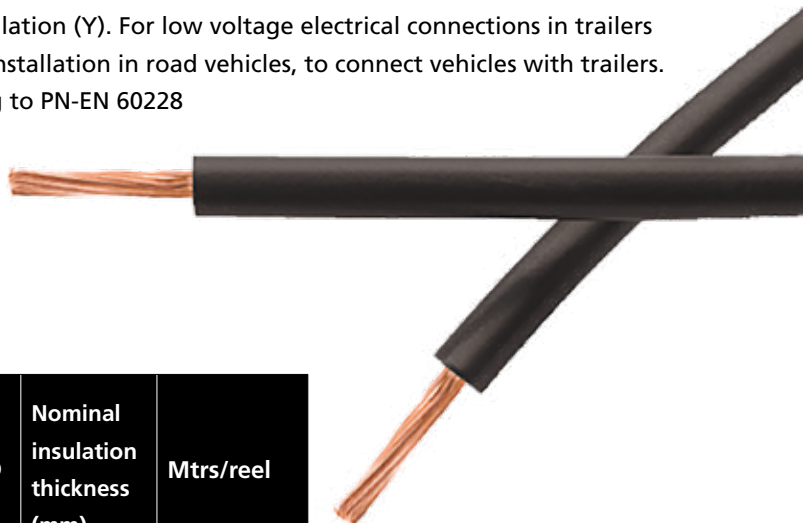
Two-colored wire - Spool*

Part nr. without trace color	Wire size mm ²	Nominal conductor construction (wires x mm ²)	Max conductor resistance (Ohm/km)	Outer cable Ø (mm)	Min. insulation thickness (mm)	Color outer insulation	Mtrs/ reel
PE0050GZ100SP	0,5	17 x 0,19	37,1	1,6	0,22	yellow - black	100
PE0050ZGR100SP	0,5	17 x 0,19	37,1	1,6	0,22	black - green	100
PE0050ZR100SP	0,5	17 x 0,19	37,1	1,6	0,22	black - red	100
PE0075BG100SP	0,75	27 x 0,19	24,7	1,9	0,24	black - yellow	100
PE0075OZ100SP	0,75	27 x 0,19	24,7	1,9	0,24	orange - black	100
PE0075RG100SP	0,75	27 x 0,19	24,7	1,9	0,24	red - yellow	100
PE0075VR100SP	0,75	27 x 0,19	24,7	1,9	0,24	white - red	100
PE0075ZB100SP	0,75	27 x 0,19	24,7	1,9	0,24	black - blue	100
PE0075ZGR100SP	0,75	27 x 0,19	24,7	1,9	0,24	black - green	100
PE0075ZR100SP	0,75	27 x 0,19	24,7	1,9	0,24	black - red	100
PE0100OW100SP	1,0	35 x 0,19	18,5	2,1	0,24	orange - white	100
PE0100OZ100SP	1,0	35 x 0,19	18,5	2,1	0,24	orange - black	100
PE0100ZR100SP	1,0	35 x 0,19	18,5	2,1	0,24	black - red	100
PE0150BLR100SP	1,5	31 x 0,24	12,7	2,4	0,24	blue - red	100
PE0150OZ100SP	1,5	31 x 0,24	12,7	2,4	0,24	orange - black	100
PE0150RB100SP	1,5	31 x 0,24	12,7	2,4	0,24	red - blue	100
PE0150WR100SP	1,5	31 x 0,24	12,7	2,4	0,24	white - red	100
PE0150ZR100SP	1,5	31 x 0,24	12,7	2,4	0,24	black - red	100

Single core cable (FLY) - Reel

Flexible cable with copper strand conductor (FL) and PVC insulation (Y). For low voltage electrical connections in trailers and semi-trailers. Can also be used to perform the electrical installation in road vehicles, to connect vehicles with trailers.

- Conductor: Copper wire (Class 5) according to PN-EN 60228
- Insulation: PVC T11, black
- Bending radius: 4 x D
- Test voltage: 2500V
- Voltage: 220V
- Temperature rating: -40 °C ~ 90 °C
- Quality assurance: ISO 6722 / PN-E-90181



Part nr. without trace color	Wire size mm ²	Nominal conductor construction (wires x mm ²)	Max conductor resistance (Ohm/km)	Outer cable Ø (mm)	Nominal insulation thickness (mm)	Mtrs/reel
W701100501-10	0,5	16 x 0,2	39,0	2,1	0,6	10
W701100751-25	0,75	24 x 0,2	24,7	2,3	0,6	25
W701101501-10	1,5	48 x 0,2	13,3	2,7	0,6	10
W701102501-25	2,5	80 x 0,2	7,6	3,2	0,6	25
W701104001-10	4,0	80 x 0,3	4,7	3,9	0,6	10
W701106001-10	6,0	120 x 0,3 or 78 x 0,3	3,3	4,8	0,6	10
W701110001-10	10,0	313 x 0,2	1,9	6,3	0,8	10
W701116001-10	16,0	512 x 0,2	1,2	7,4	0,8	10
W701125001-10	25,0	836 x 0,2	0,8	9,4	1,0	10
W701135001-5	35,0	1140 x 0,2	0,6	11,5	1,2	5
W701150001-5	50,0	1558 x 0,2	0,4	13,1	1,4	5

Also available in red, white, yellow, green, grey, brown, blue. Please contact our Sales department for more information.

Single core cable (H01N2-D) - Reel

Manufactured according to harmonized norm (H) at rated voltage 100/100V (01) with chloroprene rubber insulation (N2) and wire of normal flexure (D). For direct connection of welding machines with electrode holder.

- Conductor: Copper wire (with plastic foil separator)
- Insulation: Chloroprene rubber EM5, black
- Bending radius: 4 x D
- Test voltage: 1000V
- Rated voltage: 100V
- Temperature rating: -35 °C ~ 80 °C
- Quality assurance: PN-E-50525-2-31

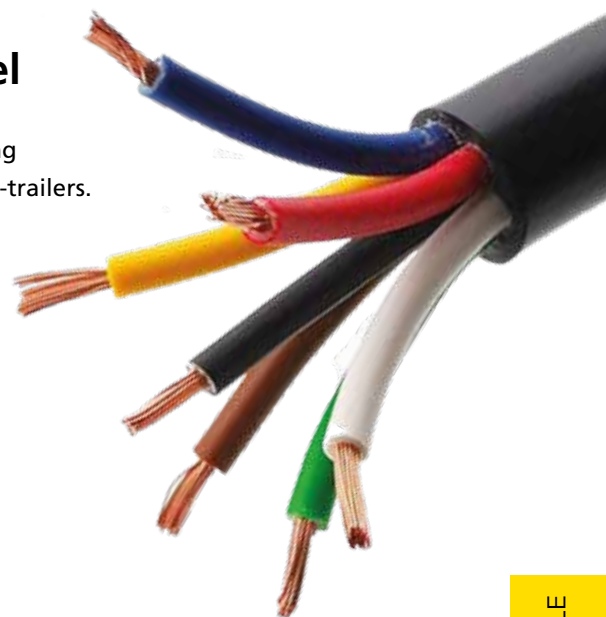


Part nr. without trace color	Wire size mm ²	Nominal conductor construction (wires x mm ²)	Max conductor resistance (Ohm/km)	Outer cable Ø (mm)	Nominal insulation thickness (mm)	Mtrs/reel
W704116001-10	16,0	512 x 0,2	1,2	8,5	2,0	10
W704125001-10	25,0	836 x 0,2	0,8	11,5	2,0	10
W704135001-5	35,0	1140 x 0,2	0,6	12,5	2,0	5
W704150001-5	50,0	1558 x 0,2	0,4	14,2	2,2	5
W704170001-5	70,0	1995 x 0,2	0,3	16,0	2,4	5

Multi-core wire (FLRY-Y) - Round cable - Reel

Automobile cable (FL) with reduced thickness of insulation (R) and PVC coating and insulation (YY), for low-voltage electrical connections in trailers and semi-trailers.

- Chromium (VI), cadmium, lead and mercury free
- Conductor: Stranded copper wire (Class 5)
- Insulation: PVC T2
- Coating: Special PVC, black RAL 9005
- Bending radius: 4 x D
- Test voltage: 1000V
- Rated voltage: 60V
- Temperature rating: -40 °C ~ 105 °C
- Quality assurance: DIN/ISO 6722



Part nr.	Wire size mm ²	Number of cores	Outer cable Ø (mm)	Color coating	Core color								Mtrs/reel
					blue	yellow	black	red	white	green	brown	grey	
PER20075BG100RL	0,75	2	5,1	black	B	G							100
PER20075ZR50RL	0,75	2	5,1	black			Z	R					50
PER20075ZW50RL	0,75	2	5,1	black			Z		W				50
PER20100ZR100RL	1,00	2	5,5	black			Z	R					100
PER20100ZR50RL	1,00	2	5,5	black			Z	R					50
PER20150ZR100RL	1,50	2	6,1	black			Z	R					100
PER20150ZR50RL	1,50	2	6,1	black			Z	R					50
PER20150ZW50RL	1,50	2	6,1	black			Z		W				50
PER20250ZW50RL	2,50	2	7,3	black			Z		W				50
PER30100ZGRR50RL	1,00	3	5,8	black			Z	R		GR			50
PER30100ZGRR25RL	1,00	3	5,8	black			Z	R		GR			25
PER30150ZGRR100RL	1,50	3	6,5	black			Z	R		GR			100
PER30150ZGRR50RL	1,50	3	6,5	black			Z	R		GR			50
PER30150ZWR50RL	1,50	3	6,5	black			Z	R	W				50
PER40075BRGRRW100RL	0,75	4	5,9	black				R	W	GR	BR		100
PER40100BRGRRW50RL	1,00	4	6,4	black				R	W	GR	BR		50
PER40150BRGRRW50RL	1,50	4	7,1	black				R	W	GR	BR		50
PER50075BRGRSRWG100RL	0,75	5	6,4	black		G		R	W		BR	GRS	100
PER50075BRGRSRWG50RL	0,75	5	6,4	black		G		R	W		BR	GRS	50
PER50100BRGRSRWG50RL	1,00	5	7,0	black		G		R	W		BR	GRS	50
PER50150BRGRSRWG50RL	1,50	5	7,8	black		G		R	W		BR	GRS	50
PER70075ZBBRGRRWG100RL	0,75	7	7,0	black	B	G	Z	R	W	GR	BR		100
PER70075ZBBRGRRWG25RL	0,75	7	7,0	black	B	G	Z	R	W	GR	BR		25
PER70100ZBBRGRRWG50RL	1,00	7	8,0	black	B	G	Z	R	W	GR	BR		50
PER70100ZBBRGRRWG25RL	1,00	7	8,0	black	B	G	Z	R	W	GR	BR		25
PER70150ZBBRGRRWG50RL	1,50	7	8,9	black	B	G	Z	R	W	GR	BR		50

Multi-core wire (H03VV-F) - Round cable - Reel

General purpose conductor cable for connecting portable receivers. Manufactured according to harmonized norm (H) at rated voltage 300 (03) with PVC insulation and coating (VV) and stranded copper wire (F).

- Conductor: Copper wire (Class 5) according to PN-EN 60228
- Insulation: PVC TI2
- Coating: PVC TM2
- Bending radius: 3 x D (permanent placement) or 5 x D (free movement)
- Test voltage: 2000V
- Rated voltage: 300V
- Temperature rating: -40 °C ~ 70 °C
- Quality assurance: PN-E-50525-2-11



Part nr. without trace color	Wire size mm ²	Number of cores	Outer cable Ø (mm)	Nominal coating thickness (mm)	Nominal insulation thickness (mm)	Color coating	Mtrs/reel
W705200751-10	0,75	2	5,3	0,5	0,6	black	10
W705300751-10	0,75	3	5,6	0,5	0,6	black	10
W705400751-10	0,75	4	6,2	0,5	0,6	black	10

Multi-core wire (H05VV-F) - Round cable - Reel

General purpose conductor cable for connecting portable receivers. Manufactured according to harmonized norm (H) at rated voltage 300/500V (05) with PVC insulation and coating (VV) and stranded copper wire (F).

- Conductor: Copper wire (Class 5) according to PN-EN 60228
- Insulation: PVC TI2
- Coating: PVC TM2
- Bending radius: 4 x D (permanent placement) or 6 x D (free movement)
- Test voltage: 2000V
- Rated voltage: 300/500V
- Temperature rating: -40 °C ~ 70 °C
- Quality assurance: PN-E-50525-2-11



Part nr. without trace color	Wire size mm ²	Number of cores	Outer cable Ø (mm)	Nominal coating thickness (mm)	Nominal insulation thickness (mm)	Color coating	Mtrs/reel
W706201501-10*	1,50	2	7,3	0,8	0,7	black	10
W706301501-10*	1,50	3	7,9	0,9	0,7	black	10
W706401501-10*	1,50	4	8,9	1,0	0,7	black	10
W706501501-10*	1,50	5	9,9	1,1	0,7	black	10
W706701501-10*	1,50	7	10,8	1,2	0,7	black	10
W706801501-10*	1,50	8	11,6	1,2	0,7	black	10

*Also available in 5 and 50 m lengths. Please contact our Sales department for more information.

Multi-core wire (H05RR-F) - Round cable - Reel

General purpose conductor cable for connecting portable receivers. Manufactured according to harmonized norm (H) at rated voltage 300/500V (05) with rubber insulation and coating (RR) and stranded copper wire (F).

- Conductor: Copper wire (Class 5) according to PN-EN 60228
- Insulation: PVC EPR E14
- Coating: Rubber EPR EM3
- Bending radius: 3 x D (permanent placement) or 4 x D (free movement)
- Test voltage: 2000V
- Rated voltage: 300/500V
- Temperature rating: -25 °C ~ 60 °C
- Quality assurance: PN-E-50525-2-21



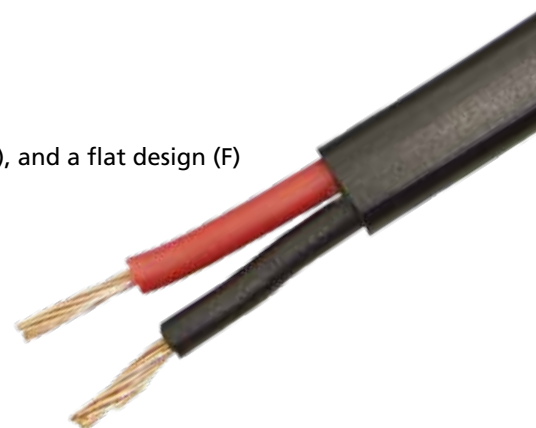
Part nr. without trace color	Wire size mm ²	Number of cores	Outer cable Ø (mm)	Nominal coating thickness (mm)	Nominal insulation thickness (mm)	Color coating	Mtrs/reel
W708201501-50	1,50	2	8,2	0,8	1,0	black	50
W708301501-50	1,50	3	8,7	0,8	1,0	black	50
W708401501-50	1,50	4	9,7	0,8	1,1	black	50
W708501501-50	1,50	5	10,6	0,8	1,1	black	50
W708701501-10	1,50	7	11,4	0,8	1,2	black	50

Also available in 1, 2,5, 5 and 10 m lengths. Please contact our Sales department for more information.

Multi-core wire (FLYY-F) - Flat cable - Reel

Flexible cable with stranded copper conductors (FL), PVC insulation and coating (YY), and a flat design (F) for low-voltage electrical connections in trailers and semi-trailers.

- Conductor: Copper wire (Class 5) according to PN-EN 60228
- Insulation: PVC T11
- Coating: PVC TM5
- Rated voltage: 24V
- Temperature rating: -40 °C ~ 90 °C
- Quality assurance: PN-74/E-90180

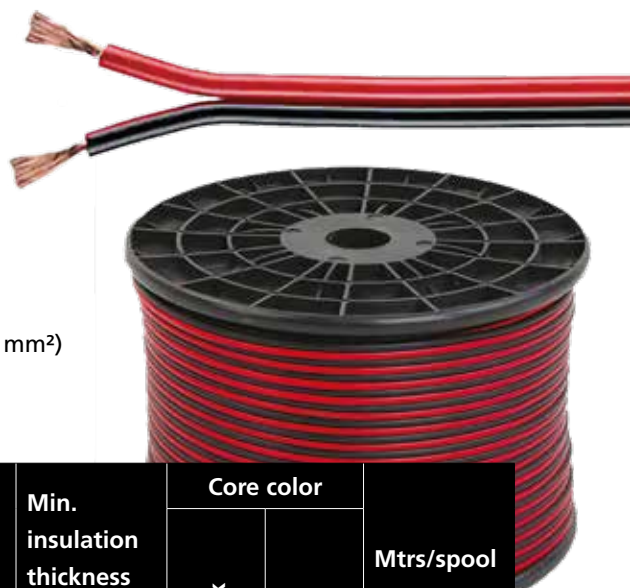


Part nr.	Wire size mm ²	Number of cores	Outer cable Ø (mm)	Color coating	Core color		Mtrs/reel
					black	red	
PEF20075ZR100RL	0,75	2	3,5 x 5,6	black	Z	R	100
PEF20100ZR100RL	1,00	2	3,5 x 5,6	black	Z	R	100
PEF20150ZR100RL*	1,50	2	3,8 x 6,6	black	Z	R	100
PEF20150ZR50RL*	1,50	2	3,8 x 6,6	black	Z	R	50
PEF20250ZR50RL*	2,50	2	5,2 x 8,2	black	Z	R	50

*Also available in FLYY. Please contact our Sales department for more information.

Speaker cable (NYFAZ) - Spool

- Conductor: Electrolytic red copper CU ETP 1
- Insulation: PVC TM2
- Max. operating voltage: 300V
- Operating temperature: -15 ~ 70 °C
- Quality assurance: EN 60228 – EN 50525 (2x 0,5 mm²)
EN 50525 (2x 0,75, 2x 1,00, 2x 1,50 and 2x 2,50 mm²)
CEI 20-20 / CEI 20-29 (2x 4,00 mm²)



Part nr.	Wire size	Nominal conductor construction (wires x mm ²)	Max. conductor resistance (Ohm/km)	Outer cable (mm)	Min. insulation thickness (mm)	Core color		Mtrs/spool
						black	red	
LS2X0050ZR100SP	2 x 0,50 mm ²	16 x 0,20	39,00	1,9 x 3,9	0,5	Z	R	100
LS2X0075ZR100SP	2 x 0,75 mm ²	24 x 0,20	26,00	2,2 x 4,5	0,5	Z	R	100
LS2X0100ZR100SP	2 x 1,00 mm ²	32 x 0,20	19,50	2,5 x 5,2	0,6	Z	R	100
LS2X0150ZR100SP	2 x 1,50 mm ²	30 x 0,25	13,30	2,9 x 6,0	0,6	Z	R	100
LS2X0250ZR100SP	2 x 2,50 mm ²	50 x 0,25	7,60	3,6 x 7,4	0,7	Z	R	100
LS2X0400ZR100SP	2 x 4,00 mm ²	56 x 0,30	4,95	4,2 x 8,6	0,7	Z	R	100

Twin cable - Reel

- Conductor: Plain copper strands (Class 6)
- Insulation: Special PVC, red/black
- Outer insulation: Transparent PVC
- Rated voltage: 0,6 ~ 1kV
- Test voltage: 4kV
- Operating temperature: -40 °C ~ 70 °C
- Installation temperature: -5 °C ~ 50 °C
- Quality assurance: IEC 60228 (strands)



Part nr.	Rating	Wire size	Nominal conductor construction (wires x mm ²)	Outer cable (mm)	Insulation thickness (mm)	Number of cores	Core colors		Mtrs/spool
							Black	Red	
PE20400ZR050SP	34A	4,0 mm ²	186 x 0,16	0,7	5,8 - 12,1	2	Z	R	50
PE20600ZR050SP	48A	6,0 mm ²	192 x 0,19	0,8	6,3 - 12,5	2	Z	R	50
PE21000ZR050SP	66A	10,0 mm ²	301 x 0,2	0,9	7,6 - 16	2	Z	R	50
PE21600ZR050SP	84A	16,0 mm ²	476 x 0,2	0,9	8,7 - 18,2	2	Z	R	50
PE22500ZR025SP	108A	25,0 mm ²	721 x 0,2	1,1	10 - 20,8	2	Z	R	25
PE23500ZR025SP	134A	35,0 mm ²	1015 x 0,2	1,1	11,4 - 23,8	2	Z	R	25
PE25000ZR025SP	161A	50,0 mm ²	1463 x 0,2	1,4	13,85 - 28,7	2	Z	R	25

Double insulated battery cable - Reel

- Conductor: Annealed copper strands (Class 6, very flexible)
- Insulation conductor: PVC
- Outer insulation: NBR PVC, RAL 3000 (red), RAL 9005 (black)
- Bending radius: 10 x D for fixed layings
- Quality assurance: IEC 60811-1-1 (insulating and sheath materials, common test methods)
IEC 60288 (conductor of insulated cables)
IEC 62230 (electric cable, spark test method)
IEC 60060-1 (high voltage test techniques)
- Operating rating: 0,6 ~ 1kV
- Test rating: 3,5kV
- Operating temperature: -40 °C ~ 70 °C
- Flame spread: IEC 60332-1-2



WIRE & CABLE

Part nr.	Rating	Wire size	Max conductor resistance (Ohm/km)	Outer Ø cable (mm)	Weight cable (kg/km)	Color insulation	Mtrs/reel
PE1000Z010RL	64A	10 mm ²		7,9	134	black	10
PE1000R010RL	64A	10 mm ²		7,9	134	red	10
PE1000Z050RL	64A	10 mm ²		7,9	134	black	50
PE1000R050RL	64A	10 mm ²		7,9	134	red	50
PE1600Z010RL	84A	16 mm ²	1,2	9,2	191	black	10
PE1600R010RL	84A	16 mm ²	1,2	9,2	191	red	10
PE1600Z050RL	84A	16 mm ²	1,2	9,2	191	black	50
PE1600R050RL	84A	16 mm ²	1,2	9,2	191	red	50
PE2500Z010RL	114A	25 mm ²	0,8	10,4	274	black	10
PE2500R010RL	114A	25 mm ²	0,8	10,4	274	red	10
PE2500Z050RL	114A	25 mm ²	0,8	10,4	274	black	50
PE2500R050RL	114A	25 mm ²	0,8	10,4	274	red	50
PE3500Z010RL	139A	35 mm ²	0,6	11,3	376	black	10
PE3500R010RL	139A	35 mm ²	0,6	11,3	376	red	10
PE3500Z050RL	139A	35 mm ²	0,6	11,3	376	black	50
PE3500R050RL	139A	35 mm ²	0,6	11,3	376	red	50
PE5000Z010RL	169A	50 mm ²	0,4	13,1	531	black	10
PE5000R010RL	169A	50 mm ²	0,4	13,1	531	red	10
PE5000Z050RL	169A	50 mm ²	0,4	13,1	531	black	50
PE5000R050RL	169A	50 mm ²	0,4	13,1	531	red	50
PE7000Z025RL	213A	70 mm ²	0,3	15,3	737	black	25
PE7000R025RL	213A	70 mm ²	0,3	15,3	737	red	25
PE9500Z025RL	264A	95 mm ²	0,2	17,4	965	black	25
PE9500R025RL	264A	95 mm ²	0,2	17,4	965	red	25



* Please see our EV Products section for orange battery cable

Ignition cable

Part nr.	Wire size	Color jacket	Color insulation	Mtrs/ reel
IC0150Z030RL	1,5 mm ²	black	white	30
IC0150R030RL	1,5 mm ²	red	white	30

*Other sizes are available on request.

- Conductor: Bare copper
- Insulation: PVC
- Rated voltage: 600V
- Withstands voltage spark: 3 kV/0,15 sec
- Temperature rating: -30 °C ~ 105 °C



Tools for wire & cable



ST-50
6,5" Wire stripper

0,5 - 4,0 mm²



LY-700E
6,5" Wire stripper

0,5 - 10,0 mm²



ST-700
6,7" Self-adjusting cutter/stripper

0,25 - 4,0 mm²



ST-731
7,8" Multi-function wire stripper

0,25 - 6,0 mm²



LK-22A
6" Wire cutter for copper and aluminium wire

Up to 22 mm²



LK-38A
8" Wire cutter for copper and aluminium wire

Up to 38 mm²



LK-60A
10" Wire cutter for copper and aluminium wire

Up to 60 mm²



ST-801
4,4" Multi-function plier/wire stripper

Network cable stripper (K5) for cross cut or straight cut
Wire stripper (high carbon steel):
0,05 - 0,5 mm²
Plier: free size
With 2 spare blades and 1 spare screw



ST-800
4,4" Multi-function plier/wire stripper

Network cable stripper (K5) for cross cut or straight cut
Wire stripper (high carbon steel):
0,5 - 6,0 mm²
Plier: free size
With 2 spare blades and 1 spare screw



LK-38B
7,25" Cable scissors for copper and aluminium wire

Up to 38 mm²

Blades made of 420 J2 stainless steel
With safety lock and spring to automatically open the scissors

Truck & Trailer Parts

Plugs & Sockets

Lighting

Battery

Hose Clamps

Screws, Bolts & Nuts

Wire & Cable

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EV Products

Insulated Terminals

Non-insulated Terminals

Cord End Terminals

Housing

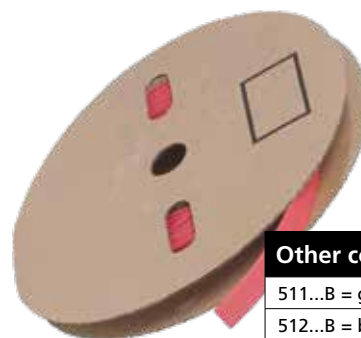
Fuses & Fuse Holders



Heat shrink sleeve - Single wall 2:1



- Shrink ratio: 2:1
- UL, Reach and RoHS compliant, halogen free
- Excellent acid and corrosion resistance
- Flexible, flame-retardant polyolefin heat shrinkable tubing
- Dielectric strength: ≥ 25 kV/mm
- Flammability: VW - 1



Reel			
Part nr.	Before Ø in mm	After Ø in mm	Mtrs/reel
512001B	1,1 ± 0,20	0,5	200
512002B	1,5 ± 0,20	0,65	200
512003B	2,5 ± 0,20	1,0	200
512004B	3,0 ± 0,20	1,3	200
512005B	5,0 ± 0,20	2,3	100
512006B	6,5 ± 0,20	3,0	100
512007B	9,5 ± 0,30	4,5	100
512008B	12,5 ± 0,30	6,0	100
512009B	15,5 ± 0,40	7,5	100
512010B	19,0 ± 0,50	9,0	100
512011B	26,0 ± 0,50	12,5	50
512111B	31,5 ± 1,00	15,0	50
512012B	36,5 ± 1,00	17,5	50
512013B	$\geq 50,0$	25,0	25
512014B	$\geq 70,0$	35,0	25
512015B	$\geq 100,0$	50,0	25

Other color part nr.

511...B = grey
512...B = black
513...B = green/yellow
514...B = blue
515...B = clear
516...B = white
517...B = red
518...B = yellow
519...B = green
521...B = brown
522...B = orange*
523...B = violet



Box			
Part nr.	Before Ø in mm	After Ø in mm	Mtrs/box
512001BB	1,1 ± 0,20	0,5	15
512002BB	1,5 ± 0,20	0,65	15
512003BB	2,5 ± 0,20	1,0	13
512004BB	3,0 ± 0,20	1,3	12
512005BB	5,0 ± 0,20	2,3	11
512006BB	6,5 ± 0,20	3,0	10
512007BB	9,5 ± 0,30	4,5	7
512008BB	12,5 ± 0,30	6,0	6
512009BB	15,5 ± 0,40	7,5	5
512010BB	19,0 ± 0,50	9,0	5
512011BB	26,0 ± 0,50	12,5	4

Other color part nr.

511...BB = grey
512...BB = black
513...BB = green/yellow
514...BB = blue
515...BB = clear
516...BB = white
517...BB = red
518...BB = yellow
519...BB = green
521...BB = brown
522...BB = orange*



* Please see our EV Products section for orange SW 2:1 shrink sleeve

Blister			
Part nr.	Before Ø in mm	After Ø in mm	Mtrs/blister
212001BL	1,1 ± 0,20	0,5	2
212002BL	1,5 ± 0,20	0,65	2
212003BL	2,5 ± 0,20	1,0	2
212004BL	3,0 ± 0,20	1,3	2
212005BL	5,0 ± 0,20	2,3	2
212006BL	6,5 ± 0,20	3,0	2
212007BL	9,5 ± 0,30	4,5	2
212008BL	12,5 ± 0,30	6,0	2
212009BL	15,5 ± 0,40	7,5	2
212020BL	19,0 ± 0,50	9,0	2



Other color part nr.
Not available in grey
212...BL = black
Not available in green/yellow
214...BL = blue
215...BL = clear
216...BL = white
217...BL = red
218...BL = yellow
219...BL = green
Not available in brown
Not available in orange

1.22 m sleeves			
Part nr.	Before Ø in mm	After Ø in mm	Pcs/bag
512001BS	1,1 ± 0,20	0,5	200
512002BS	1,5 ± 0,20	0,65	200
512003BS	2,5 ± 0,20	1,0	200
512004BS	3,0 ± 0,20	1,3	150
512005BS	5,0 ± 0,20	2,3	100
512006BS	6,5 ± 0,20	3,0	50
512007BS	9,5 ± 0,30	4,5	50
512008BS	12,5 ± 0,30	6,0	30
512009BS	15,5 ± 0,40	7,5	30
512010BS	19,0 ± 0,50	9,0	30
512011BS	26,0 ± 0,50	12,5	20
512012BS	36,5 ± 1,00	17,5	10



Other color part nr.
Not available in grey
512...BS = black
513...BS = green/yellow
514...BS = blue
515...BS = clear
516...BS = white
517...BS = red
518...BS = yellow
519...BS = green
Not available in brown
522...BS = orange*

BUNDLING & PROTECTION

1.00 m sleeves			
Part nr.	Before Ø in mm	After Ø in mm	Pcs/bag
512001BM	1,1 ± 0,20	0,5	50
512002BM	1,5 ± 0,20	0,65	50
512003BM	2,5 ± 0,20	1,0	50
512004BM	3,0 ± 0,20	1,3	50
512005BM	5,0 ± 0,20	2,3	50
512006BM	6,5 ± 0,20	3,0	50
512007BM	9,5 ± 0,30	4,5	25
512008BM	12,5 ± 0,30	6,0	25
512009BM	15,5 ± 0,40	7,5	25
512010BM	19,0 ± 0,50	9,0	25
512011BM	26,0 ± 0,50	12,5	25
512012BM	36,5 ± 1,00	17,5	10
512013BM	≥ 50,0	25,0	10



Other color part nr.
511...BM = grey
512...BM = black
513...BM = green/yellow
514...BM = blue
515...BM = clear
516...BM = white
517...BM = red
518...BM = yellow
519...BM = green
521...BM = brown
Not available in orange



* Please see our EV Products section for orange SW 2:1 shrink sleeve

5 cm sleeve

Part nr.	Before Ø in mm	After Ø in mm	Pcs/bag
512003BC	2,5 ± 0,20	1,0	100
512004BC	3,0 ± 0,20	1,3	100
512005BC	5,0 ± 0,20	2,3	100
512006BC	6,5 ± 0,20	3,0	100
512007BC	9,5 ± 0,30	4,5	100
512008BC	12,5 ± 0,30	6,0	100
512010BC	19,0 ± 0,50	9,0	100



Other color part nr.

Not available in grey
512...BC = black
Not available in green/yellow
514...BC = blue
515...BC = clear
Not available in white
517...BC = red
518...BC = yellow
Not available in green
Not available in brown
Not available in orange

10 cm sleeve – 10 pcs

Part nr.	Before Ø in mm	After Ø in mm	Pcs/bag
512001BZ	1,1 ± 0,20	0,5	10
512002BZ	1,5 ± 0,20	0,65	10
512003BZ	2,5 ± 0,20	1,0	10
512004BZ	3,0 ± 0,20	1,3	10
512005BZ	5,0 ± 0,20	2,3	10
512006BZ	6,5 ± 0,20	3,0	10
512007BZ	9,5 ± 0,30	4,5	10
512008BZ	12,5 ± 0,30	6,0	10
512009BZ	15,5 ± 0,40	7,5	10
512010BZ	19,0 ± 0,50	9,0	10
512011BZ	26,0 ± 0,50	12,5	10
512012BZ	36,5 ± 1,00	17,5	10



Other color part nr.

Not available in grey
512...BC = black
Not available in green/yellow
514...BC = blue
Not available in clear
516...BC = white
517...BC = red
518...BC = yellow
Not available in green
Not available in brown
Not available in orange

10 cm sleeve – 100 pcs

Part nr.	Before Ø in mm	After Ø in mm	Pcs/bag
512001BP	1,1 ± 0,20	0,5	100
512002BP	1,5 ± 0,20	0,65	100
512003BP	2,5 ± 0,20	1,0	100
512004BP	3,0 ± 0,20	1,3	100
512005BP	5,0 ± 0,20	2,3	100
512006BP	6,5 ± 0,20	3,0	100
512007BP	9,5 ± 0,30	4,5	100
512008BP	12,5 ± 0,30	6,0	100
512009BP	15,5 ± 0,40	7,5	100
512010BP	19,0 ± 0,50	9,0	100
512011BP	26,0 ± 0,50	12,5	100
512012BP	36,5 ± 1,00	17,5	100



Other color part nr.

Not available in grey
512...BP = black
Not available in green/yellow
514...BP = blue
515...BP = clear
516...BP = white
517...BP = red
518...BP = yellow
519...BP = green
Not available in brown
Not available in orange

20 cm sleeve – 5 pcs

Part nr.	Before Ø in mm	After Ø in mm	Pcs/bag
512001BE	1,1 ± 0,20	0,5	5
512002BE	1,5 ± 0,20	0,65	5
512003BE	2,5 ± 0,20	1,0	5
512004BE	3,0 ± 0,20	1,3	5
512005BE	5,0 ± 0,20	2,3	5
512006BE	6,5 ± 0,20	3,0	5
512007BE	9,5 ± 0,30	4,5	5
512008BE	12,5 ± 0,30	6,0	5
512009BE	15,5 ± 0,40	7,5	5
512010BE	19,0 ± 0,50	9,0	5
512011BE	26,0 ± 0,50	12,5	5



Other color part nr.

Not available in grey
512...BE = black
Not available in green/yellow
514...BE = blue
515...BE = clear
Not available in white
517...BE = red
518...BE = yellow
Not available in green
Not available in brown
Not available in orange

Coil (Ø 115 mm) – 10m

Part nr.	Before Ø in mm	After Ø in mm	Mtrs/coil
512003Q	2,5 ± 0,20	1,0	10
512004Q	3,0 ± 0,20	1,3	10
512005Q	5,0 ± 0,20	2,3	10
512006Q	6,5 ± 0,20	3,0	10
512007Q	9,5 ± 0,30	4,5	10
512008Q	12,5 ± 0,30	6,0	10
512009Q	15,5 ± 0,40	7,5	10
512010Q	19,0 ± 0,50	9,0	10
512011Q	26,0 ± 0,50	12,5	10



Other color part nr.

Only available in black

BUNDLING & PROTECTION

Coil (Ø 115 mm) – 25 m

Part nr.	Before Ø in mm	After Ø in mm	Mtrs/coil
512003Y	2,5 ± 0,20	1,0	25
512004Y	3,0 ± 0,20	1,3	25
512005Y	5,0 ± 0,20	2,3	25
512006Y	6,5 ± 0,20	3,0	25
512007Y	9,5 ± 0,30	4,5	25
512008Y	12,5 ± 0,30	6,0	25
512009Y	15,5 ± 0,40	7,5	25
512010Y	19,0 ± 0,50	9,0	25
512011Y	26,0 ± 0,50	12,5	25



Other color part nr.

Only available in black

Heat shrink sleeve SW 2:1 assortments

ADSWC-005

590 pcs - 10 compartments - Single wall 2:1
Colors black, red, white, blue and yellow
Lengths 50, 100, 150 and 200 mm

5 colors x 20 pcs x 50 mm; 1,0 > 0,5
5 colors x 20 pcs x 50 mm; 1,5 > 0,75
5 colors x 20 pcs x 100 mm; 2,0 > 1,0
5 colors x 20 pcs x 100 mm; 3,0 > 1,5
5 colors x 10 pcs x 100 mm; 4,5 > 2,2
5 colors x 10 pcs x 100 mm; 6,0 > 3,0
5 colors x 6 pcs x 100 mm; 9,0 > 4,5
5 colors x 6 pcs x 100 mm; 12,0 > 6,0
5 colors x 3 pcs x 150 mm; 20,0 > 10,0
5 colors x 3 pcs x 200 mm; 25,0 > 12,5



ADSWC-006

377 pcs - 8 compartments - Single wall 2:1
Lengths 50, 75, 100, 150 and 200 mm

red x 30 pcs x 50 mm; Ø 1,6
yellow/green x 10 pcs x 50 mm; Ø 1,6

red x 15 pcs x 50 mm; Ø 2,4
yellow/green x 10 pcs x 50 mm; Ø 2,4
black x 30 pcs x 75 mm; Ø 2,4
transparent x 10 pcs x 75 mm; Ø 2,4

yellow x 20 pcs x 50 mm; Ø 3,2
white x 50 pcs x 50 mm; Ø 3,2
yellow/green x 10 pcs x 50 mm; Ø 3,2

black x 20 pcs x 50 mm; Ø 4,8
transparent x 15 pcs x 50 mm; Ø 4,8
yellow/green x 5 pcs x 50 mm; Ø 4,8
red x 15 pcs x 50 mm; Ø 4,8
transparent x 10 pcs x 75 mm; Ø 4,8
blue x 10 pcs x 75 mm; Ø 4,8

yellow x 20 pcs x 50 mm; Ø 6,4
white x 10 pcs x 50 mm; Ø 6,4
yellow/green x 5 pcs x 50 mm; Ø 6,4
black x 20 pcs x 75 mm; Ø 6,4

yellow/green x 5 pcs x 50 mm; Ø 9,5
blue x 10 pcs x 100 mm; Ø 9,5
black x 10 pcs x 100 mm; Ø 9,5

yellow/green x 3 pcs x 50 mm; Ø 12,7
black x 15 pcs x 100 mm; Ø 12,7

yellow/green x 3 pcs x 50 mm; Ø 19,1
black x 5 pcs x 150 mm; Ø 19,1
black x 5 pcs x 200 mm; Ø 19,1

yellow/green x 3 pcs x 50 mm; Ø 25,4
black x 3 pcs x 150 mm; Ø 25,4



SSB DISPLAY001*

Blue metal display with
scissors on chain
With 6 boxes of 2:1 single
wall heat shrink sleeve

1 x 512004BB
1 x 512005BB
1 x 512006BB
1 x 512007BB
1 x 512008BB
1 x 512010BB



ADSWB-001

170 pcs (length 100 mm) - 6 compartments

Single wall 2:1 in black

60 pcs 1,2 > 0,6 mm
40 pcs 2,4 > 1,2 mm
30 pcs 3,2 > 1,6 mm
20 pcs 4,8 > 2,4 mm
10 pcs 6,4 > 3,2 mm
10 pcs 9,5 > 4,8 mm

Box with euro hangtab



*Display can be used both hanging and standing.
Available in blue (standard) or the RAL-color of your
choice. Please contact our Sales department for more
information.

Heat shrink sleeve - Single wall 3:1



- Shrink ratio: 3:1
- UL, Reach and RoHS compliant, halogen free
- Excellent acid fastness and corrosion resistance
- Flexible, flame-retardant polyolefin heat shrinkable tubing
- Dielectric strength: ≥ 25 kV/mm
- Flammability: VW - 1

Reel			
Part nr.	Before Ø in mm	After Ø in mm	Mtrs/reel
612001B	1,5	0,5	200
612002B	3,0	1,0	200
612003B	4,5	1,5	100
612004B	6,0	2,0	100
612005B	9,0	3,0	100
612006B	12,0	4,0	100
612007B	15,0	5,0	100
612008B	18,0	6,0	100
612009B	24,0	8,0	50
612010B	30,0	10,0	50
612011B	39,0	13,0	50



Other color part nr.	
Not available in grey	
612...B = black	
Not available in green/yellow	
614...B = blue	
615...B = clear	
616...B = white	
617...B = red	
Not available in yellow	
Not available in green	
Not available in brown	
Not available in orange	

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Box			
Part nr.	Before Ø in mm	After Ø in mm	Mtrs/box
612001BB	1,5	0,5	15
612002BB	3,0	1,0	12
612003BB	4,5	1,5	11
612004BB	6,0	2,0	10
612005BB	9,0	3,0	7
612006BB	12,0	4,0	6
612007BB	15,0	5,0	5
612008BB	18,0	6,0	5
612009BB	24,0	8,0	4

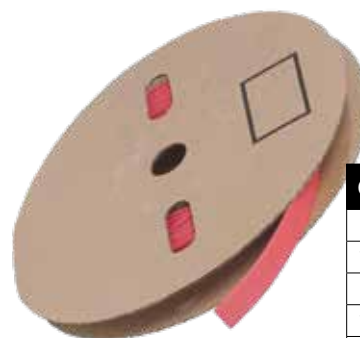


Other color part nr.	
Only available in black	

Heat shrink sleeve - Dual wall 3:1



- Shrink ratio: 3:1 with hot melt adhesive
- UL, Reach and RoHS compliant, halogen free
- Excellent electrical, physical and chemical properties (acid fast and corrosion resistant)
- Good sealing, waterproof and moisture protection
- Dielectric strength: ≥ 25 kV/mm
- Flammability: VW - 1



Reel			
Part nr.	Before Ø in mm	After Ø in mm	Mtrs/reel
712101B	2,4	0,8	200
712001B	3,2	1,0	200
712002B	4,8	1,6	100
712003B	6,4	2,1	100
712004B	7,9	2,6	100
712005B	9,5	3,2	50
712006B	12,7	4,2	25
712007B	15,4	5,1	25
712008B	19,1	6,4	25
712009B	25,4	8,4	25
712010B	30,0	10,0	25
712011B	39,0	13,0	25
712012B	50,0	16,0	25
712013B	60,0	23,0	25

Other color part nr.
Not available in grey
712...B = black
Not available in green/yellow
714...B = blue
715...B = clear
716...B = white
717...B = red
718...B = yellow
719...B = green
Not available in brown
722...B = orange*

Box			
Part nr.	Before Ø in mm	After Ø in mm	Mtrs/box
712001BB	3,2	1,0	5,0
712002BB	4,8	1,6	4,0
712003BB	6,4	2,1	3,5
712004BB	7,9	2,6	3,0
712005BB	9,5	3,2	3,0
712006BB	12,7	4,2	2,5
712007BB	15,4	5,1	2,5
712008BB	19,1	6,4	2,0
712009BB	25,4	8,4	1,5

Other color part nr.
Not available in grey
712...BB = black
Not available in green/yellow
714...BB = blue
715...BB = clear
716...BB = white
717...BB = red
718...BB = yellow
719...BB = green
Not available in brown
722...BB = orange*



* Please see our EV Products section for orange DW 3:1 shrink sleeve

1.22 m sleeves

Part nr.	Before Ø in mm	After Ø in mm	Pcs/bag
712001BS	3,2	1,0	100
712002BS	4,8	1,6	60
712003BS	6,4	2,1	40
712004BS	7,9	2,6	30
712005BS	9,5	3,2	20
712006BS	12,7	4,2	15
712007BS	15,4	5,1	15
712008BS	19,1	6,4	10
712009BS	25,4	8,4	10
712010BS*	30,0	10,0	10
712011BS*	39,0	13,0	10
712012BS*	50,0	16,0	10
712013BS*	60,0	23,0	10
712014BS*	75,0	25,0	10
712015BS*	100,0	34,0	10
712016BS*	130,0	44,0	10

*Only available in black

10 cm sleeve – 10 pcs

Part nr.	Before Ø in mm	After Ø in mm	Pcs/bag
712001BZ	3,2	1,0	10
712002BZ	4,8	1,6	10
712003BZ	6,4	2,1	10
712004BZ	7,9	2,6	10
712005BZ	9,5	3,2	10
712006BZ	12,7	4,2	10
712007BZ	15,4	5,1	10
712008BZ	19,1	6,4	10
712009BZ	25,4	8,4	10

10 cm sleeve – 50/25 pcs

Part nr.	Before Ø in mm	After Ø in mm	Pcs/bag
712001BP	3,2	1,0	50
712002BP	4,8	1,6	50
712003BP	6,4	2,1	50
712004BP	7,9	2,6	50
712005BP	9,5	3,2	50
712006BP	12,7	4,2	50
712007BP	15,4	5,1	25
712008BP	19,1	6,4	25
712009BP	25,4	8,4	25

Other color part nr.

Not available in grey
712...BS = black
Not available in green/yellow
714...BS = blue
715...BS = clear
716...BS = white
717...BS = red
718...BS = yellow
719...BS = green
Not available in brown
722...BS = orange*

Other color part nr.

Only available in black

BUNDLING & PROTECTION

Other color part nr.

Not available in grey
712...BP = black
Not available in green/yellow
714...BP = blue
715...BP = clear
716...BP = white
717...BP = red
718...BP = yellow
719...BP = green
Not available in brown
Not available in orange



* Please see our EV Products section for orange DW 3:1 shrink sleeve

Heat shrink sleeve DW 3:1 assortments

ADDWC-002

87 pcs (length 100 mm) - 6 compartments



Dual wall 3:1 with adhesive liner in black, red and clear

3 x 10 pcs 2,4 > 0,8 mm
3 x 7 pcs 3,2 > 1,0 mm
3 x 5 pcs 4,8 > 1,6 mm
3 x 4 pcs 6,4 > 2,0 mm
3 x 2 pcs 9,5 > 3,0 mm
3 x 1 pcs 12,7 > 4,0 mm

Box with euro hangtab

SSB DISPLAY002

Blue metal display with scissors on chain
With 6 boxes of 3:1 dual wall heat shrink sleeve

1 x 712001BB
1 x 712003BB
1 x 712005BB
1 x 712006BB
1 x 712008BB
1 x 712009BB



- Display can be used both hanging and standing
- Available in blue (standard) or the RAL-color of your choice. Please contact our Sales department for more information

ADDWB-002

87 pcs (length 100 mm) - 6 compartments



Dual wall 3:1 with adhesive liner in black

30 pcs 2,4 > 0,8 mm
21 pcs 3,2 > 1,0 mm
15 pcs 4,8 > 1,6 mm
12 pcs 6,4 > 2,0 mm
6 pcs 9,5 > 3,0 mm
3 pcs 12,7 > 4,0 mm

Box with euro hangtab

Heat shrink sleeve - Dual wall 3:1 medium wall thickness



- Shrink ratio: 3:1 with EVA adhesive
- Reach and RoHS compliant, halogen free
- Waterproof, moisture protection
- Abrasion and impact resistance
- Dielectric strength: ≥ 20 kV/mm
- Flammability: VW - 1

1.22 m sleeves – medium wall thickness

Part nr.	Before Ø in mm	After Ø in mm	Pcs/bag
912003BS	8,0	2,0	10
912004BS	12,0	3,0	10
912005BS	16,0	5,0	10
912006BS	22,0	6,0	10
912007BS	28,0	6,0	10
912008BS	33,0	8,0	10
912009BS	40,0	12,0	5
912010BS	55,0	16,0	5
912011BS	65,0	19,0	5
912012BS	75,0	22,0	5
912013BS	95,0	25,0	5
912014BS	115,0	34,0	5
912015BS	140,0	42,0	5
912115BS	160,0	50,0	5
912016BS	175,0	58,0	5

Other color part nr.

Only available in black



Heat shrink sleeve - Dual wall 4:1



- Shrink ratio: 4:1 with hot melt adhesive
- UL, Reach and RoHS compliant, halogen free
- Excellent electrical, physical and chemical properties (acid fast and corrosion resistant)
- Good sealing, waterproof and moisture protection
- Dielectric strength: > 25 kV/mm
- Flammability: VW - 1

Reel			
Part nr.	Before Ø in mm	After Ø in mm	Mtrs/reel
812001B	4,0	1,0	200
812002B	6,0	1,5	100
812003B	8,0	2,0	100
812004B	12,0	3,0	25
812005B	16,0	4,0	25
812006B	20,0	5,0	25
812007B	24,0	6,0	25
812008B	32,0	8,0	25
812009B	40,0	10,0	25
812010B	52,0	13,0	25



Other color part nr.

Only available in black

Box			
Part nr.	Before Ø in mm	After Ø in mm	Mtrs/box
812001BB	4,0	1,0	5,0
812002BB	6,0	1,5	3,5
812003BB	8,0	2,0	3,0
812004BB	12,0	3,0	2,5
812005BB	16,0	4,0	2,5
812006BB	20,0	5,0	2,0
812007BB	24,0	6,0	1,5



Other color part nr.

Only available in black

1.22 m sleeves			
Part nr.	Before Ø in mm	After Ø in mm	Pcs/bag
812001BS	4,0	1,0	60
812002BS	6,0	1,5	40
812003BS	8,0	2,0	30
812004BS	12,0	3,0	20
812005BS	16,0	4,0	15
812006BS	20,0	5,0	10
812007BS	24,0	6,0	10
812008BS	32,0	8,0	5
812009BS*	40,0	10,0	5
812010BS*	52,0	13,0	5



Other color part nr.

Not available in grey

812...BS = black

Not available in green/yellow

814...BS = blue

815...BS = clear

816...BS = white

817...BS = red

818...BS = yellow

819...BS = green

Not available in brown

Not available in orange

Other color part nr.

*Only available in black

1.00 m sleeves

Part nr.	Before Ø in mm	After Ø in mm	Pcs/bag
812001BM	4,0	1,0	50
812002BM	6,0	1,5	50
812003BM	8,0	2,0	50
812004BM	12,0	3,0	50
812005BM	16,0	4,0	25
812006BM	20,0	5,0	25
812007BM	24,0	6,0	25
812008BM	32,0	8,0	25

Other color part nr.

Only available in black



Customize your box

Custom box

Fully customizable packaging boxes

Customize your packaging with branded designs, product labels, your part numbers, and barcodes to ensure a consistent brand presentation and full product traceability. Please contact our Sales department for more information

Empty display for heat shrink sleeve

- Display can be used both hanging and standing
- Available in blue (standard) or the RAL-color of your choice. Please contact our Sales department for more information

1506073

Blue metal display with scissors on chain, for 6 boxes of heat shrink sleeve (not included)



Tools for heat shrink sleeve



MJ-300
Heat gun with micro-flame
(supplied with empty lighter)



90-51773
Universal lighter gas (butane)
200 ml



MJ-600
Flameless heat gun
(supplied with empty lighter)

Cable ties - 1000 Pcs/bag



- Material: Nylon (Polyamide) 6.6
- Quality assurance: UL & IEC 62275, Lloyd's, REACH, SVHC, RoHS II/III, POPs and available in halogen-free grades according to IEC 61249-2-21
- Flammability: UL 94 V-2 (V-0 available)
- Features: Not resistant to mineral acids, UV and oxidizing agents
Rounded edges to avoid cable damage
Complete range, stable quality and low insertion
- Stock: Black (B) and natural (N)

Part nr.	Color	L mm	W mm	Bundle Ø mm	Tensile str. kgf
KB8024B	Black	75	2,5	2 ~ 16	11
KB8024N	Natural	75	2,5	2 ~ 16	11
KB10025B	Black	100	2,5	2 ~ 24	11
KB10025N	Natural	100	2,5	2 ~ 24	11
KB12025B	Black	135	2,5	2 ~ 35	11
KB14025N	Natural	135	2,5	2 ~ 35	11
KB16025B	Black	160	2,5	2 ~ 42	11
KB16025N	Natural	160	2,5	2 ~ 42	11
KB20025B	Black	200	2,5	2 ~ 55	11
KB20025N	Natural	200	2,5	2 ~ 55	11
KB14036B	Black	140	3,5	3 ~ 36	20
KB14036N	Natural	140	3,5	3 ~ 36	20

Part nr.	Color	L mm	W mm	Bundle Ø mm	Tensile str. kgf
KB20036B	Black	200	3,5	3 ~ 55	20
KB20036N	Natural	200	3,5	3 ~ 55	20
KB12048B	Black	140	4,5	3 ~ 33	28
KB12048N	Natural	140	4,5	3 ~ 33	28
KB16048B	Black	160	4,5	3 ~ 38	28
KB16048N	Natural	160	4,5	3 ~ 38	28
KB18848B	Black	180	4,5	3 ~ 45	28
KB18848N	Natural	180	4,5	3 ~ 45	28
KB20048B	Black	200	4,5	3 ~ 51	28
KB20048N	Natural	200	4,5	3 ~ 51	28

BUNDLING &
PROTECTION



Cable ties - 100 and 50 Pcs/bag



- Material: Nylon (Polyamide) 6.6
- Quality assurance: UL & IEC 62275, Lloyd's, REACH, SVHC, RoHS II/III, POPs and available in halogen-free grades according to IEC 61249-2-21
- Flammability: UL 94 V-2
- Features: Not resistant to mineral acids, UV and oxidizing agents
Rounded edges to avoid cable damage
Complete range, stable quality and low insertion
- Stock: Black (B) and natural (N)



Cable ties - 100 Pcs/bag

Part nr black	Part nr natural	L mm	W mm	Bundle Ø mm	Tensile str. kgf
KKB8024B	KKB8024N	75	2,5	2 ~ 16	8
KKB10025B	KKB10025N	100	2,5	2 ~ 24	8
KKB14025B	KKB14025N	135	2,5	2 ~ 35	8
KKB16025B	KKB16025N	160	2,5	2 ~ 42	8
KKB20025B	KKB20025N	200	2,5	2 ~ 55	8
KKB14036B	KKB14036N	140	3,5	2,5 ~ 36	15
KKB20036B	KKB20036N	200	3,5	2,5 ~ 55	15
KKB29236B	KKB29236N	280	3,5	2,5 ~ 80	15
KKB37036B	KKB37036N	360	3,5	5 ~ 103	15
KKB12048B	KKB12048N	140	4,5	2,5 ~ 33	22
KKB16048B	KKB16048N	160	4,5	2,5 ~ 38	22
KKB18848B	KKB18848N	180	4,5	3 ~ 45	22
KKB20048B	KKB20048N	200	4,5	3 ~ 51	22
KKB25048B	KKB25048N	250	4,5	5 ~ 68	22
KKB28048B	KKB28048N	280	4,5	5 ~ 76	22
KKB30048B	KKB30048N	300	4,5	5 ~ 80	22
KKB36848B	KKB36848N	360	4,5	5 ~ 101	22
KKB39048B	KKB39048N	380	4,5	5 ~ 110	22
KKB43048B	KKB43048N	430	4,5	5 ~ 123	22

Cable ties - 100 Pcs/bag

Part nr black	Part nr natural	L mm	W mm	Bundle Ø mm	Tensile str. kgf
KKB15076B	KKB15076N	180	7,5	5 ~ 44	46
KKB20076B	KKB20076N	200	7,5	5 ~ 48	46
KKB25076B	KKB25076N	240	7,5	5 ~ 62	46
KKB29276B	KKB29276N	280	7,5	5 ~ 76	46
KKB36876B	KKB36876N	360	7,5	5 ~ 101	46
KKB45076B	KKB45076N	450	7,5	20 ~ 130	46
KKB54076B	KKB54076N	540	7,5	20 ~ 160	46
KKB75076B	KKB75076N	750	7,5	32 ~ 222	46
KKB43090B	KKB43090N	430	9,0	20 ~ 118	68
KKB53090B	KKB53090N	550	9,0	20 ~ 160	68
KKB77590B	KKB77590N	780	9,0	20 ~ 235	68
KKB92090B	KKB92090N	920	9,0	40 ~ 280	68
KKB122090B	KKB122090N	1220	9,0	40 ~ 375	68
KKB153090B	KKB153090N	1330	9,0	40 ~ 409	68

- Available in other colors. Please contact our Sales department for more information.



Please see our EV Products section for orange cable ties (100 pcs/bag)

Cable ties - 50 Pcs/bag

Part nr. black	Part nr natural	L mm	W mm	Bundle Ø mm	Tensile str. kgf
KKB230130B	KKB230130N	250	12,5	10 ~ 62	98
KKB480130B	KKB480130N	500	12,5	40 ~ 222	98
KKB730130B	KKB730130N	750	12,5	40 ~ 300	98
KKB1030130B	KKB1030130N	1000	12,5	40 ~ 300	98



1503043

Blue metal display for 5 sizes
of cable ties (not included)



Nylon cable ties assortments

KKB DISPLAY
1000 pcs

Blue metal display 1503043
with 5 sizes of nylon cable
ties:

200 x KKB10025B
200 x KKB14036B
200 x KKB20048B
200 x KKB30048B
200 x KKB36848B



- Displays can be used both hanging and standing.
- Available in blue (standard) or the RAL-color of your choice. Please contact our Sales department for more information.

BUNDLING & PROTECTION

Tools for nylon cable ties



LY-600A

For tightening and cutting nylon
cable ties 2,4 - 4,8 mm width
Thickness up to 1,45 mm
Adjustable



LY-600T

For tightening and cutting nylon
cable ties 2,2 - 4,8 mm width
Thickness up to 1,6 mm
Adjustable



LY-600L

For tightening and cutting nylon
cable ties up to 13 mm width
Thickness up to 1,5 mm
Adjustable



KBT-5A

For tightening and cutting nylon
cable ties up to 12 mm width
Thickness up to 2,3 mm
With safe stop

Standard tie mounts - Adhesive



- Nylon (Polyamide) 6.6 with quality adhesive
- Available in black (UV resistant) and natural
- Cable ties can be inserted from any of the 4 ways: no need for orientation of the tie
- Flammability: UL 94 V-2

Part nr.	Color	Size L x W x H	Max. tie width	Ø Hole	Packed
KBH-05Z	UV black	12,5 x 12,5 x 3,1	3,2	-	100
KBH-05	natural	12,5 x 12,5 x 3,1	3,2	-	100
KBH-1Z	UV black	19,0 x 19,0 x 4,5	4,3	4,8	100
KBH-1	natural	19,0 x 19,0 x 4,5	4,3	4,8	100
KBH-2Z	UV black	27,0 x 27,0 x 6,0	5,5	4,8	100
KBH-2	natural	27,0 x 27,0 x 6,0	5,5	4,8	100



Saddle tie mounts - Screw



- Nylon (Polyamide) 6.6 screw mount
- Available in black (UV resistant) and natural
- Flammability: UL 94 V-2

Part nr.	Color	Size L x W x H	Max. tie width	Ø Hole (D)	Packed
KBH-3Z	UV black	14,9 x 9,5 x 7,2	4,8	3,7	100
KBH-4Z	UV black	14,9 x 9,5 x 7,2	4,8	4,5	100
KBH-5Z	UV black	21,9 x 15,9 x 9,7	7,6	4,5	100
KBH-6	natural	44,0 x 18,5 x 15,6	12,5	6,5	100
KBH-6Z	UV black	44,0 x 18,5 x 15,6	12,5	6,5	100



Edge clip tie mount



- PA66-I (toughened black Nylon 6.6) edge clip with excellent weather, heat, moisture and impact resistance
- Operational temperature: -20°C ~ 80 °C (melt temp.: 270 °C ~ 290 °C)
- Min pull force: 150N
- Flammability: UL 94 V-2
- Standards: ISO 1043

Part nr.	Color	Size L x W x H	Max. tie width	Panel thickness	Packed
KC1-20048	black	15,0 x 12,0 x 15,6	7,0	1 - 3	500



Releasable cable ties



- Nylon (Polyamide) 6.6 cable tie with releasable closure with locking barb
- Available in black, blue and natural
- Operating temperature: -40 °C ~ 85 °C
- Flammability: UL 94 V-2



Part nr.	Color	L mm	W mm	Max. bundle mm	Min. Str. in kgs	Packed
GTRN200HDUV	black	200	7,5	48,0	28,0	100
KKB20076BLHER	blue	200	7,6	55,6	23,0	100
KKB20076NHER	natural	200	7,6	55,6	23,0	100
KKB29276NHER	natural	300	7,6	88,1	23,0	100
GTRN370HDUV	black	360	7,5	100,0	28,0	100
KKB36876NHER	natural	370	7,6	104,3	23,0	100

Thomas & Betts ty-raps



- Nylon (Polyamide) 6.6 with stainless steel locking device
- Halogen and silicone free
- Available in black (UV resistant) and natural
- Operating temperature: -60 °C ~ 85 °C (natural)
-60 °C ~ 105 °C (black)
- Flammability: UL 94 V-2
- Standards: UL E49405, GL, Lloyd's, BVQ



BUNDLING &
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Part nr. natural	Part nr. UV black	L mm	W mm	Max. bundle mm	Min. Str. in kgs	Pcs/bag
TY-23 m*	TY-23 mx*	92	2,40	16,00	8,1	1000
TY-232 m	TY-232 mx	203	2,40	50,00	8,1	1000
TY-234 m	TY-234 mx	356	2,40	102,00	8,1	1000
TY-24 m*	TY-24 mx*	140	3,60	29,00	18,0	1000
TY-242 m	TY-242 mx	204	3,60	50,00	18,0	1000
TY-26 m*	TY-26 mx*	284	3,60	76,00	18,0	1000
TY-244 m	TY-244 mx	368	3,60	103,00	18,0	1000
TY-25 m*	TY-25 mx*	186	4,80	45,00	22,5	1000
TY-253 m	TY-253 mx	295	4,80	78,00	22,5	1000
TY-28 m*	TY-28 mx*	361	4,80	102,00	22,5	1000
TY-272 m	TY-272 mx	223	6,90	50,00	54,4	500
TY-27 m**	TY-27 mx**	340	6,90	90,00	54,4	500
TY-29 m	TY-29 mx	771	6,90	229,00	54,4	500

*Also available in 100 pcs / **Also available in 50 pcs

Cable ties with stainless steel locking device



- Flexible design for easy installation around tubing and bundled wiring
- Excellent resistance to low temperatures, UV max resistance to opening
- Material: Polyamide 6.6 (PA 66)
with AISI 301 / AISI 302 stainless steel tooth
- Operating temperature: -60 °C ~ 85 °C
- Flammability: UL 94 V-2
- Standards: DNV approved, UL Listed, CE marked (BS EN 62275 / IEC 62275)

Part nr. natural	Part nr. black	L mm	W mm	Min. Str. in kgs	Pcs/bag
SAPTY-23 m*	SAPTY-23 mx*	100	2,5	13	1000
SAPTY-232 m*	SAPTY-232 mx*	200	2,5	13	1000
SAPTY-24 m*	SAPTY-24 mx*	140	3,5	18	1000
SAPTY-242 m*	SAPTY-242 mx*	200	3,5	18	1000
SAPTY-26 m*	SAPTY-26 mx*	280	3,5	18	1000
SAPTY-244 m*	SAPTY-244 mx*	360	3,5	18	1000
SAPTY-25 m*	SAPTY-25 mx*	186	4,5	30	1000
SAPTY-253 m*	SAPTY-253 mx*	290	4,5	36	1000
SAPTY-28 m*	SAPTY-28 mx*	360	4,5	36	1000
SAPTY-27 m**	SAPTY-27 mx**	340	7,0	60	500



*Also available in 100 pcs

**Also available in 50 pcs

Steel cable ties - 304 Stainless steel



- Non-flammable cable ties for fast installation in automotive, electronics, oil & gas, marine, construction and industrial applications
- Flexible self locking design for easy installation around tubing and bundled wiring
- Smooth surfaces and rounded edges help protect cables while improving installer safety
- Excellent resistance to UV radiation, corrosion, salt water, acids, chemicals, vibration and extreme temperatures, ensuring reliable performance in harsh environments.
- Suitable for indoor, outdoor and food processing applications
- Material: AISI 304 stainless steel
- Standards: DNV-GL approved, UL Listed, CE marked, Reach and RoHs compliant

Part nr.	L mm	W mm	Max. bundle mm	Min. Str. in kgs	Pcs/bag
KKB13045RV5	125	4,6	38,10	90	100
KKB20045RV5	200	4,6	61,90	90	100
KKB30045RV5	290	4,6	90,60	90	100
KKB37045RV5	360	4,6	112,90	90	100
KKB52045RV5	520	4,6	163,90	90	100
KKB68045RV5	680	4,6	214,80	90	100
KKB84045RV5	840	4,6	265,80	90	100
KKB20080RV5	200	7,9	61,90	160	100
KKB30080RV5	290	7,9	90,60	160	100
KKB37080RV5	360	7,9	112,90	160	100
KKB50080RV5	520	7,9	163,90	160	100
KKB68080RV5	680	7,9	214,80	160	100
KKB84080RV5	840	7,9	265,80	160	100
KKB102080RV5	1.020	7,9	323,10	160	100



Tools for stainless steel cable ties

**EPCT0017**

For tightening and cutting stainless steel
cable ties 4,5 - 7,9 mm width
Thickness up to 0,25 mm
Adjustable for 4 levels of bundling pressure
With safety stop

Spare parts available (please see our Tools &
Assortment chapter on page 273)

NOT SUITABLE FOR COATED CABLE TIES

**EPCT0021**

For tightening and cutting stainless steel
cable ties 4,6 - 12 mm width
Thickness up to 0,3 mm

Spiral wrap



- Excellent electrical and physical properties
- Abrasion and flame resistant
- Flexible and low smoke generating
- No dioxin in case of burning
- Halogen free and durable



B
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Part nr. natural	Part nr. black	Bundle mm	Inner Ø mm	Outer Ø mm	Width	Thickness	Mtrs
SW-02	SW-02Z	1 - 5	1,3 ± 0,2	2,5 ± 0,2	3 ± 1	0,50 ± 0,10	25
SW-03	SW-03Z	1,5 - 8	2,0 ± 0,2	3,0 ± 0,2	4 ± 1	0,50 ± 0,10	25
SW-04	SW-04Z	4 - 10	2,8 ± 0,2	4,0 ± 0,2	5 ± 1	0,60 ± 0,10	25
SW-06	SW-06Z	7 - 70	4,8 ± 0,2	6,0 ± 0,2	7 ± 1	0,60 ± 0,10	25
SW-08	SW-08Z	8 - 80	6,7 ± 0,2	8,0 ± 0,2	11 ± 1	0,65 ± 0,10	25
SW-09	SW-09Z	10 - 100	8,7 ± 0,2	10,0 ± 0,2	11 ± 1	0,65 ± 0,10	25
SW-12	SW-12Z	12 - 120	10,6 ± 0,3	12,0 ± 0,3	13 ± 1	0,70 ± 0,10	25
SW-14	SW-14Z	14 - 140	12,5 ± 0,3	14,0 ± 0,3	14 ± 1	0,75 ± 0,10	25
SW-15	SW-15Z	16 - 160	14,5 ± 0,4	16,0 ± 0,3	15 ± 1	0,78 ± 0,10	25
SW-18	SW-18Z	18 - 180	16,0 ± 0,4	18,0 ± 0,4	16 ± 1	1,00 ± 0,15	25
SW-20	SW-20Z	20 - 200	17,8 ± 0,5	20,0 ± 0,5	17 ± 1	1,10 ± 0,30	25
SW-22	SW-22Z	22 - 220	20,0 ± 0,5	22,0 ± 0,5	19 ± 1	1,10 ± 0,30	25
SW-24	SW-24Z	24 - 240	23,0 ± 0,5	24,8 ± 0,5	20 ± 1	1,20 ± 0,30	25
SW-25	SW-25Z	25 - 250	22,6 ± 0,5	25,0 ± 0,5	21 ± 1	1,20 ± 0,30	25
SW-28	SW-28Z	28 - 280	25,4 ± 0,5	28,0 ± 0,5	22 ± 1,5	1,30 ± 0,30	25
SW-30	SW-30Z	30 - 300	27,4 ± 0,8	30,0 ± 0,8	23 ± 1,5	1,30 ± 0,40	25

Expandable braided sleeve



- Polyester protection sleeve for application in wire harnesses, where robust and durable protection is required
- UV resistant and anti-abrasion
- Cutting tool: Hot knife
- Flammability: VW-1
- Certificate: UL, halogen free



Spool*

Part nr.	Nom. size mm	Bundle range mm	Mtrs/spool
EBS-003BK	3	1 - 6	1000
EBS-006BK	6	3 - 9	500
EBS-008BK	8	5 - 16	350
EBS-010BK	10	7 - 19	350
EBS-012BK	12	8 - 24	300
EBS-015BK	15	10 - 27	250
EBS-020BK	20	14 - 30	200
EBS-025BK	25	18 - 35	200
EBS-030BK	30	20 - 50	150
EBS-040BK	40	30 - 60	100
EBS-045BK	45	35 - 75	100
EBS-050BK	50	40 - 80	100
EBS-064BK	64	45 - 105	100
EBS-076BK	76	60 - 120	100

Box*

Part nr.	Nom. size mm	Bundle range mm	Mtrs/box
EBSB-003BK	3	1 - 6	10
EBSB-006BK	6	3 - 9	10
EBSB-008BK	8	5 - 16	10
EBSB-010BK	10	7 - 19	10
EBSB-012BK	12	8 - 24	8
EBSB-015BK	15	10 - 27	8
EBSB-020BK	20	14 - 30	8
EBSB-025BK	25	18 - 35	5
EBSB-030BK	30	20 - 50	5
EBSB-040BK	40	30 - 60	5
EBSB-045BK	45	35 - 75	5
EBSB-050BK	50	40 - 80	3

Bag

Part nr.	Nom. size mm	Bundle range mm	Mtrs/bag
EBS-003BK-20	3	1 - 6	20
EBS-006BK-20	6	3 - 9	20
EBS-010BK-15	10	7 - 19	15
EBS-012BK-15	12	8 - 24	15
EBS-015BK-10	15	10 - 27	10
EBS-025BK-5	25	18 - 35	5
EBS-040BK-5	40	30 - 60	5

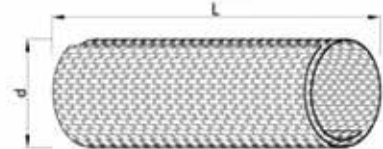


* Please see our EV Products section for orange braided sleeve

Non-expandable self-closing braided wrap

polyester
(PET)operating
temperature
-50°C - 150°Cmelting
point
250 ± 5°CREACH
& RoHS
complianthalogen
free

- Slit-open, polyester protection sleeve for use over wire harnesses, to provide a robust and durable protection
- Cutting tool: Hot knife
- Flammability: VW-1
- Certificate: Halogen free



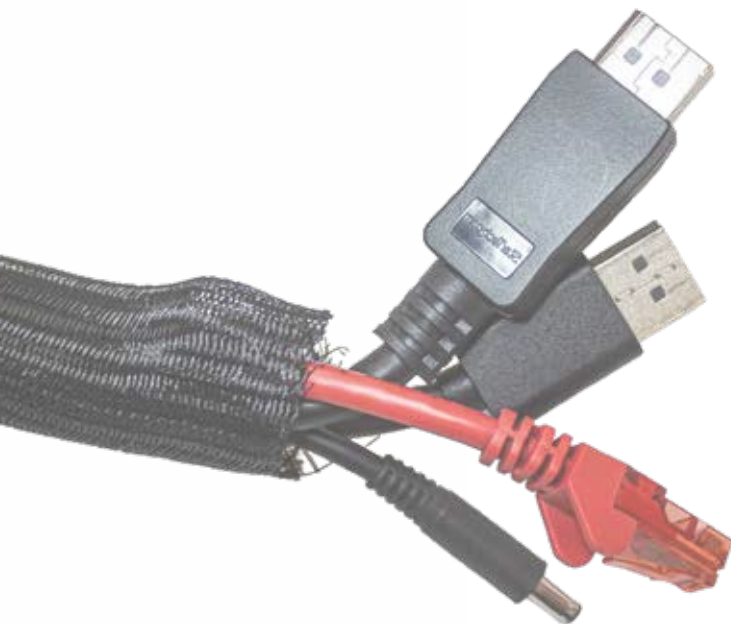
Spool

Part nr.	Inner Ø mm	Max. Ø bundle	Mtrs/spool
SCS-005BK	5	6	100
SCS-008BK	8	9	100
SCS-010BK	10	11	100
SCS-013BK	13	14	50
SCS-016BK	16	17	50
SCS-019BK	19	20	25
SCS-025BK	25	27	25
SCS-029BK	29	31	25
SCS-032BK	32	34	25
SCS-038BK	38	40	25
SCS-050BK	50	52	25

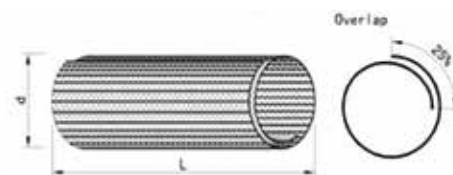
BUNDLING &
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Bag

Part nr.	Inner Ø mm	Max. Ø bundle	Mtrs/bag
SCSB-005BK	5	6	10
SCSB-008BK	8	9	10
SCSB-010BK	10	11	10
SCSB-013BK	13	14	10
SCSB-016BK	16	17	8
SCSB-019BK	19	20	8
SCSB-025BK	25	27	8
SCSB-029BK	29	31	5
SCSB-032BK	32	34	5
SCSB-038BK	38	40	5
SCSB-050BK	50	52	5



Expandable self-closing braided wrap



- Slit-open, polyester protection sleeve for use over wire harnesses, to provide a robust and durable protection.
- Cutting tool: Hot knife
- Flammability: VW - 1
- Certificate: Halogen free

Spool			
Part nr.	Inner Ø mm	Max. Ø bundle	Mtrs/spool
SCW-003BK	3	4	200
SCW-006BK	5	6	200
SCW-009BK	10	11	100
SCW-013BK	13	14	50
SCW-016BK	16	17	50
SCW-019BK	19	20	25
SCW-025BK	25	26	25
SCW-032BK	32	33	25
SCW-038BK	38	40	25
SCW-050BK	50	52	25



Bag			
Part nr.	Inner Ø mm	Max. Ø bundle	Mtrs/bag
SCWB-003BK	3	4	10
SCWB-006BK	5	6	10
SCWB-009BK	10	11	10
SCWB-013BK	13	14	10
SCWB-016BK	16	17	8
SCWB-019BK	19	20	8
SCWB-025BK	25	26	8
SCWB-032BK	32	33	5
SCWB-038BK	38	40	5
SCWB-050BK	50	52	5



Corrugated tube - PP



- High-strength, flexible and flame-retardant polypropylene tubing with excellent bend stability, outstanding shape retention under heat and cold, and superior resistance to acids, chemicals and corrosion.
- Suitable for insulation use in automotive electronics, terminal lugs, small electrical parts, lead wires of toy motors and transformers etc.

Closed*				
Part nr.	Nominal size	Inner Ø mm	Outer Ø mm	Mtrs
CCT06-100	6	6,0 ± 0,3	9,0 ± 0,3	100
CCT07-100	7	7,0 ± 0,3	10,0 ± 0,3	100
CCT09-100	9	9,0 ± 0,3	13,0 ± 0,3	100
CCT09-050	9	9,0 ± 0,3	13,0 ± 0,3	50
CCT10-100	10	10,0 ± 0,3	14,0 ± 0,3	100
CCT10-050	10	10,0 ± 0,3	14,0 ± 0,3	50
CCT11-100	11	11,0 ± 0,3	15,0 ± 0,3	100
CCT12-100	12	12,0 ± 0,3	16,0 ± 0,3	100
CCT13-100	13	13,0 ± 0,3	17,0 ± 0,3	100
CCT13-010	13	13,0 ± 0,3	17,0 ± 0,3	10
CCT16-050	16	16,0 ± 0,3	20,0 ± 0,3	50
CCT17-010	17	17,0 ± 0,3	21,0 ± 0,3	10
CCT19-050	19	19,0 ± 0,3	23,0 ± 0,3	50
CCT22-025	22	22,0 ± 0,3	27,0 ± 0,3	25
CCT23-025	23	23,0 ± 0,3	28,0 ± 0,3	25
CCT25-025	25	25,0 ± 0,3	30,0 ± 0,3	25
CCT26-025	26	26,0 ± 0,3	31,0 ± 0,3	25
CCT28-025	28	28,0 ± 0,3	34,0 ± 0,3	25
CCT30-025	30	30,0 ± 0,3	36,0 ± 0,3	25
CCT32-025	32	32,0 ± 0,3	38,0 ± 0,3	25
CCT35-025	35	35,0 ± 0,3	40,0 ± 0,3	25
CCT40-025	40	40,0 ± 0,3	45,0 ± 0,3	25

Slit*				
Part nr.	Nominal size	Inner Ø mm	Outer Ø mm	Mtrs
PCT045-500	4,5	4,8 ± 0,4	6,4 ± 0,4	500
PCT045-100	4,5	4,8 ± 0,4	6,4 ± 0,4	100
PCT06-100	6	6,0 ± 0,3	9,9 ± 0,3	100
PCT06-025	6	6,0 ± 0,3	9,9 ± 0,3	25
PCT07-100	7	7,0 ± 0,3	10,0 ± 0,3	100
PCT09-100	9	9,0 ± 0,3	13,0 ± 0,3	100
PCT09-025	9	9,0 ± 0,3	13,0 ± 0,3	25
PCT10-100	10	10,0 ± 0,3	14,0 ± 0,3	100
PCT10-025	10	10,0 ± 0,3	14,0 ± 0,3	25
PCT11-100	11	11,0 ± 0,3	15,0 ± 0,3	100
PCT12-100	12	12,0 ± 0,3	16,0 ± 0,3	100
PCT13-100	13	13,0 ± 0,3	17,0 ± 0,3	100
PCT13-025	13	13,0 ± 0,3	17,0 ± 0,3	25
PCT16-050	16	16,0 ± 0,3	20,0 ± 0,3	50
PCT17-025	17	17,0 ± 0,3	21,0 ± 0,3	25
PCT19-050	19	19,0 ± 0,3	23,0 ± 0,3	50
PCT22-025	22	22,0 ± 0,3	27,0 ± 0,3	25
PCT23-025	23	23,0 ± 0,3	28,0 ± 0,3	25
PCT25-025	25	25,0 ± 0,3	30,0 ± 0,3	25
PCT26-025	26	26,0 ± 0,3	31,0 ± 0,3	25
PCT28-025	28	28,0 ± 0,3	34,0 ± 0,3	25
PCT30-025	30	30,0 ± 0,3	36,0 ± 0,3	25
PCT32-025	32	32,0 ± 0,3	38,0 ± 0,3	25
PCT35-025	35	35,0 ± 0,3	40,0 ± 0,3	25
PCT40-025	40	40,0 ± 0,3	45,0 ± 0,3	25

BUNDLING & PROTECTION



* Please see our EV Products section for orange corrugated tube

Corrugated tube - PP/PA



- Suitable for insulation use in automotive electronics, terminal lugs, small electrical parts, lead wires of toy motors and transformers etc.
- Great shape permanence to heat and cold impact (not UV resistant)
- Excellent acid fastness, chemical and corrosion resistance
- Flexible and flame-retardant PP/PA tube
- High strength and bending stable



Closed					
Part nr.	Nominal size	Inner Ø mm	Outer Ø mm	Thickness mm	Mtrs
CGT08-100	8	8,0 ± 0,3	12,0 ± 0,3	≥ 0,25	100
CGT10-100	10	10,0 ± 0,3	14,0 ± 0,3	≥ 0,25	100
CGT13-100	13	13,0 ± 0,3	17,0 ± 0,3	≥ 0,27	100
CGT14-100	14	14,0 ± 0,3	18,0 ± 0,3	≥ 0,27	100
CGT17-050	17	17,0 ± 0,3	21,0 ± 0,3	≥ 0,27	50
CGT22-050	22	22,0 ± 0,3	27,0 ± 0,3	≥ 0,30	50
CGT30-025	30	30,0 ± 0,3	36,0 ± 0,3	≥ 0,35	25

Dual wall					
Part nr.	Nominal size	Inner Ø mm	Outer Ø mm	Thickness mm	Mtrs
2PCT09-025	9	8,9 ± 0,3	13,8 ± 0,3	≥ 0,25	25
2PCT13-025	13	12,8 ± 0,3	18,7 ± 0,3	≥ 0,25	25
2PCT22-025	22	20,0 ± 0,3	25,8 ± 0,3	≥ 0,25	25
2PCT25-025	25	24,8 ± 0,3	31,4 ± 0,3	≥ 0,25	25
2PCT32-025	32	31,4 ± 0,3	41,9 ± 0,3	≥ 0,25	25
2PCT44-025	44	43,3 ± 0,3	54,5 ± 0,3	≥ 0,25	25



Insulation sleeving



- Non-shrinkable PVC insulation sleeving for insulation use in automotive electronics, terminal lugs, small electrical parts, lead wires of motors and transformers
- Available in black and clear
- Flammability: UL 94 VW-1
- Certificate: UL 224, halogen free, ASTM D2671 / ASTM D638
- Oil resistance: Class 01 (only black)
- Max. V_{rms}: 600



Reel					
Part nr. black	Part nr. clear	Nominal size	Inner Ø mm	Wall thickness	Mtrs
IS111	IS111CL	2,0	2,0 ± 0,15	0,50 ± 0,10	50
IS112	IS112CL	2,5	2,5 ± 0,15	0,50 ± 0,10	50
IS113	IS113CL	3,0	3,0 ± 0,15	0,50 ± 0,10	50
IS114	IS114CL	3,5	3,5 ± 0,15	0,50 ± 0,10	50
IS001	IS001CL	4,0	4,0 ± 0,15	0,50 ± 0,10	50
IS002	IS002CL	5,0	5,0 ± 0,15	0,50 ± 0,10	50
IS003	IS003CL	6,0	6,0 ± 0,15	0,50 ± 0,10	50
IS115	IS115CL	7,0	7,0 ± 0,15	0,50 ± 0,10	50
IS004	IS004CL	8,0	8,0 ± 0,15	0,50 ± 0,10	50
IS116	IS116CL	9,0	9,0 ± 0,15	0,50 ± 0,10	50
IS116-25		9,0	9,0 ± 0,15	0,50 ± 0,10	25
IS005	IS005CL	10,0	10,0 ± 0,15	0,50 ± 0,10	50
IS117	IS117CL	11,0	11,0 ± 0,15	0,50 ± 0,10	50
IS117-25		11,0	11,0 ± 0,15	0,50 ± 0,10	25
IS006	IS006CL	12,0	12,0 ± 0,15	0,50 ± 0,10	50
IS006-25		12,0	12,0 ± 0,15	0,50 ± 0,10	25
IS118	IS118CL	13,0	13,0 ± 0,15	0,50 ± 0,10	50
IS119	IS119CL	14,0	14,0 ± 0,15	0,50 ± 0,10	50
IS120	IS120CL	15,0	15,0 ± 0,15	0,50 ± 0,10	50
IS120-25		15,0	15,0 ± 0,15	0,50 ± 0,10	25
IS009	IS009CL	16,0	16,0 ± 0,15	0,70 ± 0,15	50
IS009-25		16,0	16,0 ± 0,15	0,70 ± 0,15	25
IS121	IS121CL	17,0	17,0 ± 0,15	0,70 ± 0,15	50
IS122	IS122CL	18,0	18,0 ± 0,15	0,75 ± 0,15	50
IS123	IS123CL	19,0	19,0 ± 0,15	0,75 ± 0,15	50
IS124	IS124CL	20,0	20,0 ± 0,15	0,75 ± 0,15	50
IS124-25		20,0	20,0 ± 0,15	0,75 ± 0,15	25
IS125	IS125CL	25,0	25,0 ± 0,15	0,75 ± 0,15	50
IS126	IS126CL	30,0	30,0 ± 0,15	1,00 ± 0,15	50
IS127	IS127CL	35,0	35,0 ± 0,15	1,00 ± 0,15	50
IS128	IS128CL	40,0	40,0 ± 0,15	1,00 ± 0,15	50

PVC tape



- Flexible PVC insulation tape with excellent insulation and resistance to water, abrasion and chemicals
- Suitable for indoor and outdoor use for insulating and protecting electrical wires and cables
- Easy installation, ideal for automotive wire harnesses, electrical installations, protecting, bundling and reinforcing
- Material: Plasticized PVC with rubber based adhesive
- Thickness: 0,13 - 0,15 mm
- Tensile strength: > 5 kg/25 mm
- Elongation: > 100%

Standard packing units, 15 or 19 mm x 10 m x 0,13 - 0,15 mm

Part nr. 15 mm	Part nr. 19 mm	Color	Rolls/wrap
IST15BL*	IST19BL	blue	10
IST15BR	IST19BR	brown	10
IST15YE	IST19YE	yellow	10
IST15GS	IST19GS	grey	10
IST15RD*	IST19RD	red	10
IST15GR*	IST19GR	green	10
IST15WH	IST19WH	white	10
IST15BK*	IST19BK*	black	10
IST15GY	IST19GY	green/yellow	10



Sets of 5 pcs, 15 or 19 mm x 10 m x 0,13 - 0,15 mm

Part nr. 15 mm	Part nr. 19 mm	Color	Rolls/wrap
IST15ASS01	IST19ASS01	1x black, 1x red, 1x green, 1x blue, 1x yellow	5
IST15ASS02BK*	IST19ASS02BK*	5x black	5
IST15ASS02WH	IST19ASS02WH	5x white	5

* New stock, please check the new datasheet on our website

Duct tape



- Material: PE cloth, coated with pressure sensitive rubber and hot melt adhesive. Easy to tear high peel strength tape. Water, abrasion and chemical resistant.
- Tensile strength: 90N/25 mm
- Peel strength at 180 °C: 10N/25 mm
- Mesh: 35
- Operating temperature: -30 °C ~ 80 °C

Part nr.	Color	Size L x W	Thickness	Rolls/wrap
DT355025E	white	25 m x 50 mm	0,18 mm	10



Self-fusing tape



- Easy to unwind and resistant to water, ozone, UV and a wide range of chemicals including alkalis, hydraulic fluids and vegetable oils (for use on dry surfaces only).
- Material: Ethylene propylene rubber, black
- Inner core: Blank paper core, Ø 38 mm
- Tensile strength: > 2,5 kg
- Dielectric strenght: 40~45 kV / mm
- Elongation at break: > 500%
- Operating temperature: 90 ~ 130 °C

Part nr.	Liner	Color	Thickness	Length	Rolls/wrap
SFT001	PP synthetic release liner	black	0,75 mm	10,0 m	10
SFT003	PP synthetic release liner	black	0,5 mm	10,0 m	10



Aluminium tape



- Tape coated with Solvent Acrylic adhesive (PSA), resistant to lower temperatures and equipped with a vapor barrier.
- Adhesive strength (steel): 40N/25mm
- Tensile strength: 40N/25mm
- Operating temperature: -30 ~ 80 °C

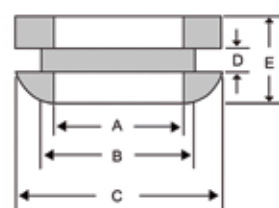
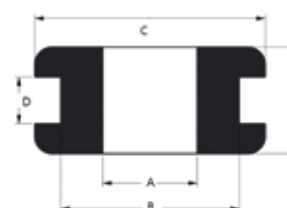
Part nr.	Color	Size L x W	Thickness	Rolls/wrap
AT725SE	aluminium	50 m x 50 mm	0,05 mm	4



Grommets



- Secure wires and cables when passing through a panel hole
- Keeping them secure while protecting them from abrasions, cuts and snags
- Also protect wires and cables from liquid and dust ingress
- Extremely durable and weather-resistant neoprene grommets that withstand tears, abrasions, outdoor conditions, and electrical exposure.
- Material: Eco-friendly rubber
- Hardness: Shore A 60 ± 5
- Temperature Resistance: Up to approx. 80°C



Open grommets

Part nr.	A Ø mm	B Ø mm	C Ø mm	D mm	E mm
HD190050P18	4	7	10	1,6	7
HD190050P316	5	8	12	1,6	7
HD190025P14	7	9	15	2	6,5
HD190025P516	8	10	16	2	6,6
HD190010P38	10	12	17	2	7,2
HD190010P12	10	14	18	1,6	9
HD190010P2564	12	15	22	2,5	10
HD190005P58	18	22	27	2,5	9
HD190005P1116	16	23	28	1,8	8

Blanking grommets

Part nr.	A Ø mm	B Ø mm	C Ø mm	D mm	E mm
HD1700BLGP15	12	15	20	1,5	4,0
HD1700BLGP17	13	17	24	1,5	4,5
HD1700BLGP20	15	20	29	2,0	6,0
HD1700BLGP22	18	22	30	3,0	7,0
HD1700BLGP25	20	25	32	2,0	7,0
HD1700BLGP27	22	27	34	2,0	7,0
HD1700BLGP30	25	30	36	3,0	8,0
HD1700BLGP32	26	32	44	2,0	7,0
HD1700BLGP35	30	35	46	2,0	8,0
HD1700BLGP40	32	40	47	2,5	7,0

Grommets assortment kits



HD190210KC 210 pcs - 9 compartments Open grommets

- 50 st 3,18 x 6,35 mm
- 50 st 4,67 x 7,94 mm
- 35 st 6,35 x 9,53 mm
- 25 st 7,64 x 11,11 mm
- 20 st 9,53 x 12,70 mm
- 10 st 12,70 x 15,90 mm
- 10 st 9,92 x 16,67 mm
- 5 st 15,90 x 22,20 mm
- 5 st 17,50 x 25,40 mm

Sizes A x B (see drawing)

HD170120BG 120 pcs - 10 compartments Blanking grommets

- 20 x 12 x 15 mm
- 20 x 13 x 17 mm
- 15 x 15 x 20 mm
- 15 x 18 x 22 mm
- 10 x 20 x 25 mm
- 10 x 22 x 27 mm
- 10 x 25 x 30 mm
- 10 x 26 x 32 mm
- 5 x 30 x 35 mm
- 5 x 32 x 40 mm

Sizes A x B (see drawing)





Truck & Trailer Parts

Plugs & Sockets

Lighting

Battery

Hose Clamps

Screws, Bolts & Nuts

Wire & Cable

Bundling & Protection

EV Products

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Battery cable	126
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Insulated Terminals

Non-insulated Terminals

Cord End Terminals

Housing

Fuses & Fuse Holders

Relays, Switches, Pilot Lights & Buzzers

Tools & Assortment Kits

Heat shrink sleeve - Single wall 2:1



- Shrink ratio: 2:1
- UL, Reach and RoHS compliant, halogen free
- Excellent acid fastness and corrosion resistance
- Flexible, flame-retardant polyolefin heat shrinkable tubing
- Dielectric strength: ≥ 25 kV/mm
- Flammability: VW - 1

Reel			
Part nr.	Before Ø in mm	After Ø in mm	Mtrs/reel
522001B	1,1 ± 0,20	0,5	200
522002B	1,5 ± 0,20	0,65	200
522003B	2,5 ± 0,20	1,0	200
522004B	3,0 ± 0,20	1,3	200
522005B	5,0 ± 0,20	2,3	100
522006B	6,5 ± 0,20	3,0	100
522007B	9,5 ± 0,30	4,5	100
522008B	12,5 ± 0,30	6,0	100
522009B	15,5 ± 0,40	7,5	100
522010B	19,0 ± 0,50	9,0	100
522011B	26,0 ± 0,50	12,5	50
522012B	36,5 ± 1,00	17,5	50
522013B	≥ 50.0	25,0	25
522014B	≥ 70.0	35,0	25
522015B	≥ 100.0	50,0	25

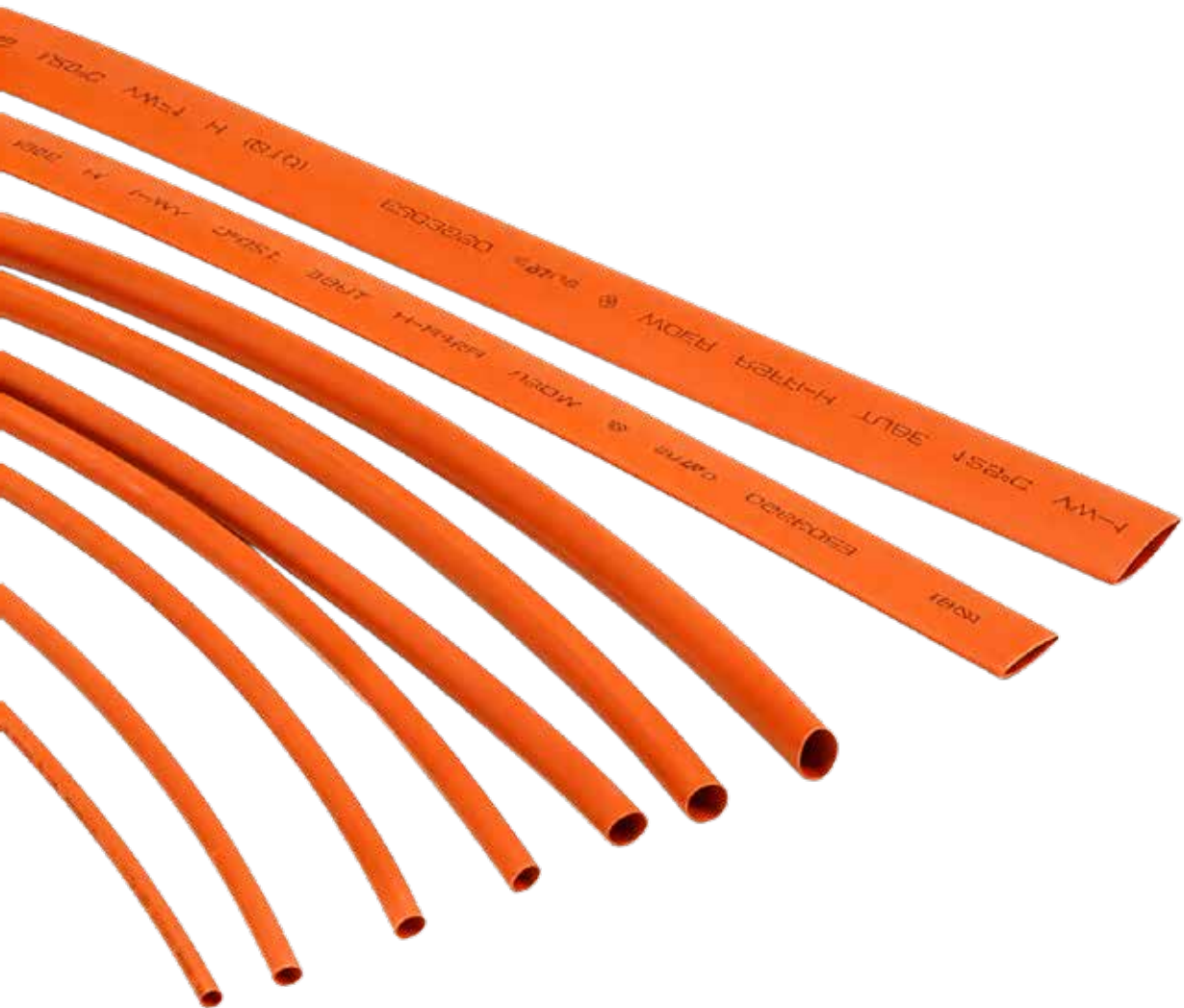


Box			
Part nr.	Before Ø in mm	After Ø in mm	Mtrs/box
522001BB	1,1 ± 0,20	0,5	15
522002BB	1,5 ± 0,20	0,65	15
522003BB	2,5 ± 0,20	1,0	13
522004BB	3,0 ± 0,20	1,3	12
522005BB	5,0 ± 0,20	2,3	11
522006BB	6,5 ± 0,20	3,0	10
522007BB	9,5 ± 0,30	4,5	7
522008BB	12,5 ± 0,30	6,0	6
522009BB	15,5 ± 0,40	7,5	5
522010BB	19,0 ± 0,50	9,0	5
522011BB	26,0 ± 0,50	12,5	4



1.22 m sleeves

Part nr.	Before Ø in mm	After Ø in mm	Mtrs/bag
522001BS	1,1 ± 0,20	0,5	200
522002BS	1,5 ± 0,20	0,65	200
522003BS	2,5 ± 0,20	1,0	200
522004BS	3,0 ± 0,20	1,3	150
522005BS	5,0 ± 0,20	2,3	100
522006BS	6,5 ± 0,20	3,0	50
522007BS	9,5 ± 0,30	4,5	50
522008BS	12,5 ± 0,30	6,0	30
522009BS	15,5 ± 0,40	7,5	30
522010BS	19,0 ± 0,50	9,0	30
522011BS	26,0 ± 0,50	12,5	20
522012BS	36,5 ± 1,00	17,5	10



Heat shrink sleeve - Dual wall 3:1



- Shrink ratio: 3:1 with adhesive liner
- UL, Reach and RoHS compliant, halogen free
- Excellent electrical, physical and chemical properties (acid fast and corrosion resistant)
- Good sealing, waterproof and moisture protection
- Dielectric strength: ≥ 25 kV/mm
- Flammability: VW-1

Reel			
Part nr.	Before Ø in mm	After Ø in mm	Mtrs/reel
722001B	3,2	1,0	200
722002B	4,8	1,6	100
722003B	6,4	2,1	100
722004B	7,9	2,6	100
722005B	9,5	3,2	50
722006B	12,7	4,2	25
722007B	15,4	5,1	25
722008B	19,1	6,4	25
722009B	25,4	8,4	25
722010B	30,0	10,0	25
722011B	39,0	13,0	25
722012B	50,0	16,0	25



Box			
Part nr.	Before Ø in mm	After Ø in mm	Mtrs/box
722001BB	3,2	1,0	5,0
722002BB	4,8	1,6	4,0
722003BB	6,4	2,1	3,5
722004BB	7,9	2,6	3,0
722005BB	9,5	3,2	3,0
722006BB	12,7	4,2	2,5
722007BB	15,4	5,1	2,5
722008BB	19,1	6,4	2,0
722009BB	25,4	8,4	1,5



1.22 m sleeves

Part nr.	Before Ø in mm	After Ø in mm	Pcs/bag
722001BS	3,2	1,0	100
722002BS	4,8	1,6	60
722003BS	6,4	2,1	40
722004BS	7,9	2,6	30
722005BS	9,5	3,2	20
722006BS	12,7	4,2	15
722007BS	15,4	5,1	15
722008BS	19,1	6,4	10
722009BS	25,4	8,4	10



Tools for heat shrink sleeve



MJ-300
Heat gun with micro-flame
(supplied with empty lighter)



90-51773
Universal lighter gas (butane)
200 ml



MJ-600
Flameless heat gun
(supplied with empty lighter)

EV PRODUCTS

Also available

1506073
Blue metal display for six boxes
of shrink sleeve (not included)
With scissors on chain



Cable ties - 100 and 50 Pcs/bag



- Material: Nylon (Polyamide) 6.6
- Quality assurance: UL & IEC 62275, Lloyd's, REACH, SVHC, RoHS II/III, POPs and available in halogen-free grades according to IEC 61249-2-21
- Flammability: UL 94 V-2
- Features: Not resistant to mineral acids, UV and oxidizing agents
Rounded edges to avoid cable damage
Complete range, stable quality and low insertion
- Stock: Orange (OR)



Part nr.	L mm	W mm	Bundle Ø mm	Min. str. in kgrs
KKB8024OR	75	2,5	2 ~ 16	8
KKB10025OR	100	2,5	2 ~ 24	8
KKB14025OR	135	2,5	2 ~ 35	8
KKB16025OR	160	2,5	2 ~ 42	8
KKB20025OR	200	2,5	2 ~ 55	8
KKB14036OR	140	3,5	2,5 ~ 36	15
KKB20036OR	200	3,5	2,5 ~ 55	15
KKB29236OR	280	3,5	2,5 ~ 80	15
KKB37036OR	360	3,5	5 ~ 103	15
KKB12048OR	140	4,5	2,5 ~ 33	22
KKB16048OR	160	4,5	2,5 ~ 38	22
KKB18848OR	180	4,5	3 ~ 45	22
KKB20048OR	200	4,5	3 ~ 51	22
KKB25048OR	250	4,5	5 ~ 68	22
KKB28048OR	280	4,5	5 ~ 76	22
KKB30048OR	300	4,5	5 ~ 80	22
KKB36848OR	360	4,5	5 ~ 101	22
KKB39048OR	380	4,5	5 ~ 110	22
KKB43048OR	430	4,5	5 ~ 123	22

Part nr.	L mm	W mm	Bundle Ø mm	Min. str. in kgrs
KKB15076OR	180	7,5	5 ~ 44	46
KKB20076OR	200	7,5	5 ~ 48	46
KKB25076OR	240	7,5	5 ~ 62	46
KKB29276OR	280	7,5	5 ~ 76	46
KKB36876OR	360	7,5	5 ~ 101	46
KKB45076OR	450	7,5	20 ~ 130	46
KKB54076OR	540	7,5	20 ~ 160	46
KKB75076OR	750	7,5	32 ~ 222	46
KKB43090OR	430	9,0	20 ~ 118	68
KKB53090OR	550	9,0	20 ~ 160	68
KKB77590OR	780	9,0	20 ~ 235	68
KKB92090OR	920	9,0	40 ~ 280	68
KKB122090OR	1220	9,0	40 ~ 375	68
KKB153090OR	1330	9,0	40 ~ 409	68

Cable ties - 50 Pcs/bag

Part nr. black	L mm	W mm	Bundle Ø mm	Min. str. in kgrs
KKB230130OR	250	12,5	10 ~ 62	98
KKB480130OR	500	12,5	40 ~ 222	98
KKB730130OR	750	12,5	40 ~ 300	98
KKB1030130OR	1000	12,5	40 ~ 300	98

Tools for nylon cable ties

LY-600A
For tightening and cutting nylon cable ties
2,4 - 4,8 mm width
Thickness up to 1,45 mm
Adjustable



LY-600L
For tightening and cutting nylon cable ties
up to 13 mm width
Thickness up to 1,5 mm
Adjustable



LY-600T
For tightening and cutting nylon cable ties
2,2 - 4,8 mm width
Thickness up to 1,6 mm
Adjustable



KBT-5A
For tightening and cutting nylon cable ties
up to 12 mm width
Thickness up to 2,3 mm
With safe stop

Also available

1503043
Blue metal display for 5 sizes
of cable ties (not included)

Corrugated tube - PP



- High-strength, flexible and flame-retardant polypropylene tubing with excellent bend stability, outstanding shape retention under heat and cold, and superior resistance to acids, chemicals and corrosion.
- Suitable for insulation use in automotive electronics, terminal lugs, small electrical parts, lead wires of toy motors and transformers etc.

Closed				
Part nr.	Nominal size	Inner Ø mm	Outer Ø mm	Mtrs/reel
CCTE06-100	6,0	6,0 ± 0,3	9,0 ± 0,3	100
CCTE09-100	9,0	9,0 ± 0,3	13,0 ± 0,3	100
CCTE11-100	11,0	11,0 ± 0,3	15,0 ± 0,3	100
CCTE13-100	13,0	13,0 ± 0,3	17,0 ± 0,3	100
CCTE16-050	16,0	16,0 ± 0,3	20,0 ± 0,3	50
CCTE19-050	19,0	19,0 ± 0,3	23,0 ± 0,3	50
CCTE20-100	20,0	20,0 ± 0,3	24,0 ± 0,3	100
CCTE20-025	20,0	20,0 ± 0,3	24,0 ± 0,3	25
CCTE22-100	22,0	22,0 ± 0,3	26,0 ± 0,3	100
CCTE25-025	25,0	25,0 ± 0,3	30,0 ± 0,3	25
CCTE28-050	28,0	28,0 ± 0,3	34,0 ± 0,3	50
CCTE28-025	28,0	28,0 ± 0,3	34,0 ± 0,3	25
CCTE30-025	30,0	30,0 ± 0,3	36,0 ± 0,3	25
CCTE32-025	32,0	32,0 ± 0,3	38,0 ± 0,3	25
CCTE35-025	35,0	35,0 ± 0,3	40,0 ± 0,3	25



Slit				
Part nr.	Nominal size	Inner Ø mm	Outer Ø mm	Mtrs/reel
PCTE06 - 100	6,0	6,0 ± 0,3	9,0 ± 0,3	100
PCTE09 - 100	9,0	9,0 ± 0,3	13,0 ± 0,3	100
PCTE11 - 100	11,0	11,0 ± 0,3	15,0 ± 0,3	100
PCTE13 - 100	13,0	13,0 ± 0,3	17,0 ± 0,3	100
PCTE16 - 050	16,0	16,0 ± 0,3	20,0 ± 0,3	50
PCTE19 - 050	19,0	19,0 ± 0,3	23,0 ± 0,3	50
PCTE22 - 025	22,0	22,0 ± 0,3	27,0 ± 0,3	25
PCTE25 - 025	25,0	25,0 ± 0,3	30,0 ± 0,3	25
PCTE28 - 025	28,0	28,0 ± 0,3	34,0 ± 0,3	25
PCTE30 - 025	30,0	30,0 ± 0,3	36,0 ± 0,3	25
PCTE32 - 025	32,0	32,0 ± 0,3	38,0 ± 0,3	25
PCTE35 - 025	35,0	35,0 ± 0,3	40,0 ± 0,3	25



Expandable braided sleeve



- Polyester protection sleeve for application in wire harnesses, where tough and durable protection is required
- UV resistant and anti-abrasion
- Cutting tool: Hot knife
- Flammability: VW-1
- Certificate: UL, halogen free

Reel			
Part nr.	Nom. size mm	Bundle range mm	Mtrs/reel
EBS-003OR	3	1 - 6	1000
EBS-006OR	6	3 - 9	500
EBS-008OR	8	5 - 16	350
EBS-010OR	10	7 - 19	350
EBS-012OR	12	8 - 24	300
EBS-015OR	15	10 - 27	250
EBS-020OR	20	14 - 30	200
EBS-025OR	25	18 - 35	200
EBS-030OR	30	20 - 50	150
EBS-040OR	40	30 - 60	100
EBS-045OR	45	35 - 75	100
EBS-050OR	50	40 - 80	100
EBS-064OR	64	45 - 105	100
EBS-076OR	76	64 - 120	100



Box			
Part nr.	Nom. size mm	Bundle range mm	Mtrs/box
EBSB-003OR	3	1 - 6	10
EBSB-006OR	6	3 - 9	10
EBSB-008OR	8	5 - 16	10
EBSB-010OR	10	7 - 19	10
EBSB-012OR	12	8 - 24	8
EBSB-015OR	15	10 - 27	8
EBSB-020OR	20	14 - 30	8
EBSB-025OR	25	18 - 35	5
EBSB-030OR	30	20 - 50	5
EBSB-040OR	40	30 - 60	5
EBSB-045OR	45	35 - 75	5
EBSB-050OR	50	40 - 80	3

Double insulated battery cable

- Conductor: Annealed copper strands (Class 6, very flexible)
- Insulation conductor: PVC
- Outer insulation: NBR PVC, RAL 2008 (orange)
- Bending radius: 10 x D for fixed layings
- Quality assurance: IEC 60811-1-1 (insulating and sheath materials, common test methods)
IEC 60288 (conductor of insulated cables)
IEC 62230 (electric cable, spark test method)
IEC 60060-1 (high voltage test techniques)
- Operating rating: 0,6 ~ 1kV
- Test rating: 3,5kV
- Operating temperature: -40 °C ~ 70 °C
- Flame spread: IEC 60332-1-2

Reel						
Part nr.	Rating	Wire size	Max conductor resistance (Ohm/km)	Outer Ø cable (mm)	Weight cable (kg/km)	Mtrs/ reel
PE7000E050RL	213A	70 mm ²	0,272	15,30	737	50
PE9500E050RL	264A	95 mm ²	0,206	17,40	965	50

Spool						
Part nr.	Rating	Wire size	Max conductor resistance (Ohm/km)	Outer Ø cable (mm)	Weight cable (kg/km)	Mtrs/ spool
PE1000E050SP	64A	10 mm ²		7,90	134	50
PE1600E050SP	84A	16 mm ²	1,210	9,20	191	50
PE2500E050SP	114A	25 mm ²	0,780	10,40	274	50
PE3500E050SP	139A	35 mm ²	0,544	11,30	376	50
PE5000E050SP	169A	50 mm ²	0,386	13,10	531	50



Bolt-on fuses - evOTO series EV27-M4*



- Meets international specs, complies to ISO 8820-8 and other standards
- Ceramic tube, laser marked, silica sand filled
- Rigid Ni-plated copper alloy connections
- M4 connection holes, spaced 45 mm
- Maximum torque 2.1 Nm $\pm$ 0.2 Nm
- Breaking capacity: 2.000A at 450V



Part nr.	Rating (A)	Rating (V)	Holes
EV27-001-M4	1	450	M4
EV27-005-M4	5	450	M4

Bolt-on fuses - evOTO series EV27-M5*



- Meets international specs, complies to ISO 8820-8 and other standards
- Ceramic tube, laser marked, silica sand filled
- Rigid Sn-plated copper alloy connections
- M5 connection holes, spaced 53,5mm
- Maximum torque 4.5Nm $\pm$ 1 Nm
- Breaking capacity: 20.000A at 500V



Part nr.	Rating (A)	Rating (V)	Holes
EV27-015-M5	15	500	M5
EV27-020-M5	20	500	M5
EV27-030-M5	30	500	M5
EV27-040-M5	40	500	M5
EV27-050-M5	50	500	M5

Bolt-on fuses - evOTO series EV28-M6*



- Meets international specs, complies to ISO 8820-8 and other standards
- Ceramic tube, laser marked, silica sand filled
- Rigid Sn-plated copper alloy connections
- M6 connection holes, spaced 60 mm
- Maximum torque 9.0 Nm $\pm$ 1.0 Nm
- Breaking capacity: 20.000A at 500V



Part nr.	Rating (A)	Rating (V)	Holes
EV28-060-M6	60	500	M6
EV28-070-M6	70	500	M6
EV28-080-M6	80	500	M6
EV28-100-M6	100	500	M6
EV28-125-M6	125	500	M6

* All evOTO fuses are available per piece

Bolt-on fuses - evOTO series EV29-M8*



- Meets international specs, complies to ISO 8820-8 and other standards
- UP tube, closed with epoxy resin laser marked, silica sand filled
- Rigid copper alloy connections
- M8 connection holes, spaced 74,8mm
- Maximum torque 12Nm $\pm$ 1 Nm
- Breaking capacity: 16.000A at 500V

Part nr.	Rating (A)	Rating (V)	Holes
EV29-150-M8	150	500	M8
EV29-175-M8	175	500	M8
EV29-200-M8	200	500	M8
EV29-225-M8	225	500	M8
EV29-250-M8	250	500	M8
EV29-300-M8	300	500	M8



Bolt-on fuses - evOTO series EV29-M8HR*



- Meets international specs, complies to ISO 8820-8 and other standards
- UP tube, closed with epoxy resin laser marked, silica sand filled
- Rigid Sn-plated copper alloy connections
- M8 connection holes, spaced 74,8mm
- Maximum torque 12Nm $\pm$ 1Nm
- Breaking capacity: 30.000A at 500V

Part nr.	Rating (A)	Rating (V)	Holes
EV29-350-M8	350	500	M8
EV29-400-M8	400	500	M8
EV29-450-M8	450	500	M8
EV29-500-M8	500	500	M8



Bolt-on fuses - evOTO series EV29-M10*



- Meets international specs, complies to ISO 8820-8 and other standards
- UP tube, closed with epoxy resin laser marked, silica sand filled
- Rigid Sn-plated copper alloy connections
- M10 connection holes, spaced 80mm
- Maximum torque 16Nm $\pm$ 1Nm
- Breaking capacity: 30.000A at 500V

Part nr.	Rating (A)	Rating (V)	Holes
EV29-600-M10	600	500	M10
EV29-700-M10	700	500	M10
EV29-800-M10	800	500	M10
EV29-900-M10	900	500	M10
EV29-1000-M10	1000	500	M10



* All evOTO fuses are available per piece



Insulated Terminals

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Waterproof - gel splice	176

Non-insulated Terminals

Cord End Terminals

Housing

Fuses & Fuse Holders

Relays, Switches, Pilot Lights & Buzzers

Tools & Assortment Kits



RoHS
COMPLIANT

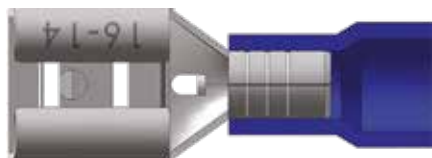
Features

- Heat resistant
- Cold resistant
- Exceptional insulation performance

Insulation

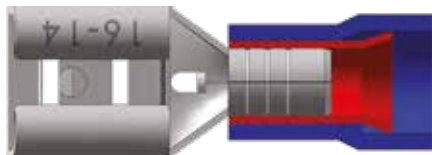
- Vinyl (PVC): operating temp. -10 °C ~75 °C
- Nylon (PA): operating temp. -40 °C~105 °C, halogen free

Standard Execution

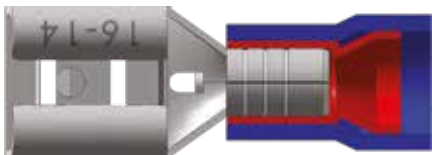


Copper Sleeve

- Straight copper sleeve tin plated (PVC only)



- Easy entry copper sleeve tin plated



Explanation part nr.

1

Type qualification

(R)B	Standard
(R)E	Easy entry

2

Insulation execution

F	Flared (half insulated)
L	Fully insulated

3

Insulation type

V	Vinyl (PVC)
N	Nylon

4

Copper sleeve

D	With Copper sleeve
No indication	= Without

5

Type indication

DF	Disconnect Female
DM	Disconnect Male

6

Wire size mm²

1.25	0,5 - 1,5 mm ²
2	1,5 - 2,5 mm ²
5.5	4 - 6 mm ²

7

Tab size

110	2,8 x 0,5 / 0,8
187	4,8 x 0,5 / 0,8
250	6,3 x 0,8
312	8,0 x 0,8
375	9,4 x 1,2

Example:

RBFVDDM 2-250						
RB	F	V	D	DM	2	250
1	2	3	4	5	6	7

Insulated terminal types



Ring*



Spade*



Flange*



Hook*



Pin*



Blade*



Butt connector*



Female disconnect*



Female flag disconnect*



Male disconnect*



Piggy back*



Female bullet disconnect*



Male bullet disconnect*



Closed-end*



Quick splice single



Quick splice double



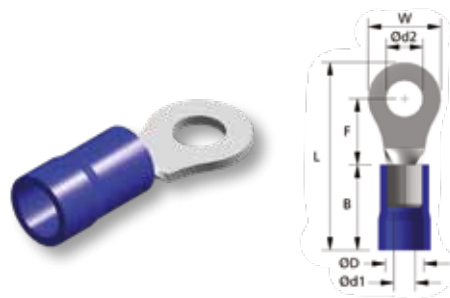
Quick splice fuse



Quick splice female*

* These terminals are packed per 1000 pcs as follows:
1 large, **labeled** bag contains 10 small, **unlabeled** bags of 100 pcs (10x100).
The small bags of 100 pcs can be purchased separately.

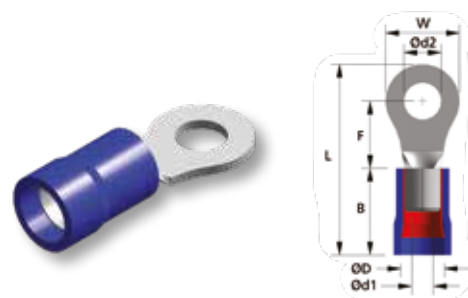
PVC ring terminals - Standard



Wire range	Part nr.	Ø d2 ± 0,3	W ± 0,3	F ± 0,3	L ± 1,5	B ± 1,0	ØD ± 0,5	Ød1 ± 0,3	Packed	UL
22~16 AWG 0,5~1,5 mm ²	RBFV 1.25-3	3,2	5,5	4,8	17,5	10,0	4,3	1,7	10 x 100	✓
	RBFV 1.25-M3	3,7	6,6	6,3	19,4	10,0	4,3	1,7	10 x 100	✓
	RBFV 1.25-3.5L	3,7	8,0	7,0	20,8	10,0	4,3	1,7	10 x 100	✓
	RBFV 1.25-4	4,3	6,6	6,3	19,4	10,0	4,3	1,7	10 x 100	✓
	RBFV 1.25-5	5,3	8,0	7,0	20,8	10,0	4,3	1,7	10 x 100	✓
	RBFV 1.25-6	6,4	11,6	11,0	26,7	10,0	4,3	1,7	10 x 100	✓
	RBFV 1.25-8	8,4	11,6	11,0	26,7	10,0	4,3	1,7	10 x 100	✓
	RBFV 1.25-10	10,5	13,6	13,9	30,5	10,0	4,3	1,7	10 x 100	✓
	RBFV 1.25-12	13,0	18,0	16,0	34,0	10,0	4,3	1,6	10 x 100	✓
16~14 AWG 1,5~2,5 mm ²	RBFV 2-S3.3	3,2	6,6	4,7	17,8	10,0	4,8	2,3	10 x 100	✓
	RBFV 2-S3	3,7	6,6	6,3	19,5	10,0	4,8	2,3	10 x 100	✓
	RBFV 2-4	4,3	8,5	7,8	21,8	10,0	4,8	2,3	10 x 100	✓
	RBFV 2-5S	5,3	8,5	7,8	21,8	10,0	4,8	2,3	10 x 100	✓
	RBFV 2-5	5,3	9,5	7,3	22,0	10,0	4,8	2,3	10 x 100	✓
	RBFV 2-6	6,4	12,0	11,0	26,9	10,0	4,8	2,3	10 x 100	✓
	RBFV 2-8	8,4	12,0	11,0	26,9	10,0	4,8	2,3	10 x 100	✓
	RBFV 2-10	10,5	13,5	13,6	30,5	10,0	4,8	2,3	10 x 100	✓
	RBFV 2-12	13,0	18,0	15,0	34,0	10,0	4,8	2,3	10 x 100	✓
12~10 AWG 4,0~6,0 mm ²	RBFV 5.5-3	3,7	7,2	6,1	22,7	13,0	6,7	3,4	10 x 100	✓
	RBFV 5.5-S4	4,3	7,2	6,1	22,7	13,0	6,7	3,4	10 x 100	✓
	RBFV 5.5-4	4,3	9,5	8,3	26,0	13,0	6,7	3,4	10 x 100	✓
	RBFV 5.5-5	5,3	9,5	8,3	26,0	13,0	6,7	3,4	10 x 100	✓
	RBFV 5.5-6	6,4	12,0	10,5	29,5	13,0	6,7	3,4	10 x 100	✓
	RBFV 5.5-8	8,4	15,0	13,5	34,0	13,0	6,7	3,4	10 x 100	✓
	RBFV 5.5-10	10,5	15,0	13,5	34,0	13,0	6,7	3,4	10 x 100	✓
	RBFV 5.5-12	13,0	19,2	16,0	38,6	13,0	6,7	3,4	10 x 100	✓

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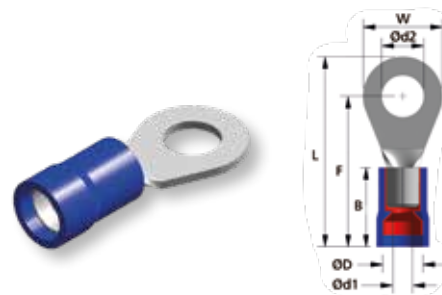
PVC ring terminals - Straight copper sleeve



Wire range	Part nr.	Ød2 ± 0,3	W ± 0,3	F ± 0,5	L ± 1,5	B ± 1,0	ØD ± 0,5	Ød1 ± 0,3	Packed	UL
22~16 AWG 0,5~1,5 mm ²	RBFVD 1.25-3	3,2	5,5	4,8	18,8	11,3	4,3	1,7	10 x 100	
	RBFVD 1.25-M3	3,7	6,6	6,3	20,7	11,3	4,3	1,7	10 x 100	
	RBFVD 1.25-4	4,3	6,6	6,3	20,7	11,3	4,3	1,7	10 x 100	
	RBFVD 1.25-5	5,3	8,0	7,0	22,1	11,3	4,3	1,7	10 x 100	
	RBFVD 1.25-6	6,4	11,6	11,0	28,0	11,3	4,3	1,7	10 x 100	
	RBFVD 1.25-8	8,4	11,6	11,0	28,0	11,3	4,3	1,7	10 x 100	
	RBFVD 1.25-10	10,5	13,6	13,9	31,8	11,3	4,3	1,7	10 x 100	
16~14 AWG 1,5~2,5 mm ²	RBFVD 2-S3.3	3,2	6,6	4,7	19,3	11,5	5,0	2,3	10 x 100	
	RBFVD 2-S3	3,7	6,6	6,3	21,0	11,5	5,0	2,3	10 x 100	
	RBFVD 2-4	4,3	8,5	7,4	23,0	11,5	5,0	2,3	10 x 100	
	RBFVD 2-5	5,3	9,5	7,4	23,5	11,5	5,0	2,3	10 x 100	
	RBFVD 2-6	6,4	12,0	11,0	28,3	11,5	5,0	2,3	10 x 100	
	RBFVD 2-8	8,4	12,0	11,0	28,3	11,5	5,0	2,3	10 x 100	
	RBFVD 2-10	10,5	13,6	13,6	32,0	11,5	5,0	2,3	10 x 100	
12~10 AWG 4,0~6,0 mm ²	RBFVD 5.5-3	3,7	7,2	6,1	23,7	14,0	6,8	3,4	10 x 100	
	RBFVD 5.5-4	4,3	9,5	8,3	27,5	14,0	6,8	3,4	10 x 100	
	RBFVD 5.5-5	5,3	9,5	8,3	27,5	14,0	6,8	3,4	10 x 100	
	RBFVD 5.5-6	6,4	12,0	10,5	30,5	14,0	6,8	3,4	10 x 100	
	RBFVD 5.5-8	8,4	15,0	13,5	35,0	14,0	6,8	3,4	10 x 100	
	RBFVD 5.5-10	10,5	15,0	13,5	35,0	14,0	6,8	3,4	10 x 100	
	RBFVD 5.5-12	13,0	19,2	16,0	39,6	14,0	6,8	3,4	10 x 100	

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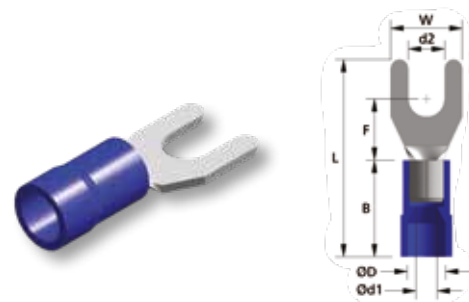
PVC ring terminals - Easy Entry copper sleeve



- Conductor size according to DIN 46234

Wire range	Part nr.	Ød2	W	F ± 1,0	L ± 1,5	B ± 1,0	ØD ± 0,5	Ød1 ± 0,3	Packed	UL
22~16 AWG 0,5~1,5 mm ²	REFVD 1.25-3DIN	3,2 ± 0,18	6,0 ± 0,18	16,0	20,3	11,3	4,3	1,7	10 x 100	
	REFVD 1.25-M3DIN	3,7 ± 0,18	6,0 ± 0,18	16,0	20,3	11,3	4,3	1,7	10 x 100	
	REFVD 1.25-4DIN	4,3 ± 0,18	8,0 ± 0,2	17,0	22,3	11,3	4,3	1,7	10 x 100	
	REFVD 1.25-5DIN	5,3 ± 0,18	10,0 ± 0,2	18,0	24,3	11,3	4,3	1,7	10 x 100	
	REFVD 1.25-6DIN	6,5 ± 0,2	11,0 ± 0,2	20,0	26,8	11,3	4,3	1,7	10 x 100	
	REFVD 1.25-8DIN	8,4 ± 0,2	14,0 ± 0,25	22,0	30,3	11,3	4,3	1,7	10 x 100	
	REFVD 1.25-10DIN	10,5 ± 0,25	18,0 ± 0,25	24,0	34,3	11,3	4,3	1,7	10 x 100	
16~14 AWG 1,5~2,5 mm ²	REFVD 2-S3.3DIN	3,2 ± 0,18	6,0 ± 0,18	16,0	20,5	11,5	5,0	2,3	10 x 100	
	REFVD 2-S3DIN	3,7 ± 0,18	6,0 ± 0,18	16,0	20,5	11,5	5,0	2,3	10 x 100	
	REFVD 2-4DIN	4,3 ± 0,18	8,0 ± 0,22	17,0	22,5	11,5	5,0	2,3	10 x 100	
	REFVD 2-5DIN	5,3 ± 0,18	10,0 ± 0,22	19,0	25,5	11,5	5,0	2,3	10 x 100	
	REFVD 2-6DIN	6,5 ± 0,2	11,0 ± 0,25	21,0	28,0	11,5	5,0	2,3	10 x 100	
	REFVD 2-8DIN	8,4 ± 0,2	14,0 ± 0,25	22,0	30,5	11,5	5,0	2,3	10 x 100	
	REFVD 2-10DIN	10,5 ± 0,22	18,0 ± 0,25	23,5	34,0	11,5	5,0	2,3	10 x 100	
12~10 AWG 4,0~6,0 mm ²	REFVD 2-12DIN	13,0 ± 0,22	18,0 ± 0,25	25,0	35,5	11,5	5,0	2,3	10 x 100	
	REFVD 5.5-4DIN	4,3 ± 0,18	8,0 ± 0,22	21,0	26,0	14,0	6,7	3,4	10 x 100	
	REFVD 5.5-5DIN	5,3 ± 0,18	10,0 ± 0,22	22,0	28,0	14,0	6,7	3,4	10 x 100	
	REFVD 5.5-6DIN	6,5 ± 0,22	11,0 ± 0,25	22,5	29,0	14,0	6,7	3,4	10 x 100	
	REFVD 5.5-8DIN	8,4 ± 0,22	14,0 ± 0,25	26,0	34,0	14,0	6,7	3,4	10 x 100	
	REFVD 5.5-10DIN	10,5 ± 0,25	18,0 ± 0,25	28,0	38,0	14,0	6,7	3,4	10 x 100	
	REFVD 5.5-12DIN	13,0 ± 0,25	18,0 ± 0,25	28,0	38,0	14,0	6,7	3,4	10 x 100	

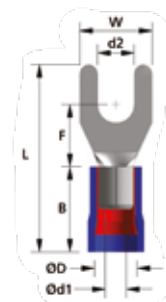
PVC spade terminals - Standard



Wire range	Part nr.	d2 ± 0,3	W ± 0,3	F ± 0,5	L ± 1,5	B ± 1,0	ØD ± 0,5	Ød1 ± 0,3	Packed	UL
22~16 AWG 0,5~1,5 mm ²	RBFV 1.25-B3A	3,3	5,7	6,5	20,6	10,0	4,3	1,7	10 x 100	✓
	RBFV 1.25-YS3A	3,8	6,4	6,5	20,6	10,0	4,3	1,7	10 x 100	✓
	RBFV 1.25-YS4A	4,4	6,4	6,5	20,6	10,0	4,3	1,7	10 x 100	✓
	RBFV 1.25-S4A	4,4	7,2	6,5	20,6	10,0	4,3	1,7	10 x 100	✓
	RBFV 1.25-5A	5,4	8,1	6,5	20,6	10,0	4,3	1,7	10 x 100	✓
	RBFV 1.25-6A	6,5	9,5	6,0	20,6	10,0	4,3	1,7	10 x 100	✓
16~14 AWG 1,5~2,5 mm ²	RBFV 2-B3A	3,3	5,7	6,5	21,0	10,0	4,8	2,3	10 x 100	✓
	RBFV 2-YS3A	3,8	6,0	6,5	21,0	10,0	4,8	2,3	10 x 100	✓
	RBFV 2-S3A	3,8	7,2	6,5	21,0	10,0	4,8	2,3	10 x 100	✓
	RBFV 2-YS4A	4,3	6,4	6,5	21,0	10,0	4,8	2,3	10 x 100	✓
	RBFV 2-S4A	4,4	7,2	6,5	21,0	10,0	4,8	2,3	10 x 100	✓
	RBFV 2-5A	5,4	8,1	6,5	21,0	10,0	4,8	2,3	10 x 100	✓
	RBFV 2-S5A	5,4	9,3	6,5	21,0	10,0	4,8	2,3	10 x 100	✓
	RBFV 2-6A	6,5	12,0	11,0	27,0	10,0	4,8	2,3	10 x 100	✓
12~10 AWG 4,0~6,0 mm ²	RBFV 5.5-3A	3,8	8,3	7,0	25,5	13,0	6,7	3,4	10 x 100	✓
	RBFV 5.5-S4A	4,4	8,3	7,0	25,5	13,0	6,7	3,4	10 x 100	✓
	RBFV 5.5-4LA	4,4	9,0	7,0	25,5	13,0	6,7	3,4	10 x 100	✓
	RBFV 5.5-5A	5,4	9,0	7,0	25,5	13,0	6,7	3,4	10 x 100	✓
	RBFV 5.5-6A	6,5	12,0	12,0	31,5	13,0	6,7	3,4	10 x 100	✓
	RBFV 5.5-8A	8,5	14,0	14,0	30,5	13,0	6,7	3,4	10 x 100	✓

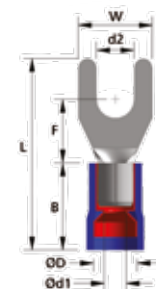
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PVC spade terminals - Straight copper sleeve



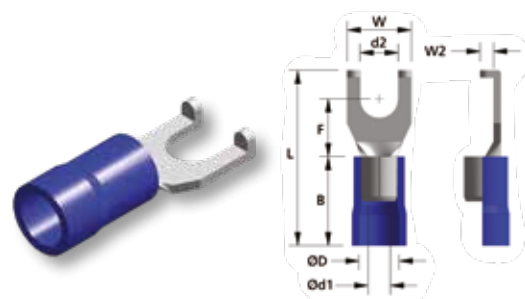
Wire range	Part nr.	d2 ± 0,3	W ± 0,3	F ± 0,5	L ± 1,5	B ± 1,0	ØD ± 0,5	Ød1 ± 0,3	Packed	UL
22~16 AWG 0,5~1,5 mm ²	RBFVD 1.25-B3A	3,3	5,7	6,5	22,0	11,3	4,3	1,7	10 x 100	
	RBFVD 1.25-YS3A	3,8	6,4	6,5	22,0	11,3	4,3	1,7	10 x 100	
	RBFVD 1.25-YS4A	4,4	6,4	6,5	22,0	11,3	4,3	1,7	10 x 100	
	RBFVD 1.25-S4A	4,4	7,2	6,5	22,0	11,3	4,3	1,7	10 x 100	
	RBFVD 1.25-5A	5,4	8,1	6,5	22,0	11,3	4,3	1,7	10 x 100	
	RBFVD 1.25-6A	6,5	9,5	6,0	22,0	11,3	4,3	1,7	10 x 100	
16~14 AWG 1,5~2,5 mm ²	RBFVD 2-YS3A	3,8	6,4	6,5	22,5	11,5	5,0	2,3	10 x 100	
	RBFVD 2-YS4A	4,3	6,4	6,5	22,5	11,5	5,0	2,3	10 x 100	
	RBFVD 2-S4A	4,4	7,2	6,5	22,5	11,5	5,0	2,3	10 x 100	
	RBFVD 2-5A	5,4	8,1	6,5	22,5	11,5	5,0	2,3	10 x 100	
	RBFVD 2-6A	6,5	12,0	11,0	28,5	11,5	5,0	2,3	10 x 100	
12~10 AWG 4,0~6,0 mm ²	RBFVD 5.5-3A	3,8	8,3	7,0	26,5	14,0	6,8	3,4	10 x 100	
	RBFVD 5.5-S4A	4,4	8,3	7,0	26,5	14,0	6,8	3,4	10 x 100	
	RBFVD 5.5-5A	5,4	9,0	7,0	26,5	14,0	6,8	3,4	10 x 100	
	RBFVD 5.5-6A	6,5	12,0	12,0	32,5	14,0	6,8	3,4	10 x 100	
	RBFVD 5.5-8A	8,5	14,0	11,5	31,5	14,0	6,8	3,4	10 x 100	

PVC spade terminals - Easy Entry copper sleeve



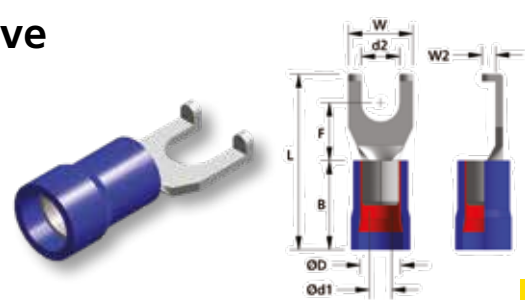
Wire range	Part nr.	d2 ± 0,3	W ± 0,3	F ± 0,5	L ± 1,5	B ± 1,0	ØD ± 0,5	Ød1 ± 0,3	Packed	UL
22~16 AWG 0,5~1,5 mm ²	REFVD 1.25-B3A	3,3	5,7	6,5	22,0	11,3	4,3	1,7	10 x 100	
	REFVD 1.25-YS3A	3,8	6,4	6,5	22,0	11,3	4,3	1,7	10 x 100	
	REFVD 1.25-YS4A	4,4	6,4	6,5	22,0	11,3	4,3	1,7	10 x 100	
	REFVD 1.25-S4A	4,4	7,2	6,5	22,0	11,3	4,3	1,7	10 x 100	
	REFVD 1.25-5A	5,4	8,1	6,5	22,0	11,3	4,3	1,7	10 x 100	
	REFVD 1.25-6A	6,5	9,5	6,0	22,0	11,3	4,3	1,7	10 x 100	
16~14 AWG 1,5~2,5 mm ²	REFVD 2-YS3A	3,8	6,4	6,5	22,5	11,5	5,0	2,3	10 x 100	
	REFVD 2-YS4A	4,4	6,4	6,5	22,5	11,5	5,0	2,3	10 x 100	
	REFVD 2-5A	5,4	8,1	6,5	22,5	11,5	5,0	2,3	10 x 100	
	REFVD 2-6A	6,5	12,0	11,0	28,5	11,5	5,0	2,3	10 x 100	
12~10 AWG 4,0~6,0 mm ²	REFVD 5.5-S4A	4,4	8,3	7,0	26,5	14,0	6,8	3,4	10 x 100	
	REFVD 5.5-5A	5,4	9,0	7,0	26,5	14,0	6,8	3,4	10 x 100	
	REFVD 5.5-6A	6,5	12,0	12,0	32,5	14,0	6,8	3,4	10 x 100	
	REFVD 5.5-8A	8,5	14,0	11,5	31,5	14,0	6,8	3,4	10 x 100	

PVC flange terminals - Standard



Wire range	Part nr.	d2 ± 0,2	W ± 0,2	W2 ± 0,5	F ± 0,3	L ± 1,0	B ± 0,6	ØD ± 0,5	Ød1 ± 0,2	Packed	UL
16~14 AWG	BFV 2-4B	4,3	7,2	1,5	6,5	19,7	10,0	4,5	2,3	10 x 100	✓
1,5~2,5 mm²	BFV 2-5B	5,3	8,5	1,5	7,3	20,5	10,0	4,5	2,3	10 x 100	✓

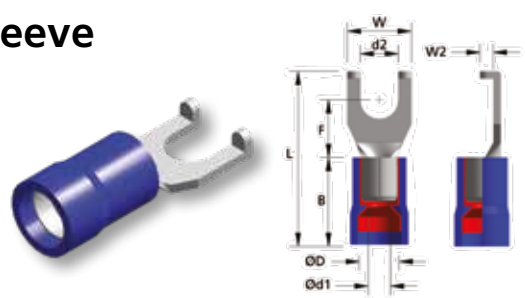
PVC flange terminals - Straight copper sleeve



Wire range	Part nr.	d2 ± 0,2	W ± 0,2	W2 ± 0,5	F ± 0,3	L ± 1,0	B ± 0,6	ØD ± 0,3	Ød1 ± 0,2	Packed	UL
16~14 AWG	BFVD 2-4B	4,3	7,2	1,5	6,5	21,2	10,0	5,1	2,3	10 x 100	
1,5~2,5 mm²	BFVD 2-5B	5,3	8,5	1,5	7,3	22,0	10,0	5,1	2,3	10 x 100	

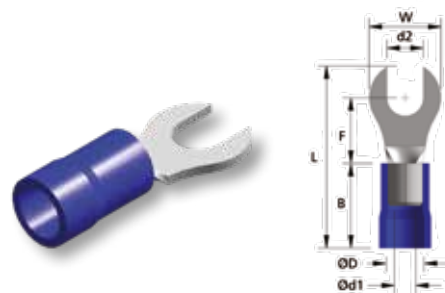
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PVC flange terminals - Easy Entry copper sleeve



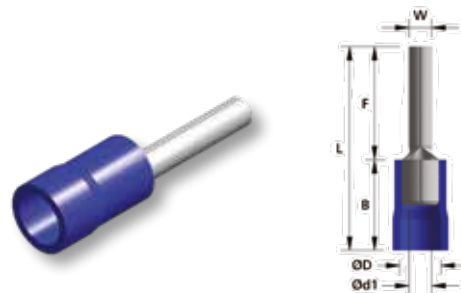
Wire range	Part nr.	d2 ± 0,2	W ± 0,2	W2 ± 0,5	F ± 0,3	L ± 1,0	B ± 0,6	ØD ± 0,5	Ød1 ± 0,2	Packed	UL
16~14 AWG	EFVD 2-4B	4,3	7,2	1,5	6,5	19,7	10,0	5,0	2,3	10 x 100	
1,5~2,5 mm²	EFVD 2-5B	5,3	8,5	1,5	7,3	20,5	10,0	5,0	2,3	10 x 100	

PVC hook terminals - 0° Standard



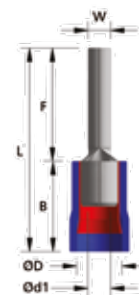
Wire range	Part nr.	d2 ± 0,2	W ± 0,2	F ± 0,3	L ± 1,0	B ± 0,6	ØD ± 0,3	Ød1 ± 0,2	Packed	UL
22~16 AWG 0,5~1,5 mm ²	BFV 1.25-4X	4,3	8,0	7,0	20,5	10,0	4,1	1,7	10 x 100	✓
	BFV 1.25-5X	5,3	8,0	7,0	20,0	10,0	4,1	1,7	10 x 100	✓
	BFV 1.25-6X	6,5	11,6	11,1	25,8	10,0	4,1	1,7	10 x 100	✓
16~14 AWG 1,5~2,5 mm ²	BFV 2-6X	6,5	12,0	11,0	26,0	10,0	4,5	2,3	10 x 100	✓
12~10 AWG 4,0~6,0 mm ²	BFV 5.5-4X	4,3	9,5	8,3	25,5	13,0	6,5	3,4	10 x 100	✓
	BFV 5.5-6X	6,5	12,0	10,5	28,5	13,0	6,5	3,4	10 x 100	✓
	BFV 5.5-8X	8,4	15,0	13,7	32,9	13,0	6,5	3,4	10 x 100	✓

PVC pin terminals - Standard



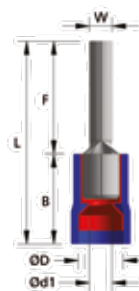
Wire range	Part nr.	W ± 0,1~0,25	F ± 0,5~0,6	L ± 1,0~1,5	B ± 0,6~1,0	ØD ± 0,3~0,5	Ød1 ± 0,2~0,3	Packed	UL
22~16 AWG 0,5~1,5 mm ²	BFVPC 1.25-F7	1,9	7,5	17,5	10,0	4,1	1,7	10 x 100	
	RBFVPC 1.25-F9	1,9	9,0	19,0	10,0	4,2	1,7	10 x 100	
	RBFVPC 1.25-F10	1,9	10,0	20,0	10,0	4,2	1,7	10 x 100	
	RBFVPC 1.25	1,9	12,0	22,0	10,0	4,2	1,7	10 x 100	
16~14 AWG 1,5~2,5 mm ²	BFVPC 2-F7	1,9	8,5	18,5	10,0	4,5	2,3	10 x 100	
	RBFVPC 2-F9	1,9	9,0	19,0	10,0	4,8	2,3	10 x 100	✓
	RBFVPC 2	1,9	12,0	22,0	10,0	4,8	2,3	10 x 100	✓
12~10 AWG 4,0~6,0 mm ²	RBFVPC 5.5	2,8	14,0	27,0	13,0	6,7	3,4	10 x 100	✓

PVC pin terminals - Straight copper sleeve



Wire range	Part nr.	W ± 0,1~0,25	F ± 0,5	L ± 1,5	B ± 1,0	ØD ± 0,5	Ød1 ± 0,3	Packed	UL
22~16 AWG 0,5~1,5 mm²	RBFDVPC 1.25-F9	1,9	9,0	20,3	11,3	4,3	1,7	10 x 100	
	RBFDVPC 1.25-F10	1,9	10,0	21,3	11,3	4,3	1,7	10 x 100	
	RBFDVPC 1.25	1,9	12,0	22,3	11,3	4,3	1,7	10 x 100	
16~14 AWG 1,5~2,5 mm²	RBFDVPC 2-F9	1,9	9,0	20,5	11,5	5,0	2,3	10 x 100	
	RBFDVPC 2-F10	1,9	10,0	21,5	11,5	5,0	2,3	10 x 100	
	RBFDVPC 2	1,9	12,0	23,5	11,5	5,0	2,3	10 x 100	
12~10 AWG 4,0~6,0 mm²	RBFDVPC 5.5	2,8	14,0	28,0	14,0	6,7	3,4	10 x 100	

PVC pin terminals - Easy Entry copper sleeve



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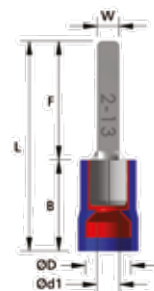
Wire range	Part nr.	W ± 0,1~0,25	F ± 0,5	L ± 1,5	B ± 1,0	ØD ± 0,5	Ød1 ± 0,3	Packed	UL
22~16 AWG 0,5~1,5 mm²	REFVDPC 1.25-F10	1,9	10,0	20,3	11,3	4,3	1,7	10 x 100	
	REFVDPC 1.25	1,9	12,0	22,3	11,3	4,3	1,7	10 x 100	
16~14 AWG 1,5~2,5 mm²	REFVDPC 2-F9	1,9	9,0	20,5	11,5	5,0	2,3	10 x 100	
	REFVDPC 2-F10	1,9	10,0	21,5	11,5	5,0	2,3	10 x 100	
	REFVDPC 2	1,9	12,0	23,5	11,5	5,0	2,3	10 x 100	
12~10 AWG 4,0~6,0 mm²	REFVDPC 5.5	2,8	14,0	28,0	14,0	6,7	3,4	10 x 100	

PVC blade terminals - Standard



Wire range	Part nr.	W ± 0,3	F ± 0,5	L ± 1,5	B ± 1,0	ØD ± 0,5	Ød1 ± 0,3	Packed	UL
22~16 AWG 0,5~1,5 mm²	RBFVPC 1.25-PF10	2,3	10,0	20,0	10,0	5,5	4,3	1,7	
	RBFVPC 1.25-PF11	3,0	11,0	21,0	10,0	5,5	4,3	1,7	
	RBFVPC 1.25-PF14	2,4	14,0	24,0	10,0	5,5	4,3	1,7	
	RBFVPC 1.25-P	2,2	18,0	28,0	10,0	5,5	4,3	1,7	
16~14 AWG 1,5~2,5 mm²	RBFVPC 2-PF9	2,8	9,0	19,0	10,0	5,5	4,8	2,3	✓
	RBFVPC 2-PF10	2,3	10,0	20,0	10,0	5,5	4,8	2,3	✓
	RBFVPC 2-PF13	2,4	13,0	23,0	10,0	5,5	4,8	2,3	✓
	RBFVPC 2-P	2,2	18,0	28,0	10,0	5,5	4,8	2,3	✓
12~10 AWG 4,0~6,0 mm²	RBFVPC 5.5-PF10	2,8	10,0	23,0	13,0	6,5	6,7	3,4	✓
	RBFVPC 5.5-P	4,5	18,0	31,0	13,0	6,5	6,7	3,4	✓

PVC blade terminals - Easy Entry copper sleeve



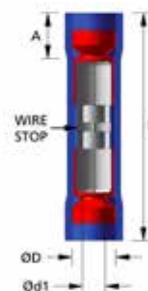
Wire range	Part nr.	W ± 0,3	F ± 0,5	L ± 1,5	B ± 1,0	ØD ± 0,5	Ød1 ± 0,3	Packed	UL
22~16 AWG 0,5~1,5 mm²	REFVDPC 1.25-PF10	2,3	10,0	21,3	11,3	4,2	1,7	10 x 100	
	REFVDPC 1.25-P	2,2	18,0	29,3	11,3	4,2	1,7	10 x 100	
16~14 AWG 1,5~2,5 mm²	REFVDPC 2-PF9	2,8	9,0	20,5	11,5	5,0	2,3	10 x 100	
	REFVDPC 2-PF10	2,3	10,0	21,5	11,5	5,0	2,3	10 x 100	
	REFVDPC 2-PF13	2,4	14,0	25,5	11,5	5,0	2,3	10 x 100	
	REFVDPC 2-P	2,2	18,0	29,5	11,5	5,0	2,3	10 x 100	
12~10 AWG 4,0~6,0 mm²	REFVDPC 5.5-PF10	2,8	10,0	24,0	14,0	6,8	3,4	10 x 100	
	REFVDPC 5.5-P	4,5	18,0	32,0	14,0	6,8	3,4	10 x 100	

PVC butt connectors - Standard



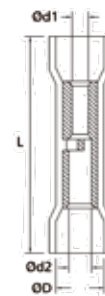
Wire range	Part nr.	L ± 1,5	L1 ± 1,0	ØD ± 0,5	Ød1 ± 0,3	Packed	UL
22~16 AWG 0,5~1,5 mm ²	RBFVC 1.25	26,0	14,5	4,3	1,9	10 x 100	
16~14 AWG 1,5~2,5 mm ²	RBFVC 2	26,0	14,5	4,8	2,5	10 x 100	
12~10 AWG 4,0~6,0 mm ²	RBFVC 5.5	27,0	14,5	6,3	3,6	10 x 100	
8 AWG 8 mm ²	RBFVC 8	35,5	21,0	8,5	4,5	10 x 100	

PVC butt connectors - Easy Entry copper sleeve



Wire range	Part nr.	L ± 1,5	ØD ± 0,5	Ød1 ± 0,3	A ± 1,0	Packed	UL
22~16 AWG 0,5~1,5 mm ²	REFVDC 1.25	24,5	4,7	1,7	4,0	10 x 100	
16~14 AWG 1,5~2,5 mm ²	REFVDC 2	24,5	5,1	2,3	4,0	10 x 100	
12~10 AWG 4,0~6,0 mm ²	REFVDC 5.5	29,5	6,6	3,4	4,0	10 x 100	

PVC butt connectors - Step down



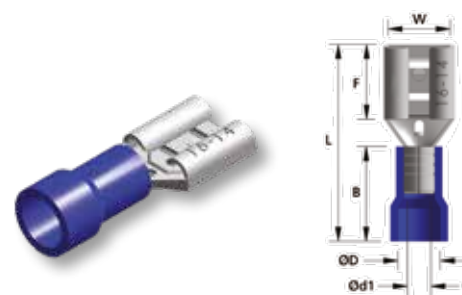
Wire range	Part nr.	L ± 2,0	ØD ± 0,5	Ød1 ± 0,3	Ød2 ± 0,3	Packed	UL
16~14 to 22~18 AWG 1,5~2,5 to 0,5~1,0 mm ²	BFVC 2-1.25	26,0	4,5	1,7	2,3	10 x 100	
12~10 to 16~14 AWG 4,0~6,0 to 1,5~2,5 mm ²	BFVC 5.5-2	31,0	6,5	2,3	3,4	10 x 100	
8 to 12~10 AWG 8,0 to 4,0~6,0 mm ²	BFVC 8-5.5	35,7	8,5	3,4	4,5	10 x 100	
6 to 8 AWG 14,0 to 8,0mm ²	BFVC 14-8	45,0	10,5	4,5	5,9	10 x 100	

PVC parallel connectors - Standard



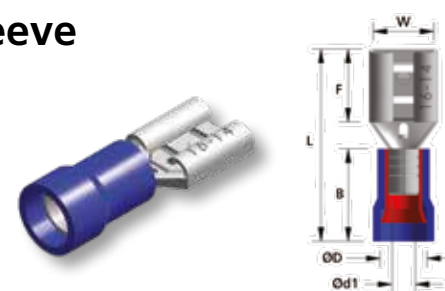
Wire range	Part nr.	L ± 1,0	ØD ± 0,3	Ød1 ± 0,3	Packed	UL
22~16 AWG 0,5~1,5 mm ²	BFVP 1.25	18,0	4,1	1,6	10 x 100	
16~14 AWG 1,5~2,5 mm ²	BFVP 2	18,0	4,5	2,3	10 x 100	
12~10 AWG 4,0~6,0 mm ²	BFVP 5.5	21,0	6,5	3,6	10 x 100	

PVC female disconnectors - Standard



Wire range	Part nr.	tab	W ± 0,05-0,2	F ± 0,5	L ± 1,5	B ± 1,0	ØD ± 0,5	Ød1 ± 0,3	Packed	UL
22~16 AWG 0,5~1,5 mm ²	RBFVDF 1.25-110A5	2,8x0,5	3,2	6,5	18,8	10,0	3,5	1,7	10 x 100	
	RBFVDF 1.25-110A8	2,8x0,8	3,2	6,5	18,8	10,0	3,5	1,7	10 x 100	
	RBFVDF 1.25-187A5	4,8x0,5	5,0	6,4	19,2	10,0	3,5	1,7	10 x 100	
	RBFVDF 1.25-187A8	4,8x0,8	5,0	6,4	19,2	10,0	3,5	1,7	10 x 100	
	RBFVDF 1.25-250A	6,3x0,8	6,6	7,2	20,8	10,0	3,5	1,7	10 x 100	
16~14 AWG 1,5~2,5 mm ²	RBFVDF 2-110A5	2,8x0,5	3,2	6,5	19,2	10,0	4,1	2,3	10 x 100	
	RBFVDF 2-110A8	2,8x0,8	3,2	6,5	19,2	10,0	4,1	2,3	10 x 100	
	RBFVDF 2-187A5	4,8x0,5	5,0	6,4	19,2	10,0	4,1	2,3	10 x 100	
	RBFVDF 2-187A8	4,8x0,8	5,0	6,4	19,2	10,0	4,1	2,3	10 x 100	
	RBFVDF 2-250A	6,3x0,8	6,6	7,2	20,8	10,0	4,1	2,3	10 x 100	
	RBFVDF 2-312A	8,0x0,8	7,95	10,2	23,0	10,0	4,1	2,3	10 x 100	
12~10 AWG 4,0~6,0 mm ²	RBFVDF 5.5-250A	6,3x0,8	6,6	7,2	23,8	13,0	5,6	3,4	10 x 100	
	RBFVDF 5.5-375A	9,5x1,2	9,7	12,0	28,6	13,0	5,6	3,4	10 x 100	

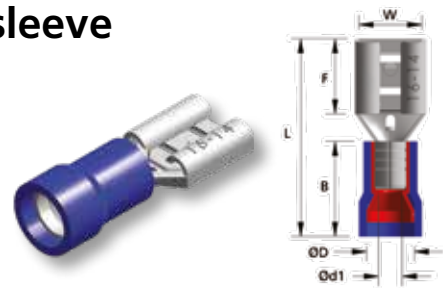
PVC female disconnectors - Straight copper sleeve



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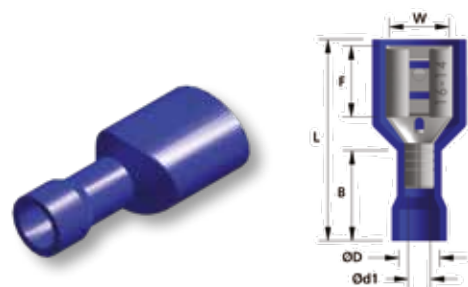
Wire range	Part nr.	tab	W ± 0,05-0,2	F ± 0,5	L ± 1,5	B ± 1,0	ØD ± 0,5	Ød1 ± 0,3	Packed	UL
22~16 AWG 0,5~1,5 mm ²	RBFVDDF 1.25-110A5	2,8x0,5	3,1	6,5	20,3	11,5	3,9	1,7	10 x 100	
	RBFVDDF 1.25-110A8	2,8x0,8	3,1	6,5	20,3	11,5	3,9	1,7	10 x 100	
	RBFVDDF 1.25-187A5	4,8x0,5	5,0	6,4	20,5	11,6	3,9	1,7	10 x 100	
	RBFVDDF 1.25-187A8	4,8x0,8	5,0	6,4	20,5	11,6	3,9	1,7	10 x 100	
	RBFVDDF 1.25-250A	6,3x0,8	6,6	7,2	21,6	11,6	3,9	1,7	10 x 100	
16~14 AWG 1,5~2,5 mm ²	RBFVDDF 2-110A5	2,8x0,5	3,1	6,5	20,2	11,3	4,7	2,3	10 x 100	
	RBFVDDF 2-110A8	2,8x0,8	3,1	6,5	20,2	11,3	4,7	2,3	10 x 100	
	RBFVDDF 2-187A5	4,8x0,5	5,0	6,4	19,2	11,6	4,7	2,3	10 x 100	
	RBFVDDF 2-187A8	4,8x0,8	5,0	6,4	19,2	11,6	4,7	2,3	10 x 100	
	RBFVDDF 2-250A	6,3x0,8	6,6	7,2	21,3	11,6	4,7	2,3	10 x 100	
	RBFVDDF 2-312A	8,0x0,8	7,95	10,2	24,5	11,6	4,7	2,3	10 x 100	
12~10 AWG 4,0~6,0 mm ²	RBFVDDF 5.5-250A	6,3x0,8	6,6	7,2	23,8	13,9	6,3	3,4	10 x 100	
	RBFVDDF 5.5-375A	9,5x1,2	9,8	12,0	28,6	13,9	6,3	3,4	10 x 100	

PVC female disconnectors - Easy Entry copper sleeve



Wire range	Part nr.	tab	W ± 0,05-0,3	F ± 0,5	L ± 1,5	B ± 1,0	ØD ± 0,5	Ød1 ± 0,3	Packed	UL
22~16 AWG 0,5~1,5 mm ²	REFVDDF 1.25-110A5	2,8x0,5	3,1	6,5	20,3	11,5	3,9	1,7	10 x 100	✓
	REFVDDF 1.25-110A8	2,8x0,8	3,1	6,5	20,3	11,5	3,9	1,7	10 x 100	✓
	REFVDDF 1.25-187A5	4,8x0,5	5,0	6,4	20,5	11,6	3,9	1,7	10 x 100	✓
	REFVDDF 1.25-187A8	4,8x0,8	5,0	6,4	20,5	11,6	3,9	1,7	10 x 100	✓
	REFVDDF 1.25-250A	6,3x0,8	6,6	7,2	20,8	11,6	3,9	1,7	10 x 100	✓
16~14 AWG 1,5~2,5 mm ²	REFVDDF 2-110A5	2,8x0,5	3,1	6,5	20,2	11,3	4,7	2,3	10 x 100	✓
	REFVDDF 2-110A8	2,8x0,8	3,1	6,5	20,2	11,3	4,7	2,3	10 x 100	✓
	REFVDDF 2-187A5	4,8x0,5	5,0	6,4	19,2	11,6	4,7	2,3	10 x 100	✓
	REFVDDF 2-187A8	4,8x0,8	5,0	6,4	19,2	11,6	4,7	2,3	10 x 100	✓
	REFVDDF 2-250A	6,3x0,8	6,6	7,2	21,3	11,6	4,7	2,3	10 x 100	✓
	REFVDDF 2-312A	8,0x0,8	7,95	10,2	24,5	11,6	4,7	2,3	10 x 100	
12~10 AWG 4,0~6,0 mm ²	REFVDDF 5.5-250A	6,3x0,8	6,6	7,2	23,8	13,9	6,3	3,4	10 x 100	✓
	REFVDDF 5.5-375A	9,5x1,2	9,8	12,0	28,6	13,9	6,3	3,4	10 x 100	

PVC female disconnectors - Standard



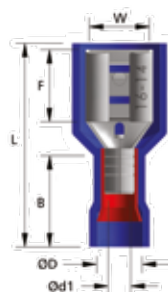
Wire range	Part nr.	tab	W ± 0,3	F ± 0,5	L ± 1,5	B ± 1,0	ØD ± 0,5	Ød1 ± 0,3	Packed	UL
22~16 AWG 0,5~1,5 mm ²	RBLVDF 1.25-110A5	2,8x0,5	3,2	6,5	19,0	9,0	3,5	1,7	10 x 100	
	RBLVDF 1.25-110A8	2,8x0,8	3,2	6,5	19,0	9,0	3,5	1,7	10 x 100	
	RBLVDF 1.25-187A5	4,8x0,5	5,0	6,4	19,0	9,0	3,5	1,7	10 x 100	
	RBLVDF 1.25-187A8	4,8x0,8	5,0	6,4	19,0	9,0	3,5	1,7	10 x 100	
16~14 AWG 1,5~2,5 mm ²	RBLVDF 2-110A5	2,8x0,5	3,2	6,5	19,0	9,0	4,3	2,3	10 x 100	
	RBLVDF 2-110A8	2,8x0,8	3,2	6,5	19,0	9,0	4,3	2,3	10 x 100	
	RBLVDF 2-187A5	4,8x0,5	5,0	6,4	19,0	9,0	4,3	2,3	10 x 100	
	RBLVDF 2-187A8	4,8x0,8	5,0	6,4	19,0	9,0	4,3	2,3	10 x 100	
12~10 AWG 4,0~6,0 mm ²	RBLVDF 5.5-250A	6,3x0,8	6,6	7,2	24,0	10,9	5,6	3,4	10 x 100	

PVC female disconnectors - Standard



Wire range	Part nr.	tab	W ± 0,3	F ± 0,5	L ± 1,5	B ± 1,0	ØD ± 0,5	Ød1 ± 0,3	Packed	UL
22~16 AWG 0,5~1,5 mm ²	RBLVDF 1.25-250A	6,3x0,8	6,6	7,2	22,8	10,5	3,5	1,7	10 x 100	
16~14 AWG 1,5~2,5 mm ²	RBLVDF 2-250A	6,3x0,8	6,6	7,2	22,0	10,5	4,3	2,3	10 x 100	

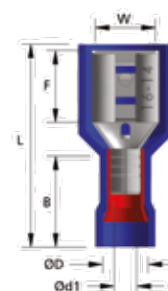
PVC female disconnectors - Straight copper sleeve



Wire range	Part nr.	tab	W ± 0,3	F ± 0,5	L ± 1,5	B ± 1,0	ØD ± 0,5	Ød1 ± 0,3	Packed	UL
22~16 AWG 0,5~1,5 mm ²	RBLVDDF 1.25-110A5	2,8x0,5	3,1	6,5	20,4	10,5	3,9	1,7	10 x 100	
	RBLVDDF 1.25-110A8	2,8x0,8	3,1	6,5	20,4	10,5	3,9	1,7	10 x 100	
	RBLVDDF 1.25-187A5	4,8x0,5	5,0	6,4	20,5	10,5	3,9	1,7	10 x 100	
	RBLVDDF 1.25-187A8	4,8x0,8	5,0	6,4	20,5	10,5	3,9	1,7	10 x 100	
16~14 AWG 1,5~2,5 mm ²	RBLVDDF 2-110A5	2,8x0,5	3,1	6,5	20,5	10,5	4,7	2,3	10 x 100	
	RBLVDDF 2-110A8	2,8x0,8	3,1	6,5	20,5	10,5	4,7	2,3	10 x 100	
	RBLVDDF 2-187A5	4,8x0,5	5,0	6,4	20,5	10,5	4,7	2,3	10 x 100	
	RBLVDDF 2-187A8	4,8x0,8	5,0	6,4	20,5	10,5	4,7	2,3	10 x 100	
12~10 AWG 4,0~6,0 mm ²	RBLVDDF 5.5-250A	6,3x0,8	6,6	7,2	25,0	13,0	6,3	3,4	10 x 100	
	RBLVDDF 5.5-375A	9,5x1,2	9,8	12,0	30,0	13,0	6,3	3,4	10 x 100	

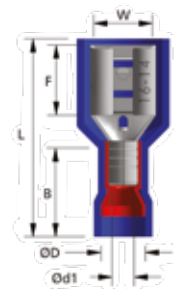
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PVC female disconnectors - Straight copper sleeve



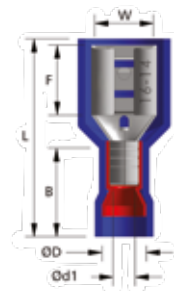
Wire range	Part nr.	tab	W ± 0,3	F ± 0,5	L ± 1,5	B ± 1,0	ØD ± 0,5	Ød1 ± 0,3	Packed	UL
22~16 AWG 0,5~1,5 mm ²	RBLVDDF 1.25-250A	6,3x0,8	6,6	7,2	22,1	10,5	3,9	1,7	10 x 100	
16~14 AWG 1,5~2,5 mm ²	RBLVDDF 2-250A	6,3x0,8	6,6	7,2	23,0	10,5	4,7	2,3	10 x 100	

PVC female disconnectors - Easy Entry copper sleeve



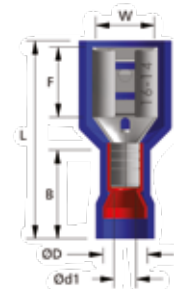
Wire range	Part nr.	tab	W ± 0,3	F ± 0,5	L ± 1,5	B ± 1,0	ØD ± 0,5	Ød1 ± 0,3	Packed	UL
22~16 AWG 0,5~1,5 mm ²	RELVDFF 1.25-110A5	2,8x0,5	3,1	6,5	20,4	10,5	3,9	1,7	10 x 100	✓
	RELVDFF 1.25-110A8	2,8x0,8	3,1	6,5	20,4	10,5	3,9	1,7	10 x 100	✓
	RELVDFF 1.25-187A5	4,8x0,5	5,0	6,4	20,5	10,5	3,9	1,7	10 x 100	✓
	RELVDFF 1.25-187A8	4,8x0,8	5,0	6,4	20,5	10,5	3,9	1,7	10 x 100	✓
16~14 AWG 1,5~2,5 mm ²	RELVDFF 2-110A5	2,8x0,5	3,1	6,5	20,5	10,5	4,7	2,3	10 x 100	✓
	RELVDFF 2-110A8	2,8x0,8	3,1	6,5	20,5	10,5	4,7	2,3	10 x 100	✓
	RELVDFF 2-187A5	4,8x0,5	5,0	6,4	20,5	10,5	4,7	2,3	10 x 100	✓
	RELVDFF 2-187A8	4,8x0,8	5,0	6,4	20,5	10,5	4,7	2,3	10 x 100	✓
12~10 AWG 4,0~6,0 mm ²	RELVDFF 5.5-250A	6,3x0,8	6,6	7,2	25,0	13,0	6,3	3,4	10 x 100	✓
	RELVDFF 5.5-375A	9,5x1,2	9,8	12,0	30,0	13,0	6,3	3,4	10 x 100	

PVC female disconnectors - Easy Entry copper sleeve



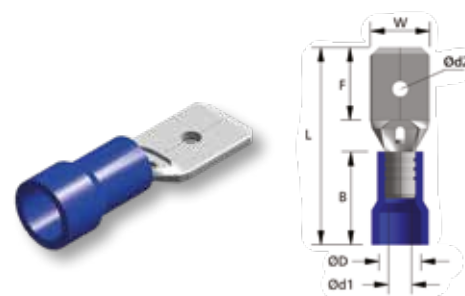
Wire range	Part nr.	tab	W ± 0,3	F ± 0,5	L ± 1,5	B ± 1,0	ØD ± 0,5	Ød1 ± 0,3	Packed	UL
22~16 AWG 0,5~1,5 mm ²	REOVDDF 1.25-250A	6,3x0,8	6,6	7,2	22,9	10,5	3,9	1,7	10 x 100	✓
16~14 AWG 1,5~2,5 mm ²	REOVDDF 2-250A	6,3x0,8	6,6	7,2	22,9	10,5	4,7	2,3	10 x 100	✓

PVC female disconnectors - Easy Entry copper sleeve



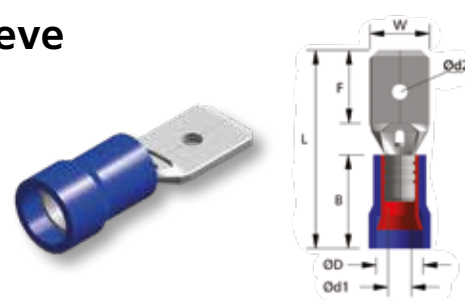
Wire range	Part nr.	tab	W ± 0,3	F ± 0,5	L ± 1,5	B ± 1,0	ØD ± 0,5	Ød1 ± 0,3	Packed	UL
22~16 AWG 0,5~1,5 mm ²	RELVDFF 1.25-250A	6,3x0,8	6,6	7,2	22,1	10,5	3,9	1,7	10 x 100	
16~14 AWG 1,5~2,5 mm ²	RELVDFF 2-250A	6,3x0,8	6,6	7,2	23,0	10,5	4,4	2,3	10 x 100	

PVC male disconnectors - Standard



Wire range	Part nr.	tab	W ± 0,2	F ± 0,5	L ± 1,5	B ± 1,0	ØD ± 0,5	Ød1 ± 0,3	Ød2 ± 0,1	Packed	UL
22~16 AWG 0,5~1,5 mm ²	RBFVDM 1.25-110A5	2,8x0,5	2,8	7,6	18,7	10,0	3,5	1,7	1,2	10 x 100	
	RBFVDM 1.25-110A8	2,8x0,8	2,8	6,6	18,7	10,0	3,5	1,7	1,2	10 x 100	
	RBFVDM 1.25-187A5	4,8x0,5	4,8	7,6	19,2	10,0	3,5	1,7	1,2	10 x 100	
	RBFVDM 1.25-187A8	4,8x0,8	4,8	6,6	19,2	10,0	3,5	1,7	1,6	10 x 100	
	RBFVDM 1.25-250	6,3x0,8	6,3	7,6	20,8	10,0	3,5	1,7	1,6	10 x 100	
16~14 AWG 1,5~2,5 mm ²	RBFVDM 2-110A5	2,8x0,5	2,8	7,6	18,7	10,0	4,3	2,3	1,2	10 x 100	
	RBFVDM 2-110A8	2,8x0,8	2,8	6,6	18,7	10,0	4,3	2,3	1,2	10 x 100	
	RBFVDM 2-187A5	4,8x0,5	4,8	7,6	19,2	10,0	4,3	2,3	1,2	10 x 100	
	RBFVDM 2-187A8	4,8x0,8	4,8	6,6	19,2	10,0	4,3	2,3	1,6	10 x 100	
	RBFVDM 2-250	6,3x0,8	6,3	7,5	20,8	10,0	4,3	2,3	1,6	10 x 100	
12~10 AWG 4,0~6,0 mm ²	RBFVDM 5.5-250	6,3x0,8	6,3	7,5	24,0	13,0	5,6	3,4	1,6	10 x 100	

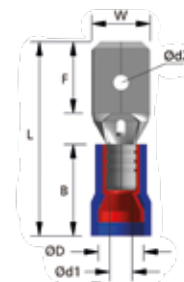
PVC male disconnectors - Straight copper sleeve



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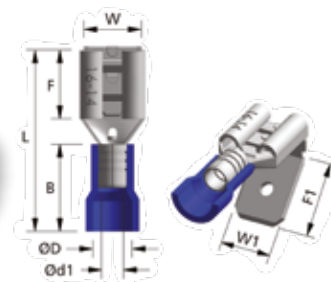
Wire range	Part nr.	tab	W ± 0,2	F ± 0,5	L ± 1,5	B ± 1,0	ØD ± 0,5	Ød1 ± 0,3	Ød2 ± 0,1	Packed	UL
22~16 AWG 0,5~1,5 mm ²	RBFVDDM 1.25-110A5	2,8x0,5	2,8	7,6	18,7	10,0	3,9	1,7	1,2	10 x 100	
	RBFVDDM 1.25-110A8	2,8x0,8	2,8	6,6	18,7	10,0	3,9	1,7	1,2	10 x 100	
	RBFVDDM 1.25-187A5	4,8x0,5	4,8	7,6	19,2	10,0	3,9	1,7	1,2	10 x 100	
	RBFVDDM 1.25-187A8	4,8x0,8	4,8	6,6	19,2	10,0	3,9	1,7	1,6	10 x 100	
	RBFVDDM 1.25-250	6,3x0,8	6,3	7,6	20,8	10,0	3,9	1,7	1,6	10 x 100	
16~14 AWG 1,5~2,5 mm ²	RBFVDDM 2-110A5	2,8x0,5	2,8	7,6	18,7	10,0	4,7	2,3	1,2	10 x 100	
	RBFVDDM 2-110A8	2,8x0,8	2,8	6,6	18,7	10,0	4,7	2,3	1,2	10 x 100	
	RBFVDDM 2-187A5	4,8x0,5	4,8	7,6	19,2	10,0	4,7	2,3	1,2	10 x 100	
	RBFVDDM 2-187A8	4,8x0,8	4,8	6,6	19,2	10,0	4,7	2,3	1,6	10 x 100	
	RBFVDDM 2-250	6,3x0,8	6,3	7,6	20,8	10,0	4,7	2,3	1,6	10 x 100	
12~10 AWG 4,0~6,0 mm ²	RBFVDDM 5.5-250	6,3x0,8	6,3	7,6	24,0	13,0	6,3	3,4	1,6	10 x 100	

PVC male disconnectors - Easy Entry copper sleeve



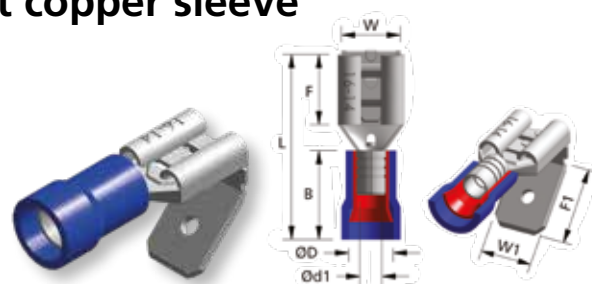
Wire range	Part nr.	tab	W ± 0,2	F ± 0,5	L ± 1,5	B ± 1,0	ØD ± 0,5	Ød1 ± 0,3	Ød2 ± 0,1	Packed	UL
22~16 AWG 0,5~1,5 mm ²	REFVDDM 1.25-110A5	2,8x0,5	2,8	7,6	18,7	10,0	3,9	1,7	1,2	10 x 100	✓
	REFVDDM 1.25-110A8	2,8x0,8	2,8	6,6	18,7	10,0	3,9	1,7	1,2	10 x 100	✓
	REFVDDM 1.25-187A5	4,8x0,5	4,8	7,6	19,2	10,0	3,9	1,7	1,2	10 x 100	✓
	REFVDDM 1.25-187A8	4,8x0,8	4,8	6,6	19,2	10,0	3,9	1,7	1,6	10 x 100	✓
	REFVDDM 1.25-250	6,3x0,8	6,3	7,6	20,8	10,0	3,9	1,7	1,6	10 x 100	✓
16~14 AWG 1,5~2,5 mm ²	REFVDDM 2-110A5	2,8x0,5	2,8	7,6	18,7	10,0	4,7	2,3	1,2	10 x 100	✓
	REFVDDM 2-110A8	2,8x0,8	2,8	6,6	18,7	10,0	4,7	2,3	1,2	10 x 100	✓
	REFVDDM 2-187A5	4,8x0,5	4,8	7,6	19,2	10,0	4,7	2,3	1,2	10 x 100	✓
	REFVDDM 2-187A8	4,8x0,8	4,8	6,6	19,2	10,0	4,7	2,3	1,6	10 x 100	✓
	REFVDDM 2-250	6,3x0,8	6,3	7,6	20,8	10,0	4,7	2,3	1,6	10 x 100	✓
12~10 AWG 4,0~6,0 mm ²	REFVDDM 5.5-250	6,3x0,8	6,3	7,6	24,0	13,0	6,3	3,4	1,6	10 x 100	✓

PVC piggy back disconnectors - Standard



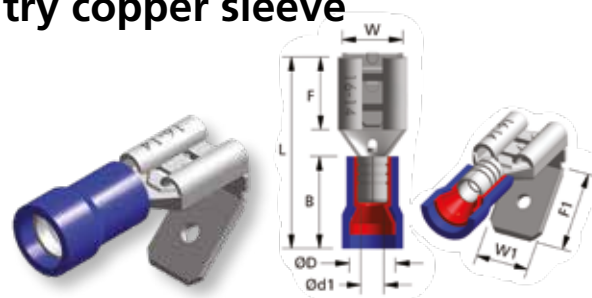
Wire range	Part nr.	tab	W ± 0,2	W1 ± 0,2	F ± 0,5	F1 ± 0,5	L ± 1,5	B ± 1,0	ØD ± 0,5	Ød1 ± 0,3	Packed	UL
22~16 AWG 0,5~1,5 mm ²	RBFVDFM 1.25-250A	6,3x0,8	6,7	6,4	8,0	8,2	21,0	10,0	3,3	1,7	10 x 100	
16~14 AWG 1,5~2,5 mm ²	RBFVDFM 2-250B	6,3x0,8	6,7	6,4	8,0	8,2	21,0	10,0	4,1	2,3	10 x 100	
12~10 AWG 4,0~6,0 mm ²	RBFVDFM 5.5-250A	6,3x0,8	6,7	6,4	8,0	8,2	24,5	13,0	5,6	3,4	10 x 100	

PVC piggy back disconnectors - Straight copper sleeve



Wire range	Part nr.	tab	W ± 0,2	W1 ± 0,2	F ± 0,5	F1 ± 0,5	L ± 1,5	B ± 1,0	ØD ± 0,5	Ød1 ± 0,3	Packed	UL
22~16 AWG 0,5~1,5 mm ²	RBFVDDFM 1.25-250A	6,3x0,8	6,7	6,4	8,0	8,2	22,5	11,6	3,8	1,7	10 x 100	
16~14 AWG 1,5~2,5 mm ²	RBFVDDFM 2-250B	6,3x0,8	6,7	6,4	8,0	8,2	22,0	10,7	4,7	2,3	10 x 100	
12~10 AWG 4,0~6,0 mm ²	RBFVDDFM 5.5-250A	6,3x0,8	6,7	6,4	8,0	8,2	24,5	13,0	6,2	3,4	10 x 100	

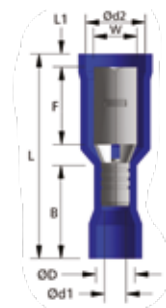
PVC piggy back disconnectors - Easy Entry copper sleeve



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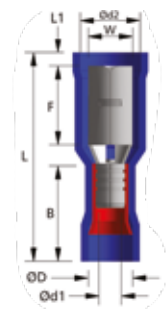
Wire range	Part nr.	tab	W ± 0,2	W1 ± 0,2	F ± 0,5	F1 ± 0,5	L ± 1,5	B ± 1,0	ØD ± 0,5	Ød1 ± 0,3	Packed	UL
22~16 AWG 0,5~1,5 mm ²	REFVDDFM 1.25-250A	6,3x0,8	6,7	6,4	8,0	8,2	22,5	11,6	3,8	1,7	10 x 100	✓
16~14 AWG 1,5~2,5 mm ²	REFVDDFM 2-250B	6,3x0,8	6,7	6,4	8,0	8,2	22,0	10,7	4,7	2,3	10 x 100	✓
12~10 AWG 4,0~6,0 mm ²	REFVDDFM 5.5-250A	6,3x0,8	6,7	6,4	8,0	8,2	24,5	13,0	6,2	3,4	10 x 100	✓

PVC female bullet disconnectors - Standard



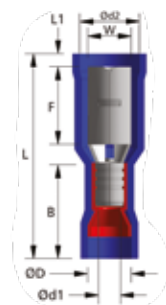
Wire range	Part nr.	W ± 0,2	F ± 0,5	L ± 1,5	L1 ± 1,0	B ± 1,0	ØD ± 0,5	Ød1 ± 0,3	Ød2 ± 0,5	Packed	UL
22~16 AWG 0,5~1,5 mm ²	RBCVGF 1.25-5	3,9	7,3	24,5	3,0	10,5	3,4	1,7	5,7	10 x 100	
16~14 AWG 1,5~2,5 mm ²	RBCVGF 2-5	3,9	7,3	24,5	3,0	10,5	4,1	2,3	5,7	10 x 100	
	RBCVGF 2-7	4,9	7,3	25,5	3,0	10,5	4,1	2,3	7,3	10 x 100	
12~10 AWG 4,0~6,0 mm ²	RBCVGF 5.5-7	4,9	7,3	28,0	4,0	13,7	5,6	3,4	7,3	10 x 100	

PVC female bullet disconnectors - Straight copper sleeve



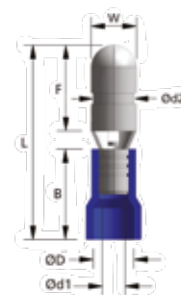
Wire range	Part nr.	W ± 0,2	F ± 0,5	L ± 1,5	L1 ± 1,0	B ± 1,0	ØD ± 0,5	Ød1 ± 0,3	Ød2 ± 0,5	Packed	UL
22~16 AWG 0,5~1,5 mm ²	RBCVDGF 1.25-5	3,9	7,3	24,5	3,0	11,5	3,9	1,7	6,1	10 x 100	✓
16~14 AWG 1,5~2,5 mm ²	RBCVDGF 2-5	3,9	7,3	25,5	3,0	12,5	4,7	2,3	6,1	10 x 100	✓
	RBCVDGF 2-7	4,9	7,3	24,5	3,0	12,5	4,7	2,3	7,0	10 x 100	✓
12~10 AWG 4,0~6,0 mm ²	RBCVDGF 5.5-7	4,9	7,3	28,5	4,0	13,7	6,3	3,4	7,0	10 x 100	✓

PVC female bullet disconnectors - Easy Entry copper sleeve



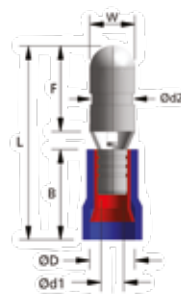
Wire range	Part nr.	W ± 0,2	F ± 0,5	L ± 1,5	L1 ± 1,0	B ± 1,0	ØD ± 0,5	Ød1 ± 0,3	Ød2 ± 0,5	Packed	UL
22~16 AWG 0,5~1,5 mm ²	RECVDGF 1.25-5	3,9	7,3	24,5	3,0	11,5	3,9	1,7	6,1	10 x 100	✓
16~14 AWG 1,5~2,5 mm ²	RECVDGF 2-5	3,9	7,3	25,5	3,0	12,5	4,7	2,3	6,1	10 x 100	✓
	RECVDGF 2-7	4,9	7,3	24,5	3,0	12,5	4,7	2,3	7,0	10 x 100	✓
12~10 AWG 4,0~6,0 mm ²	RECVDGF 5.5-7	4,9	7,3	28,5	4,0	13,7	6,3	3,4	7,0	10 x 100	✓

PVC male bullet disconnectors - Standard



Wire range	Part nr.	W ± 0,1	F ± 0,5	L ± 1,5	B ± 1,0	ØD ± 0,5	Ød1 ± 0,3	Ød2 ± 0,1	Packed	UL
22~16 AWG 0,5~1,5 mm ²	RBFVGM 1.25-5	4,0	8,5	21,5	10,0	3,3	1,7	3,7	10 x 100	
16~14 AWG	RBFVGM 2-5	4,0	8,5	21,5	10,0	4,1	2,3	3,7	10 x 100	
1,5~2,5 mm ²	RBFVGM 2-7	5,0	8,5	22,5	10,0	4,1	2,3	4,7	10 x 100	
12~10 AWG 4,0~6,0 mm ²	RBFVGM 5.5-7	5,0	8,5	25,0	13,0	5,6	3,4	4,7	10 x 100	

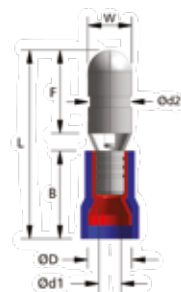
PVC male bullet disconnectors - Straight copper sleeve



Wire range	Part nr.	W ± 0,1	F ± 0,5	L ± 1,5	B ± 1,0	ØD ± 0,5	Ød1 ± 0,3	Ød2 ± 0,1	Packed	UL
22~16 AWG 0,5~1,5 mm ²	RBFVDGM 1.25-5	4,0	8,5	22,5	11,5	3,9	1,7	3,7	10 x 100	✓
16~14 AWG	RBFVDGM 2-5	4,0	8,5	22,5	11,5	4,7	2,3	3,7	10 x 100	✓
1,5~2,5 mm ²	RBFVDGM 2-7	5,0	8,5	23,5	11,5	4,7	2,3	4,7	10 x 100	✓
12~10 AWG 4,0~6,0 mm ²	RBFVDGM 5.5-7	5,0	8,5	25,0	13,0	6,3	3,4	4,7	10 x 100	✓

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PVC male bullet disconnectors - Easy Entry copper sleeve



Wire range	Part nr.	W ± 0,1	F ± 0,5	L ± 1,5	B ± 1,0	ØD ± 0,5	Ød1 ± 0,3	Ød2 ± 0,1	Packed	UL
22~16 AWG 0,5~1,5 mm ²	REFVDGM 1.25-5	4,0	8,5	22,2	11,5	3,9	1,7	3,7	10 x 100	✓
16~14 AWG	REFVDGM 2-5	4,0	8,5	22,5	11,5	4,7	2,3	3,7	10 x 100	✓
1,5~2,5 mm ²	REFVDGM 2-7	5,0	8,5	23,5	11,5	4,7	2,3	4,7	10 x 100	✓
12~10 AWG 4,0~6,0 mm ²	REFVDGM 5.5-7	5,0	8,5	25,0	13,0	6,3	3,4	4,7	10 x 100	✓

PVC insulated assortments

HI31052BC

552 pcs - 19 compartments
incl. tool

1 x 10" ratchet crimper HJ56I
1 x die set DSQIA
1 x insulation tape
50 x cable tie (2,5 x 100 mm)

14 x REFVD 1.25-M3DIN
13 x REFVD 1.25-4DIN
13 x REFVD 1.25-5DIN
12 x REFVD 2-S3DIN
12 x REFVD 2-4DIN
12 x REFVD 2-5DIN
25 x REFVD 2-6DIN
13 x REFVD 5.5-4DIN
12 x REFVD 5.5-5DIN

25 x REFVDC 1.25
25 x REFVDC 2

Professional kit

25 x REFVDDF 1.25-250A
25 x RELVDDF 1.25-250A
25 x REFVDDM 1.25-250
25 x REFVDDF 2-250A
25 x RELVDDF 2-250A
25 x REFVDDM 2-250
12 x REFVDDF 5.5-250A
12 x REFVDDM 5.5-250

25 x RECVDGF 1.25-5
25 x REFVDGM 1.25-5
25 x RECVDGF 2-5
25 x REFVDGM 2-5

25 x REFVDDFM 1.25-250A
25 x REFVDDFM 2-250B

Also available without terminals



HI310052BC

52 pcs - 19 compartments

1 x 10" ratchet crimper HJ56I
1 x die set DSQIA
1 x insulation tape
50 x cable tie (2,5 x 100 mm)



See content in our Tools & Assortment chapter on page 276.

AD-101

61 pcs - 11 compartments
incl. tool

1 x multi-tool
2 x BFVC 1.25
2 x BFVC 2
10 x BFV 1.25-3
4 x BFV 1.25-4
10 x BFV 2-3
4 x BFV 2-4
10 x BFV 1.25-3A
10 x BFV 2-3A
2 x BFVDF 1.25-250A
2 x BFVDM 1.25-250
2 x BFVDF 2-250A
2 x BFVDM 2-250



See content in our Tools & Assortment chapter on page 278.

AD-002

307 pcs - 18 compartments
incl. tool



1 x multi-tool

20 x BFV 1.25-4
20 x BFV 1.25-5
20 x BFV 2-4
20 x BFV 2-5
20 x BFV 2-6
10 x BFV 5.5-8

20 x BFV 1.25-B3A
20 x BFV 2-YS4A

10 x BFVC 1.25
10 x BFVC 2
6 x BFVC 5.5

20 x BFVDF 1.25-110A8
20 x BFVDM 1.25-110A8
20 x BFVDF 1.25-250A
20 x BFVDM 1.25-250
20 x BFVDF 2-187A8
20 x BFVDM 2-187A8
10 x BFVDF 5.5-250A

See content in our Tools & Assortment chapter on page 277.

AD-006541 pcs - 19 compartments
incl. tool

1 x multi-tool	30 x B 1-SD
	8 x B 5.5-SD
52 x BFV 1.25-3	
30 x BFV 1.25-5	30 x BCVGF 1.25-5
40 x BFV 2-53.3	30 x BFVGM 1.25-5
30 x BFV 2-4	
30 x BFV 2-5	30 x BFVDF 1.25-250A
	30 x BFVDM 1.25-250
40 x BFV 1.25-B3A	30 x BFVDF 2-187A5
30 x BFV 2-YS4A	30 x BFVDM 2-187A5
	30 x BFVDF 2-250A
20 x BFVC 1.25	
20 x BFVC 2	

See content in our Tools & Assortment
chapter on page 277.**AD-008**361 pcs - 13 compartments
incl. tool

1 x crimping tool	30 x ECVDGF 1.25-5
	30 x EFVDGM 1.25-5
30 x BFV 1.25-5	
30 x BFV 1.25-6	30 x EFVDDF 2-187A5
30 x BFV 2-4	30 x EFVDDM 2-187A5
50 x BFV 1.25-B3A	
30 x BFV 2-YS4A	
30 x BFVC 1.25	
20 x BFVC 2	
20 x BFVC 5.5	

**AD-009**

1000 pcs - 14 compartments



100 x BFV 1.25-5	50 x ELVDDF 1.25-250A
50 x BFV 5.5-8	50 x EFVDDF 1.25-250A
	100 x EFVDDM 1.25-250
50 x BFV 1.25-YS4A	50 x ELVDDF 2-250A
100 x BFV 2-YS4A	50 x EFVDDF 2-250A
	100 x EFVDDM 2-250
100 x BFVC 1.25	50 x BFVDF 5.5-250A
100 x BFVC 2	50 x BFVDM 5.5-250

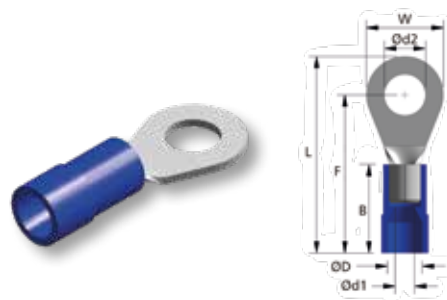
See content in our Tools & Assortment
chapter on page 278.INSULATED
TERMINALSSee content in our Tools & Assortment
chapter on page 278.**WS-00004**

100 pcs

10 x RBFV 1.25-6	6 x RBFVDDF 2-250A
10 x RBFV 2-4	6 x RBFVDDM 2-250
10 x RBFV 1.25-YS4A	6 x RBCVDGF 1.25-5
10 x RBFV 2-YS4A	6 x RBFVDGM 1.25-5
10 x RBFV 2-5A	
7 x RBFVC 1.25	6 x RBCVDGF 2-7
7 x RBFVC 2	6 x RBFVDGM 2-7

See content in our Tools & Assortment
chapter on page 278.

Nylon ring terminals - DIN 46237 Brazed Seam

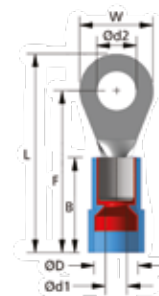


Wire range	Part nr.	Ød2 ± 0,18~0,25	W ± 0,18~0,25	F ± 1,0	L ± 1,5	B ± 1,0	ØD ± 0,5	Ød1 ± 0,25~0,3	Packed	UL
22~16 AWG 0,5~1,5 mm²	EFN 1.25-3DINBS	3,2	6,0	17,0	19,7	10,7	3,9	1,6	10 x 100	✓
	EFN 1.25-M3DINBS	3,7	6,0	17,0	19,7	10,7	3,9	1,6	10 x 100	✓
	EFN 1.25-4DINBS	4,3	8,0	18,0	21,7	10,7	3,9	1,6	10 x 100	✓
	EFN 1.25-5DINBS	5,3	10,0	19,0	23,7	10,7	3,9	1,6	10 x 100	✓
	EFN 1.25-6DINBS	6,5	11,0	21,0	26,2	10,7	3,9	1,6	10 x 100	✓
	EFN 1.25-8DINBS	8,4	14,0	23,0	29,7	10,7	3,9	1,6	10 x 100	✓
	EFN 1.25-10DINBS	10,5	18,0	25,0	33,7	10,7	3,9	1,6	10 x 100	✓
16~14 AWG 1,5~2,5 mm²	EFN 2-53.3DINBS	3,2	6,0	17,0	19,7	10,7	4,5	2,3	10 x 100	✓
	EFN 2-53DINBS	3,7	6,0	17,0	19,7	10,7	4,5	2,3	10 x 100	✓
	EFN 2-4DINBS	4,3	8,0	18,0	21,7	10,7	4,5	2,3	10 x 100	✓
	EFN 2-5DINBS	5,3	10,0	19,5	24,7	10,7	4,5	2,3	10 x 100	✓
	EFN 2-6DINBS	6,5	11,0	22,0	27,2	10,7	4,5	2,3	10 x 100	✓
	EFN 2-8DINBS	8,4	14,0	23,0	29,7	10,7	4,5	2,3	10 x 100	✓
	EFN 2-10DINBS	10,5	18,0	24,5	33,2	10,7	4,5	2,3	10 x 100	✓
	EFN 2-12DINBS	13,0	18,0	26,0	34,7	10,7	4,5	2,3	10 x 100	✓
12~10 AWG 4,0~6,0 mm²	EFN 5.5-4DINBS	4,3	8,0	21,0	25,0	12,7	6,4	3,6	10 x 100	✓
	EFN 5.5-5DINBS	5,3	10,0	22,0	26,7	12,7	6,4	3,6	10 x 100	✓
	EFN 5.5-6DINBS	6,5	11,0	23,0	27,7	12,7	6,4	3,6	10 x 100	✓
	EFN 5.5-8DINBS	8,4	14,0	26,0	32,7	12,7	6,4	3,6	10 x 100	✓
	EFN 5.5-10DINBS	10,5	18,0	28,0	36,7	12,7	6,4	3,6	10 x 100	✓
	EFN 5.5-12DINBS	13,0	18,0	28,0	36,7	12,7	6,4	3,6	10 x 100	✓

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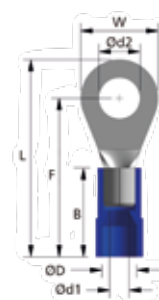
Nylon DIN ring terminals - Easy Entry copper sleeve

- Conductor size according to DIN 46234



Wire range	Part nr.	Ød2 ± 0,18~0,25	W ± 0,18~0,25	F ± 1,0	L ± 1,5	B ± 1,0	ØD ± 0,5	Ød1 ± 0,25~0,3	Packed	UL
22~16 AWG 0,5~1,5 mm ²	EFND 1.25-3DIN	3,2	6,0	17,0	19,7	10,7	4,4	1,7	10 x 100	
	EFND 1.25-4DIN	4,3	8,0	18,0	21,7	10,7	4,4	1,6	10 x 100	
	EFND 1.25-5DIN	5,3	10,0	19,0	23,7	10,7	4,4	1,7	10 x 100	
	EFND 1.25-6DIN	6,5	11,0	21,0	26,2	10,7	4,4	1,7	10 x 100	
	EFND 1.25-8DIN	8,4	14,0	23,0	29,7	10,7	4,4	1,7	10 x 100	
	EFND 1.25-10DIN	10,5	18,0	25,0	33,7	10,7	4,4	1,7	10 x 100	
16~14 AWG 1,5~2,5 mm ²	EFND 2-S3.3DIN	3,2	6,0	17,0	19,7	10,7	5,0	2,3	10 x 100	
	EFND 2-S3DIN	3,7	6,0	17,0	19,7	10,7	5,0	2,3	10 x 100	
	EFND 2-4DIN	4,3	8,0	18,0	21,7	10,7	5,0	2,3	10 x 100	
	EFND 2-5DIN	5,3	10,0	20,0	24,7	10,7	5,0	2,3	10 x 100	
	EFND 2-6DIN	6,5	11,0	22,0	27,7	10,7	5,0	2,3	10 x 100	
	EFND 2-8DIN	8,4	14,0	23,0	29,7	10,7	5,0	2,3	10 x 100	
12~10 AWG 4,0~6,0 mm ²	EFND 5.5-4DIN	4,3	8,0	21,0	25,0	12,7	7,0	3,4	10 x 100	
	EFND 5.5-5DIN	5,3	10,0	22,0	26,7	12,7	7,0	3,4	10 x 100	
	EFND 5.5-6DIN	6,5	11,0	23,0	27,7	12,7	7,0	3,4	10 x 100	
	EFND 5.5-8DIN	8,4	14,0	26,0	32,7	12,7	7,0	3,4	10 x 100	
	EFND 5.5-10DIN	10,5	18,0	28,0	36,7	12,7	7,0	3,4	10 x 100	

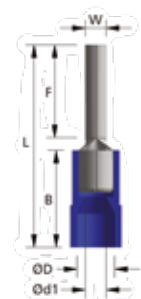
Nylon spade terminals - DIN 46237 Brazed Seam



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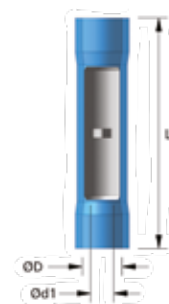
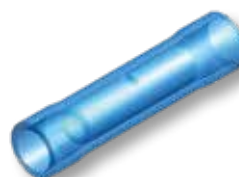
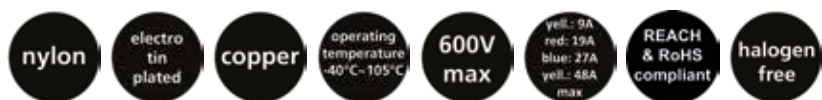
Wire range	Part nr.	Ød2 ± 0,18~0,2	W ± 0,1~0,25	F ± 1,0	L ± 1,5	B ± 1,0	ØD ± 0,5	Ød1 ± 0,3	Packed	UL
22~16 AWG 0,5~1,5 mm ²	EFN 1.25-B3ADINBS	3,2	6,0	16,0	19,3	10,7	3,9	1,7	10 x 100	✓
	EFN 1.25-YS3ADINBS	3,7	6,0	16,0	19,3	10,7	3,9	1,7	10 x 100	✓
	EFN 1.25-YS4ADINBS	4,3	8,0	17,0	21,3	10,7	3,9	1,7	10 x 100	✓
	EFN 1.25-5ADINBS	5,3	10,0	18,0	23,3	10,7	3,9	1,7	10 x 100	✓
	EFN 1.25-6ADINBS	6,5	11,0	20,0	25,9	10,7	3,9	1,7	10 x 100	✓
16~14 AWG 1,5~2,5 mm ²	EFN 2-B3ADINBS	3,2	6,0	18,0	19,6	10,7	4,5	2,3	10 x 100	✓
	EFN 2-YS3ADINBS	3,7	6,0	16,0	19,6	10,7	4,5	2,3	10 x 100	✓
	EFN 2-YS4ADINBS	4,3	8,0	17,0	21,6	10,7	4,5	2,3	10 x 100	✓
	EFN 2-5ADINBS	5,3	10,0	19,0	24,6	10,7	4,5	2,3	10 x 100	✓
	EFN 2-6ADINBS	6,5	11,0	21,0	27,1	10,7	4,5	2,3	10 x 100	✓
12~10 AWG 4,0~6,0 mm ²	EFN 5.5-S4ADINBS	4,3	8,0	21,0	23,9	12,7	6,4	3,4	10 x 100	✓
	EFN 5.5-5ADINBS	5,3	10,0	22,0	26,1	12,7	6,4	3,4	10 x 100	✓
	EFN 5.5-6ADINBS	6,5	11,0	23,0	27,9	12,7	6,4	3,4	10 x 100	✓
	EFN 5.5-8ADINBS	8,5	14,0	26,0	32,3	12,7	6,4	3,4	10 x 100	✓

Nylon pin terminals - DIN 46231 Brazed Seam



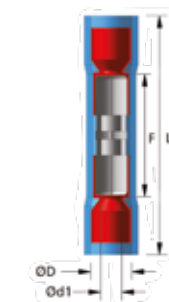
Wire range	Part nr.	W ± 0,2	F ± 0,3	L ± 1,0	B ± 0,6	ØD ± 0,3	Ød1 ± 0,2	Packed	UL
22~16 AWG	EFNPC 1.25-F10DINBS	1,9	8,0	21,5	11,0	4,1	1,6	10 x 100	✓
0,5~1,5 mm²	EFNPC 1.25DINBS	1,9	10,0	23,5	11,0	4,1	1,6	10 x 100	✓
16~14 AWG	EFNPC 2-F9DINBS	1,9	9,0	19,7	11,0	4,5	2,3	10 x 100	✓
1,5~2,5 mm²	EFNPC 2-F10DINBS	1,9	8,0	21,5	11,0	4,5	2,3	10 x 100	✓
	EFNPC 2DINBS	1,9	10,0	24,5	11,0	4,5	2,3	10 x 100	✓
	EFNPC 2-F13DINBS	1,9	11,0	28,5	11,0	4,5	2,3	10 x 100	✓
12~10 AWG	EFNPC 5.5-F10DINBS	2,7	8,0	23,5	13,0	6,5	3,6	10 x 100	✓
4,0~6,0 mm²	EFNPC 5.5DINBS	2,7	10,0	25,5	13,0	6,5	3,6	10 x 100	✓
	EFNPC 5.5-F13DINBS	2,7	11,0	26,7	13,0	6,5	3,6	10 x 100	✓

Nylon butt connectors - Standard



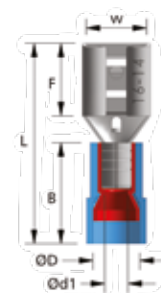
Wire range	Part nr.	L ± 1,5	ØD ± 0,5	Ød1 ± 0,3	Packed	UL
26~22AWG	BFNC 0.5	20,0	2,3	1,0	10 x 100	
0,2~0,5 mm²						
22~16 AWG	BFNC 1.25	26,2	4,4	1,9	10 x 100	
0,5~1,5 mm²						
16~14 AWG	BFNC 2	26,2	5,5	2,5	10 x 100	
1,5~2,5 mm²						
12~10 AWG	BFNC 5.5	28,2	7,5	3,6	10 x 100	
4,0~6,0 mm²						

Nylon butt connectors - Window type



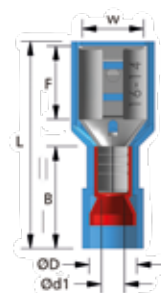
Wire range	Part nr.	F ± 0,3	L ± 1,0	ØD ± 0,3	Ød1 ± 0,3	Packed	UL
22~16 AWG	EFVDWSCW 1.25	15,0	30,0	4,1	1,7	10 x 100	
0,5~1,5 mm²							
16~14 AWG	EFVDWSCW 2	15,0	30,0	4,8	2,3	10 x 100	
1,5~2,5 mm²							
12~10 AWG	EFVDWSCW 5.5	17,0	35,0	6,5	3,4	10 x 100	
4,0~6,0 mm²							

Nylon female disconnectors - Easy Entry copper sleeve



Wire range	Part nr.	tab	W ± 0,3	F ± 0,5	L ± 1,5	B ± 1,0	ØD ± 0,5	Ød1 ± 0,3	Packed	UL
22~16 AWG 0,5~1,5 mm ²	EFNDDF 1.25-110A5	2,8x0,5	3,2	6,5	19,0	10,7	3,9	1,7	10 x 100	✓
	EFNDDF 1.25-110A8	2,8x0,8	3,2	6,5	19,0	10,7	3,9	1,7	10 x 100	✓
	EFNDDF 1.25-187A5	4,8x0,5	5,0	6,4	19,2	10,7	3,9	1,7	10 x 100	✓
	EFNDDF 1.25-187A8	4,8x0,8	5,0	6,4	19,2	10,7	3,9	1,7	10 x 100	✓
	EFNDDF 1.25-250A	6,3x0,8	6,6	7,2	20,8	10,7	3,9	1,7	10 x 100	✓
16~14 AWG 1,5~2,5 mm ²	EFNDDF 2-110A5	2,8x0,5	3,2	6,4	19,0	10,7	4,7	2,3	10 x 100	✓
	EFNDDF 2-110A8	2,8x0,8	3,2	6,4	19,0	10,7	4,7	2,3	10 x 100	✓
	EFNDDF 2-187A5	4,8x0,5	5,0	6,4	19,2	10,7	4,7	2,3	10 x 100	✓
	EFNDDF 2-187A8	4,8x0,8	5,0	6,4	19,2	10,7	4,7	2,3	10 x 100	✓
	EFNDDF 2-250A	6,3x0,8	6,6	7,2	20,8	10,7	4,7	2,3	10 x 100	✓
12~10 AWG 4,0~6,0 mm ²	EFNDDF 5.5-250A	6,3x0,8	6,6	7,2	23,8	12,7	6,3	3,4	10 x 100	✓
	EFNDDF 5.5-375A	9,4x1,2	9,7	12,0	28,6	12,7	6,3	3,4	10 x 100	

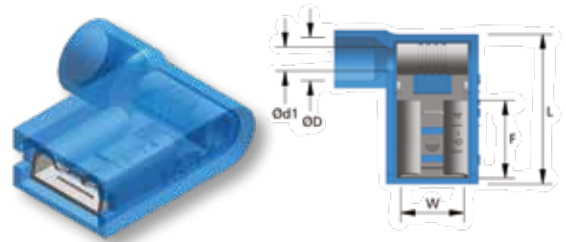
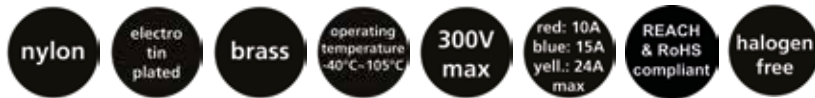
Nylon female disconnectors - Easy Entry copper sleeve



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Wire range	Part nr.	tab	W ± 0,5	F ± 0,5	L ± 2,0	B ± 1,0	ØD ± 0,5	Ød1 ± 0,5	Packed	UL
22~16 AWG 0,5~1,5 mm ²	ELNDDF 1.25-187A5	4,8x0,5	5,0	6,4	20,0	10,5	4,2	1,7	10 x 100	
	ELNDDF 1.25-187A8	4,8x0,8	5,0	6,5	20,0	10,5	4,2	1,7	10 x 100	✓
16~14 AWG 1,5~2,5 mm ²	ELNDDF 2-187A5	4,8x0,5	5,0	6,5	20,0	10,5	4,9	2,3	10 x 100	✓
	ELNDDF 2-187A8	4,8x0,8	5,0	6,5	20,0	10,5	4,9	2,3	10 x 100	✓

Nylon Flag Terminals - Standard



Wire range	Part nr.	tab	W ± 0,2	F ± 0,5	L ± 1,0	ØD ± 0,5	Ød1 ± 0,3	Packed	UL
22~16 AWG 0,5~1,5 mm ²	ELNDF 1.25-187A5	4,8x0,5	5,2	7,2	15,3	4,7	1,7	10 x 100	
	ELNDF 1.25-187A8	4,8x0,8	5,0	7,0	15,2	4,5	1,5	10 x 100	
	ELNDF 1.25-250A	6,3x0,8	6,6	7,2	16,0	4,4	1,7	10 x 100	
16~14 AWG 1,5~2,5 mm ²	ELNDF 2-187A5	4,8x0,5	5,0	7,0	15,0	5,0	2,3	10 x 100	
	ELNDF 2-187A8	4,8x0,8	5,0	7,0	15,0	5,0	2,3	10 x 100	
	ELNDF 2-250A	6,3x0,8	6,6	7,2	16,0	5,0	2,3	10 x 100	
12~10 AWG 4,0~6,0 mm ²	ELNDF 5.5-250A	6,3x0,8	7,0	7,6	17,5	6,5	3,4	10 x 100	



MH-1DS
10" Crimping tool for
insulated flag terminals
0,5 - 2,5 mm²

Tools for insulated flag terminals

Die set

For quick interchangeable
ratchet tools MHQIBE, HJ561
or HJ43I (separately available)
**see our Tools & Assortment
chapter (page 264-269)**



DSQIA4
For insulated flag terminals
0,5-2,5 mm²

MHQIBE

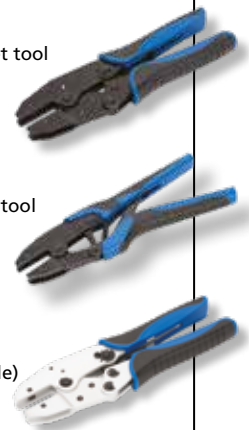
8,7" carbon steel ratchet tool
(separately available)

HJ561

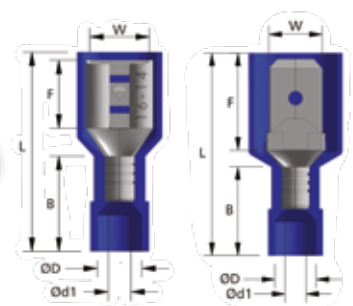
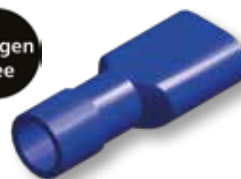
10" carbon steel ratchet tool
(separately available)

HJ43I

8,7" aluminium ratchet
tool (separately available)

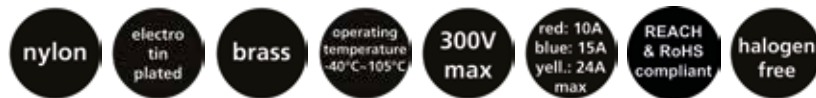


Nylon female & male disconnectors - Standard

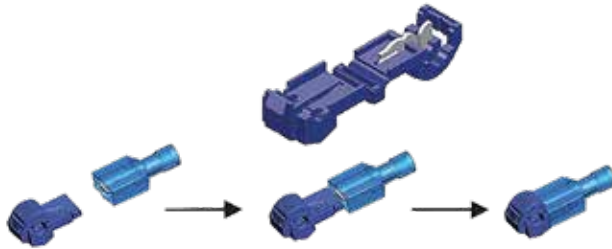
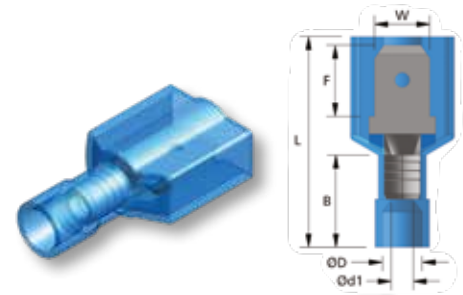


Wire range	Part nr.	tab	W ± 0,2	F ± 0,3~0,5	L ± 1,0~1,5	B ± 0,6~1,0	ØD ± 0,3~0,5	Ød1 ± 0,2~0,3	Packed	UL
22~16 AWG 0,5~1,5 mm ²	ELNDF 1.25-250A	6,4x0,8	6,6	7,9	22,0	10,5	4,2	1,7	10 x 100	✓
16~14 AWG 1,5~2,5 mm ²	ELNDF 2-250A	6,4x0,8	6,6	7,9	22,0	10,5	4,9	2,3	10 x 100	✓
12~10 AWG 4,0~6,0 mm ²	ELNDF 5.5-250A	6,4x0,8	6,6	7,9	24,5	13,0	6,5	3,4	10 x 100	✓
22~16 AWG 0,5~1,5 mm ²	ELNDM 1.25-250	6,3x0,8	6,3	7,6	23,5	10,5	4,0	1,7	10 x 100	
16~14 AWG 1,5~2,5 mm ²	ELNDM 2-250	6,3x0,8	6,3	7,6	23,5	10,5	4,5	2,3	10 x 100	
12~10 AWG 4,0~6,0 mm ²	ELNDM 5.5-250	6,3x0,8	6,3	7,6	26,0	12,8	6,5	3,4	10 x 100	

Nylon male disconnectors - Standard

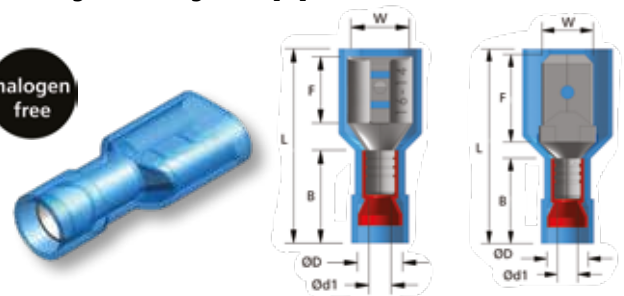


- Counterpart for: 999-1 / 999-5 / 999-3 on page 164



Wire range	Part nr.	tab	W ± 0,2	F ± 0,3	L ± 1,0	B ± 0,6	ØD ± 0,3	Ød1 ± 0,2	Packed	UL
22~16 AWG 0,5~1,5 mm ²	281638 (male)	6,4x0,8	6,35	7,9	24,0	10,5	4,0	1,7	10 x 100	✓
16~14 AWG 1,5~2,5 mm ²	285638 (male)	6,4x0,8	6,35	7,9	24,0	10,5	4,5	2,3	10 x 100	✓
12~10 AWG 4,0~6,0 mm ²	289638 (male)	6,4x0,8	6,35	7,9	26,5	12,5	6,5	3,4	10 x 100	✓

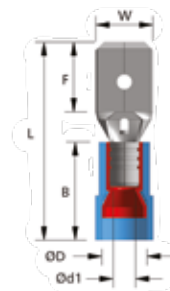
Nylon female & male disconnectors - Easy Entry copper sleeve



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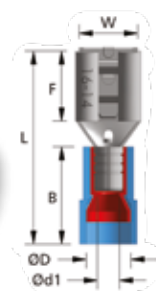
Wire range	Part nr.	tab	W ± 0,2	F ± 0,3	L ± 1,0	B ± 0,6	ØD ± 0,3	Ød1 ± 0,2	Packed	UL
22~16 AWG 0,5~1,5 mm ²	ELNDDF 1.25-250A	6,3x0,8	6,6	7,9	22,0	10,5	4,2	1,7	10 x 100	✓
16~14 AWG 1,5~2,5 mm ²	ELNDDF 2-250A	6,3x0,8	6,6	7,9	22,0	10,5	4,9	2,3	10 x 100	✓
12~10 AWG 4,0~6,0 mm ²	ELNDDF 5.5-250A	6,3x0,8	6,6	7,9	24,5	13,0	6,5	3,4	10 x 100	✓
22~16 AWG 0,5~1,5 mm ²	ELNDDM 1.25-250A	6,4x0,8	6,35	7,9	23,5	10,5	4,2	1,7	10 x 100	✓
16~14 AWG 1,5~2,5 mm ²	ELNDDM 2-250	6,4x0,8	6,35	7,9	23,5	10,5	4,9	2,3	10 x 100	✓
12~10 AWG 4,0~6,0 mm ²	ELNDDM 5.5-250A	6,4x0,8	6,35	7,9	27,0	13,0	6,5	3,4	10 x 100	✓

Nylon male disconnectors - Easy Entry copper sleeve



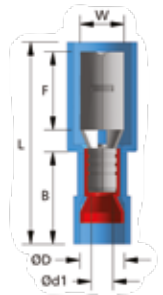
Wire range	Part nr.	tab	W ± 0,2	F ± 0,2	L ± 0,2	B ± 0,2	ØD ± 0,2	Ød1 ± 0,2	Packed	UL
22~16 AWG 0,5~1,5 mm ²	EFNDDM 1.25-110A5	2,8x0,5	2,8	7,6	19,4	10,7	3,8	1,7	10 x 100	✓
	EFNDDM 1.25-110A8	2,8x0,8	2,8	6,6	19,4	10,7	3,8	1,7	10 x 100	✓
	EFNDDM 1.25-187A5	4,8x0,5	4,8	7,6	19,9	10,7	3,8	1,7	10 x 100	✓
	EFNDDM 1.25-187A8	4,8x0,8	4,8	6,6	19,9	10,7	3,8	1,7	10 x 100	✓
	EFNDDM 125-250	6,3x0,8	6,3	6,6	21,7	10,7	3,8	1,7	10 x 100	✓
16~14 AWG 1,5~2,5 mm ²	EFNDDM 2-110A5	2,8x0,5	2,8	7,6	19,4	10,7	4,7	2,3	10 x 100	✓
	EFNDDM 2-110A8	2,8x0,8	2,8	6,6	19,4	10,7	4,7	2,3	10 x 100	✓
	EFNDDM 2-187A5	4,8x0,5	4,8	7,6	19,9	10,7	4,7	2,3	10 x 100	✓
	EFNDDM 2-187A8	4,8x0,8	4,8	6,6	19,9	10,7	4,7	2,3	10 x 100	✓
	EFNDDM 2-250	6,3x0,8	6,3	7,6	21,7	10,7	4,7	2,3	10 x 100	✓
12~10 AWG 4,0~6,0 mm ²	EFNDDM 5.5-250	6,3x0,8	6,3	7,6	24,0	12,7	6,2	3,4	10 x 100	✓

Nylon piggy back disconnectors - Easy Entry copper sleeve



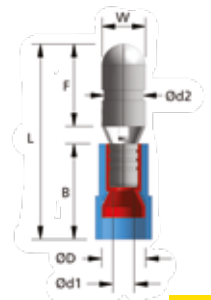
Wire range	Part nr.	tab	W ± 0,2	W1 ± 0,2	F ± 0,5	F1 ± 0,5	L ± 1,5	B ± 1,0	ØD ± 0,5	Ød1 ± 0,3	Packed	UL
22~16 AWG 0,5~1,5 mm ²	EFNDDFM 1.25-250A	6,3x0,8	6,7	6,4	8,0	8,2	22,0	10,7	3,8	1,7	10 x 100	✓
16~14 AWG 1,5~2,5 mm ²	EFNDDFM 2-250B	6,3x0,8	6,7	6,4	8,0	8,2	22,0	10,7	4,7	2,3	10 x 100	✓
12~10 AWG 4,0~6,0 mm ²	EFNDDFM 5.5-250A	6,3x0,8	6,7	6,4	8,0	8,2	25,2	12,7	6,2	3,4	10 x 100	✓

Nylon female bullet disconnectors - Easy Entry copper sleeve



Wire range	Part nr.	W ± 0,05~0,2	F ± 0,5~1,0	L ± 1,0~1,5	B ± 0,6~1,0	ØD ± 0,5	Ød1 ± 0,2~0,3	Packed	UL
22~16 AWG 0,5~1,5 mm²	ECNDGF 1.25-5	3,9	7,3	23,3	9,6	3,8	1,7	10 x 100	
16~14 AWG	ECNDGF 2-5	3,9	7,3	23,3	9,6	4,7	2,3	10 x 100	
1,5~2,5 mm²	ECNDGF 2-7	5,0	9,0	23,0	10,5	4,9	2,3	10 x 100	✓
12~10 AWG 4,0~6,0 mm²	ECNDGF 5.5-7	5,0	9,0	25,5	13,0	6,5	3,4	10 x 100	✓

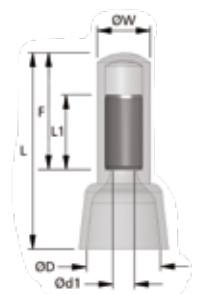
Nylon male bullet disconnectors - Easy Entry copper sleeve



Wire range	Part nr.	W ± 0,04~0,09	F ± 0,5	L ± 1,5	B ± 1,0	ØD ± 0,5	Ød1 ± 0,3	Ød2 ± 0,1	Packed	UL
22~16 AWG 0,5~1,5 mm²	EFNDGM 1.25-5	4,0	9,0	21,7	10,7	3,8	1,7	3,7	10 x 100	✓
16~14 AWG	EFNDGM 2-5	4,0	9,0	22,0	10,7	4,7	2,3	3,7	10 x 100	✓
1,5~2,5 mm²	EFNDGM 2-7	5,0	9,0	22,0	10,7	4,7	2,3	4,7	10 x 100	✓
12~10 AWG 4,0~6,0 mm²	EFNDGM 5.5-7	5,0	9,0	24,0	12,7	6,2	3,4	4,7	10 x 100	✓

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Nylon closed end connectors



Wire range	Part nr.	ØW ± 0,3	F ± 0,5	L ± 1,0	L1 ± 0,5	ØD ± 0,5	Ød1 ± 0,3	Packed	UL
22~16 AWG 0,5~1,5 mm²	RB 1-SD	4,8	12,1	19,3	6,9	6,5	2,8	10 x 100	
16~14 AWG 1,5~2,5 mm²	RB 2-SD	5,5	12,2	19,8	6,9	7,9	3,3	10 x 100	
12~10 AWG 4,0~6,0 mm²	RB 5.5-SD	7,5	16,2	25,5	7,5	11,0	4,5	10 x 100	

Die set

For quick interchangeable ratchet tools MHQIBE, HJ56I or HJ43I (separately available) see our **Tools & Assortment** chapter (page 264-269)



DSQIA5
For heat shrink & closed end terminals
0,5-6,0 mm²

MHQIBE

8,7" carbon steel ratchet tool
(separately available)



HJ56I

10" carbon steel ratchet tool
(separately available)



HJ43I

8,7" aluminium ratchet tool
(separately available)



KH-13

10" Crimping tool for heat shrink and closed end terminals
0,5-6,0 mm²



Tools for closed end terminals

Tools for PVC and Nylon insulated terminals



BN-03C
10" Crimping tool for insulated terminals
0,5-6,0 mm²
DOUBLE crimp



BN-05C
8,7" Crimping tool for insulated terminals
0,5-6,0 mm²



KH-502
8" Crimping tool for insulated terminals
0,5 - 6,0 mm²
Bolt cutting
M2,6 / M3 / M3,5 / M4 / M5
Wire stripping
0,75 - 6,0 mm²



KH-507
9,5" Multi-tool for insulated and non-insulated (brazed seam only) terminals
0,5-6,0 mm²
Bolt cutting
M2,6 / M3 / M3,5 / M4 / M5
Wire stripping
0,75-6,0 mm²



MEB-700C
9" Multi-tool for insulated (brazed seam only) and open barrel terminals
0,5-6,0 mm²
Bolt cutting
M2,6 / M3 / M3,5 / M4 / M5
Wire stripping
0,75-6,0 mm²

Die sets

For quick interchangeable ratchet tools MHQIBE, HJ56I or HJ43I (separately available) see our **Tools & Assortment** chapter (page 264-269)



DSQIA
For insulated terminals
0,5-6,0 mm²



DSQIA2
For fully insulated female disconnectors
0,5-6,0 mm²



DSQIA3
For miniature insulated terminals
0,1-1,5 mm²



MHQIBE

8,7" carbon steel ratchet tool
(separately available)



HJ56I

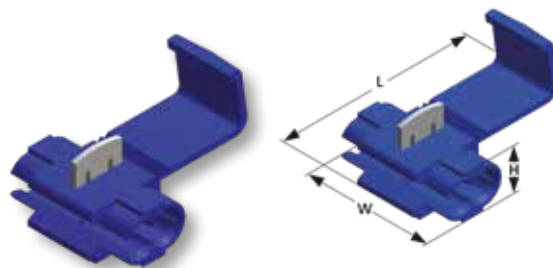
10" carbon steel ratchet tool
(separately available)

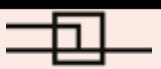
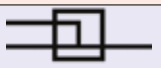
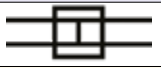


HJ43I

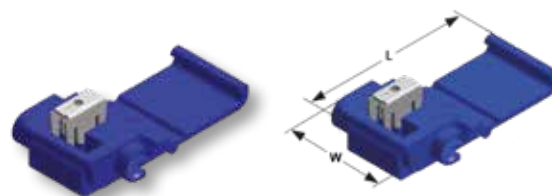
8,7" aluminium ratchet tool
(separately available)

Quick splice connectors - Single tab

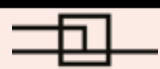
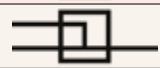
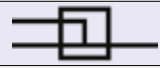
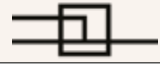


Wire range	Part nr.		W ± 0,6	H ± 0,6	L ± 1,0	Packed	UL
22~18 AWG 0,5~1,0 mm ²	CL 1.0-TA		20,0	8,0	26,8	100	✓
18~14 AWG 1,0~2,5 mm ²	CL 2.5-TALB		20,0	8,0	26,8	100	✓
18~14 AWG 1,0~2,5 mm ²	CL 2.5-TAW		20,0	8,0	26,8	100	✓
12~10 AWG 4,0~6,0 mm ²	CL 5.5-TA		20,0	11,0	35,0	50	✓

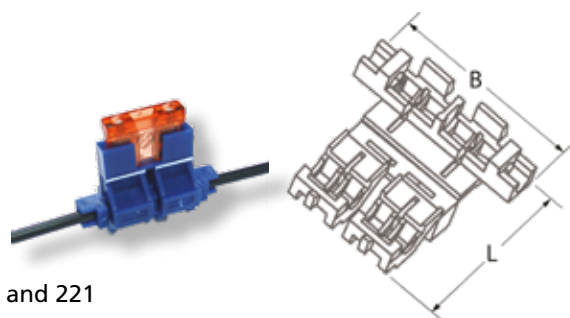
Quick splice connectors - Double tab



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Wire range	Part nr.		W ± 0,6	L ± 1,0	Packed	UL
22~18 AWG 0,5~1,0 mm ²	OWE 1.25		19,4	33,0	100	
18~16 AWG 0,75~1,5 mm ²	OWE 1.5		19,4	33,0	100	
18~14 AWG 1,0~2,5 mm ²	OWE 2		19,4	33,0	100	
18~14/12~10 AWG 0,75~2,5/4,0~6,0 mm ²	OWE 4.0		21,1	35,0	100	

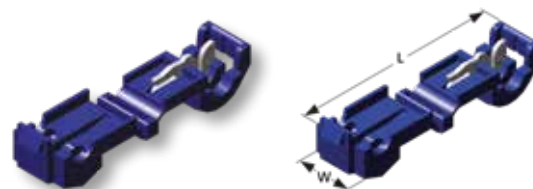
Quick splice connectors - Fuse holder



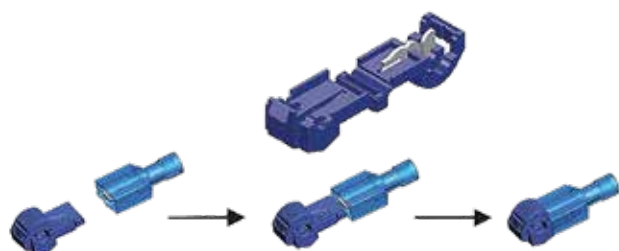
- Counterpart for: SBF1500 and SBF1900 series on page 220 and 221

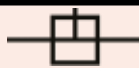
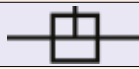
Wire range	Part nr.	Description	B	L	Packed	UL
22~18 AWG 0,5~1,0 mm ²	CL 1.0-FUSE	Holder for scotch lock type, direct crimp	35,1	30,55	100	
18~14 AWG 0,75~2,5 mm ²	CL 2.5-FUSE	Holder for scotch lock type, direct crimp	35,0	34,0	200	

Quick splice connectors - T-tap



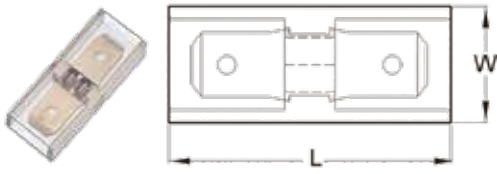
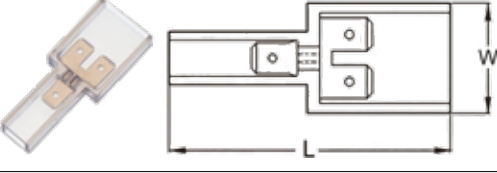
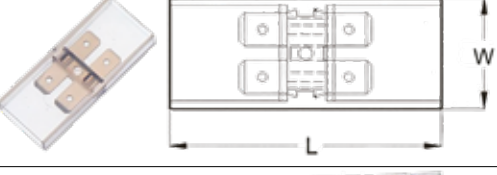
- Counterpart for: 281638 / 285638 / 289638 on page 159



Wire range	Part nr.		tab	W ± 0,6	L ± 1,0	Packed	UL
22~18 AWG 0,5~1,0 mm²	999-1		0,8	9,5	38,0	10 x 100	✓
18~14 AWG 1,0~2,5 mm²	999-5		0,8	9,5	38,0	10 x 100	✓
12 AWG 4,0 mm²	999-3		0,8	9,5	38,0	10 x 100	✓

Line splice connectors



Part nr.	tab	W	L	Tabs		Packed
401/1	2 tabs 6,3x0,8	11,5	27,8	1 -> 1		500
405/3	3 tabs 6,3x0,8	21,0	54,0	1 -> 2		100
405/4	4 tabs 6,3x0,8	20,5	50,0	2 -> 2		100
401/12*	12 tabs 6,3x0,8	11,8	25,8	12 -> 12		20

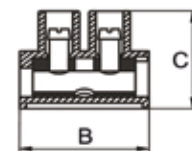
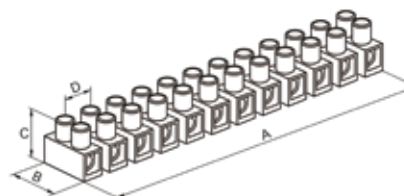
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*Insulation material (PP) Polypropylene

Terminal blocks - 12 Poles



- Material: Nylon (PA)
- Insert: Brass
- Screws: Galvanised steel
- Color: Natural or black (standard)
- Applicable standard: EN 60998-1 & EN 60988-2-1
- PA66: Flame retardant to UL 94 V-2, chemical resistance, pressure and impact resistant
- Rated voltage: 450V
- Operating temperature: -35 °C ~ 120 °C



Part nr.	Wire range mm ²	Color	Screw	A	B	C	D	Rating	Packed
KSPA-3WH	2,5~4,0	white	M2,5	92,0	15,8	12,8	7,7	3A	10
KSPA-3BL	2,5~4,0	black	M2,5	92,0	15,8	12,8	7,7	3A	10
KSPA-4WH	4,0~6,0	white	M3,0	111,0	17,4	13,3	9,3	6A	10
KSPA-4BL	4,0~6,0	black	M3,0	111,0	17,4	13,3	9,3	6A	10
KSPA-5WH	6,0~10,0	white	M3,0	128,0	19,7	14,5	10,7	10A	10
KSPA-5BL	6,0~10,0	black	M3,0	128,0	19,7	14,5	10,7	10A	10
KSPA-6WH	10,0~12,0	white	M3,5	133,0	22,6	18,0	11,1	15A	10
KSPA-6BL	10,0~12,0	black	M3,5	133,0	22,6	18,0	11,1	15A	10
KSPA-8WH	12,0~14,0	white	M4,0	137,0	22,6	18,5	11,4	20A	10
KSPA-8BL	12,0~14,0	black	M4,0	137,0	22,6	18,5	11,4	20A	10
KSPA-9WH	16,0	white	M4,0	163,0	23,6	20,5	13,6	30A	10
KSPA-9BL	16,0	black	M4,0	163,0	23,6	20,5	13,6	30A	10
KSPA-10WH	25,0	white	M4,0	192,0	30,2	25,0	16,0	60A	10
KSPA-10BL	25,0	black	M4,0	192,0	30,2	25,0	16,0	60A	10
KSPA-12WH	35,0	white	M5,0	204,0	36,7	28,3	17,0	80A	10
KSPA-12BL	35,0	black	M5,0	204,0	36,7	28,3	17,0	80A	10
KSPA-15WH	40,0	white	M6,0	232,0	39,0	33,0	19,3	100A	10
KSPA-15BL	40,0	black	M6,0	232,0	39,0	33,0	19,3	100A	10

Heat shrink ring terminals



Wire range	Part nr.	Ød2	W	L	B	ØD	Ød1	Packed	UL
22~18 AWG 0,5~1,5 mm²	HS 1.25-4	4,3	8,0	28,0	21,0	4,8	1,7	100	✓
	HS 1.25-5	5,3	9,5	30,0	21,0	4,8	1,7	100	✓
	HS 1.25-6	6,5	11,6	33,0	21,0	4,8	1,7	100	✓
	HS 1.25-8	8,5	11,6	34,0	21,0	4,8	1,7	100	✓
	HS 1.25-10	10,5	13,6	38,0	21,0	4,8	1,7	100	✓
16~14 AWG 1,5~2,5 mm²	HS 2-4	4,3	8,5	28,0	21,0	5,8	2,3	100	✓
	HS 2-5	5,3	9,5	30,0	21,0	5,8	2,3	100	✓
	HS 2-6	6,5	12,0	33,0	21,0	5,8	2,3	100	✓
	HS 2-8	8,5	12,0	34,0	21,0	5,8	2,3	100	✓
	HS 2-10	10,5	13,6	38,0	21,0	5,8	2,3	100	✓
12~10 AWG 4,0~6,0 mm²	HS 5.5-4	4,3	9,5	32,0	25,0	6,8	3,4	100	✓
	HS 5.5-5	5,3	9,5	34,0	25,0	6,8	3,4	100	✓
	HS 5.5-6	6,5	12,0	37,0	25,0	6,8	3,4	100	✓
	HS 5.5-8	8,5	12,0	38,0	25,0	6,8	3,4	100	✓
	HS 5.5-10	10,5	15,0	42,0	25,0	6,8	3,4	100	✓
	HS 5.5-12	12,5	19,2	46,0	25,0	6,8	3,4	100	✓

Heat shrink ring terminals - DIN



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- Conductor size according to DIN 46234

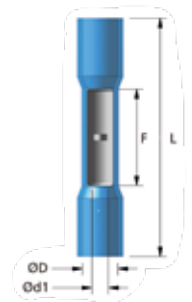
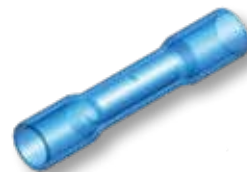
Wire range	Part nr.	Ød2	W	L	B	ØD	Ød1	Packed	UL
22~18 AWG 0,5~1,5 mm²	HS 1.25-4DIN	4,3	8,0	29,0	21,0	4,8	1,7	100	
	HS 1.25-5DIN	5,3	10,0	31,0	21,0	4,8	1,7	100	
	HS 1.25-6DIN	6,5	11,0	33,0	21,0	4,8	1,7	100	
	HS 1.25-8DIN	8,5	14,0	37,0	21,0	4,8	1,7	100	
	HS 1.25-10DIN	10,5	18,0	41,0	21,0	4,8	1,7	100	
16~14 AWG 1,5~2,5 mm²	HS 2-4DIN	4,3	8,0	29,0	21,0	5,8	2,3	100	
	HS 2-5DIN	5,3	10,0	32,0	21,0	5,8	2,3	100	
	HS 2-6DIN	6,5	11,0	34,0	21,0	5,8	2,3	100	
	HS 2-8DIN	8,5	14,0	37,0	21,0	5,8	2,3	100	
	HS 2-10DIN	10,5	18,0	41,0	21,0	5,8	2,3	100	
12~10 AWG 4,0~6,0 mm²	HS 5.5-4DIN	4,3	8,0	34,0	25,0	6,8	3,4	100	
	HS 5.5-5DIN	5,3	10,0	36,0	25,0	6,8	3,4	100	
	HS 5.5-6DIN	6,5	11,0	37,0	25,0	6,8	3,4	100	
	HS 5.5-8DIN	8,5	14,0	42,0	25,0	6,8	3,4	100	
	HS 5.5-10DIN	10,5	18,0	46,0	25,0	6,8	3,4	100	
	HS 5.5-12DIN	12,5	18,0	46,0	25,0	6,8	3,4	100	

Heat shrink spade terminals



Wire range	Part nr.	Ød2	W	L	B	ØD	Ød1	Packed	UL
22~18 AWG	HS 1.25-4A	4,3	8,1	30,0	21,0	4,8	1,7	100	✓
0,5~1,5 mm²	HS 1.25-5A	5,3	9,5	30,0	21,0	4,8	1,7	100	✓
16~14 AWG	HS 2-4A	4,3	8,1	30,0	21,0	5,8	2,3	100	✓
1,5~2,5 mm²	HS 2-5A	5,3	9,5	30,0	21,0	5,8	2,3	100	✓
12~10 AWG	HS 5.5-4A	4,3	9,0	34,0	25,0	6,8	3,4	100	✓
4,0~6,0 mm²	HS 5.5-5A	5,3	9,0	34,0	25,0	6,8	3,4	100	✓

Heat shrink butt connectors



Wire range	Part nr.	F	L	ØD	Ød	Packed	UL
26~24 AWG	HSC 0.5	12,0	28,0	3,2	1,3	100	✓
0,25~0,5 mm²							
22~18 AWG	HSC 1.25	15,0	35,0	4,8	1,7	100	✓
0,5~1,5 mm²							
16~14 AWG	HSC 2	15,0	35,0	5,8	2,3	100	✓
1,5~2,5 mm²							
12~10 AWG	HSC 5.5	15,0	41,0	6,8	3,4	100	✓
4,0~6,0 mm²							

Heat shrink/solder sleeves assortments

AD-015

120 pcs - 18 compartments
Heat shrink/solder sleeves

15 x CWT-9002
15 x CWT-9003
5 x CWT-9004

25 x SGRS-1
15 x SGRS-2
10 x SGRS-3
5 x SGRS-4

15 x HSC 1.25
15 x HSC 2



AD-022

120 pcs - 18 compartments
Heat shrink/budget solder sleeves

15 x AET-9002
15 x AET-9003
5 x AET-9004

25 x SOEV 2.4
15 x SOEV 4.0
10 x SOEV 9.0
5 x SOEV 15.0

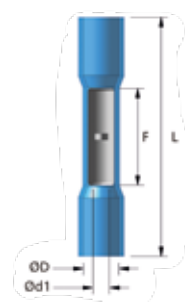
15 x HSC 1.25
15 x HSC 2



Heat shrink butt connectors - Duraseal



- Shrink ratio: 2:1
- Dielectric strength: 2500 V
- Insulation resistance: 1000 MΩ at 100 V
- Quality assurance: UL, CUL and Lloyd's 65 247 HH 02-93
- Not flame retardant



Wire range	Part nr.	F	L	ØD	Ød1	Packed	UL
20~18 AWG 1,0~1,5 mm ²	D406-0001	15,0	31,5	3,7	1,5	100	✓
16~14 AWG 1,5~2,5 mm ²	D406-0002	15,0	31,5	4,6	2,3	100	✓
12~10 AWG 4,0~6,0 mm ²	D406-0003	15,0	37,5	6,5	3,5	100	✓

Duraseal/solder sleeves assortment

AD-021 120 pcs - 18 compartments Duraseal/solder sleeves

15 x CWT-9002
15 x CWT-9003
5 x CWT-9004

25 x SGRS-1
15 x SGRS-2
10 x SGRS-3
5 x SGRS-4

15 x D406-0001
15 x D406-0002



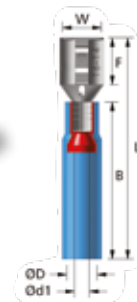
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Heat shrink step down butt connectors



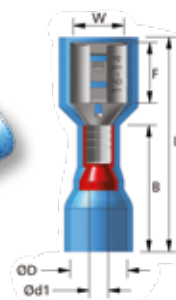
Wire range	Part nr.	Color code	L	F	ØD	Ød1	Ød2	Packed	UL
26~24 to 22~18 AWG 0,25~0,5 to 0,5~1,5 mm ²	SDC 0.2-1.5	white to red	40	19	6,2	1,37	1,7	100	✓
22~18 to 16~14 AWG 0,5~1,5 to 1,5~2,5 mm ²	SDC 0.5-2.5	red to blue	40	19	8,0	1,7	2,3	100	✓
16~14 to 12~10 AWG 1,5~2,5 to 4,0~6,0 mm ²	SDC 1.5-6.0	blue to yellow	45	21	9,0	2,3	3,4	100	✓
12~10 to 8 AWG 4,0~6,0 to 10 mm ²	SDC 6.0-10	yellow to red	45	21	11,6	3,4	4,5	100	✓

Heat shrink female disconnectors - Dual wall 3:1



Wire range	Part nr.	tab	W	L	B	ØD	Ød1	Packed	UL
22~18 AWG	HSFH 1.25-187A8	4,8x0,8	5,2	30,0	21,0	4,8	1,7	100	✓
0,5~1,5 mm²	HSFH 1.25-250A	6,3x0,8	6,6	30,0	21,0	4,8	1,7	100	✓
16~14 AWG	HSFH 2-187A8	4,8x0,8	5,2	30,0	21,0	5,8	2,3	100	✓
1,5~2,5 mm²	HSFH 2-250A	6,3x0,8	6,6	30,0	21,0	5,8	2,3	100	✓
12~10 AWG	HSFH 5.5-250A	6,3x0,8	6,6	32,0	25,0	6,8	3,4	100	✓
4,0~6,0 mm²									

Heat shrink female disconnectors - Dual wall 3:1



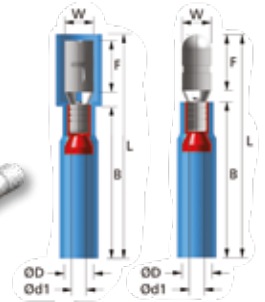
Wire range	Part nr.	tab	W	F	L	B	ØD	Ød1	Packed	UL
22~18 AWG	HSF 1.25-187A8	4,8x0,8	5,2	6,4	30,0	21,0	4,8	1,7	100	✓
0,5~1,5 mm²	HSF 1.25-250A	6,3x0,8	6,6	6,7	30,0	21,0	7,0	1,7	100	✓
16~14 AWG	HSF 2-187A8	4,8x0,8	5,2	6,4	30,0	21,0	5,8	2,3	100	✓
1,5~2,5 mm²	HSF 2-250A	6,3x0,8	6,6	6,7	30,0	21,0	7,0	2,3	100	✓
12~10 AWG	HSF 5.5-250A	6,3x0,8	6,6	6,7	32,0	25,0	7,0	3,4	100	✓
4,0~6,0 mm²										

Heat shrink male disconnectors - Dual wall 3:1



Wire range	Part nr.	tab	W	L	B	ØD	Ød1	Packed	UL
22~18 AWG	HSM 1.25-187A8	4,8x0,8	4,8	31,0	21,0	4,8	1,7	100	✓
0,5~1,5 mm²	HSM 1.25-250	6,3x0,8	6,3	31,0	21,0	4,8	1,7	100	✓
16~14 AWG	HSM 2-187A8	4,8x0,8	4,8	31,0	21,0	5,8	2,3	100	✓
1,5~2,5 mm²	HSM 2-250	6,3x0,8	6,3	31,0	21,0	5,8	2,3	100	✓
12~10 AWG	HSM 5.5-250	6,3x0,8	6,3	35,0	25,0	6,8	3,4	100	✓
4,0~6,0 mm²									

Heat shrink female & male bullet connectors - Dual wall 3:1



Wire range	Part nr.	W	L	B	ØD	Ød1	Packed	UL
22~16 AWG	HSCF 1.25-5	4,0	32,0	21,0	4,8	1,7	100	✓
0,5~1,5 mm ²	HSGM 1.25-5	4,0	31,0	21,0	4,8	1,7	100	✓
16~14 AWG	HSCF 2-5	4,0	32,0	21,0	5,8	2,3	100	✓
1,5~2,5 mm ²	HSGM 2-5	4,0	31,0	21,0	5,8	2,3	100	✓

HJ600135BC-A1

398 pcs - 19 compartments
incl. tool

1 x 10" ratchet crimper HJ56I
1 x die set DSQIA1
1 x die set DSQIA5

15 x HSF 1.25-250A
15 x HSM 1.25-250
10 x HSF 2-250A
10 x HSM 2-250

25 x HSC 1.25
25 x HSC 2
15 x HSC 5.5

25 x HS 1.25-4
25 x HS 1.25-5
25 x HS 1.25-6
20 x HS 1.25-8
25 x HS 1.25-10
25 x HS 2-4
25 x HS 2-5
25 x HS 2-6
25 x HS 2-8
15 x HS 2-10
10 x HS 5.5-4
10 x HS 5.5-5
10 x HS 5.5-6
5 x HS 5.5-8
10 x HS 5.5-10

Professional kit



See content in our Tools & Assortment chapter on page 277.

Heat shrink terminals assortment

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Tools for heat shrink terminals



KH-13
10" Crimping tool
For heat shrink and closed end terminals
0,5-6,0 mm²

Die sets

For quick interchangeable ratchet tools
MHQIBE, HJ56I or HJ43I (separately available)
see our Tools & Assortment chapter (page 264-269)



DSQIA1
For heat shrink butt connectors
0,5~6,0 mm²



DSQIA5
For heat shrink and closed end terminals
0,5~6,0 mm²

MHQIBE

8,7" carbon steel ratchet tool
(separately available)



HJ56I

10" carbon steel ratchet tool
(separately available)



HJ43I

8,7" aluminium ratchet tool
(separately available)



Tools for heat shrink terminals and solder sleeves



MJ-600
Flameless heatgun
(supplied with empty lighter)

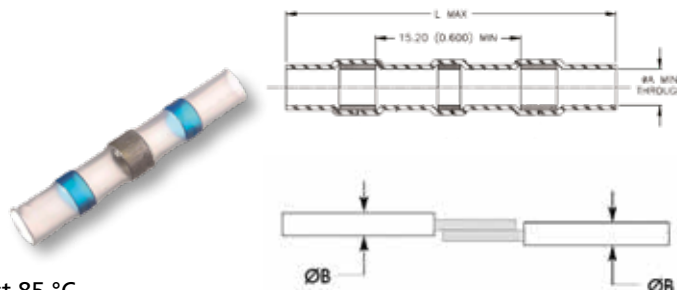


90-51773
Universal lighter gas (butane)
200 ml



MJ-300
Heatgun with micro-flame
(supplied with empty lighter)

Solder butt connectors - 3:1



- For tin plated or bare copper stranded wires, rated for at least 85 °C
- Material: Polyolefin tubing with thermoplastic, color coded, adhesive rings
- Solder preform: With Flux
- Volume resistivity: < equal length of wire
- Dielectric strength (kV/mm): 20
- Voltage drop: 2mV

Wire range	Part nr.	L	ØA	ØB min	ØB max	Packed	UL
22~18 AWG 0,3~0,8 mm ²	CWT-9001	26	1,7	0,4	1,7	100	✓
18~14 AWG 0,8~2,0 mm ²	CWT-9002	42	2,7	1,3	2,7	100	✓
14~12 AWG 2,0~4,0 mm ²	CWT-9003	42	4,5	1,8	4,5	100	✓
12~10 AWG 4,0~6,0 mm ²	CWT-9004	42	6,0	2,8	6,0	100	✓

Solder sleeve assortments

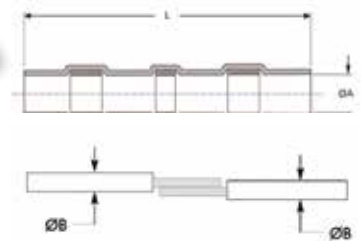
AD-050
200 pcs - 18 compartment
solder sleeves
50 x CWT-9001
50 x CWT-9002
50 x CWT-9003
50 x CWT-9004



AD-051
400 pcs - 18 compartments
solder sleeves
100 x CWT-9001
100 x CWT-9002
100 x CWT-9003
100 x CWT-9004



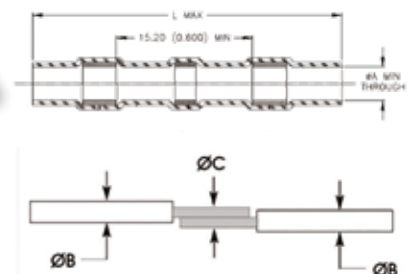
Solder Butt Connectors - RoHS compliant 3:1



- For tin plated or bare copper stranded wires, rated for at least 85 °C
- Lead free, RoHS compliant
- Material: Polyolefin tubing with thermoplastic, color coded, adhesive rings
- Solder preform: With Flux
- Volume resistivity: < equal length of wire
- Dielectric strength (kV/mm): 20
- Voltage drop: 2mV

Wire range	Part nr.	L	ØA	ØB min	ØB max	Packed	UL
22~18 AWG 0,3~0,8 mm ²	ROHSWT-9001	26	1,7	0,4	1,7	100	
18~14 AWG 0,8~2,0 mm ²	ROHSWT-9002	42	2,7	1,3	2,7	100	
14~12 AWG 2,0~4,0 mm ²	ROHSWT-9003	42	4,5	1,8	4,5	100	
12~10 AWG 4,0~6,0 mm ²	ROHSWT-9004	42	6,0	2,8	6,0	100	

Solder butt connectors - Budget 2:1



- For tin plated or bare copper stranded wires, rated for at least 85 °C
- Material: Polyolefin tubing with thermoplastic, color coded, adhesive rings
- Solder preform: With Flux
- Volume resistivity (Ω/cm): ≥ 10¹⁵
- Dielectric strength (kV/mm): ≥ 25
- Voltage resistant: > 600V

Wire range	Part nr.	L ± 2,0	ØA	ØB min	ØB max ØC max	ØC min	Packed	UL
26~24 AWG 0,25~0,5 mm ²	AET-9001	26	1,7	0,4	1,7	0,76	100	✓
22~18 AWG 0,5~1,5 mm ²	AET-9002	40	2,6	1,3	2,6	1,2	100	✓
16~14 AWG 1,5~2,5 mm ²	AET-9003	40	4,5	1,8	4,5	2,0	100	✓
12~10 AWG 4,0~6,0 mm ²	AET-9004	40	5,8	2,8	5,8	3,4	100	✓

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Solder sleeve assortments

AD-052

200 pcs - 18 compartments
budget solder sleeves

50 x AET-9001
50 x AET-9002
50 x AET-9003
50 x AET-9004



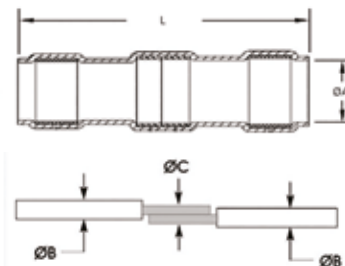
AD-053

400 pcs - 18 compartments
budget solder sleeves

100 x AET-9001
100 x AET-9002
100 x AET-9003
100 x AET-9004



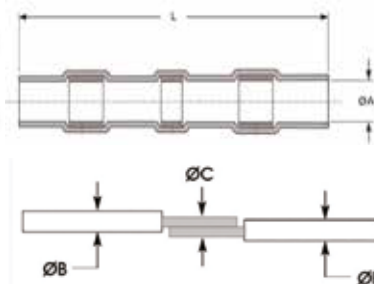
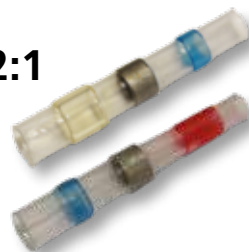
Solder butt connectors - Duo flux 3:1



- For tin plated or bare copper stranded wires, rated for at least 85 °C
- Material: Polyolefin tubing with thermoplastic, color coded, adhesive rings
- Solder preform: With Flux
- Volume resistivity: < equal length of wire
- Dielectric strength (kV/mm): > 20
- Voltage resistant: < 2mV

Wire range	Part nr.	L	ØA	ØB min	ØB max ØC max	ØC min	Packed	UL
21~17 AWG 0,4~1,0 mm ²	DCWT-9002	31	2,3	1,5	2,3	1,8	100	
17~14 AWG 1,0~2,5 mm ²	DCWT-9003	36	4,3	2,0	4,3	2,3	100	
12~10 AWG 3,0~5,0 mm ²	DCWT-9004	42	6,8	3,4	6,8	3,7	100	

Solder butt connectors - Step down 2:1



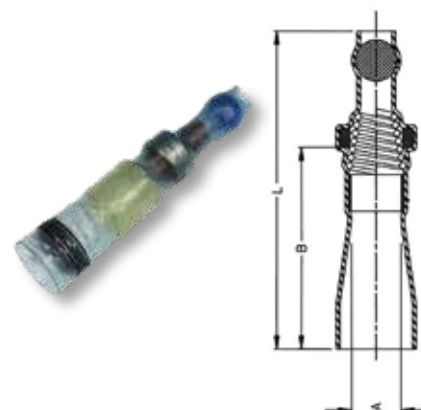
- Material: Heat shrinkable polyolefin tubing with thermoplastic, color coded, adhesive rings
- Solder preform: With Flux
- Volume resistivity (Ω/cm): ≥ 10¹⁵
- Dielectric strength (kV/mm): ≥ 25
- Voltage resistant: > 600V

Wire range	Part nr.	Color code	L	ØA	ØB min	ØB max ØC max	ØC min	Packed	UL
22~14 AWG 0,5~2,5 mm ²	CWT-9003 SD-2	blue to red	40	4,5	1,3	4,5	1,2	100	
22~14 AWG 0,5~2,5 mm ²	CWT-9003 SD	yellow to blue	40	4,5	1,3	4,5	1,2	100	

Solder grip end connectors - 3:1



- Material: Heat shrinkable thermoplastic (PVDF) tubing
- Sealing insert: hot melt adhesive
- Conical spring: Square copper wire
- End closure ball: Color coded, tinted glass
- Solder preform: With Flux
- Volume resistivity: < equal length of wire
- Dielectric strength (kV/mm): > 20
- Voltage drop: < 2mV max

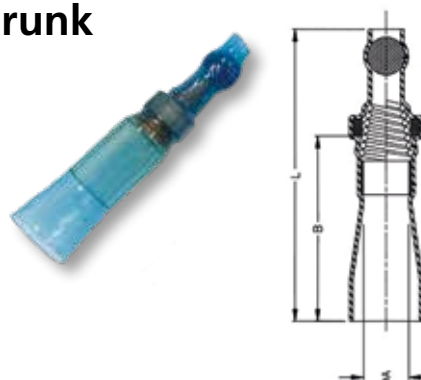


Wire range	Part nr.	L	ØA	B	Max bundle Ø	Packed	UL
19-13 AWG 0,7-2,4 mm	SGRS-1	38,3	3,6	26,0	3,3	100	✓
14-12 AWG 2,0-4,0 mm	SGRS-2	37,7	5,0	23,5	4,5	100	✓
12-8 AWG 3,5-8,0 mm	SGRS-3	45,5	7,5	26,5	7,0	100	✓
8-6 AWG 7,5-12,0 mm	SGRS-4	45,0	9,4	25,5	9,0	100	✓

Solder grip end connectors - Budget 3:1 pre-shrunk



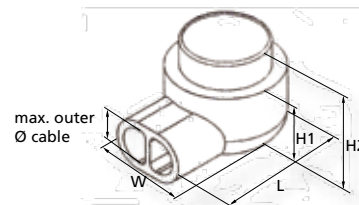
- Material: Heat shrinkable, thermoplastic (PVDF) tubing pre-shrunk (appr. 2:1)
- Conical spring: Square copper wire
- End closure ball: Color coded, tinted glass
- Solder preform: With Flux
- Volume resistivity (Ω/cm): $\geq 10^{15}$
- Dielectric strength (kV/mm): ≥ 25
- Voltage resistant: > 600V



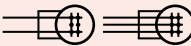
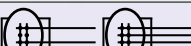
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Wire range	Part nr.	L	ØA	B	Min bundle Ø	Max bundle Ø	Packed	UL
19-13 AWG 0,7-2,4 mm	SOEV 2.4	38	3,6	26	0,7	2,4	100	
14-12 AWG 2,0-4,0 mm	SOEV 4.0	38	5,0	26	2,0	4,0	100	
12-8 AWG 3,5-8,0 mm	SOEV 9.0	45	7,5	30	3,5	8,0	100	
8-6 AWG 7,5-12,0 mm	SOEV 15.0	45	9,4	30	7,5	12,0	100	

Waterproof - Gel-filled splice connectors



- Silicone gel is also RoHS compliant
- Material: Brass, tin plated
- Insulation: See dimensions table
- Operating temperature: -30 ~ 70 °C
- Max. temperature: 100 °C
- Waterproof: At 0~95% humidity
- Electrical current: Suitable for 2,5~7,5V AC or DC
- Quality assurance: EU approved

Wire range	Part nr.	Description	W	L	H1	H2	Packed	UL
26~21 AWG 0,4~0,7 mm ²	CL 510216	 Polycarbonate two-wire connector for solid copper cable, max. outer Ø 1,52 mm	8,6	12,0	5,9	8,0	100	
26~19 AWG 0,4~0,9 mm ²	CL 510217	 Polypropylene two-wire connector for solid copper cable, max. outer Ø 2,08 mm	9,8	15,3	5,8	8,4	100	
26~19 AWG 0,4~0,9 mm ²	CL 510218	 Polypropylene two- or three-wire connector for solid copper, air core or filled cable, max outer Ø 2,08 mm	12,3	17,2	5,8	8,2	100	
26~19 AWG 0,4~0,9 mm ²	CL 510219	 Polycarbonate two-wire connector for solid copper, air core or filled cable, max. outer Ø 1,67 mm	12,0	12,8	6,0	8,4	100	
22~14 AWG 0,3~2,0 mm ²	CL 510220	 Nylon two- or three-wire connector for solid copper cable, max. outer Ø 4,0 mm	23,5	24,5	10,4	17,0	20	
24~19 AWG 0,5~0,9 mm ²	CL 510221	 Polycarbonate four-wire (1 full pair) inline connector for solid copper cable, max. outer Ø 3,18 mm	16,4	50,7	9,7	13,0	10	



CL 510216



CL 510217



CL 510218



CL 510219



CL 510220



CL 510221



Plugs & Sockets

Lighting

Battery

Hose Clamps

Screws, Bolts & Nuts

Wire & Cable

Bundling & Protection

EV Products

Insulated Terminals

Non-insulated Terminals

GC tube	178
GT tube	180
DIN 46234	182
Butt connectors	184
Parallel connectors	185
Open barrel strip	187
Open barrel loose piece	188
Quick connectors	190

Cord End Terminals

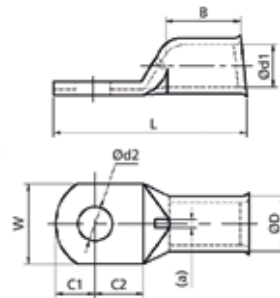
Housing

Fuses & Fuse Holders

Relays, Switches,
Pilot Lights & Buzzers

Tools & Assortment Kits

Non-insulated GC tube terminals (with bell mouth)



- With bell mouth and inspection hole
- Max. temperature: 231 °C

Wire size	Part nr.	Ød2 ± 0,2	W ± 0,6-1,0	C1 ± 0,6-0,8	C2 ± 1,5	L ± 0,8-1,0	B ± 0,8-1,0	ØD ± 0,2-0,5	Ød1 ± 0,2-0,5	(a)	Packed	UL
22 - 16 AWG 0,5 - 1,5 mm ²	GC 1.5-3*	3,2	8,0	3,5	4,5	16,0	6,0	3,7	1,8	1,2	100	✓
	GC 1.5-4*	4,3	8,0	4,0	5,0	17,0	6,0	3,7	1,8	1,2	100	✓
	GC 1.5-5*	5,3	10,0	4,5	5,5	19,0	7,0	3,7	1,8	1,2	100	✓
	GC 1.5-6*	6,5	10,0	5,2	5,8	20,0	7,0	3,7	1,8	1,2	100	✓
16 - 14 AWG 1,5 - 2,5 mm ²	GC 2.5-3*	3,2	8,0	3,5	4,5	17,0	7,0	3,9	2,3	1,2	100	✓
	GC 2.5-4*	4,3	8,0	4,0	5,0	18,0	7,0	3,9	2,3	1,2	100	✓
	GC 2.5-5*	5,3	10,0	5,0	6,0	20,0	7,0	3,9	2,3	1,2	100	✓
	GC 2.5-6*	6,5	10,0	5,2	5,8	20,0	7,0	3,9	2,3	1,2	100	✓
	GC 2.5-8*	8,3	12,5	6,2	6,8	22,5	7,5	4,3	2,3	1,2	100	✓
12 AWG 4,0 mm ²	GC 4-4*	4,3	10,0	5,0	6,0	21,0	8,0	4,7	3,0	1,2	100	✓
	GC 4-5*	5,3	10,0	5,5	6,5	22,0	8,0	4,7	3,0	1,2	100	✓
	GC 4-6*	6,5	10,0	6,0	7,0	23,0	8,0	4,7	3,0	1,2	100	✓
	GC 4-8*	8,3	12,5	6,5	7,5	24,0	8,0	4,7	3,0	1,2	100	✓
10 AWG 6,0 mm ²	GC 6-4*	4,3	10,0	5,5	6,6	24,6	9,5	5,9	4,0	1,5	100	✓
	GC 6-5*	5,3	10,0	5,5	6,6	24,6	9,5	5,9	4,0	1,5	100	✓
	GC 6-6*	6,5	11,0	5,5	6,6	24,6	9,5	5,9	4,0	1,5	100	✓
	GC 6-8*	8,3	12,5	6,9	7,9	27,3	9,5	5,9	4,0	1,5	100	✓
	GC 6-10*	10,3	15,0	7,4	8,4	28,3	9,5	6,2	4,0	1,5	100	✓
8 AWG 10,0 mm ²	GC 10-4	4,3	11,0	6,5	7,5	30,0	13,0	6,6	4,5	1,5	100	✓
	GC 10-5	5,3	11,0	6,5	7,5	30,0	13,0	6,6	4,5	1,5	100	✓
	GC 10-6	6,5	11,0	6,5	7,5	30,0	13,0	6,6	4,5	1,5	100	✓
	GC 10-8	8,3	12,5	6,5	7,5	30,0	13,0	6,6	4,5	1,5	100	✓
	GC 10-10	10,3	16,0	8,5	9,6	34,1	13,0	6,9	4,5	1,5	100	✓
6 AWG 16,0 mm ²	GC 10-12	12,7	18,0	9,0	10,1	34,1	12,0	6,9	4,5	1,5	100	✓
	GC 16-5	5,3	11,0	6,0	7,2	30,7	14,0	7,5	5,5	1,8	100	✓
	GC 16-6	6,5	11,0	6,0	7,2	30,7	14,0	7,5	5,5	1,8	100	✓
	GC 16-8	8,3	12,5	6,5	7,7	30,7	13,0	7,5	5,5	1,8	100	✓
	GC 16-10	10,3	16,0	8,5	9,4	35,9	14,0	7,5	5,5	1,8	100	✓
4 AWG 25,0 mm ²	GC 16-12	12,7	18,0	9,0	9,9	35,9	13,0	8,1	5,5	1,8	100	✓
	GC 25-5	5,3	13,0	7,0	8,2	32,2	13,0	9,1	6,7	2,0	100	✓
	GC 25-6	6,5	13,0	7,0	8,2	32,2	13,0	9,1	6,7	2,0	100	✓
	GC 25-8	8,3	13,0	7,0	8,2	32,2	13,0	9,1	6,7	2,0	100	✓
	GC 25-10	10,3	16,0	9,0	9,9	36,9	14,0	9,1	6,7	2,0	100	✓
2 AWG 35,0 mm ²	GC 25-12	12,7	18,0	9,4	10,5	36,9	13,0	9,1	6,7	2,0	100	✓
	GC 25-14	14,8	20,0	10,4	11,5	38,9	13,0	9,1	6,7	2,0	100	✓
	GC 35-5	5,3	16,0	7,5	8,6	37,6	16,0	11,0	8,6	2,3	100	✓
	GC 35-6	6,5	16,0	7,5	8,6	37,6	16,0	11,0	8,6	2,3	100	✓
	GC 35-8	8,3	16,0	7,5	8,6	37,6	16,0	11,0	8,6	2,3	100	✓
	GC 35-10	10,3	17,0	9,5	10,5	41,5	16,0	11,0	8,6	2,3	100	✓
	GC 35-12	12,7	18,0	9,5	10,5	41,5	16,0	11,0	8,6	2,3	100	✓
	GC 35-14	14,8	20,0	10,5	11,5	43,5	16,0	11,0	8,6	2,3	100	✓

* Because of their small size, items 1,5-6 mm² can only be produced with straight barrel

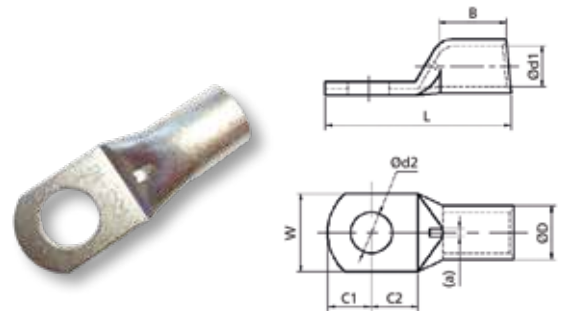
Wire size	Part nr.	Ød2 ± 0,2	W ± 0,6-1,0	C1 ± 0,6-0,8	C2 ± 1,5	L ± 0,8-1,0	B ± 0,8-1,0	ØD ± 0,2-0,5	Ød1 ± 0,2-0,5	(a)	Packed	UL
1/0 AWG 50,0 mm ²	GC 50-5	5,3	18,0	8,5	9,5	41,0	17,0	12,4	9,5	2,5	100	✓
	GC 50-6	6,5	18,0	8,5	9,5	41,0	17,0	12,4	9,5	2,5	100	✓
	GC 50-8	8,3	18,0	8,5	9,5	41,0	17,0	12,4	9,5	2,5	100	✓
	GC 50-10	10,3	18,0	10,0	11,0	44,0	17,0	12,4	9,5	2,5	100	✓
	GC 50-12	12,7	19,0	10,0	11,0	44,0	17,0	12,4	9,5	2,5	100	✓
	GC 50-14	14,8	21,0	13,4	14,4	52,8	19,0	12,4	9,5	2,5	100	✓
	GC 50-16	16,5	23,0	13,4	14,4	52,8	19,0	12,4	9,5	2,5	100	✓
2/0 AWG 70,0 mm ²	GC 70-5	5,3	22,5	10,5	11,4	52,4	21,5	15,0	12,0	3,0	50	✓
	GC 70-6	6,5	22,0	10,5	11,4	52,4	21,5	15,0	12,0	3,0	50	✓
	GC 70-8	8,3	22,0	10,5	11,4	52,4	21,5	15,0	12,0	3,0	50	✓
	GC 70-10	10,3	22,0	10,5	11,4	52,4	21,5	15,0	12,0	3,0	50	✓
	GC 70-12	12,7	22,0	10,5	11,4	52,4	21,5	15,0	12,0	3,0	50	✓
	GC 70-14	14,8	22,0	12,3	12,2	55,0	21,5	15,0	12,0	3,0	50	✓
	GC 70-16	16,5	24,0	12,5	13,5	55,0	20,0	15,0	12,0	3,0	50	✓
3/0 AWG 95,0 mm ²	GC 95-6	6,3	25,0	11,0	12,2	54,7	22,5	17,0	13,4	3,0	50	✓
	GC 95-8	8,3	25,0	11,0	12,2	54,7	22,5	17,0	13,4	3,0	50	✓
	GC 95-10	10,3	25,0	11,0	12,2	54,7	22,5	17,0	13,4	3,0	50	✓
	GC 95-12	12,7	25,0	11,0	12,2	54,7	22,5	17,0	13,4	3,0	50	✓
	GC 95-14	14,8	25,0	12,9	13,9	58,3	22,5	17,0	13,4	3,0	50	✓
	GC 95-16	16,5	25,0	12,9	13,9	58,3	22,5	17,0	13,4	3,0	50	✓
	GC 120-8	8,3	27,5	12,5	13,5	60,0	23,0	19,0	15,0	3,0	30	✓
4/0 AWG 120,0 mm ²	GC 120-10	10,3	27,5	12,5	13,5	60,0	23,0	19,0	15,0	3,0	30	✓
	GC 120-12	12,7	27,5	12,5	13,5	60,0	23,0	19,0	15,0	3,0	30	✓
	GC 120-14	14,8	27,5	14,5	15,5	64,0	23,0	19,0	15,0	3,0	30	✓
	GC 120-16	16,5	27,5	14,5	15,5	64,0	23,0	19,0	15,0	3,0	30	✓
	GC 150-8	8,3	30,5	14,0	15,0	67,0	27,0	21,2	16,5	3,5	10	✓
250/300 kcmil 150,0 mm ²	GC 150-10	10,3	30,5	14,0	15,0	67,0	27,0	21,2	16,5	3,5	10	✓
	GC 150-12	12,7	30,5	14,0	15,0	67,0	27,0	21,2	16,5	3,5	10	✓
	GC 150-14	14,8	30,5	14,0	15,0	67,0	27,0	21,2	16,5	3,5	10	✓
	GC 150-16	16,5	30,5	16,2	17,2	71,4	27,0	21,2	16,5	3,5	10	✓
	GC 150-20	20,9	30,5	16,2	17,2	71,4	27,0	21,2	16,5	3,5	10	✓
300/350 kcmil 185,0 mm ²	GC 185-10	10,3	34,0	15,0	16,0	73,0	30,0	23,0	19,0	4,0	4	✓
	GC 185-12	12,7	34,0	15,0	16,0	73,0	30,0	23,0	19,0	4,0	4	✓
	GC 185-14	14,8	34,0	15,0	16,0	73,0	30,0	23,0	19,0	4,0	4	✓
	GC 185-16	16,5	34,0	16,5	17,7	76,2	30,0	23,0	19,0	4,0	4	✓
	GC 185-20	20,9	34,0	16,5	17,7	76,2	30,0	23,0	19,0	4,0	4	✓
400/450 kcmil 240,0 mm ²	GC 240-10	10,3	38,6	18,2	19,2	91,4	38,0	26,5	21,0	4,5	5	✓
	GC 240-12	12,7	38,6	18,2	19,2	91,4	38,0	26,5	21,0	4,5	5	✓
	GC 240-14	14,8	38,6	18,2	19,2	91,4	38,0	26,5	21,0	4,5	5	✓
	GC 240-16	16,5	38,6	18,2	19,2	91,4	38,0	26,5	21,0	4,5	5	✓
	GC 240-20	20,9	38,6	18,2	19,2	91,4	38,0	26,5	21,0	4,5	5	✓
300,0 mm ²	GC 300-10	10,3	43,8	19,5	20,5	98,0	42,0	30,0	24,5	5,0	6	✓
	GC 300-12	12,7	43,8	19,5	20,5	98,0	42,0	30,0	24,5	5,0	6	✓
	GC 300-14	14,8	43,8	19,5	20,5	98,0	42,0	30,0	24,5	5,0	6	✓
	GC 300-16	16,5	43,8	19,5	20,5	98,0	42,0	30,0	24,5	5,0	6	✓
	GC 300-20	20,9	43,8	19,5	20,5	98,0	42,0	30,0	24,5	5,0	6	✓
400,0 mm ²	GC 400-12	12,7	50,0	20,5	21,5	104,0	44,0	35,0	27,0	5,5	1	✓
	GC 400-14	14,8	50,0	20,5	21,5	104,0	44,0	35,0	27,0	5,5	1	✓
	GC 400-16	16,5	50,0	20,5	21,5	104,0	44,0	35,0	27,0	5,5	1	✓
	GC 400-20	20,9	50,0	20,5	21,5	104,0	44,0	35,0	27,0	5,5	1	✓

NON-INSULATED
TERMINALS

Non-insulated GT tube terminals



- With inspection hole
- Max. temperature: 231 °C



Wire size	Part nr.	Ød2 ± 0,2	W ± 0,6-1,0	C1 ± 0,6-1,0	C2 ± 1,5	L ± 0,8-1,0	B ± 0,8-1,0	ØD ± 0,2-0,5	Ød1 ± 0,2-0,5	(a)	Packed	UL
22 - 16 AWG 0,5 - 1,5 mm ²	GT 1.5-3	3,2	8,7	4,3	5,7	19,0	7,0	4,0	2,4	-	100	
	GT 1.5-4	4,3	8,7	4,3	5,7	19,0	7,0	4,0	2,4	-	100	
	GT 1.5-5	5,3	8,7	4,5	5,5	19,0	7,0	4,0	2,4	-	100	
	GT 1.5-6	6,4	10,0	5,1	5,9	20,0	7,0	4,0	2,4	-	100	
16 - 14 AWG 1,5 - 2,5 mm ²	GT 2.5-4	4,3	8,7	4,3	5,7	19,0	7,0	4,3	2,7	-	100	
	GT 2.5-5	5,3	8,7	4,6	5,4	19,0	7,0	4,3	2,7	-	100	
	GT 2.5-6	6,4	10,3	5,2	6,8	21,0	7,0	4,3	2,7	-	100	
	GT 2.5-8	8,3	12,0	6,2	7,8	23,0	7,0	4,3	2,7	-	100	
12 AWG 4,0 mm ²	GT 4-4	4,3	8,7	4,3	5,7	21,5	9,5	4,8	3,1	-	100	
	GT 4-5	5,3	8,7	4,6	5,4	21,5	9,5	4,8	3,1	-	100	
	GT 4-6	6,4	10,3	5,2	6,8	23,5	9,5	4,8	3,1	-	100	
	GT 4-8	8,3	12,5	7,0	10,0	28,5	9,5	4,8	3,1	-	100	
10 AWG 6,0 mm ²	GT 6-4	4,3	10,3	5,5	7,8	26,0	10,0	5,5	3,8	-	100	
	GT 6-5	5,3	10,3	5,5	7,8	26,0	10,0	5,5	3,8	-	100	
	GT 6-6	6,4	10,3	5,5	7,8	26,0	10,0	5,5	3,8	-	100	
	GT 6-8	8,3	13,9	7,0	9,0	29,0	10,0	5,5	3,8	-	100	
	GT 6-10	10,5	13,9	7,2	8,8	29,0	10,0	5,5	3,8	-	100	
8 AWG 10,0 mm ²	GT 10-4	4,3	11,9	5,5	7,0	27,5	11,5	6,9	4,7	2,0	100	
	GT 10-5	5,3	11,9	5,5	7,0	27,5	11,5	6,9	4,7	2,0	100	
	GT 10-6	6,4	11,9	5,5	7,0	27,5	11,5	6,9	4,7	2,0	100	
	GT 10-8	8,3	13,5	6,8	8,7	30,5	11,5	6,9	4,7	2,0	100	
	GT 10-10	10,5	15,0	7,2	8,3	30,5	11,5	6,9	4,7	2,0	100	
	GT 10-12	13,2	17,0	8,8	10,2	34,0	11,5	6,9	4,7	2,0	100	
6 AWG 16,0 mm ²	GT 16-5	5,3	11,9	5,5	6,0	27,5	12,0	7,8	5,6	2,0	100	
	GT 16-6	6,4	11,9	5,5	6,0	27,5	12,0	7,8	5,6	2,0	100	
	GT 16-8	8,3	13,5	6,8	8,2	31,0	12,0	7,8	5,6	2,0	100	
	GT 16-10	10,5	16,0	7,5	8,5	32,0	12,0	7,8	5,6	2,0	100	
	GT 16-12	13,2	17,0	10,0	11,5	37,5	12,0	7,8	5,6	2,0	100	
4 AWG 25,0 mm ²	GT 25-5	5,3	14,0	6,8	9,2	34,0	13,5	9,5	7,1	2,0	50	
	GT 25-6	6,4	14,0	6,8	9,2	34,0	13,5	9,5	7,1	2,0	50	
	GT 25-8	8,3	14,0	6,8	9,2	34,0	13,5	9,5	7,1	2,0	50	
	GT 25-10	10,5	16,0	8,5	10,5	37,0	13,5	9,5	7,1	2,0	50	
	GT 25-12	13,2	18,0	10,0	12,0	40,0	13,5	9,5	7,1	2,0	50	
	GT 25-14	14,5	20,0	10,0	12,0	40,0	13,5	9,5	7,1	2,0	50	
2 AWG 35,0 mm ²	GT 35-6	6,4	16,5	8,3	9,7	39,0	16,0	11,0	8,2	2,0	50	
	GT 35-8	8,3	16,5	8,3	9,7	39,0	16,0	11,0	8,2	2,0	50	
	GT 35-10	10,5	16,5	10,0	12,0	43,0	16,0	11,0	8,2	2,0	50	
	GT 35-12	13,2	18,0	10,0	12,0	43,0	16,0	11,0	8,2	2,0	50	
	GT 35-14	14,5	20,0	12,0	15,0	48,0	16,0	11,0	8,2	2,0	50	
	GT 35-16	16,5	23,0	12,0	15,0	48,0	16,0	11,0	8,2	2,0	50	
1 AWG 40,0 mm ²	GT 40-6	6,4	16,3	10,0	12,0	44,0	17,0	11,2	9,0	2,5	20	
	GT 40-8	8,3	16,3	10,0	12,0	44,0	17,0	11,2	9,0	2,5	20	
	GT 40-10	10,5	16,3	10,0	12,0	44,0	17,0	11,2	9,0	2,5	20	
	GT 40-12	13,2	18,0	10,0	12,0	44,0	17,0	11,2	9,0	2,5	20	

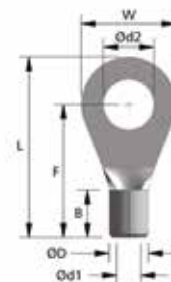
Wire size	Part nr.	Ød2 ± 0,2	W ± 0,6-1,0	C1 ± 0,6-1,0	C2 ± 1,5	L ± 0,8-1,0	B ± 0,8-1,0	ØD ± 0,2-0,5	Ød1 ± 0,2-0,5	(a)	Packed	UL
1/0 AWG 50,0 mm ²	GT 50-6	6,4	18,0	8,3	9,7	45,0	20,0	12,5	9,5	3,0	20	
	GT 50-8	8,3	18,0	8,3	9,7	45,0	20,0	12,5	9,5	3,0	20	
	GT 50-10	10,5	18,0	10,0	12,0	49,0	20,0	12,5	9,5	3,0	20	
	GT 50-12	13,2	18,0	10,0	12,0	49,0	20,0	12,5	9,5	3,0	20	
	GT 50-14	14,5	22,0	12,0	15,0	54,0	20,0	12,5	9,5	3,0	20	
	GT 50-16	16,5	25,0	15,5	16,5	62,0	20,0	14,0	9,5	3,0	20	
	GT 50-20	21,0	28,0	19,0	19,0	68,0	20,0	14,0	9,5	3,0	20	
2/0 AWG 70,0 mm ²	GT 70-8	8,3	21,5	8,3	9,7	47,6	20,0	15,0	11,5	4,0	20	
	GT 70-10	10,5	21,5	10,0	12,0	51,6	20,0	15,0	11,5	4,0	20	
	GT 70-12	13,2	21,5	10,5	11,5	51,6	20,0	15,0	11,5	4,0	20	
	GT 70-14	14,5	21,5	15,5	17,5	62,6	20,0	15,0	11,5	4,0	20	
	GT 70-16	16,5	21,5	15,5	17,5	62,6	20,0	15,0	11,5	4,0	20	
	GT 70-20	21,0	30,0	15,5	17,5	62,6	20,0	15,0	11,5	4,0	20	
3/0 AWG 95,0 mm ²	GT 95-8	8,3	24,7	10,0	11,8	55,8	22,0	17,0	13,5	5,3	20	
	GT 95-10	10,5	24,7	10,0	11,8	55,8	22,0	17,0	13,5	5,3	20	
	GT 95-12	13,2	24,7	10,5	11,3	55,8	22,0	17,0	13,5	5,3	20	
	GT 95-14	14,5	24,7	15,8	17,0	66,8	22,0	17,0	13,5	5,3	20	
	GT 95-16	16,5	24,7	15,8	17,0	66,8	22,0	17,0	13,5	5,3	20	
	GT 95-20	21,0	30,0	16,1	16,7	66,8	22,0	17,0	13,5	5,3	20	
4/0 AWG 120,0 mm ²	GT 120-8	8,3	29,0	15,8	16,7	71,5	27,0	20,0	15,6	5,3	10	
	GT 120-10	10,5	29,0	15,8	16,7	71,5	27,0	20,0	15,6	5,3	10	
	GT 120-12	13,2	29,0	15,8	16,7	71,5	27,0	20,0	15,6	5,3	10	
	GT 120-14	14,5	29,0	15,8	16,7	71,5	27,0	20,0	15,6	5,3	10	
	GT 120-16	16,5	29,0	15,8	16,7	71,5	27,0	20,0	15,6	5,3	10	
	GT 120-20	21,0	29,0	15,8	16,7	71,5	27,0	20,0	15,6	5,3	10	
250/300 kcmil 150,0 mm ²	GT 150-8	8,3	30,4	16,0	17,0	78,0	32,0	21,0	16,5	5,3	10	
	GT 150-10	10,5	30,4	16,0	17,0	78,0	32,0	21,0	16,5	5,3	10	
	GT 150-12	13,2	30,4	16,0	17,0	78,0	32,0	21,0	16,5	5,3	10	
	GT 150-14	14,5	30,4	16,0	17,0	78,0	32,0	21,0	16,5	5,3	10	
	GT 150-16	16,5	30,4	16,0	17,0	78,0	32,0	21,0	16,5	5,3	10	
	GT 150-20	21,0	30,4	16,0	17,0	78,0	32,0	21,0	16,5	5,3	10	
300/350 kcmil 185,0 mm ²	GT 185-10	10,5	34,0	17,0	18,0	84,0	34,0	23,6	18,4	7,0	10	
	GT 185-12	13,2	34,0	17,0	18,0	84,0	34,0	23,6	18,4	7,0	10	
	GT 185-14	14,5	34,0	17,0	18,0	84,0	34,0	23,6	18,4	7,0	10	
	GT 185-16	16,5	34,0	17,0	18,0	84,0	34,0	23,6	18,4	7,0	10	
	GT 185-20	21,0	34,0	17,0	18,0	84,0	34,0	23,6	18,4	7,0	10	
400/450 kcmil 240,0 mm ²	GT 240-10	10,5	38,5	17,0	18,0	90,0	37,0	26,4	21,2	7,0	5	
	GT 240-12	13,2	38,5	17,0	18,0	90,0	37,0	26,4	21,2	7,0	5	
	GT 240-14	14,5	38,5	17,0	18,0	90,0	37,0	26,4	21,2	7,0	5	
	GT 240-16	16,5	38,5	17,0	18,0	90,0	37,0	26,4	21,2	7,0	5	
	GT 240-18	19,0	38,5	17,0	18,0	90,0	37,0	26,4	21,2	7,0	5	
	GT 240-20	21,0	38,5	16,9	18,1	90,0	37,0	26,4	21,2	7,0	5	
300,0 mm ²	GT 300-10	10,5	41,7	17,5	18,5	96,0	40,0	28,6	23,4	7,0	1	
	GT 300-12	13,2	41,7	17,5	18,5	96,0	40,0	28,6	23,4	7,0	1	
	GT 300-14	14,5	41,7	17,5	18,5	96,0	40,0	28,6	23,4	7,0	1	
	GT 300-16	16,5	41,7	17,5	18,5	96,0	40,0	28,6	23,4	7,0	1	
	GT 300-20	21,0	41,7	17,5	18,5	96,0	40,0	28,6	23,4	7,0	1	
400,0 mm ²	GT 400-10	10,5	47,8	22,8	23,9	104,7	37,0	32,8	26,8	7,0	1	
	GT 400-12	13,2	47,8	22,8	23,9	104,7	37,0	32,8	26,8	9,0	1	
	GT 400-14	14,5	47,8	22,8	23,9	104,7	37,0	32,8	26,8	9,0	1	
	GT 400-18	18,5	47,8	22,8	23,9	104,7	37,0	32,8	26,8	9,0	1	
	GT 400-20	21,0	47,8	22,8	23,9	104,7	37,0	32,8	26,8	9,0	1	

NON-INSULATED
TERMINALS

Non-insulated DIN 46234 Brazed Seam terminals



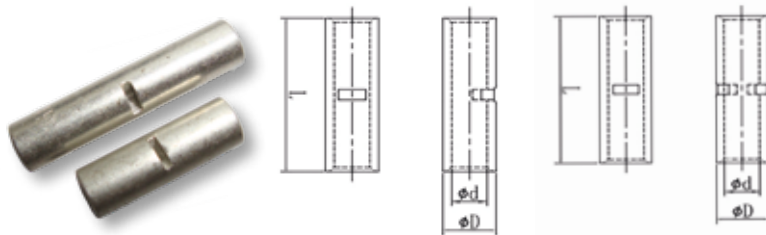
- Brazed seam



Wire size	Part nr.	Ød2	W	F	L	B	ØD	Ød1	Packed	UL
26 - 22 AWG 0,1 - 0,5 mm²	DIN 2-0.5B	2,2	5,0	10,0	12,5	4,0	2,2	1,0	1000	✓
	DIN 2.5-0.5B	2,7	5,0	10,0	12,5	4,0	2,2	1,0	1000	✓
	DIN 3-0.5B	3,2	5,0	10,0	12,5	4,0	2,2	1,0	1000	✓
	DIN 3.5-0.5B	3,7	6,0	12,0	15,0	4,0	2,2	1,0	1000	✓
	DIN 4-0.5B	4,3	6,5	12,0	15,2	4,0	2,2	1,0	1000	✓
	DIN 5-0.5B	5,3	8,0	12,0	16,0	4,0	2,2	1,0	1000	✓
22 - 16 AWG 0,5 - 1,5 mm²	DIN 2.5-1B	2,7	6,0	11,0	14,0	5,0	3,5	1,6	1000	✓
	DIN 3-1B	3,2	6,0	11,0	14,0	5,0	3,5	1,6	1000	✓
	DIN 3.5-1B	3,7	6,0	11,0	14,0	5,0	3,5	1,6	1000	✓
	DIN 4-1B	4,3	8,0	12,0	16,0	5,0	3,5	1,6	1000	✓
	DIN 5-1B	5,3	10,0	13,0	18,0	5,0	3,5	1,6	1000	✓
	DIN 6-1B	6,5	11,0	15,0	20,5	5,0	3,5	1,6	1000	✓
	DIN 8-1B	8,4	14,0	16,0	23,0	5,0	3,5	1,6	1000	✓
	DIN 10-1B	10,5	18,0	18,0	27,0	5,0	3,5	1,6	1000	✓
16 - 14 AWG 1,5 - 2,5 mm²	DIN 3-2.5B	3,2	6,0	11,0	14,0	5,0	4,1	2,3	1000	✓
	DIN 3.5-2.5B	3,7	6,0	11,0	14,0	5,0	4,1	2,3	1000	✓
	DIN 4-2.5B	4,3	8,0	12,0	16,0	5,0	4,1	2,3	1000	✓
	DIN 5-2.5B	5,3	10,0	14,0	19,0	5,0	4,1	2,3	1000	✓
	DIN 6-2.5B	6,5	11,0	16,0	21,5	5,0	4,1	2,3	1000	✓
	DIN 8-2.5B	8,4	14,0	17,0	24,0	5,0	4,1	2,3	1000	✓
	DIN 10-2.5B	10,5	18,0	18,0	27,0	5,0	4,1	2,3	1000	✓
	DIN 12-2.5B	13,0	19,2	16,0	30,6	5,0	4,1	2,3	1000	✓
12 - 10 AWG 4,0 - 6,0 mm²	DIN 4-6B	4,3	8,0	14,0	18,0	6,0	5,8	3,6	1000	✓
	DIN 5-6B	5,3	10,0	15,0	20,0	6,0	5,8	3,6	1000	✓
	DIN 6-6B	6,5	11,0	16,0	21,5	6,0	5,8	3,6	1000	✓
	DIN 8-6B	8,4	14,0	19,0	26,0	6,0	5,8	3,6	1000	✓
	DIN 10-6B	10,5	18,0	21,0	30,0	6,0	5,8	3,6	1000	✓
	DIN 12-6B	13,0	19,0	26,5	36,0	6,0	5,8	3,6	1000	✓
8 AWG 10,0 mm²	DIN 4-10B	4,3	10,0	16,0	21,0	8,0	7,0	4,5	100	✓
	DIN 5-10B	5,3	10,0	16,0	21,0	8,0	7,0	4,5	100	✓
	DIN 6-10B	6,5	11,0	17,0	22,5	8,0	7,0	4,5	100	✓
	DIN 8-10B	8,4	14,0	20,0	27,0	8,0	7,0	4,5	100	✓
	DIN 10-10B	10,5	18,0	21,0	30,0	8,0	7,0	4,5	100	✓
	DIN 12-10B	13,0	22,0	23,0	34,0	8,0	7,0	4,5	100	✓
6 AWG 16,0 mm²	DIN 5-16B	5,3	11,0	20,0	25,5	10,0	8,5	5,8	100	✓
	DIN 6-16B	6,5	11,0	20,0	25,5	10,0	8,5	5,8	100	✓
	DIN 8-16B	8,4	14,0	22,0	29,0	10,0	8,5	5,8	100	✓
	DIN 10-16B	10,5	18,0	24,0	33,0	10,0	8,5	5,8	100	✓
	DIN 12-16B	13,0	22,0	26,0	37,0	10,0	8,5	5,8	100	✓
4 AWG 25,0 mm²	DIN 5-25B	5,3	12,0	25,0	31,0	11,0	10,8	7,5	100	✓
	DIN 6-25B	6,5	12,0	25,0	31,0	11,0	10,8	7,5	100	✓
	DIN 8-25B	8,4	16,0	25,0	33,0	11,0	10,8	7,5	100	✓
	DIN 10-25B	10,5	18,0	26,0	35,0	11,0	10,8	7,5	100	✓
	DIN 12-25B	13,0	22,0	31,0	42,0	11,0	10,8	7,5	100	✓
	DIN 16-25B	17,0	28,0	35,0	49,0	11,0	10,8	7,5	100	✓

Wire size	Part nr.	Ød2	W	F	L	B	ØD	Ød1	Packed	UL
2 AWG 35,0 mm ²	DIN 6-35B	6,5	15,0	26,0	33,5	12,0	12,6	9,0	50	✓
	DIN 8-35B	8,4	16,0	26,0	34,0	12,0	12,6	9,0	50	✓
	DIN 10-35B	10,5	18,0	27,0	36,0	12,0	12,6	9,0	50	✓
	DIN 12-35B	13,0	22,0	31,0	42,0	12,0	12,6	9,0	200	✓
	DIN 16-35B	17,0	28,0	36,0	50,0	12,0	12,6	9,0	50	✓
1/0 AWG 50,0 mm ²	DIN 6-50B	6,5	18,0	34,0	43,0	16,0	15,0	11,0	50	✓
	DIN 8-50B	8,4	18,0	34,0	43,0	16,0	15,0	11,0	50	✓
	DIN 10-50B	10,5	18,0	34,0	43,0	16,0	15,0	11,0	50	✓
	DIN 12-50B	13,0	22,0	36,0	47,0	16,0	15,0	11,0	50	✓
	DIN 16-50B	17,0	28,0	40,0	54,0	16,0	15,0	11,0	50	✓
2/0 AWG 70,0 mm ²	DIN 6-70B	6,5	22,0	38,0	49,0	18,0	17,5	13,0	50	✓
	DIN 8-70B	8,4	22,0	38,0	49,0	18,0	17,5	13,0	50	✓
	DIN 10-70B	10,5	22,0	38,0	49,0	18,0	17,5	13,0	50	✓
	DIN 12-70B	13,0	22,0	38,0	49,0	18,0	17,5	13,0	50	✓
	DIN 16-70B	17,0	28,0	42,0	56,0	18,0	17,5	13,0	150	✓
3/0 AWG 95,0 mm ²	DIN 8-95B	8,4	24,0	42,0	54,0	20,0	20,5	15,0	50	✓
	DIN 10-95B	10,5	24,0	42,0	54,0	20,0	20,5	15,0	50	✓
	DIN 12-95B	13,0	24,0	42,0	54,0	20,0	20,5	15,0	50	✓
	DIN 16-95B	17,0	28,0	44,0	58,0	20,0	20,5	15,0	50	✓
4/0 AWG 120,0 mm ²	DIN 8-120B	8,4	24,0	44,0	56,0	22,0	23,0	16,5	25	✓
	DIN 10-120B	10,5	24,0	44,0	56,0	22,0	23,0	16,5	25	✓
	DIN 12-120B	13,0	24,0	44,0	56,0	22,0	23,0	16,5	25	✓
	DIN 16-120B	17,0	28,0	48,0	62,0	22,0	23,0	16,5	25	✓
250/300 kcmil 150,0 mm ²	DIN 10-150B	10,5	30,0	50,0	65,0	24,0	26,0	19,0	10	✓
	DIN 12-150B	13,0	30,0	50,0	65,0	24,0	26,0	19,0	10	✓
	DIN 16-150B	17,0	30,0	50,0	65,0	24,0	26,0	19,0	10	✓
300/350 kcmil 185,0 mm ²	DIN 10-185B	10,5	36,0	50,0	68,0	28,0	28,8	21,0	10	✓
	DIN 12-185B	13,0	36,0	50,0	68,0	28,0	28,8	21,0	10	✓
	DIN 16-185B	17,0	36,0	50,0	68,0	28,0	28,8	21,0	10	✓
400 kcmil 240,0 mm ²	DIN 10-240B	10,5	38,0	56,0	75,0	32,0	32,3	23,5	10	✓
	DIN 12-240B	13,0	38,0	56,0	75,0	32,0	32,3	23,5	10	✓
	DIN 16-240B	17,0	38,0	56,0	75,0	32,0	32,3	23,5	10	✓

Non-insulated butt connectors



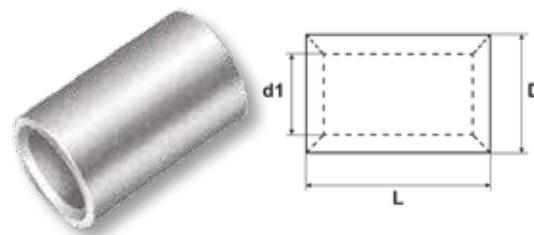
- With inspection hole(s)

Shorter models - Single butt joint						
Wire range	Part nr.	L ± 0,3	ØD ± 0,8	Ød ± 0,3	Packed	UL
22 - 16 AWG 0,5 - 1,5 mm ²	BC 1.25	16,5	3,3	1,9	100	
16 - 14 AWG 1,5 - 2,5 mm ²	BC 2	16,5	4,0	2,6	100	
12 - 10 AWG 4,0 - 6,0 mm ²	BC 5.5	16,5	5,5	3,7	100	
8 AWG 8,0 mm ²	C 8	22,5	7,1	5,1	100	
6 AWG 14,0 mm ²	C 14	27,5	9,0	6,4	100	
4 AWG 22,0 mm ²	C 22	30,5	11,4	8,2	100	

Shorter models - Double butt joint						
Wire range	Part nr.	L ± 0,4-0,5	ØD ± 0,8-1,0	Ød ± 0,4-0,5	Packed	UL
2 AWG 38,0 mm ²	C 38	33,5	13,3	10,1	100	
1/0 AWG 60,0 mm ²	C 60	36,0	15,4	12,0	50	
2/0 AWG 70,0 mm ²	C 70	37,8	17,4	14,0	50	
3/0 AWG 80,0 mm ²	C 80	39,5	19,4	15,4	50	
4/0 AWG 100,0 mm ²	C 100	39,5	22,0	17,6	40	
250/300 kcmil 150,0 mm ²	C 150	55,5	26,0	20,9	5	
300/350 kcmil 180,0 mm ²	C 180	58,5	28,6	22,0	4	
400 kcmil 200,0 mm ²	C 200	64,5	32,5	25,7	5	
400/450 kcmil 250,0 mm ²	C 250	64,5	32,5	25,7	5	
325,0 mm ²	C 325	73,5	37,0	29,0	5	

Longer models						
Wire range	Part nr.	L ± 0,3-0,5	ØD ± 0,8-1,0	Ød ± 0,3-0,5	Packed	UL
22 - 16 AWG 0,5 - 1,5 mm ²	GT 1.5	16,5	3,3	1,9	100	
16 - 14 AWG 1,5 - 2,5 mm ²	GT 2.5	22,0	4,0	2,6	100	
12 AWG 4,0 mm ²	GT 4	25,2	4,8	3,2	100	
10 AWG 6,0 mm ²	GT 6	25,2	5,5	3,8	100	
12 - 10 AWG 4,0 - 6,0 mm ²	GT 4/6	25,5	5,2	3,5	100	
8 AWG 10,0 mm ²	GT 10	30,0	6,5	4,5	100	
6 AWG 16,0 mm ²	GT 16	32,5	7,5	5,5	100	
4 AWG 25,0 mm ²	GT 25	35,5	9,5	7,0	100	
2 AWG 35,0 mm ²	GT 35	40,5	11,0	8,5	100	
1/0 AWG 50,0 mm ²	GT 50	40,5	13,0	10,0	25	
2/0 AWG 70,0 mm ²	GT 70	45,5	15,0	11,5	25	
3/0 AWG 95,0 mm ²	GT 95	50,5	18,0	13,5	25	
4/0 AWG 120,0 mm ²	GT 120	65,5	19,5	15,0	25	
250/300 kcmil 150,0 mm ²	GT 150	70,5	22,0	16,5	25	
300/350 kcmil 185,0 mm ²	GT 185	75,5	25,0	19,0	12	
400/450 kcmil 240,0 mm ²	GT 240	80,5	27,5	21,0	6	
300,0 mm ²	GT 300	90,5	30,5	23,5	5	
400,0 mm ²	GT 400	100,0	34,0	27,0	5	

Non-insulated parallel connectors



Wire range	Part nr.	L ± 0,5-0,7	ØD ± 0,2	Ød1 ± 0,3	Packed	UL
22 - 16 AWG 0,5 - 1,5 mm ²	P 1.25-L5.0	5,0	3,3	1,6	1000	
22 - 16 AWG 0,5 - 1,5 mm ²	P 1.25-1.95L5.0	5,0	3,3	1,95	1000	
16 - 14 AWG 1,5 - 2,5 mm ²	DP2N-5	5,0	4,0	2,3	1000	
16 - 14 AWG 1,5 - 2,5 mm ²	P 2	8,0	4,0	2,3	1000	
14 - 12 AWG 2,5 - 4,0 mm ²	P3-5N	4,8	4,2	2,8	1000	
12 - 10 AWG 4,0 - 6,0 mm ²	P 5.5	8,5	5,5	3,6	1000	

Tools for non-insulated tube and brazed seam terminals

Die sets

For quick interchangeable ratchet tools MHQIBE, HJ56I or HJ43I (separately available) **see our Tools & Assortment chapter (page 264-269)**



DSQIB
For non-insulated (brazed seam only) terminals
0,5-10,0 mm²

MHQIBE

8,7" carbon steel ratchet tool
(separately available)



HJ56I

10" carbon steel ratchet tool
(separately available)



HJ43I

8,7" aluminium ratchet tool (separately available)





BN-10
10" Crimping tool for non-insulated (**brazed seam only**) terminals
0,5 - 10,0 mm²



KH-9
9,8" Crimping tool for non-insulated terminals
1,5 - 10,0 mm²



KH-16
10,5" Crimping tool for non-insulated terminals
1,5 - 16,0 mm²



KH-22
14,4" Crimping tool for non-insulated terminals
6,0 - 25,0 mm²



KH-38
14,4" Crimping tool for non-insulated terminals
6,0 - 35,0 mm²



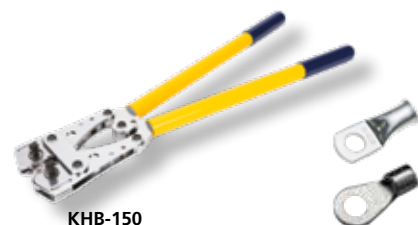
KHB-50
15,3" Crimping tool for non-insulated terminals
6,0 - 50,0 mm²
HEXAGONAL crimp



KH-120
26,2" Crimping tool for non-insulated terminals
16,0 - 120,0 mm²



KHB-120
26" Crimping tool for non-insulated terminals
6,0 - 120,0 mm²
HEXAGONAL crimp



KHB-150
26" Crimping tool for non-insulated terminals
25,0 - 150,0 mm²
HEXAGONAL crimp



KH-507
9,5" Multi-tool for insulated and non-insulated (**brazed seam only**) terminals
0,5 - 6,0 mm²
Bolt cutting
M2,6 / M3 / M3,5 / M4 / M5
Wire stripping
0,75 - 6,0 mm²



MEB-900C
9" Multi-tool for non-insulated (**brazed seam only**) and open barrel terminals
0,5 - 6,0 mm²
Bolt cutting
M2,6 / M3 / M3,5 / M4 / M5
Wire stripping
0,75 - 6,0 mm²

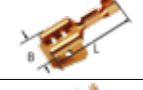
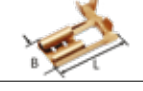
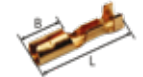


ST062
8,5" Multi-tool for crimping Non-insulated (**brazed seam only**) terminals
0,5 - 2,5 mm²
Open barrel terminals
0,25 - 1,5 mm²
Coaxial cable connectors
6,0 mm
Wire stripping
0,25 - 4,0 mm²

Non-insulated open barrel terminals - Strip



- Max. temperature: Natural 110 °C (ZA)
tin plated 120 °C (TA)

	Wire range	Part nr. natural	Part nr. tin plated	Tabsize mm/Ø	L	B	Dimple/ locking tab	Pcs/roll	DIN/UL
	0,5 - 1,0	01-001-MS-ZA	01-001-MS-TA	6,3x0,8	28,0 ± 0,2	15,8 ± 0,2	dimple hole/ locking tab	6.000	DIN 46345
	1,0 - 2,5	01-002-MS-ZA	01-002-MS-TA					5.000	DIN 46345
	2,5 - 6,0	01-003-MS-ZA	01-003-MS-TA					3.500	✓
	0,5 - 1,0	02-010-MS-ZA	02-010-MS-TA	2,8x0,5	14,4 ± 0,1	3,8 ± 0,1	dimple	15.000	DIN 46247 ✓
		02-011-MS-ZA	02-011-MS-TA	2,8x0,8					
		02-012-MS-ZA	02-012-MS-TA	4,8x0,5	15,5 ± 0,2	5,7 ± 0,2		10.000	
		02-013-MS-ZA	02-013-MS-TA	4,8x0,8				8.000	
	1,0 - 2,5	02-001-MS-ZA	02-001-MS-TA	6,3x0,8	19,0 ± 0,2	7,6 ± 0,2		7.000	
		02-002-MS-ZA	02-002-MS-TA					5.000	
		02-003-MS-ZA	02-003-MS-TA						
	0,5 - 1,0	02-005-MS-ZA	02-005-MS-TA	6,3x0,8	19,0 ± 0,2	7,6 ± 0,2	dimple/ locking tab	8.000	DIN 46340 ✓
	1,0 - 2,5	02-007-MS-ZA	02-007-MS-TA					7.000	
	2,5 - 6,0	02-009-MS-ZA	02-009-MS-TA					4.000	
	0,5 - 1,0	07-001-MS-ZA	07-001-MS-TA	6,3x0,8	20,0 ± 0,3	7,6 ± 0,2	dimple/ dimple hole	1.500	
	0,75 - 2,0	07-002-MS-ZA	07-002-MS-TA		19,3	7,7			
	0,5 - 1,0	10-001-MS-ZA	10-001-MS-TA	6,3x0,8	16,0 ± 0,2	7,6 ± 0,2	dimple	5.000	DIN 43346 ✓
	1,0 - 2,5	10-002-MS-ZA	10-002-MS-TA		15,5 ± 0,2			4.000	
	0,5 - 1,0	03-002-MS-ZA	03-002-MS-TA	Ø 4,3	22,0 ± 0,2	9,5 ± 0,1	-	6.000	✓
		03-003-MS-ZA	03-003-MS-TA	Ø 5,3					✓
		03-004-MS-ZA	03-004-MS-TA	Ø 6,4					✓
	1,0 - 2,5	03-006-MS-ZA	03-006-MS-TA	Ø 4,3					✓
		03-007-MS-ZA	03-007-MS-TA	Ø 5,3					✓
		03-008-MS-ZA	03-008-MS-TA	Ø 6,4					✓
	0,5 - 0,75	09-001-MS-ZA	09-001-MS-TA	-	6,0 ± 0,25	-	-	40.000	
	0,75 - 2,0	09-002-MS-ZA	09-002-MS-TA						
	1,5 - 2,5	05-001-MS-ZA	05-001-MS-TA	Ø 3,5	13,2	7,5	-	7.500	
		05-002-MS-ZA	05-002-MS-TA	Ø 4,0	17,8	9,5			
	1,5 - 2,5	06-001-MS-ZA	06-001-MS-TA	Ø 3,5	17,5	7,1	-	5.000	
		06-002-MS-ZA	06-002-MS-TA	Ø 4,0	17,2	7,0			

NON-INSULATED
TERMINALS

Non-insulated open barrel terminals - Loose piece



- Max. temperature: Natural 110 °C (ZA)
tin plated 120 °C (TA)

	Wire range	Part nr. natural	Part nr. tin plated	Tabsize mm/Ø	L	B	Dimple/ locking tab	Packed	UL			
	0,5 - 1,0	L1800-2097		2,8x0,5	20,7	12,0	dimple hole/ locking tab					
		01-008-ML-ZA	01-008-ML-TA	2,8x0,8	22,5 ± 0,2	12,5 ± 0,2						
		01-006-ML-ZA	01-006-ML-TA	4,8x0,5	21,5 ± 0,2	12,0 ± 0,2						
		01-001-ML-ZA	01-001-ML-TA	6,3x0,8	28,0 ± 0,2	15,8 ± 0,2						
	1,0 - 2,5	01-002-ML-ZA	01-002-ML-TA	6,3x0,8	28,0 ± 0,2	15,8 ± 0,2				DIN 46343 ✓		
	2,5 - 6,0	01-003-ML-ZA	01-003-ML-TA	6,3x0,8	28,0 ± 0,2	15,8 ± 0,2						
	0,5 - 1,0	01-007-ML-ZA	01-007-ML-TA	2,8x0,8	12,6 ± 0,3	5,6 ± 0,2	dimple hole					
		01-004-ML-ZA	01-004-ML-TA	4,8x0,5	17,5 ± 0,2	6,4 ± 0,2			✓			
	0,75 - 2,0	01-005-ML-ZA	01-005-ML-TA							✓		
	0,5 - 1,0	02-010-ML-ZA	02-010-ML-TA	2,8x0,5	14,4 ± 0,8	3,8 ± 0,8	dimple	1.000	DIN 46247 ✓			
		02-011-ML-ZA	02-011-ML-TA	2,8x0,8								
		02-012-ML-ZA	02-012-ML-TA	4,8x0,5	15,5 ± 0,2	5,7 ± 0,2						
		02-013-ML-ZA	02-013-ML-TA	4,8x0,8								
		02-001-ML-ZA*	02-001-ML-TA*	6,3x0,8						19,0 ± 0,2	7,6 ± 0,2	
	1,0 - 2,5	02-014-ML-ZA	02-014-ML-TA	4,8x0,5	15,5 ± 0,2	5,7 ± 0,2						
		02-113-ML-ZA	02-113-ML-TA	4,8x0,8								
		02-002-ML-ZA*	02-002-ML-TA*	6,3x0,8	19,0 ± 0,2	7,6 ± 0,2						
			02-953-ML-TA	9,5x1,2	27,0 ± 0,5	10,8 ± 0,4						
	2,5 - 6,0	02-003-ML-ZA*	02-003-ML-TA*	6,3x0,8	19,0 ± 0,2	7,6 ± 0,2				DIN 46247 ✓		
	0,5 - 1,0	L8240-4050	L8240-4050T	2,8x0,5	15,6 ± 0,3	4,2 ± 0,1	locking tab		DIN 46340 ✓			
		02-285-ML-ZA	02-285-ML-TA	2,8x0,5	14,4 ± 0,1	3,8 ± 0,1						
			02-288-ML-TA	2,8x0,8								
		02-485-ML-ZA	02-485-ML-TA	4,8x0,5	15,6 ± 0,1	5,7 ± 0,2						
			02-488-ML-TA	4,8x0,8								
		02-005-ML-ZA*	02-005-ML-TA*	6,3x0,8	19,0 ± 0,2	7,6 ± 0,2			dimple/ locking tab	DIN 46340 ✓		
	1,0 - 2,5	02-486-ML-ZA	02-486-ML-TA	4,8x0,5	15,6 ± 0,1	5,7 ± 0,2		locking tab		DIN 46340 ✓		
		02-489-ML-ZA	02-489-ML-TA	4,8x0,8								
			02-006-ML-TA	6,3x0,8	19,0 ± 0,2	7,6 ± 0,2		dimple/ locking tab				
		02-007-ML-ZA*	02-007-ML-TA*	6,3x0,8								
		02-107-ML-ZA		8,0x0,8	20,1	8,9	locking tab					
		02-954-ML-ZA	02-954-ML-TA	9,5x1,2	27,5 ± 0,5	10,8 ± 0,1	locking tab					
	2,5 - 6,0	02-009-ML-ZA*	02-009-ML-TA*	6,3x0,8	19,0 ± 0,2	7,6 ± 0,2	dimple/ locking tab		DIN 46340 ✓			

* Pre-rolled

	Wire range	Part nr. natural	Part nr. tin plated	Tabsize mm/Ø	L	B	Dimple/ locking tab	Packed	UL
	1,0 - 2,5	07-001-ML-ZA	07-001-ML-TA	6,3x0,8	20,1	7,5	dimple/ dimple hole	1.000	
	0,75 - 2,0	07-002-ML-ZA	07-002-ML-TA		19,3	7,7			
	0,5 - 1,0	10-001-ML-ZA	10-001-ML-TA	6,3x0,8	16,0 ± 0,2	7,6 ± 0,2	dimple		DIN 43346 ✓
	1,0 - 2,5	10-002-ML-ZA	10-002-ML-TA		15,5 ± 0,2				
				10-004-ML-TA	7,9x0,8	16,5 ± 0,2	9,0 ± 0,2		locking tab
	0,5 - 1,0	03-002-ML-ZA	03-002-ML-TA	Ø 4,3	22,0 ± 0,2	9,5 ± 0,1	-		✓
		03-003-ML-ZA	03-003-ML-TA	Ø 5,3					✓
		03-004-ML-ZA	03-004-ML-TA	Ø 6,4					✓
	0,75 - 2,0	03-001-ML-ZA	03-001-ML-TA	Ø 3,2	20,0 ± 0,2	8,6 ± 0,1			✓
		1,0 - 2,5	03-005-ML-ZA	03-005-ML-TA	Ø 3,2	22,0 ± 0,3			8,0 ± 0,27
	03-006-ML-ZA		03-006-ML-TA	Ø 4,3	22,0 ± 0,2	9,5 ± 0,1		✓	
	03-007-ML-ZA		03-007-ML-TA	Ø 5,3				✓	
	03-008-ML-ZA		03-008-ML-TA	Ø 6,4				✓	
	03-009-ML-ZA		03-009-ML-TA	Ø 8,5	28,0 ± 0,2	14,0 ± 0,1		DIN 46225	
	03-021-ML-ZA		03-021-ML-TA	Ø 9,5				✓	
	1,5 - 2,5	05-001-ML-ZA	05-001-ML-TA	Ø 3,5	13,2	7,5	-		
		05-002-ML-ZA	05-002-ML-TA	Ø 4,0	17,8	9,5			
	1,5 - 2,5	06-001-ML-ZA	06-001-ML-TA	Ø 3,5	17,5	7,1	-		
		06-002-ML-ZA	06-002-ML-TA	Ø 4,0	17,2	7,0			

Tools for open barrel terminals

NON-INSULATED
TERMINALS

BN-02B
10" Crimping tool for
open barrel terminals
0,1 - 1,0 mm²



BN-03B
10" Crimping tool for
open barrel terminals
0,5 - 6,0 mm²
DOUBLE crimp



BN-06FL
10" Crimping tool for open
barrel flag terminals
0,5 - 2,5 mm²



KH-502B
8" Crimping tool for
open barrel terminals
0,5 - 6,0 mm²
Bolt cutting
M2,6 / M3 / M3,5 / M4 / M5
Wire stripping
0,75 - 6,0 mm²



MEB-700C
9" Multi-tool for
non-insulated (**brazed seam
only**) and open barrel terminals
0,5 - 6,0 mm²
Bolt cutting
M2,6 / M3 / M3,5 / M4 / M5
Wire stripping
0,75 - 6,0 mm²



Die sets

For quick interchangeable ratchet tools MHQIBE, HJ56I or HJ43I (separately available) [see our Tools & Assortment chapter \(page 264-269\)](#)



DSQIC
For open barrel terminals
0,5-6,0 mm²



DSQICQ (MIM procedure)
For open barrel terminals
0,5-6,0 mm



DSQIC1
For open barrel terminals
0,1-1,0 mm²



DSQIC3
For open barrel flag terminals
1,5-0,5/2,5-0,5 mm²



DSQIH
For open barrel terminals &
D-Sub, V3.5
2,5/0,5/8,0-10,0 mm²

MHQIBE

8,7" carbon steel ratchet tool
(separately available)

HJ56I

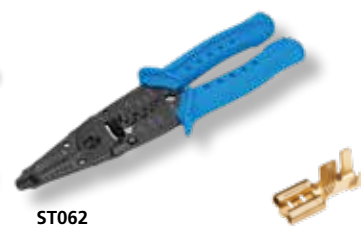
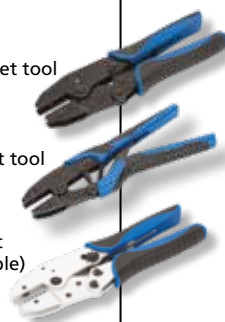
10" carbon steel ratchet tool
(separately available)

HJ43I

8,7" aluminium ratchet
tool (separately available)



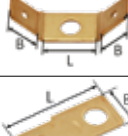
MEB-900C
9" Multi-tool for
non-insulated (**brazed seam
only**) and open barrel terminals
0,5 - 6,0 mm²
Bolt cutting
M2,6 / M3 / M3,5 / M4 / M5
Wire stripping 0,75 - 6,0 mm²



ST062
8,5" Multi-tool for crimping
Non-insulated (**brazed seam only**)
terminals 0,5 - 2,5 mm²
Open barrel terminals 0,25 - 1,5 mm²
Coaxial cable connectors 6,0 mm
Wire stripping 0,25 - 4,0 mm²

Non-insulated quick connectors



	Stud hole	Part nr. natural	Part nr. tin plated	Tabsize	L	B	Dimple/ angle	Packed	UL	
	-	50-001-MB-ZA*	50-001-MB-TA*	6,3 x 0,8	6,6	10,2	dimple holes	1000		
	-	50-002-MB-ZA*	50-002-MB-TA*		21,2 ± 1,0	7,6	dimple holes		✓	
	Ø 2,5		08-101-MB-TA	2,8 x 0,5	≤7,0	6,7 ± 0,5	dimple hole 45°		DIN 46342	✓
	Ø 4,2	08-001-MB-ZA	08-001-MB-TA	6,3 x 0,8	8,5 ± 0,2	10,2 ± 0,2				
	Ø 5,2	08-110-MB-ZA	08-110-MB-TA							
	Ø 4,2	08-100-MB-ZA			9,4	8,0	dimple hole 90°		DIN 46249	
	Ø 5,2	90-011-MB-ZA			8,5 ± 0,2	10,2 ± 0,2				
	Ø 4,2	08-002-MB-ZA	08-002-MB-TA		11,5	10,0	dimple holes 2 x 45°			
	Ø 5,2		08-012-MB-TA							
	Ø 4,2	08-003-MB-ZA			19,0 ± 0,2	8,0 ± 0,2	dimple hole			
	Ø 5,2	08-310-MB-ZA								

* Brass



Cord End Terminals

Single wire insulated	192
Twin wire insulated	196
Single wire non-insulated	197

Housing

Fuses & Fuse Holders

Relays, Switches,
Pilot Lights & Buzzers

Tools & Assortment Kits

PP cord end terminals DIN 46228/4 - Single wire



- Minimum coating thickness: 3 µm
- Compliant to EU directives: 2002/96/EC (WEEE), 2002/95/EC (ROHS) AND 2003/11/CE
- Part numbers: "T" = Telemechanique, "W" = Weidmüller

Wire range	C	Part nr. "T"	UL	C	Part nr. "W"	UL	C	Part nr. DIN	UL	F	L	C	W	Packed
0,14 mm² / 26 AWG		AHBR 0.14N*	✓		AHGRS 0.14N*	✓				6,0	10,0	0,70	1,6	500
		AHBR 0.14L*	✓		AHGRS 0.14L*	✓				8,0	12,0	0,70	1,6	500
0,25 mm² / 24 AWG		AHV 0.25N*	✓		AHB 0.25N*	✓				6,0	10,0	0,75	1,8	500
		AHV 0.25L*	✓		AHB 0.25L*	✓				8,0	12,0	0,75	1,8	500
		AHG 0.25N*	✓							6,0	10,0	0,75	1,8	500
		AHG 0.25L*	✓							8,0	12,0	0,75	1,8	500
0,34 mm² / 22 AWG		AHR 0.34N*	✓		AHT 0.34N*	✓				6,0	10,0	0,80	2,0	500
		AHR 0.34L*	✓		AHT 0.34L*	✓				8,0	12,0	0,80	2,0	500
0,50 mm² / 20 AWG		AHW 0.50K*	✓		AHO 0.50K*	✓		AHW 0.50K*	✓	6,0	12,0	1,0	2,6	500
		AHW 0.50N*	✓		AHO 0.50N*	✓		AHW 0.50N*	✓	8,0	14,0	1,0	2,6	500
		AHW 0.50HL*	✓		AHO 0.50HL*	✓		AHW 0.50HL*	✓	10,0	16,0	1,0	2,6	500
0,75 mm² / 19 AWG		AHB 0.75K*	✓		AHW 0.75K*	✓		AHGRS 0.75K*	✓	6,0	12,0	1,2	2,8	500
		AHB 0.75N*	✓		AHW 0.75N*	✓		AHGRS 0.75N*	✓	8,0	14,0	1,2	2,8	500
		AHB 0.75HL*	✓		AHW 0.75HL*	✓		AHGRS 0.75HL*	✓	10,0	16,0	1,2	2,8	500
		AHB 0.75L*	✓		AHW 0.75L*	✓		AHGRS 0.75L*	✓	12,0	18,0	1,2	2,8	500
1,00 mm² / 18 AWG		AHR 1.00K*	✓		AHG 1.00K*	✓		AHR 1.00K*	✓	6,0	12,0	1,4	3,0	500
		AHR 1.00N*	✓		AHG 1.00N*	✓		AHR 1.00N*	✓	8,0	14,0	1,4	3,0	500
		AHR 1.00HL*	✓		AHG 1.00HL*	✓		AHR 1.00HL*	✓	10,0	16,0	1,4	3,0	500
		AHR 1.00L*	✓		AHG 1.00L*	✓		AHR 1.00L*	✓	12,0	18,0	1,4	3,0	500
1,50 mm² / 16 AWG		AHZ 1.50K*	✓		AHR 1.50K*	✓		AHZ 1.50K*	✓	6,0	12,0	1,7	3,5	500
		AHZ 1.50N*	✓		AHR 1.50N*	✓		AHZ 1.50N*	✓	8,0	14,0	1,7	3,5	500
		AHZ 1.50HL*	✓		AHR 1.50HL*	✓		AHZ 1.50HL*	✓	10,0	16,0	1,7	3,5	500
		AHZ 1.50L*	✓		AHR 1.50L*	✓		AHZ 1.50L*	✓	12,0	18,0	1,7	3,5	500
		AHZ 1.50XL*	✓		AHR 1.50XL*	✓		AHZ 1.50XL*	✓	18,0	24,0	1,7	3,5	500
2,50 mm² / 14 AWG		AHGRS 2.50N*	✓		AHB 2.50N*	✓		AHB 2.50N*	✓	8,0	14,0	2,2	4,2	500
		AHGRS 2.50K*	✓		AHB 2.50K*	✓		AHB 2.50K*	✓	10,0	16,0	2,2	4,2	500
		AHGRS 2.50HL*	✓		AHB 2.50HL*	✓		AHB 2.50HL*	✓	12,0	18,0	2,2	4,2	500
		AHGRS 2.50L*	✓		AHB 2.50L*	✓		AHB 2.50L*	✓	18,0	24,0	2,2	4,2	500
4,00 mm² / 12 AWG		AHO 4.00N*	✓		AHGRS 4.00N*	✓		AHGRS 4.00N*	✓	10,0	17,0	2,8	4,8	500
		AHO 4.00HL*	✓		AHGRS 4.00HL*	✓		AHGRS 4.00HL*	✓	12,0	20,0	2,8	4,8	500
		AHO 4.00L	✓		AHGRS 4.00L	✓		AHGRS 4.00L	✓	18,0	26,0	2,8	4,8	100
6,00 mm² / 10 AWG		AHGR 6.00N	✓		AHZ 6.00N	✓		AHG 6.00N	✓	12,0	20,0	3,5	6,3	100
		AHGR 6.00L	✓		AHZ 6.00L	✓		AHG 6.00L	✓	18,0	26,0	3,5	6,3	100
10,00 mm² / 8 AWG		AHBR 10.00N	✓		AHCR 10.00N	✓		AHR 10.00N	✓	12,0	22,0	4,5	7,6	100
		AHBR 10.00L	✓		AHCR 10.00L	✓		AHR 10.00L	✓	18,0	28,0	4,5	7,6	100
16,00 mm² / 6 AWG		AHCR 16.00N	✓		AHGR 16.00N	✓		AHB 16.00N	✓	12,0	24,0	5,8	8,8	100
		AHCR 16.00L	✓		AHGR 16.00L	✓		AHB 16.00L	✓	18,0	28,0	5,8	8,8	100
25,00 mm² / 4 AWG		AHZ 25.00N	✓		AHBR 25.00N	✓		AHG 25.00N	✓	16,0	30,0	7,3	11,2	50
		AHZ 25.00L	✓		AHBR 25.00L	✓		AHG 25.00L	✓	22,0	36,0	7,3	11,2	50
35,00 mm² / 2 AWG		AHR 35.00N	✓		AHCR 35.00N	✓		AHR 35.00N	✓	16,0	30,0	8,3	12,7	50
		AHR 35.00HL	✓		AHCR 35.00HL	✓		AHR 35.00HL	✓	18,0	32,0	8,3	12,7	50
		AHR 35.00L	✓		AHCR 35.00L	✓		AHR 35.00L	✓	25,0	39,0	8,3	12,7	50
50,00 mm² / 1/0 AWG		AHB 50.00N	✓		AHOG 50.00N	✓		AHB 50.00N	✓	20,0	36,0	10,3	15,0	50
		AHB 50.00L	✓		AHOG 50.00L	✓		AHB 50.00L	✓	25,0	40,0	10,3	15,0	50
70,00 mm² / 2/0 AWG		AHG 70.00L			AHG 70.00L			AHG 70.00L		21,0	37,0	13,5	16,0	25
95,00 mm² / 3/0 AWG		AHR 95.00L			AHR 95.00L			AHR 95.00L		25,0	44,0	14,5	18,0	25
120,00 mm² / 4/0 AWG		AHB 120.00L			AHB 120.00L			AHB 120.00L		27,0	48,0	16,5	20,0	25
150,00 mm² / 300 kcmil		AHG 150.00L			AHG 150.00L			AHG 150.00L		32,0	58,0	19,5	23,0	25

* Also available in 100 pcs bags

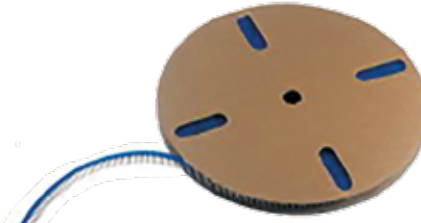


Cut-strips

Wire range	C	Part nr. "T"	UL	C	Part nr. "W"	UL	C	Part nr. DIN	UL	F	L	C	W	Packed
0,50 mm ² / 20 AWG		AHW 0.50N STRIP	✓		AHO 0.50N STRIP	✓		AHW 0.50N STRIP	✓	8,0	14,0	1,0	2,6	10 x 50 pcs
0,75 mm ² / 19 AWG		AHB 0.75N STRIP	✓		AHW 0.75N STRIP	✓		AHGRS 0.75N STRIP	✓	8,0	14,0	1,2	2,8	10 x 50 pcs
1,00 mm ² / 18 AWG		AHR 1.00N STRIP	✓		AHG 1.00N STRIP	✓		AHR 1.00N STRIP	✓	8,0	14,0	1,4	3,0	10 x 50 pcs
1,50 mm ² / 16 AWG		AHZ 1.50N STRIP	✓		AHR 1.50N STRIP	✓		AHZ 1.50N STRIP	✓	8,0	14,0	1,7	3,5	10 x 50 pcs
2,50 mm ² / 14 AWG		AHGRS 2.50N STRIP	✓		AHB 2.50N STRIP	✓		AHB 2.50N STRIP	✓	8,0	14,0	2,2	4,2	10 x 50 pcs

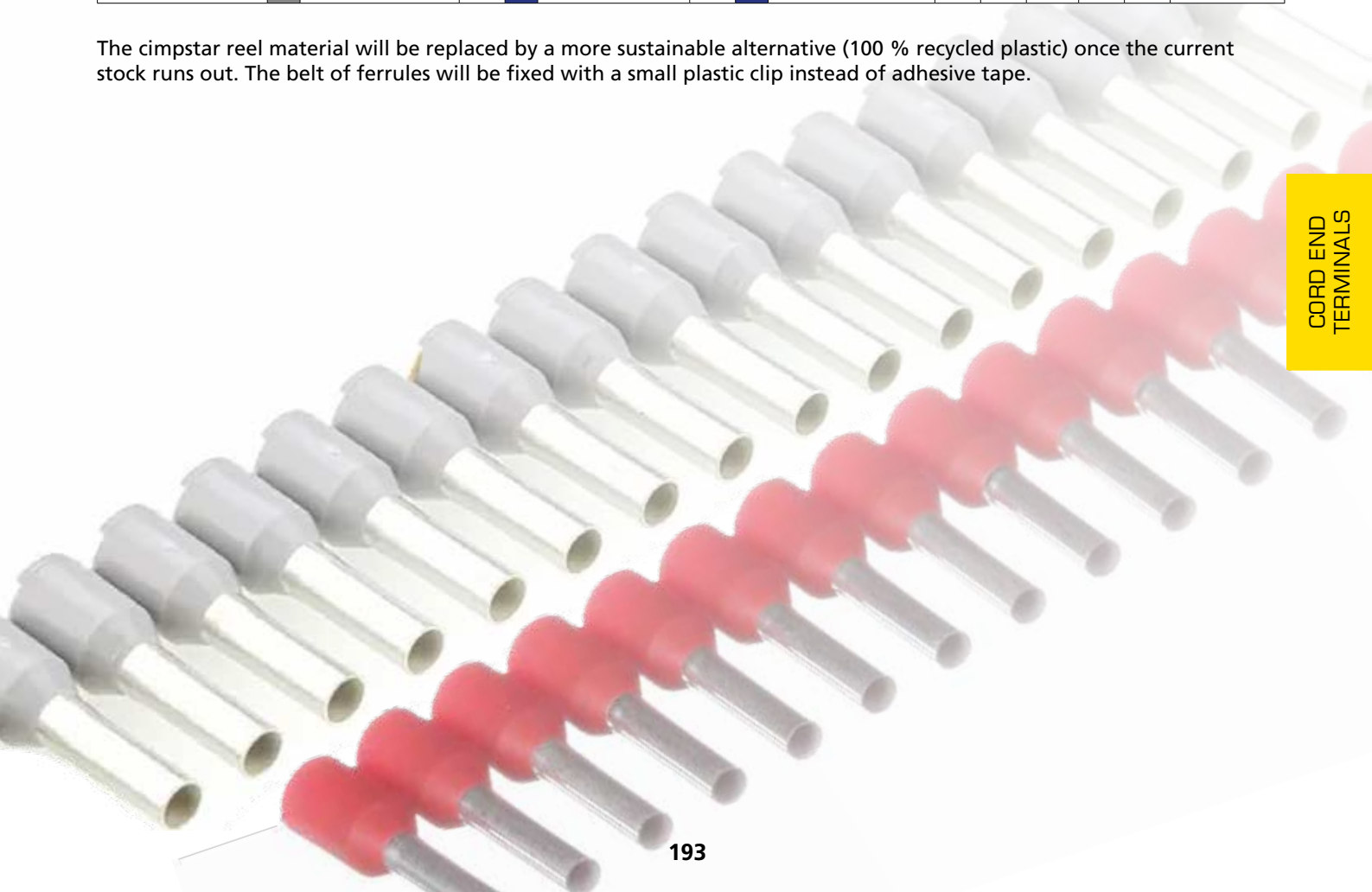
Crimpstar reel

Outer Ø 320 mm, core Ø 23 mm



Wire range	C	Part nr. "T"	UL	C	Part nr. "W"	UL	C	Part nr. DIN	UL	F	L	C	W	Pcs/reel
0,50 mm ² / 20 AWG		AHW 0.50N CSR	✓		AHO 0.50N CSR	✓		AHW 0.50N CSR	✓	8,0	14,0	1,0	2,6	4000
0,75 mm ² / 19 AWG		AHB 0.75N CSR	✓		AHW 0.75N CSR	✓		AHGRS 0.75N CSR	✓	8,0	14,0	1,2	2,8	4000
1,00 mm ² / 18 AWG		AHR 1.00N CSR	✓		AHG 1.00N CSR	✓		AHR 1.00N CSR	✓	8,0	14,0	1,4	3,0	3500
1,50 mm ² / 16 AWG		AHZ 1.50N CSR	✓		AHR 1.50N CSR	✓		AHZ 1.50N CSR	✓	8,0	14,0	1,7	3,5	3000
2,50 mm ² / 14 AWG		AHGRS 2.50N CSR	✓		AHB 2.50N CSR	✓		AHB 2.50N CSR	✓	8,0	14,0	2,2	4,2	2500

The crimpstar reel material will be replaced by a more sustainable alternative (100 % recycled plastic) once the current stock runs out. The belt of ferrules will be fixed with a small plastic clip instead of adhesive tape.



CORD END
TERMINALS

HJ601633BC

1663 pcs - 19 compartments

Insulated single wire cord end terminals
incl. tool

- 1 x 10" ratchet crimper HJ56I
- 1 x die set DSQID
- 1 x die set DSQIF

150 x AHW 0.50HL
200 x AHW 0.50N
200 x AHGRS 0.75N
150 x AHGRS 0.75L
200 x AHR 1.00N
150 x AHR 1.00L
100 x AHZ 1.50N
75 x AHZ 1.50L
100 x AHB 2.50N

75 x AHB 2.50L
60 x AHGRS 4.00N
40 x AHGRS 4.00L
50 x AHG 6.00N
30 x AHG 6.00L
25 x AHR 10.00N
15 x AHR 10.00L
25 x AHB 16.00N
15 x AHB 16.00L



Professional kit



See content in our Tools & Assortment
chapter on page 280.

Single wire (non-)insulated assortments

HJ603713BC

3713 pcs - 19 compartments

insulated and non-insulated single wire cord end terminals
incl. tool

- 1 x 10" ratchet crimper HJ56I
- 1 x die set DSQID
- 1 x die set DSQIF

insulated:

200 x AHO 0.50N
200 x AHW 0.75N
200 x AHG 1.00N
100 x AHR 1.50N
100 x AHB 2.50N
60 x AHGRS 4.00N
50 x AHZ 6.00N
25 x AHCR 10.00N
25 x AHGR 16.00N

non-insulated:

500 x AH 0.50
500 x AH 0.75
500 x AH 1.00
500 x AH 1.50
400 x AH 2.50
100 x AH 4.00
100 x AH 6.00
100 x AH 10.00
50 x AH 16.00



Professional kit



See content in our Tools & Assortment
chapter on page 281.

ASSAHI-401

100 pcs - 4 compartments

50 x AHGRS 4.00N
 20 x AHG 6.00N
 20 x AHR 10.00N
 10 x AHB 16.00N

**ASSAHI-501**

400 pcs - 5 compartments

50 x AHW 0.50N
 100 x AHGRS 0.75N
 100 x AHR 1.00N
 100 x AHZ 1.50N
 50 x AHB 2.50N



Single wire tools



92145
 11,4" Crimping tool
 for cord end terminals
 0,08~10,0 mm²
 SQUARE crimp



92146
 8,3" Crimping tool
 for cord end terminals
 0,5~16 mm²
 HEXAGONAL crimp



BN-06WF
 10" Crimping tool
 for cord end terminals
 0,5~4,0 mm²

Die sets

For quick interchangeable ratchet tools MHQIBE, HJ56I or HJ43I (separately available) **see our Tools & Assortment chapter (page 264-269)**



DSQID
 For cord end terminals
 0,5~4,0 mm²



DSQIF
 For cord end terminals
 6,0~16,0 mm²



DSQIF1
 For cord end terminals
 25,0~35,0 mm²

MHQIBE

8,7" carbon steel ratchet tool
 (separately available)

HJ56I

10" carbon steel ratchet tool
 (separately available)

HJ43I

8,7" aluminium ratchet
 tool (separately available)

CORD END
TERMINALS

MH-2P
 10" Crimping tool
 for cord end terminals
 6,0~16,0 mm²

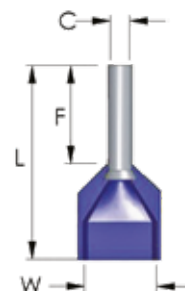


MH-3P
 10" Crimping tool
 for cord end terminals
 25,0~35,0 mm²

PP cord end terminals DIN 46228/4 - Twin wire



- Minimum coating thickness: 3 µm
- Compliant to EU directives: 2002/96/EC (WEEE), 2002/95/EC (ROHS) AND 2003/11/CE
- Part numbers: "T" = Telemechanique, "W" = Weidmüller



Wire range	C	Part nr. "T"	UL	C	Part nr. "W"	UL	C	Part nr. DIN	UL	F	L	C	W	Packed
2 x 0,25 mm ² 2 x 24 AWG		TAHV 0.25N*	✓		TAHB 0.25N*	✓				8,0	15,0	1,15	3,4	500
2 x 0,34 mm ² 2 x 22 AWG					TAHT 0.34N*					8,0	15,0	1,15	3,5	500
2 x 0,50 mm ² 2 x 20 AWG		TAHW 0.50N*	✓		TAHO 0.50N*	✓		TAHW 0.50N*	✓	8,0	15,0	1,4	4,7	500
2 x 0,75 mm ² 2 x 19 AWG		TAHB 0.75N*	✓		TAHW 0.75N*	✓		TAHGRS 0.75N*	✓	8,0	15,0	1,7	5,0	500
		TAB 0.75L*	✓		TAHW 0.75L*	✓		TAHGRS 0.75L*	✓	10,0	17,0	1,7	5,0	500
2 x 1,00 mm ² 2 x 18 AWG		TAHR 1.00N*	✓		TAHG 1.00N*	✓		TAHR 1.00N*	✓	8,0	15,0	1,95	5,4	500
		TAHR 1.00L*	✓		TAHG 1.00L*	✓		TAHR 1.00L*	✓	10,0	17,0	1,95	5,4	500
2 x 1,50 mm ² 2 x 16 AWG		TAHZ 1.50N*	✓		TAHR 1.50N*	✓		TAHZ 1.50N*	✓	8,0	16,0	2,2	6,6	500
		TAHZ 1.50L*	✓		TAHR 1.50L*	✓		TAHZ 1.50L*	✓	12,0	20,0	2,2	6,6	500
2 x 2,50 mm ² 2 x 14 AWG		TAHGRS 2.50N*	✓		TAHB 2.50N*	✓		TAHB 2.50N*	✓	10,0	18,5	2,8	7,8	250
		TAHGRS 2.50L*	✓		TAHB 2.50L*	✓		TAHB 2.50L*	✓	13,0	21,5	2,8	7,8	250
2 x 4,00 mm ² 2 x 12 AWG		TAHO 4.00N	✓		TAHGRS 4.00N	✓		TAHGRS 4.00N	✓	12,0	23,0	3,7	8,8	100
2 x 6,00 mm ² 2 x 10 AWG		TAHGR 6.00N	✓		TAHZ 6.00N	✓		TAHG 6.00N	✓	14,0	26,0	4,8	10,0	100
2 x 10,00 mm ² 2 x 8 AWG		TAHBR 10.00N	✓		TAHCR 10.00N	✓		TAHR 10.00N	✓	14,0	26,0	6,4	13,0	100
2 x 16,00 mm ² 2 x 6 AWG		TAHCR 16.00N	✓		TAHGR 16.00N	✓		TAHB 16.00N	✓	14,0	30,0	8,2	18,4	50

* Also available in 100 pcs bags

Twin wire assortments

Twin wire tools



92145
11,4" Crimping tool
for cord end terminals
Twin wire 2x0,5 - 2x6,0 mm²
SQUARE crimp



92146
8,3" Crimping tool
for cord end terminals
Twin wire 2x0,5 - 2x10,0 mm²
HEXAGONAL crimp

ASSAHI-402

45 pcs - 4 compartments

20 x TAHGRS 4.00N
10 x TAHG 6.00N
10 x TAHR 10.00N
5 x TAHB 16.00N



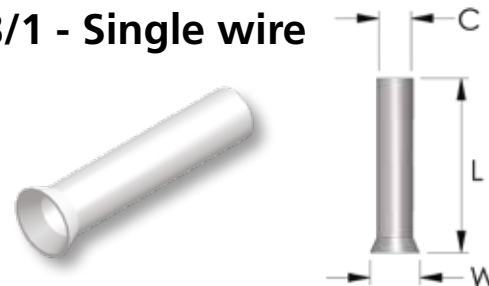
ASSAHI-502

200 pcs - 4 compartments

50 x TAHGRS 0.75N
50 x TAHR 1.00N
50 x TAHZ 1.50N
50 x TAHB 2.50N



Non-insulated cord end terminals DIN 46228/1 - Single wire



- Minimum coating thickness: 3 µm
- Compliant to EU directives: 2002/96/EC (WEEE), 2002/95/EC (ROHS) AND 2003/11/CE

Wire range	Part nr.	L	C	W	Packed	UL
0,14 mm ²	AH 0.14*	7,0	0,65	1,6	1000	✓
0,25 mm ²	AH 0.25K*	5,0	0,75	1,7	1000	✓
	AH 0.25*	7,0	0,75	1,7	1000	✓
	AH 0.25L*	10,0	0,75	1,7	1000	✓
	AH 0.34K*	5,0	0,85	1,8	1000	✓
0,34 mm ²	AH 0.34*	7,0	0,85	1,8	1000	✓
	AH 0.50KK*	6,0	1,0	2,1	1000	✓
0,5 mm ²	AH 0.50K*	8,0	1,0	2,1	1000	✓
	AH 0.50*	10,0	1,0	2,1	1000	✓
	AH 0.75KK*	6,0	1,2	2,3	1000	✓
0,75 mm ²	AH 0.75K*	8,0	1,2	2,3	1000	✓
	AH 0.75*	10,0	1,2	2,3	1000	✓
	AH 0.75HL*	12,0	1,2	2,3	1000	✓
	AH 1.00KK*	6,0	1,4	2,5	1000	✓
1,0 mm ²	AH 1.00K*	8,0	1,4	2,5	1000	✓
	AH 1.00*	10,0	1,4	2,5	1000	✓
	AH 1.00HL*	12,0	1,4	2,5	1000	✓
	AH 1.50KK*	7,0	1,7	2,8	1000	✓
1,5 mm ²	AH 1.50K*	8,0	1,7	2,8	1000	✓
	AH 1.50*	10,0	1,7	2,8	1000	✓
	AH 1.50HL*	12,0	1,7	2,8	1000	✓
	AH 2.50KK*	7,0	2,2	3,4	1000	✓
2,5 mm ²	AH 2.50K*	8,0	2,2	3,4	1000	✓
	AH 2.50*	10,0	2,2	3,4	1000	✓
	AH 2.50HL*	12,0	2,2	3,4	1000	✓
	AH 2.50L*	18,0	2,2	3,4	1000	✓
	AH 4.00K*	9,0	2,8	4,0	1000	✓
4,0 mm ²	AH 4.00N*	10,0	2,8	4,0	1000	✓
	AH 4.00*	12,0	2,8	4,0	1000	✓
	AH 4.00HL*	15,0	2,8	4,0	1000	✓
	AH 4.00L*	18,0	2,8	4,0	1000	✓

* Also available in 100 pcs bags

Wire range	Part nr.	L	C	W	Packed	UL
6,0 mm ²	AH 6.00K*	10,0	3,5	4,7	250	✓
	AH 6.00HL*	12,0	3,5	4,7	250	✓
	AH 6.00*	15,0	3,5	4,7	250	✓
	AH 6.00L*	18,0	3,5	4,7	250	✓
10,0 mm ²	AH 10.00K*	12,0	4,5	5,8	250	✓
	AH 10.00*	15,0	4,5	5,8	250	✓
	AH 10.00L*	18,0	4,5	5,8	250	✓
16,0 mm ²	AH 16.00K*	12,0	5,8	7,5	250	✓
	AH 16.00*	15,0	5,8	7,5	250	✓
	AH 16.00HL*	18,0	5,8	7,5	250	✓
	AH 16.00L*	25,0	5,8	7,5	250	✓
25,0 mm ²	AH 25.00KK*	12,0	7,3	9,5	250	✓
	AH 25.00K*	15,0	7,3	9,5	250	✓
	AH 25.00*	18,0	7,3	9,5	250	✓
	AH 25.00HL*	25,0	7,3	9,5	250	✓
35,0 mm ²	AH 25.00L*	32,0	7,3	9,5	250	✓
	AH 35.00K	12,0	8,3	11,0	100	✓
	AH 35.00	18,0	8,3	11,0	100	✓
	AH 35.00HL	20,0	8,3	11,0	100	✓
50,0 mm ²	AH 35.00L	25,0	8,3	11,0	100	✓
	AH 50.00K	18,0	10,3	13,0	100	✓
	AH 50.00	22,0	10,3	13,0	100	✓
	AH 50.00HL	25,0	10,3	13,0	100	✓
70,0 mm ²	AH 50.00L	32,0	10,3	13,0	100	✓
	AH 70.00	22,0	12,5	15,0	100	
	AH 70.00HL	25,0	12,5	15,0	100	
95,0 mm ²	AH 70.00L	32,0	12,5	15,0	100	
	AH 95.00HL	25,0	14,5	17,0	50	
120,0 mm ²	AH 95.00L	32,0	14,5	17,0	50	
	AH 120.00HL	32,0	16,5	19,0	50	
150,0 mm ²	AH 150.00HL	32,0	18,5	21,0	50	
	AH 150.00L	38,0	18,5	21,0	50	

CORD END
TERMINALS

HJ602318BC

2318 pcs - 19 compartments
incl. tool

1 x 10" ratchet crimper HJ56I
1 x die set DSQID
1 x die set DSQIF

200 x AH 0.50KK	200 x AH 1.00HL
200 x AH 0.50K	100 x AH 1.50
200 x AH 0.50	100 x AH 2.50
200 x AH 0.75KK	40 x AH 4.00
200 x AH 0.75K	30 x AH 6.00
200 x AH 0.75	15 x AH 10.00
200 x AH 1.00KK	15 x AH 16.00
200 x AH 1.00K	10 x AH 25.00
200 x AH 1.00	5 x AH 35.00

Professional kit



See content in our Tools & Assortment chapter on page 281.



Non-insulated assortments

ASSAH-500

2500 pcs - 5 compartments



500 x AH 0.25K
500 x AH 0.34K
500 x AH 0.50KK
500 x AH 0.75KK
500 x AH 1.00KK

ASSAH-502

1900 pcs - 5 compartments



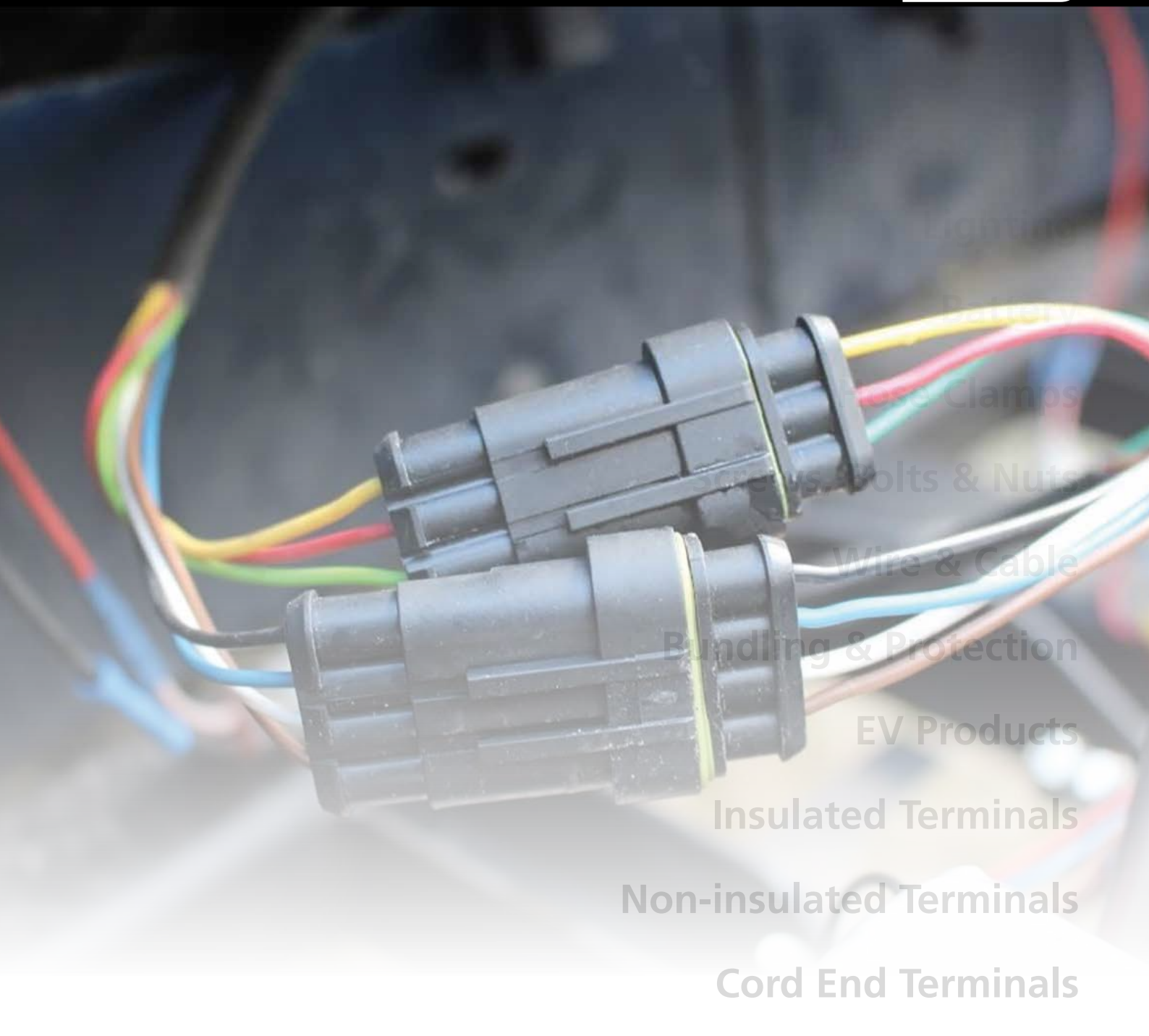
500 x AH 0.50KK
500 x AH 0.75KK
400 x AH 1.00KK
300 x AH 1.50KK
200 x AH 2.50KK

ASSAH-504

350 pcs - 4 compartments



150 x AH 4.00K
75 x AH 6.00HL
75 x AH 10.00K
50 x AH 16.00K



Housing

Superseal 1.5	200
Metri-Pack 280	203
Delphi Weatherpack	204
Deutsch	206
Junior Power Timer	211
VAG	212
Multi-connectors	215
Insulation sleeves	218

Fuses & Fuse Holders

Relays, Switches, Pilot Lights & Buzzers

Tools & Assortment Kits

Superseal 1.5 connectors



- For wire-to-wire and ECU applications, under hood or any location where sealing is required
- Designed for ease of manual harness assembly and engine mounting
- Sealing reliability proven under harsh conditions
- Resistant to ozone, salts (CaCl₂-NaCl), gasoline, diesel fuel, brake fluid detergents, anti-freeze coolant, transmission gear lubricant and motor oil
- Waterproofness: Exceeds IEC 529 and DIN 40050 IP67 standards



	Part nr.	Poles	Description	Wire range	MOQ
	H282103-1	1			100
	H282104-1	2			100
	H282105-1	3			100
	H282106-1	4			100
	H282107-1	5			100
	H282108-1	6			100
	H282079-2	1			100
	H282080-1	2			100
	H282087-1	3			100
	H282088-1	4			100
	H282089-1	5			100
	H282090-1	6			100
	H282109-1		Tab size 1,5 x 0,8 mm	0,75 - 1,5 mm ²	100
	H282110-1		Tab size 1,5 x 0,8 mm	0,75 - 1,5 mm ²	100
	H281934-4		green seal	Ø 1,2 - 1,6 mm	100
	H281934-2		yellow seal	Ø 1,7 - 2,4 mm	100
	H281934-3		red seal	Ø 2,5 - 3,3 mm	100
	H282081-1		red cavity plug		100

Also available



Pre-wired, wire size 0,75 mm²

Part nr.	Poles	Description
PUR21051	2	Female housing, pre-wired 2 x 200 mm, 0,75 mm², black
PUR21052	3	Female housing, pre-wired 3 x 200 mm, 0,75 mm², black
PUR21053	4	Female housing, pre-wired 4 x 200 mm, 0,75 mm², black
PUR21029	2	Male housing, pre-wired 2 x 200 mm, 0,75 mm², black
PUR21030	3	Male housing, pre-wired 3 x 200 mm, 0,75 mm², black
PUR21031	4	Male housing, pre-wired 4 x 200 mm, 0,75 mm², black

Male/female sets

Part nr.	Poles	Description
H282PC1	1	1 x H282079-2 (F) + 1 x H282103-1 (M) + 1 x H282110-1 + 1 x H282109-1 + 2 x H281934-2
H282PC2	2	1 x H282080-1 (F) + 1 x H282104-1 (M) + 2 x H282110-1 + 2 x H282109-1 + 4 x H281934-2
H282PC3	3	1 x H282087-1 (F) + 1 x H282105-1 (M) + 3 x H282110-1 + 3 x H282109-1 + 6 x H281934-2
H282PC4	4	1 x H282088-1 (F) + 1 x H282106-1 (M) + 4 x H282110-1 + 4 x H282109-1 + 8 x H281934-2
H282PC5	5	1 x H282089-1 (F) + 1 x H282107-1 (M) + 5 x H282110-1 + 5 x H282109-1 + 10 x H281934-2
H282PC6	6	1 x H282090-1 (F) + 1 x H282108-1 (M) + 6 x H282110-1 + 6 x H282109-1 + 12 x H281934-2



Male sets

Part nr.	Poles	Description
H282C1	1	1 x H282103-1 (M) + 1 x H282109-1 + 1 x H281934-2
H282C2	2	1 x H282104-1 (M) + 2 x H282109-1 + 2 x H281934-2
H282C3	3	1 x H282105-1 (M) + 3 x H282109-1 + 3 x H281934-2
H282C4	4	1 x H282106-1 (M) + 4 x H282109-1 + 4 x H281934-2
H282C5	5	1 x H282107-1 (M) + 5 x H282109-1 + 5 x H281934-2
H282C6	6	1 x H282108-1 (M) + 6 x H282109-1 + 6 x H281934-2



Female sets

Part nr.	Poles	Description
H282P1	1	1 x H282079-2 (F) + 1 x H282110-1 + 1 x H281934-2
H282P2	2	1 x H282080-1 (F) + 2 x H282110-1 + 2 x H281934-2
H282P3	3	1 x H282087-1 (F) + 3 x H282110-1 + 3 x H281934-2
H282P4	4	1 x H282088-1 (F) + 4 x H282110-1 + 4 x H281934-2
H282P5	5	1 x H282089-1 (F) + 5 x H282110-1 + 5 x H281934-2
H282P6	6	1 x H282090-1 (F) + 6 x H282110-1 + 6 x H281934-2



Tools for Superseal

Die sets

For quick interchangeable ratchet tools MHQIBE, HJ56I or HJ43I (separately available) **see our Tools & Assortment chapter (page 264-269)**



DSQIH2
For open-barrel Superseal terminals
DIN 0,35-1,5 mm²



DSQIH3
For open-barrel Superseal terminals
DIN 0,75-1,0 mm²

MHQIBE

8,7" carbon steel ratchet tool
(separately available)



HJ56I

10" carbon steel ratchet tool
(separately available)



HJ43I

8,7" aluminium ratchet tool (separately available)



HJ410339BC-H2H3

339 pcs - 22 compartments
Incl. tool

1 x 8,7" aluminium ratchet crimper HJ43I
1 x die set DSQIH2
1 x die set DSQIH3

Housing:

4 x 1 pole male housing
4 x 1 pole female housing
4 x 2 pole male housing
4 x 2 pole female housing
3 x 3 pole male housing
3 x 3 pole female housing
3 x 4 pole male housing
3 x 4 pole female housing
2 x 5 pole male housing
2 x 5 pole female housing
2 x 6 pole male housing
2 x 6 pole female housing

Wire seals:

50 x green seal 1,2 - 1,6 mm
50 x yellow seal 1,7 - 2,4 mm

Terminals:

50 x male 0,3 - 0,5 mm²
50 x fem. 0,3 - 0,5 mm²
50 x male 0,75 - 1,5 mm²
50 x fem. 0,75 - 1,5 mm²

Professional kit



Superseal assortments

Empty case with tool



HJ410006BC-H2H3

3 pcs - 22 compartments

1 x 8,7" aluminium ratchet crimper HJ43I
1 x die set DSQIH2
1 x die set DSQIH3

HE300350HC Superseal assortment kit without tool
350 pcs - 18 compartments



Housing:

4 x 1 pole male housing
4 x 1 pole female housing
4 x 2 pole male housing
4 x 2 pole female housing
3 x 3 pole male housing
3 x 3 pole female housing
3 x 4 pole male housing
3 x 4 pole female housing
2 x 5 pole male housing
2 x 5 pole female housing
2 x 6 pole male housing
2 x 6 pole female housing

Wire seals:

50 x green seal 1,2 - 1,6 mm
50 x yellow seal 1,7 - 2,4 mm

Terminals:

50 x male 0,3 - 0,5 mm²
50 x female 0,3 - 0,5 mm²
50 x male 0,75 - 1,5 mm²
50 x female 0,75 - 1,5 mm²

See content in our Tools & Assortment chapter on page 285.

Metri-Pack 280 connectors



- Waterproofness: Exceeds IEC 529 and DIN 40050 IP67 standards
- Rated to: maximum 30A continuous
- Temperature range: -40 °C ~ 125 °C
- Low energy, low voltage capability
- Small overall dimensions
- Excellent chemical and abrasion resistance
- Standard ISO 2.8 mm configuration



	Part nr.	Poles	Description	Wire range	MOQ
	HMM12811	1	 with protective cap		100
	HMM22811	2	 with protective cap		100
	HMM32811	3	 with protective cap		100
	HFM12821	1	 with protective cap		100
	HFM22821	2	 with protective cap		100
	HFM32821	3	 with protective cap		100
	99-002-ML-TA		Tab size 2,8 x 0,8 mm	1,5 - 2,5 mm ²	100
	98-002-ML-TA		Tab size 2,8 x 0,8 mm	1,5 - 2,5 mm ²	100
	H38409-1		red seal	Ø 1,29 - 1,70 mm	100
	12010300		green cavity plug		100

Delphi Weatherpack connectors



- Sealed connector system for low-energy, low-voltage circuits, designed to withstand extreme temperatures, chemicals and automotive fluids, ideal for modern vehicle electronic systems
- Pin-and-sleeve terminal configuration to minimize stress relaxation
- Positive locking indexing prevents mismatching of connectors
- Secondary lock and Connector Position Assurance (CPA) for correct terminal positioning
- Orientation-free terminal insertion with dual-locking tangs to securely retain terminals
- Current range: 0 – 20 amps
- Temperature range: -40 °C ~ 125 °C
- Resistance: < 10mΩ @ 50mV
- Voltage drop: < 3,0mV/amp
- Centerline spacing: 7,7 mm
- Blade width: Pin and sleeve



	Part nr.	Poles	Description	Wire range	MOQ
	958-3SWA01MB	1			100
	958-3SWA02MB	2			100
	958-3SWA03MB	3			100
	958-3SWA04MB	4			100
	958-3SWAA04MB	4 (square)			100
	958-3SWA06MB	6			100
	958-3SWA01FB	1			100
	958-3SWA02FB	2			100
	958-3SWA03FB	3			100
	958-3SWA04FB	4			100
	958-3SWAA04FB	4 (square)			100
	958-3SWA06FB	6			100
	958-6879307BS7			0,50 - 0,85 mm ²	100
	958-6879306BS7			1,25 - 2,0 mm ²	100
	958-6879356BS7			3,0 mm ²	100
	958-6879207BS7			0,50 - 0,85 mm ²	100
	958-6879206BS7			1,25 - 2,0 mm ²	100
	958-6879256BS7			3,0 mm ²	100
	1440-1240		green seal	Ø 1,4 - 1,9 mm	100
	1440-1143		green seal	Ø 2,5 - 3,4 mm	100
	1440-1144		blue seal	Ø 2,9 - 3,8 mm	100
	12010300		green cavity plug		100

HJ410220BC-H6H7

220 pcs - 22 compartments

Incl. tool

- 1 x 8,7" aluminium ratchet crimper HJ43I
- 1 x die set DSQIH6
- 1 x die set DSQIH7
- 1 x extraction tool UT012 (also separately available)

Housing:

- 3 x 1 pole rec. type male
- 3 x 1 pole rec. type female
- 2 x 2 pole rec. type male
- 2 x 2 pole rec. type female
- 1 x 3 pole rec. type male
- 1 x 3 pole rec. type female
- 1 x 4 pole pin type male
- 1 x 4 pole pin type female
- 1 x 4 pole rec. type male
- 1 x 4 pole rec. type female

Wire seals:

- 25 x green seal 1,4 - 1,9 mm
- 30 x green seal 2,5 - 3,4 mm
- 25 x blue seal 2,9 - 3,8 mm

Terminals:

- 20 x male 0,5 - 0,85 mm²
- 20 x fem. 0,5 - 0,85 mm²
- 20 x male 1,25 - 2,00 mm²
- 20 x fem. 1,25 - 2,00 mm²
- 20 x male 3 mm²
- 20 x fem. 3 mm²

See content in our Tools & Assortment chapter on page 284.

Professional kit**Delphi Weatherpack assortments****Also available without tool****HE290232HC Weatherpack assortment kit without tool**

350 pcs - 18 compartments

232 pcs - 20 compartments

Housing:

- 5 x 1 pole rec. type male
- 5 x 1 pole rec. type female
- 3 x 2 pole rec. type male
- 3 x 2 pole rec. type female
- 4 x 3 pole rec. type male
- 4 x 3 pole rec. type female
- 2 x 4 pole pin type male
- 2 x 4 pole pin type female
- 2 x 4 pole rec. type male
- 2 x 4 pole rec. type female

Wire seals:

- 25 x green seal 1,4 - 1,9 mm
- 30 x green seal 2,5 - 3,4 mm
- 25 x blue seal 2,9 - 3,8 mm

Terminals:

- 20 x male 0,5 - 0,84 mm²
- 20 x fem. 0,5 - 0,84 mm²
- 20 x male 1,25 - 2,00 mm²
- 20 x fem. 1,25 - 2,00 mm²
- 20 x male 3 mm²
- 20 x fem. 3 mm²

See content in our Tools & Assortment chapter on page 285.

Tools for Delphi Weatherpack**Die sets**

For quick interchangeable ratchet tools MHQIBE, HJ56I or HJ43I (separately available) see our Tools & Assortment chapter (page 264-269)

**DSQIH6**

For open-barrel Delphi Weatherpack terminals 0,35-0,8 mm²

**DSQIH7**

For open-barrel Delphi Weatherpack terminals 1,0-3,0 mm²

MHQIBE

8,7" carbon steel ratchet tool (separately available)

HJ56I

10" carbon steel ratchet tool (separately available)

HJ43I

8,7" aluminium ratchet tool (separately available)

**UT012**

Terminal release tool for Delphi Weatherpack

Deutsch connectors - DT series



- Rectangular thermoplastic connector, resistant to most industrial fluids, available in 2, 3, 4, 6, 8 and 12 cavity configurations, with in-line, flange or PCB mounting options
- Accepts size 16 (13 A) contacts for 20–14 AWG wire
- With silicone rubber grommets and interfacial seals providing excellent environmental sealing
- Integrated latches and wedgelocks to ensure secure mating and reliable terminal retention
- Temperature range: -55 °C ~ 125 °C continuous at rated current
- Insulation resistance: 1000 megohms minimum at 25 °C
- Dielectric withstanding voltage: current leakage < 2 mA at 1500 V



	Part nr.	Poles	Description	Wire range	MOQ
	DT04-2P	2			100
	DT04-3P	3			100
	DT04-4P	4			100
	DT04-6P	6			100
	DT04-08PA	8			100
	DT04-12P	12			100
	DT06-2S	2			100
	DT06-3S	3			100
	DT06-4S	4			100
	DT06-6S	6			100
	DT06-08SA	8			100
	DT06-12S	12			100
	1060-20-0122		Tab size Ø 1,5 mm	0,75-2,0 mm ² 18 - 14 AWG	100
	1062-20-0222		Tab size Ø 1,5 mm	0,75-2,0 mm ² 18 - 14 AWG	100
	0460-202-16141		Tab size Ø 1,5 mm	0,5-1,5 mm ² 20 - 16 AWG	100
	0460-215-16141 (green stripe)		Tab size Ø 1,5 mm	2,0 mm ² 14 AWG	100
	0462-201-16141		Tab size Ø 1,5 mm	0,5-1,5 mm ² 20 - 16 AWG	100
	0462-209-16141 (green stripe)		Tab size Ø 1,5 mm	2,0 mm ² 14 AWG	100
	DTSEAL		Cavity plug		100



Also available

Pre-wired, wire size 0,75 mm²

Part nr.	Poles	Description
PUR367082	2	Female housing, pre-wired with twin core cable 50 cm, 0,75 mm ² , black, open-barrel terminals
PUR367083	2	Female housing, pre-wired with twin core cable 300 cm, 0,75 mm ² , black, open-barrel terminals
PUR367084	2	Female housing, pre-wired with twin core cable 300 cm, 0,75 mm ² , black, solid terminals

Male/female sets with open-barrel terminals

Part nr.	Poles	Description
HDTPC2	2	1 x DT04-2P (M) + 1 x DT06-2S (F) + 2 x 1062-20-0222 + 2 x 1060-20-0122
HDTPC3	3	1 x DT04-3P (M) + 1 x DT06-3S (F) + 3 x 1062-20-0222 + 3 x 1060-20-0122
HDTPC4	4	1 x DT04-4P (M) + 1 x DT06-4S (F) + 4 x 1062-20-0222 + 4 x 1060-20-0122
HDTPC6	6	1 x DT04-6P (M) + 1 x DT06-6S (F) + 6 x 1062-20-0222 + 6 x 1060-20-0122
HDTPC8	8	1 x DT04-08PA (M) + 1 x DT06-08SA (F) + 8 x 1062-20-0222 + 8 x 1060-20-0122
HDTPC12	12	1 x DT04-12P (M) + 1 x DT06-12S (F) + 12 x 1062-20-0222 + 12 x 1060-20-0122



Male sets with open-barrel terminals

Part nr.	Poles	Description
DT42PC	2	1 x DT04-2P (M) + 2 x 1060-20-0122
DT43PC	3	1 x DT04-3P (M) + 3 x 1060-20-0122
DT44PC	4	1 x DT04-4P (M) + 4 x 1060-20-0122
DT46PC	6	1 x DT04-6P (M) + 6 x 1060-20-0122
DT48PC	8	1 x DT04-08PA (M) + 8 x 1060-20-0122
DT412PC	12	1 x DT04-12P (M) + 12 x 1060-20-0122

HOUSING

Female sets with open-barrel terminals

Part nr.	Poles	Description
DT62PC	2	1 x DT06-2S (F) + 2 x 1062-20-0222
DT63PC	3	1 x DT06-3S (F) + 3 x 1062-20-0222
DT64PC	4	1 x DT06-4S (F) + 4 x 1062-20-0222
DT66PC	6	1 x DT06-6S (F) + 6 x 1062-20-0222
DT68PC	8	1 x DT06-08SA (F) + 8 x 1062-20-0222
DT612PC	12	1 x DT06-12S (F) + 12 x 1062-20-0222



Deutsch DT assortment

HJ888090BC-K3K4

92 pcs - 18 compartments
incl. tool

1 x 10" carbon steel ratchet crimper HJ56I
1 x die set DSQIK3
1 x die set DSQIK4
1 x extraction tool UT011 (also separately available)

Housing:

5 x 2 pole male housing
5 x 2 pole female housing
3 x 3 pole male housing
3 x 3 pole female housing
2 x 4 pole male housing
2 x 4 pole female housing
2 x 6 pole male housing
2 x 6 pole female housing
1 x 8 pole male housing
1 x 8 pole female housing
1 x 12 pole male housing
1 x 12 pole female housing

Terminals:

30 x male 0,75 - 2,0 mm²
30 x fem. 0,75 - 2,0 mm²

See content in our Tools & Assortment chapter on page 284.

Professional kit



Die sets

For quick interchangeable ratchet tools MHQIBE, HJ56I or HJ43I (separately available) see our Tools & Assortment chapter (page 264-269)



DSQIK3

For open-barrel Deutsch terminals (DT series)
0,8-2,0 mm²



DSQIK4

For open-barrel Deutsch terminals (DT series)
0,5-1,0 mm²



DSQIK6

For open-barrel Deutsch terminals (DT series)
1,0-2,5 mm²



DSQIKQ8

For solid Deutsch terminals (4 indents)
0,5-4,0 mm²
MIM procedure



MHQIBE

8,7" carbon steel
ratchet tool
(separately available)



HJ56I

10" carbon steel
ratchet tool
(separately available)



HJ43I

8,7" aluminium
ratchet tool
(separately available)



UT011

Wedge removal/flat tip screw driver combination tool

Tools for Deutsch

ASSAETOOL03

Complete kit consisting of 8,7" carbon steel tool MHQIBE and 6 die sets for open barrel Deutsch terminals: DSQIK1, DSQIK2, DSQIK3, DSQIK4, DSQIK5 and DSQIK6



ASSUTRT002

Deutsch terminal removal kit with wedge removal/flat tip screw driver combination tool and 6 terminal release tools for contact sizes 20, 16, 14, 12, 8 and 4 gauge



ASSAETOOL04

Complete kit, consisting of 8,7" carbon steel tool with die set for 0,5/1,5/4,0 mm² solid Deutsch terminals (2 indents), combination wedge removal tool/flat tip screw driver and 3 terminal release tools for contact sizes 20, 16 and 12 gauge

Deutsch connectors - DTM series



- Rectangular thermoplastic connector, resistant to most industrial fluids, available in 2, 3, 4, 6, 8 and 12 cavity configurations, with in-line, flange or PCB mounting options
- Accepts size 20 (7,5A) contacts for wire 22-16 AWG
- With silicone rubber grommets and interfacial seals providing excellent environmental sealing
- Integrated latches and wedgelocks to ensure secure mating and reliable terminal retention
- Temperature range: -55 °C ~ 125 °C continuous at rated current
- Insulation resistance: 1000 megohms minimum at 25 °C
- Dielectric withstanding voltage: current leakage < 2 mA at 1500 V



	Part nr.	Poles	Description	Wire range	MOQ
	DTM04-2P	2			100
	DTM04-3P	3			100
	DTM04-4P	4			100
	DTM04-6P	6			100
	DTM04-8P	8			100
	DTM04-12PA	12			100
	DTM06-2S	2			100
	DTM06-3S	3			100
	DTM06-4S	4			100
	DTM06-6S	6			100
	DTM06-8S	8			100
	DTM06-12SA	12			100
	1060-30-0122		Tab size Ø 1,0 mm	0,35-1,5 mm ² 22 - 16 AWG	100
	1062-30-0222		Tab size Ø 1,0 mm	0,35-1,5 mm ² 22 - 16 AWG	100
	0460-202-20141		Tab size Ø 1,0 mm	0,5 mm ² 20 AWG	100
	0462-201-20141		Tab size Ø 1,0 mm	0,5 mm ² 20 AWG	100
	DTMSEAL		Cavity plug		100

Tools for Deutsch DTM

Die sets

For quick interchangeable ratchet tools MHQIBE, HJ56I or HJ43I (separately available) **see our Tools & Assortment chapter (page 264-269)**

MHQIBE

8,7" carbon steel ratchet tool (separately available)

HJ56I

10" carbon steel ratchet tool (separately available)

HJ43I

8,7" aluminium ratchet tool (separately available)



DSQIK5

For open-barrel Deutsch terminals (DTM series) 0,5-1,0 mm²



DSQIKQ8

For solid Deutsch terminals (4 indents) 0,5-4,0 mm²
MIM procedure

Deutsch connectors - DTP series



- Rectangular thermoplastic connector, resistant to most industrial fluids, available in 2 and 4 cavity configurations, with in-line, flange or PCB mounting options
- Accepts size 12 (25A) contacts for wire 14-10 AWG
- With silicone rubber grommets and interfacial seals providing excellent environmental sealing
- Integrated latches and wedgelocks to ensure secure mating and reliable terminal retention
- Temperature range: -55 °C ~ 125 °C continuous at rated current
- Insulation resistance: 1000 megohms minimum at 25 °C
- Dielectric withstanding voltage: current leakage < 2 mA at 1500 V



Tools for Deutsch DTM

Die sets

For quick interchangeable ratchet tools MHQIBE, HJ56I or HJ43I (separately available) [see our Tools & Assortment chapter \(page 264-269\)](#)



DSQIK1
For open-barrel Deutsch terminals (DTP series)
2,0-4,0 mm²



DSQIK2
For open-barrel Deutsch terminals (DTP series)
5,0-6,0 mm²



DSQIKQ8
For solid Deutsch terminals
(4 indents) 0,5-4,0 mm²
MIM procedure



MHQIBE
8,7" carbon steel
ratchet tool
(separately available)

HJ56I
10" carbon steel
ratchet tool
(separately available)

HJ43I
8,7" aluminium
ratchet tool
(separately available)

	Part nr.	Poles	Description	Wire range	MOQ
Housing for male terminals 	DTP04-2P	2			100
	DTP04-4P	4			100
Housing for female terminals 	DTP06-2S	2			100
	DTP06-4S	4			100
Male terminal Open-barrel 	1060-40-0122		Tab size Ø 2,3 mm	4,0-6,0 mm² 12 - 10 AWG	100
Female terminal Open-barrel 	1062-40-0222		Tab size Ø 2,3 mm	4,0-6,0 mm² 12 - 10 AWG	100
Male terminal Solid 	0460-204-12141		Tab size Ø 2,3 mm	2,0-3,0 mm² 14 - 12 AWG	100
Female terminal Solid 	0462-203-12141		Tab size Ø 2,3 mm	2,0-3,0 mm² 14-12 AWG	100
Cavity plug 	DTSEAL		Cavity plug		100

Junior Power Timer connectors



- PA66 housing, resistant to most industrial fluids, available in 2, 3, 4, 5, 6 and 7 cavity configurations
- Accepts contacts for wire 14-20 AWG (0,5 - 2,5 mm²)
- Current range: 24V maximum operating voltage
- Temperature range: -30 °C ~ 125 °C (incl. the temperature increase due to working current flow)
- Degree of protection: IP54 according to IEC 529
- Insulation resistance: ≥ 10 megohms at 500V
- Dielectric withstanding voltage: ≥ 1000V
- Voltage drop: ≤ 3,0mV/amp

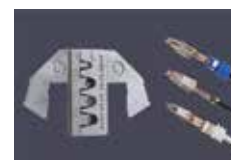


	Part nr.	Poles	Description	Wire range	MOQ
 Housing for male terminals	5251159	2	black		100
	5251161	3	black		100
	5251162	4	black		100
	5251163	6	black		100
	5251164	7	black		100
 Housing for female terminals	8286572	2	grey		100
	8286578	2	yellow		100
	8275515	2	blue		100
	8286573	2	black		100
	8260085	2	black (w/o 2nd locking)		100
 Housing for female terminals	8275781	3	black (w/o 2nd locking)		100
	5251912	4	black		100
	8275791	5	black		100
	5251913	6	black		100
	5251914	7	black (w/o 2nd locking)		100
 Male terminals	Terminal 10B		Tab size 2,8 x 0,8 mm	0,5 - 1,0 mm ²	100
	Terminal 8A		Tab size 2,8 x 0,8 mm	1,5 - 2,5 mm ²	100
 Female terminals	Terminal 11B		Tab size 2,8 x 0,8 mm	0,5 - 1,0 mm ²	100
	Terminal 9A		Tab size 2,8 x 0,8 mm	1,5 - 2,5 mm ²	100
 Wire seals	8289041		blue	Ø 1,2 - 2,1 mm	100
	8289051		white	Ø 2,2 - 3,0 mm	100
	8289221		clear cavity plug		100
 Covers	5251160	2	black		100
	8808112	3	black		100
	8808141	4	black		100
	8808142	5 or 6	black		100

Tools for Junior Power Timer

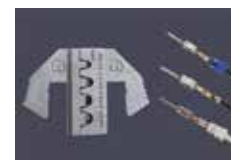
Die sets

For quick interchangeable ratchet tools MHQIBE, HJ56I or HJ43I (separately available) **see our Tools & Assortment chapter (page 264-269)**



DSQIL

For JPT receptacle terminals
0,2-0,5 mm² without seal
0,2-2,5 mm² with seal



DSQIL1

For JPT male terminals
0,5-2,5 mm² with and without seal

MHQIBE

8,7" carbon steel ratchet tool (separately available)

HJ56I

10" carbon steel ratchet tool (separately available)

HJ43I

8,7" aluminium ratchet tool (separately available)



VAG connectors - 1.5 Series



- Polybutylene terephthalate (PBT) housing
- 2, 3, 4, 6, 8, 10 and 14 cavity arrangements
- Protection: IP6K9K dust- and waterproof
- Centerline spacing: 4 mm



	Part nr.	Poles	Description	Wire range	MOQ
	HD022A-1.5-11	2	black		100
	HD032A-1.5-11	3	black		100
	HD042A-1.5-11	4	black		100
	HD062A-1.5-11	6	black		100
	HD082A-1.5-11	8	black		100
	HD102B-1.5-11	10	black		100
	HD142A-1.5-11	14	black		100
	HD022A-1.5-21	2	black		100
	HD032A-1.5-21	3	black		100
	HD042A-1.5-21	4	black		100
	HD062A-1.5-21	6	black		100
	HD082A-1.5-21	8	black		100
	HD102B-1.5-21	10	black		100
	HD142A-1.5-21	14	black		100
	DJ615B-1.5*0.8A		Tab size 1,6 x 0,6 mm	0,5 - 1,0 mm ²	100
	DJ623-E1.5A		Tab size 1,6 x 0,6 mm	0,5 - 1,0 mm ²	100
	HDX023		grey	Ø 1,4 - 1,9 mm	100

VAG connectors - 3.5 Series



- Polybutylene terephthalate (PBT) housing
- 2, 4, 6, 8, and 10 cavity arrangements
- Protection: IP6K9K dust- and waterproof
- Centerline spacing: 6 mm



	Part nr.	Poles	Description	Wire range	MOQ
	HD025A-3.5-11	2	black		100
	HD045A-3.5-11	4	black		100
	HD065A-3.5-11	6	black		100
	HD085B-3.5-11	8	black		100
	HD105A-3.5-11	10	black		100
	HD025A-3.5-21	2	black		100
	HD045A-3.5-21	4	black		100
	HD065A-3.5-21	6	black		100
	HD085B-3.5-21	8	black		100
	HD105A-3.5-21	10	black		100
	DJ615B-2.8*0.8B		Tab size 2,8 x 0,8 mm	1,5 - 2,5 mm ²	100
	DJ623-E3.5B		Tab size 2,8 x 0,8 mm	1,5 - 2,5 mm ²	100
	HDX001		blue	Ø 2,2 - 3,0 mm	100

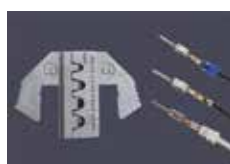
Tools for VAG

Die sets

For quick interchangeable ratchet tools MHQIBE, HJ56I or HJ43I (separately available) [see our Tools & Assortment chapter \(page 264-269\)](#)



DSQIL
For VAG receptacle terminals
0,2-0,5 mm² without seal
0,2-2,5 mm² with seal



DSQIL1
For VAG male terminals
0,5-2,5 mm² with and without seal

MHQIBE

8,7" carbon steel ratchet tool
(separately available)



HJ56I

10" carbon steel ratchet tool
(separately available)



HJ43I

8,7" aluminium ratchet tool
(separately available)



VAG015/1

115 pcs - 15 compartments

Wire seals:
25 x wire seal grey

Terminals:
25 x male 0,5 - 1,0 mm²
25 x female 0,5 - 1,0 mm²

Housing:
5 x 2 pole male housing
5 x 2 pole female housing
4 x 3 pole male housing
4 x 3 pole female housing

4 x 4 pole male housing
4 x 4 pole female housing
3 x 6 pole male housing
3 x 6 pole female housing
2 x 8 pole male housing
2 x 8 pole female housing
2 x 10 pole male housing
2 x 10 pole female housing

Box with euroslot hangtab

See content in our Tools & Assortment
chapter on page 286.



1.5 Series assortment

VAG035/1

95 pcs - 14 compartments

Wire seals:
25 x wire seal blue

Terminals:
25 x male 1,0 - 2,5 mm²
25 x female 1,0 - 2,5 mm²

Housing:
4 x 2 pole male housing
4 x 2 pole female housing
2 x 4 pole male housing
2 x 4 pole female housing

2 x 6 pole male housing
2 x 6 pole female housing
1 x 8 pole male housing
1 x 8 pole female housing
1 x 10 pole male housing
1 x 10 pole female housing

Box with euroslot hangtab

See content in our Tools & Assortment
chapter on page 286.



3.5 Series assortment

Multi-connectors - Female, for tabsize 6,3 x 0,8 mm



• Matching terminals:

02-005-ML-TA (tin plated) / 02-005-ML-ZA (natural)
 02-007-ML-TA (tin plated) / 02-007-ML-ZA (natural)
 02-009-ML-TA (tin plated) / 02-009-ML-ZA (natural)

0,5 - 1,0 mm²
 1,0 - 2,5 mm²
 2,5 - 6,0 mm²



HF-1*
1 pole



HF-3*
3 pole



HF-8*
8 pole



HF-1Z*
1 pole



HF-3Z*
3 pole



HF-8Z*
8 pole



HF-2*
2 pole



HF-4*
4 pole



HF-11*
11 pole



HF-2Z*
2 pole



HF-4Z*
4 pole



HF-11Z*
11 pole



HF-2T*
2 pole



HF-6*
6 pole



HF-2TZ*
2 pole



HF-6Z*
6 pole

HOUSING

* MOQ 100 pcs

Multi-connectors - Male, for tabsize 6,3 x 0,8 mm



• Matching terminals:

01-001-ML-TA (tin plated) / 01-001-ML-ZA (natural)
 01-002-ML-TA (tin plated) / 01-002-ML-ZA (natural)
 01-003-ML-TA (tin plated) / 01-003-ML-ZA (natural)

0,5 - 1,0 mm²
 1,0 - 2,5 mm²
 2,5 - 6,0 mm²



HM-1*
1 pole



HM-3*
3 pole



HM-8*
8 pole



HM-12*
1 pole



HM-32*
3 pole



HM-82*
8 pole



HM-2*
2 pole



HM-4*
4 pole



HM-11*
11 pole



HM-22*
2 pole



HM-42*
4 pole



HM-112*
11 pole



HM-2T*
2 pole



HM-6*
6 pole



HM-2TZ*
2 pole



HM-62*
6 pole

Multi-connectors - Female and male, for tabsize 2,8 x 0,5/0,8 mm

nylon

- Matching terminals: L8240-4050T (tin plated) / L8240-4050 (natural)
02-010-ML-TA (tin plated) / 02-010-ML-ZA (natural)
02-011-ML-TA (tin plated) / 02-011-ML-ZA (natural)
02-288-ML-TA (tin plated)

0,5 - 1,0 mm²
0,5 - 1,0 mm²
0,5 - 1,0 mm²
0,5 - 1,0 mm²



6040-2111*
2 poles



6040-3111*
3 poles



6040-4111*
4 poles



6040-6111*
6 poles



6040-9111*
9 poles

- Matching terminals: L1800-2097 (natural)
01-007-ML-TA (tin plated) / 01-007-ML-ZA (natural)

0,5 - 1,0 mm²
0,5 - 1,0 mm²



6030-2981*
2 poles



6030-3991*
3 poles



6030-4991*
4 poles



6030-6991*
6 poles



6030-9991*
9 poles

HOUSING

* MOQ 100 pcs

Insulation sleeves - For open-barrel terminals



020.010.660*
For non-insulated 6,3 x 0,8 mm
female disconnectors
(counterpart: 021.010.660)



021.010.660*
For non-insulated 6,3 x 0,8 mm
male disconnectors
(counterpart for 020.010.660)



606202-VL*
For non-insulated Ø 3,5/4,0 mm
female bullet disconnectors



606302-VL*
For non-insulated Ø 3,5/4,0 mm
male bullet disconnectors



011.101.663*
For non-insulated 6,3 x 0,8 mm
female disconnectors



PH-1051*
L 18,5 mm x W 13,8 mm
For non-insulated 6,3 x 0,8 mm
female flag disconnectors
(counterpart: 010.101.660)



PH-1023*
For non-insulated 6,3 x 0,8 mm
female disconnectors
L 22,4 mm x W 9,0 mm



PH-1052*
L 18,6 mm x W 12,6 mm
For non-insulated 6,3 x 0,8 mm
female flag disconnectors
(counterpart: 010.101.660)



PH-1026*
For non-insulated 6,3 x 0,8 mm
female disconnectors
L 22,4 mm x W 9,0 mm



011.101.660*
For non-insulated 6,3 x 0,8 mm
female disconnectors
(counterpart: 010.101.660)



PH-1060*
For non-insulated 6,3 x 0,8 mm
female disconnectors
L 22,5 mm x W 10,5 mm



010.101.660*
For non-insulated 6,3 x 0,8 mm
male disconnectors
(counterpart for PH-1051,
PH-1052 and 011.101.660)



PH-1061*
For non-insulated 6,3 x 0,8 mm
female disconnectors
L 22,5 mm x W 10,5 mm



PH-1062*
For non-insulated 6,3 x 0,8 mm
female disconnectors
L 22,5 mm x W 10,5 mm



HFK-1*
For non-insulated 6,3 x 0,8 mm
female disconnectors
L 22,4 mm x W 9,0 mm



Plugs & Sockets

Lighting

Battery

Cable Ties

Screws, Bolts & Nuts

Wire & Cable

Bundling & Protection

EV Products

Insulated Terminals

Non-insulated Terminals

Cord End Terminals

Housing

Fuses & Fuse Holders

Tools & Assortment Kits

Blade fuses - normOTO SBF1500 series



- Complies to RoHS, ISO 8820-3, JASO D612, SAE J1284 and other standards
- Robust one-piece construction with an optimized S + Ω fuse element design, and a high-temperature resistant color-coded transparent housing with integrated test points for reliability, easy inspection and testing
- Current rating marked on top using OCR font



Part nr.	Color	Rating (A)	Rating (V)
SBF1501P	black	1	32
SBF1502P	grey	2	32
SBF1503	violet	3	32
SBF1504	pink	4	32
SBF1505	tan	5	32
SBF1575	brown	7,5	32
SBF1510	red	10	32
SBF1515	blue	15	32
SBF1520	yellow	20	32
SBF1525	natural	25	32
SBF1530	green	30	32
SBF1535	dark green	35	32
SBF1540	orange	40	32

Blade fuses - normOTO SBF1800 series



- Complies with ISO 8820 specifications and is suitable for low-voltage applications up to 80V
- Robust construction with tin-plated copper blades, application-specific EU melting wire, and a self-extinguishing UL 94 V-0 housing reinforced with 25% glass fiber and OCR-marked current rating for reliability, easy inspection and testing
- Breaking capacity of 1000A at 80V

Part nr.	Color	Rating (A)	Rating (V)
SBF1801P	black	1	80
SBF1802P	grey	2	80
SBF1803	violet	3	80
SBF1804	pink	4	80
SBF1805	tan	5	80
SBF1875	brown	7,5	80
SBF1810	red	10	80
SBF1815	blue	15	80
SBF1820	yellow	20	80
SBF1825	natural	25	80
SBF1830	green	30	80
SBF1840	orange	40	80



Blade fuses - normOTO SBF1900 series ShoBlo



- Complies with SAE J1284 and other applicable industry standards
- Robust one-piece, color-coded transparent housing with temperature-resistant, self-extinguishing properties and integrated LED show-blow indication for reliability, easy inspection and testing

Part nr.	Color	Rating (A)	Rating (V)
SBF1903	violet	3	32
SBF1904	pink	4	32
SBF1905	tan	5	32
SBF1975	brown	7,5	32
SBF1910	red	10	32
SBF1915	blue	15	32
SBF1920	yellow	20	32
SBF1925	natural	25	32
SBF1930	green	30	32



normOTO assortments

HF020096HA

80 pcs - 8 compartments



10 x SBF1503 10 x SBF1515
 10 x SBF1505 10 x SBF1520
 10 x SBF1575 10 x SBF1525
 10 x SBF1510 10 x SBF1530

Box with euroslot hangtab

B1-F1000 10 pcs



1 x SBF1505 2 x SBF1520
 1 x SBF1575 1 x SBF1525
 2 x SBF1510 1 x SBF1530
 2 x SBF1515

B3-BF1000 7 pcs - blister

1 x SBF1505
 1 x SBF1575
 1 x SBF1510
 1 x SBF1515
 1 x SBF1520
 1 x SBF1525
 1 x SBF1530



FUSES &
HOLDERS

FH1120



FH1180



normOTO fuse holders - Opposed tabs



- Stackable PA66 housing for compact multi-position fuse holder assemblies
- Available with 6.3 mm in-line horizontal tab connections in open (FH1120) or enclosed (FH1180) versions

Part nr.	Description
FH1120	32V Holder with horizontal open tabs for SBF1500 and SBF1900 series up to 30A (1 position)
FH1180	32V Holder with horizontal enclosed tabs and integrated mounting brackets for SBF1500 and SBF1900 series up to 30A (1 position)

normOTO fuse holder - With clear cover



- Stackable PA66 GF30 holder with horizontal receptacle insertion and tin-plated fuse receptacles for 0.75–2.0 mm² wires
- Transparent clear cover provides secondary locking



Part nr.	Description
FH1130	80V Holder with clear cover for SBF1500, SBF1800 and SBF1900 series up to 40A (1 position)

normOTO fuse holder - Parallel tabs



- Robust PA66 GF30 housing with optional translucent white cover and mounting bracket
- Supports 6.3 mm parallel vertical tab connections (pre-assembled version)

Part nr.	Description
FH1110	80V Holder with vertical tabs for SBF1500, SBF1800 and SBF1900 series up to 40A (1 pos.)
FH1105	Translucent white cover for fuse holder FH1110 (optional)
FH1101	Body for fuse holder FH1110
CCX130FL	CuZn30, crimp Sn plated contact for fuse holder FH1110, wire range 1,0–2,5 mm ²
FH1154L	Mounting bracket

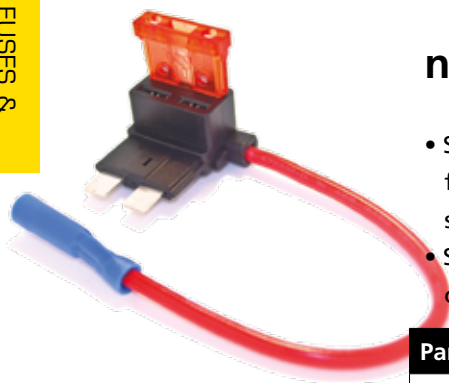


normOTO fuse holder - Circuit+



- Sturdy PA66 housing with UL 94 V-0 self-extinguishing properties and tin-plated CuZn fuse receptacles enables the quick addition of a protected circuit without cutting or splicing existing wiring
- Supplied with a 120 mm long 1.3 mm² (AWG 16) red cable and pre-installed blue butt connector for fast and easy installation

Part nr.	Description
FH1400	32V Circuit+ holder for SBF1500 and SBF1900 series up to 10A (2 pos.), 1,3 mm ² red cable



normOTO fuse holder - Quick splice



- Cost-effective solution for quick and easy installation without special tools
- Available for 0.5–1.0 mm² (CL 1.0-FUSE) or 0.75–2.5 mm² (CL 2.5-FUSE) cable

Part nr.	Description
CL 1.0-FUSE	Holder scotch lock type for SBF1500 and SBF1900 series up to 7A, direct crimp (1 position)
CL 2.5-FUSE	Holder scotch lock type for SBF1500 and SBF1900 series up to 15A, direct crimp (1 position)



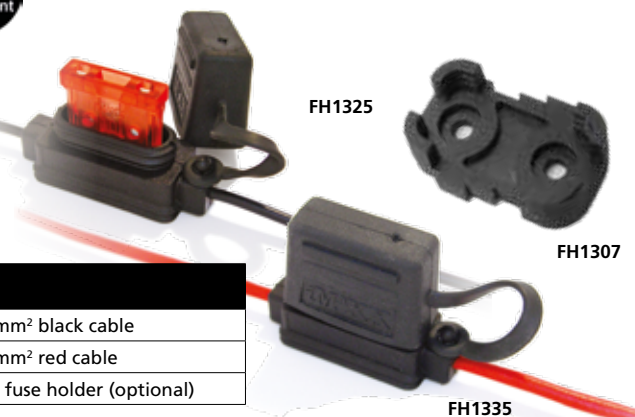
CL 2.5-FUSE

normOTO fuse holders - Cable ends



- Self-extinguishing, splash-proof IP56 design with protective cover, with an optional mounting bracket equipped with tin-plated CuZn33 box-type fuse receptacles
- Available with 1.5 mm² black or 2.5 mm² red cables, 235 mm in length on each side

Part nr.	Description
FH1325	32V Holder for SBF1500 and SBF1900 series up to 20A (1 position), 1,5 mm ² black cable
FH1335	32V Holder for SBF1500 and SBF1900 series up to 30A (1 position), 2,5 mm ² red cable
FH1307	Mounting bracket for FH1325 and FH1335, stackable, supplied without fuse holder (optional)



FH1325

FH1307

FH1335

FH1810-2x1



FH1810-2x4

normOTO fuse holders - PCB



- Durable PA66 GF15 housing with UL 94 V-0 flame-retardant rating
- Available in 2-pin (2x1) and 8-pin (2x4) configurations with KPH102 tin-plated fuse receptacles
- Guiding and locking pins for secure mounting on standard PCB hole patterns

Part nr.	Description
FH1810-2x1	80V Circuit board holder 2x1 pin for SBF1500, SBF1800 and SBF1900 series up to 40A (1 pos.)
FH1810-2x4	80V Circuit board holder 2x4 pin for SBF1500, SBF1800 and SBF1900 series up to 40A (1 pos.)

Normal blade fuse holder - LED indicator

- With LED indicator and protective cap
- Supplied with 2.5 mm² red cables, 110 mm in length on each side
- Max. electrical rating up to 30A at 32V

Part nr.	Description
FH365035	32V Holder for SBF1500 and SBF1900 series up to 30A (1 pos.), LED indicator, 2,5 mm ² red cable



normOTO fuse holders - Multi-position



FH1275 and FH1295

- Robust 6- and 8-position fuse holders with transparent cover and O-ring seal
- 6.3 mm vertical tab connector system designed for use with Faston terminals, featuring 2 inputs and 2 outputs per fuse position and clearly marked, keyed locations (FH1275: 1-6 / A-F; FH1295: 1-8 / A-H)
- Optional secondary terminal lock (for FH1295) and jumper available

Part nr.	Description
FH1275	80V Holder with clear cover and O-ring seal for SBF1500, SBF1800 and SBF1900 series up to 40A (6 pos.)
FH1281	Connector key 1, pos 1-2/A-B for use with FH1275
FH1282	Connector key 2, pos 3-4/C-D for use with FH1275
FH1283	Connector key 3, pos 5-6/E-F for use with FH1275
FH1295	80V Holder with clear cover and O-ring seal for SBF1500, SBF1800 and SBF1900 series up to 40A (8 pos.)
FH1281PL	Connector key 1, pos 1-2/A-B for use with FH1295
FH1282PL	Connector key 2, pos 3-4/C-D for use with FH1295
FH1283PL	Connector key 3, pos 5-6/E-F for use with FH1295
FH1284PL	Connector key 4, pos 7-8/G-H for use with FH1295
FH1291	Jumper for use with FH1275 and FH1295 (for easy bus-bar interconnects)
FH1292	Secondary lock for use with FH1295



FH1281 Position 1-2/A-B
FH1282 Position 3-4/C-D
FH1283 Position 5-6/E-F

FH1281PL Position 1-2/A-B
FH1282PL Position 3-4/C-D
FH1283PL Position 5-6/E-F
FH1284PL Position 7-8/G-H



FH1295

FH1291

H1292



K324 and K326

- 6,3 mm horizontal tabs, 1-in, 1-out per fuse position
- Lockable cover with screw closure
- Max. electrical rating 40A - 32V

Part nr.	Description
K324	Four-position holder with clear cover for SBF1500 and SBF1900 series up to 40A
K326	Six-position holder with clear cover for SBF1500 and SBF1900 series up to 40A

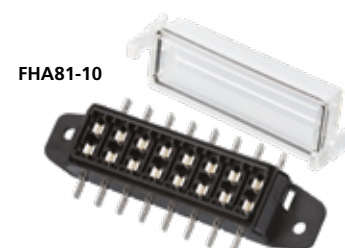
FHA40-10, FHA610-10, FHA60-10, FHA600-10 and FHA81-10

- Available with 6.3 mm vertical (FHA40-10, FHA60-10) or horizontal (FHA610-10, FHA600-10, FHA81-10) tab connections
- With lockable cover with rubber seal for enhanced protection against dust and moisture

Part nr.	Description
FHA40-10	Four-position holder with clear cover for SBF1500 and SBF1900 series, vertical
FHA60-10	Six-position holder with clear cover for SBF1500 and SBF1900 series, vertical
FHA610-10	Four-position holder with clear cover for SBF1500 and SBF1900 series, horizontal
FHA600-10	Six-position holder with clear cover for SBF1500 and SBF1900 series, horizontal
FHA81-10	Eight-position holder with clear cover for SBF1500 and SBF1900 series, horizontal



FHA60-10



FHA81-10

Blade fuses - miniOTO BF7000 series

REACH
& RoHS
compliant

- Complies with ISO 8820-3, JASO D612, SAE J2077, and other international standards
- Robust one-piece construction with optimized S + Ω fuse element, a high-temperature resistant color-coded transparent housing and integrated test points for reliability, easy inspection and testing
- Current rating marked on top using OCR font

Part nr.	Color	Rating (A)	Rating (V)
BF7001P	black	1	32
BF7002P	grey	2	32
BF7003	violet	3	32
BF7004	pink	4	32
BF7005	tan	5	32
BF7075	brown	7,5	32
BF7010	red	10	32
BF7015	blue	15	32
BF7020	yellow	20	32
BF7025	natural	25	32
BF7030	green	30	32



Blade fuses - miniOTO SBF7900 series ShoBlo

REACH
& RoHS
compliant

- Complies with JASO D612, SAE J2077, and other applicable industry standards
- Robust one-piece construction with a temperature-resistant color-coded transparent housing and integrated Sho-Blo LED indicator for reliability, easy inspection and testing

Part nr.	Color	Rating (A)	Rating (V)
SBF7902	grey	2	32
SBF7903	violet	3	32
SBF7904	pink	4	32
SBF7905	tan	5	32
SBF7975	brown	7,5	32
SBF7910	red	10	32
SBF7915	blue	15	32
SBF7920	yellow	20	32
SBF7925	natural	25	32
SBF7930	green	30	32



miniOTO assortments

HF030096HA

200 pcs - 8 compartments



10 x BF7003 30 x BF7015
 30 x BF7005 30 x BF7020
 30 x BF7075 20 x BF7025
 30 x BF7010 20 x BF7030

Box with euroslot hangtab

B1-F7000

10 pcs

1 x BF7005
 1 x BF7075
 2 x BF7010
 2 x BF7015
 2 x BF7020
 1 x BF7025
 1 x BF7030



B3-BF7000

7 pcs - blister

1 x BF7005
 1 x BF7075
 1 x BF7010
 1 x BF7015
 1 x BF7020
 1 x BF7025
 1 x BF7030

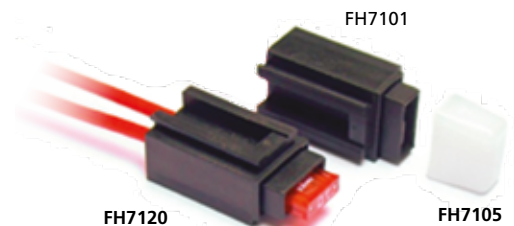


miniOTO fuse holders - Cable ends



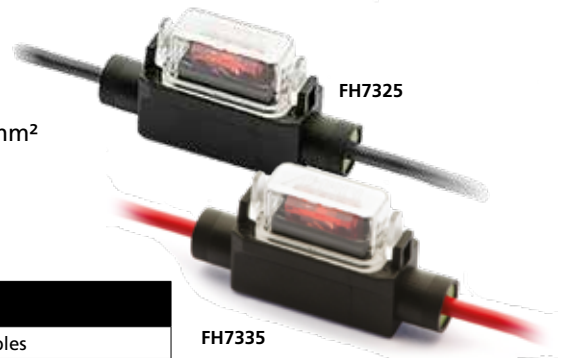
FH7120

- Durable UL 94 V-0 housing with CuSn4 fuse receptacles and pre-installed 2.5 mm² cables (130 mm each side), with optional steel mounting bracket and cover for splash-proof protection
- Stackable design enables the creation of compact multi-position fuse holder assemblies



FH7325 and FH7335

- Robust PA6 GF30 housing with transparent IP56 PC O-ring sealed cover, tin-plated CuZn33 spring-clamp fuse receptacles, and pre-installed 1.5 mm² or 2.5 mm² cables (130 mm each side)

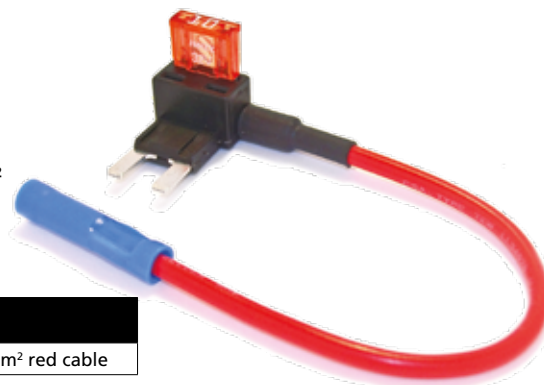


Part nr.	Description
FH7120	58V Holder for BF7000 and SBF7900 series up to 30A (1 position), 2,5 mm ² red cables
FH7105	Translucent white cover for FH7120, PP
FH7101	Body for FH7120, PA6 GF30
FH7325	32V Holder with cover for BF7000 and SBF7900 series up to 30A (1 position), 1,5 mm ² black cable
FH7335	32V Holder with cover for BF7000 and SBF7900 series up to 30A (1 position), 2,5 mm ² red cable

miniOTO fuse holder - Circuit+

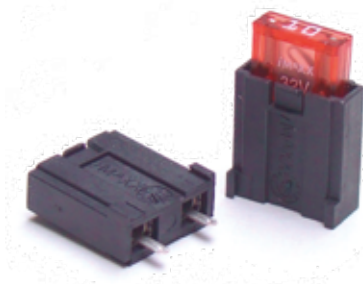


- Sturdy UL 94 V-0 flame-retardant PA66 holder for quick addition of a protected circuit without cutting or splicing existing wiring
- Equipped with tin-plated CuZn fuse receptacles, a 120 mm long 1.3 mm² (AWG 16) red cable, and a pre-installed blue butt connector



Part nr.	Description
FH7400	32V Circuit+ holder for BF7000 and SBF7900 series up to 10A (2 positions), 1,3 mm ² red cable

miniOTO fuse holder - PCB



- Durable UL 94 V-0 flame-retardant PET GF33 housing with 2-pin CuSn tin-plated fuse receptacles and integrated contact springs
- Stackable 6.0 mm pitch design for compact multi-position assemblies with PCB compatible mounting (1.5 mm holes, 8.0 mm spacing)

Part nr.	Description
FH7810	58V Circuit board holder 2x1 pin for BF7000 and SBF7900 series up to 30A (1 position)

Mini blade fuse holder - LED indicator



- Supplied with pre-installed 2.5 mm² red cables (110 mm each side), an integrated LED ShoBlo indicator and a protective cap for easy installation, enhanced protection, and quick blown-fuse identification
- Rated for applications up to 30A at 32V



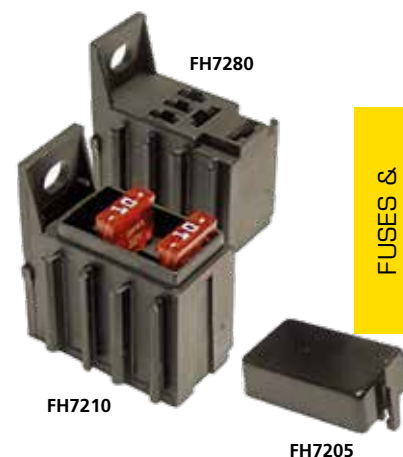
Part nr.	Description
FH365025	32V Holder for BF7000 and SBF7900 series up to 30A (1 position), LED indicator, 2,5 mm ² red cable

miniOTO fuse holder - Four-position



- Compatible with Lear and Tyco fuse and relay receptacles, featuring vertical receptacle insertion for simplified assembly
- Robust 4-position holder with integrated mounting bracket, optional protective cover, and ISO 7588-3 compliant contact layout
- Stackable design enables easy expansion and integration with FH7280 micro relay modules (3 x 4.8 mm / 2 x 6.3 mm)

Part nr.	Description
FH7210	58V Holder for BF7000 and SBF7900 series up to 30A (4 positions)
FH7205	black cover for use with FH7210
FH7280	ISO 7588-3 micro relay module (3 x 4,8 mm + 2 x 6,3 mm)



Blade fuses - miniOTO Low Profile BFLP7000 series



- Complies with ISO 8820-9, JASO, and other international standards
- Integrated test points and semi-transparent, color-coded housing for quick testing and inspection
- Robust one-piece construction with silver-plated blades for enhanced reliability, conductivity and blade rigidity
- Rated for 58V applications (OCR-marked) and widely used in Japanese, American, European, and Korean vehicles

Part nr.	Color	Rating (A)	Rating (V)
BFLP7002	grey	2	58
BFLP7003	violet	3	58
BFLP7004	pink	4	58
BFLP7005	tan	5	58
BFLP7075	brown	7,5	58
BFLP7010	red	10	58
BFLP7015	blue	15	58
BFLP7020	yellow	20	58
BFLP7025	natural	25	58
BFLP7030	green	30	58



miniOTO Low Profile assortments

B1-FLP7000 10 pcs



1 x BFLP7005
1 x BFLP7075
2 x BFLP7010
2 x BFLP7015
2 x BFLP7020
1 x BFLP7025
1 x BFLP7030

HF350071HA 186 pcs - 8 compartments

1 x fuse puller AT1000P

15 x BFLP7005
25 x BFLP7075
40 x BFLP7010
40 x BFLP7015
25 x BFLP7020
15 x BFLP7025
25 x BFLP7030



Box with euroslot hangtab

B3-BFLP7000 7 pcs - blister

1 x BFLP7005
1 x BFLP7075
1 x BFLP7010
1 x BFLP7015
1 x BFLP7020
1 x BFLP7025
1 x BFLP7030



miniOTO Low Profile fuse holders - Cable ends

- CuSn fuse receptacles with pre-installed 1.5 mm² or 2.5 mm² cables (135 mm each side)
- Transparent IP56-sealed cover with integrated cable and O-ring seals

Part nr.	Description
FHLP7325	58V Holder with cover for BFLP7000 series 3A-20A (1 position), 1,5 mm ² black cable
FHLP7335	58V Holder with cover for BFLP7000 series 3A-30A (1 position), 2,5 mm ² red cable



miniOTO Low Profile fuse holders - Circuit+



- UL 94 V-0 flame-retardant PA66 holder for quick circuit addition without cutting or splicing existing wiring
- Pre-assembled with 1.3 mm² cable (120 mm), butt connector, and tin-plated CuZn receptacles

Part nr.	Description
FHLP7400	58V Circuit+ holder for BFLP7000 series 3A-15A (2 positions), 1,3 mm ² red cable

Blade fuses - mikrOTO II BF2000 and mikrOTO III BF3000 series



- Complies with ISO 8820-12 (BF2000 series) and ISO 8820-13 (BF3000 series)
- Integrated test points and semi-transparent, color-coded housing for quick testing and inspection
- Robust one-piece construction with silver-plated blades for enhanced reliability, conductivity and blade rigidity
- Rated at 32 Volt, marked on top using OCR font
- Primarily used in North American vehicle application



Part nr.	Color	Rating (A)	Rating (V)
BF2003	violet	3	32
BF2004	pink	4	32
BF2005	tan	5	32
BF2075	brown	7,5	32
BF2010	red	10	32
BF2015	blue	15	32
BF2020	yellow	20	32
BF2025	natural	25	32
BF2030	green	30	32

Part nr.	Color	Rating (A)	Rating (V)
BF3005	tan	5	32
BF3075	brown	7,5	32
BF3010	red	10	32
BF3015	blue	15	32



mikrOTO II assortments

B3-BF2000 7 pcs - blister

1 x BF2005
1 x BF2075
1 x BF2010
1 x BF2015
1 x BF2020
1 x BF2025
1 x BF2030



HF510071HA 76 pcs - 8 compartments

1 x fuse puller AT1000P

5 x BF2005 15 x BF2015
5 x BF2075 15 x BF2020
15 x BF2010 10 x BF2025
10 x BF2030

Box with euroslot hangtab





mikrOTO II fuse holder - Circuit+



- UL 94 V-0 flame-retardant PA66 holder that enables the quick addition of a protected circuit without cutting or splicing existing wiring
- Supplied with 1,3 mm² (AWG 16) red cable (120 mm length), with blue butt connector, and tin-plated CuZn fuse receptacles

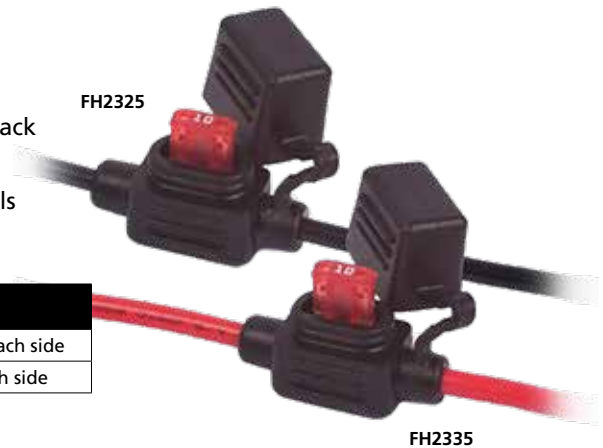
Part nr.	Description
FH2400	32V Circuit+ holder for BF2000 series up to 25A (2 positions), 1,3 mm ² red cable

mikrOTO II fuse holder - Cable ends



- Complies with ISO 8820-12
- Supplied with tin-plated CuZn fuse receptacles and pre-installed 2,0 mm² black or 3,3 mm² red cable (135 mm each side)
- Splash-proof IP54 design with self-extinguishing housing and cover materials

Part nr.	Description
FH2325	32V Holder for BF2000 series up to 20A (1 position), 2,0 mm ² black cable, 135 mm each side
FH2335	32V Holder for BF2000 series up to 30A (1 position) 3,3 mm ² red cable, 135 mm each side

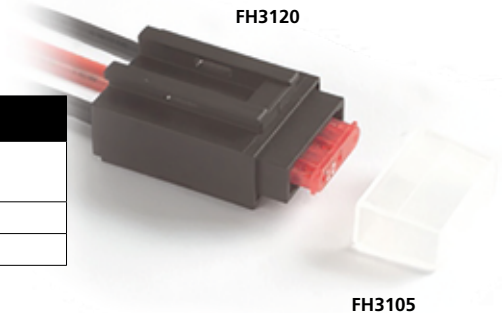


mikrOTO III fuse holder - Cable ends



- Equipped with CuSn4 fuse receptacles and pre-installed 2.5 mm² red and 1.5 mm² black cables 130mm each
- Stackable design enables compact multi-position fuse holder assemblies
- Durable UL 94 V-0 housing with optional cover for splash-proof protection

Part nr.	Description
FH3120	32V Holder for BF3000 series up to 15A (1 position), 1 x 2,5 mm ² red cable and 2 x 1,5 mm ² black cable
FH3105	Translucent white PP cover for FH3120
FH3101	Body for FH3120, PA6 GF30



Blade fuses - maxiOTO BF9000 series



- Complies with ISO 8820-3, SAE J1888, and other international standards
- Transparent, color-coded housing with integrated semi-protected test points and dual-direction OCR-marked rating
- Robust one-piece construction with optimized time-delayed fuse element for reliable circuit protection
- High-temperature resistant body and self-extinguishing housing for enhanced safety and durability

Part nr.	Color	Rating (A)	Rating (V)
BF9020	yellow	20	32
BF9025	grey	25	32
BF9030	green	30	32
BF9040	orange	40	32
BF9050	red	50	32
BF9060	blue	60	32
BF9070	brown	70	32
BF9080	natural	80	32
BF9100	violet	100	32



maxiOTO assortment

HF040024HA
20 pcs - 8 compartments

2 x BF9020
3 x BF9030
3 x BF9040
3 x BF9050
3 x BF9060
2 x BF9070
2 x BF9080
2 x BF9100



Box with euroslot hangtab

Blade fuses - maxiOTO compact BF9000-63 series



- Complies with ISO 8820-10
- Semi-transparent, color-coded housing with integrated test points and OCR-marked rating
- Robust one-piece construction with optimized fuse element for reliable time-delayed protection
- High-temperature resistant PA66 housing (UL 94 V-2) with silver-plated blades for enhanced durability and conductivity

Part nr.	Color	Rating (A)	Rating (V)
BF9020-63	yellow	20	32
BF9025-63	grey	25	32
BF9030-63	green	30	32
BF9035-63	light green	35	32
BF9040-63	orange	40	32
BF9050-63	red	50	32
BF9060-63	blue	60	32



FUSES & HOLDERS

maxiOTO fuse holders - Screw connect



- Robust ring terminal screw connections for 2,5 - 10 mm² cable
- Durable UL 94 V-0 flame-retardant PA66 GF25 housing with optional transparent cover
- Stackable design for compact multi-position fuse holder assemblies



Part nr.	Description
FH9120	58V Holder for BF9000 series up to 100A (1 position) PA66 body, screw connect (M5 screws installed)
FH9105	Cover for use with FH9120
FH9100	Set of holder FH9120 and cover FH9105 (packed in bag)

maxiOTO fuse holder - Splash waterproof



- Durable UL 94 V-0 self-extinguishing PA66 GF35 housing with optional transparent cover, contacts and seal for splash-proof protection
- Equipped with CuSiNi fuse receptacles for tin-plated 4.0-10 mm² contacts (TE-MPT)
- Mountable and stackable design (2 x Ø 4,3 mm holes) with vertical receptacle insertion for flexible multi-position assemblies



Part nr.	Description
FH93004.0	58V Holder for BF9000 series up to 100A (1 position), wire size 4,0~6,0 mm ² (complete set in plastic box)
FH9315-A	58V Holder for BF9000 series up to 100A (1 position), wire size 4,0~6,0 mm ² (10 complete sets in plastic bag)
FH9310.0	58V Holder for BF9000 series up to 100A (1 position), wire size 6,0~10,0 mm ² (complete set in plastic box)
FH9315-B	58V Holder for BF9000 series up to 100A (1 position), wire size 6,0~10,0 mm ² (10 complete sets in plastic bag)
FH9301	Body, 1 position, PA66 GF35, UL 94 V-0, black
FH9305	Cover with integrated NBR seal, 1 position, clear PC
CCS930FL	Contact 4,0~6,0 mm ² , nickel plated brass, use with blue seal
CCS931FL	Contact 6,0~10,0 mm ² , nickel plated brass, use with grey seal
S183548	Blue seal for cable 2,5~6,0 mm ² , silicone, Ø 3,1 mm
S184862	Grey seal for cable 6,0~10,0 mm ² , silicone, Ø 4,4 mm



maxiOTO fuse holders - PCB



- Durable UL 94 V-0 flame-retardant PA66 housing with 20-pin (2×10) CuZn tin-plated fuse receptacles
- PCB-compatible design with 1.75 mm mounting holes

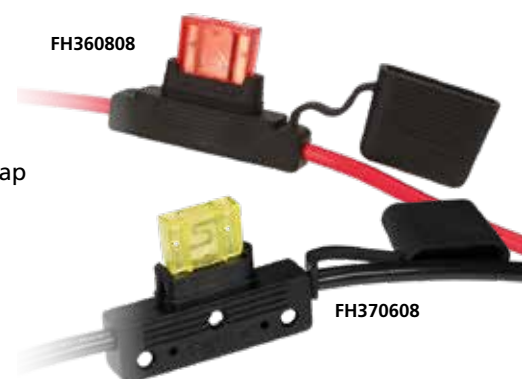
Part nr.	Description
FH9810-2x10	42V Circuit board holder 2x10 pin for BF9000 series up to 70A (1 position)

Maxi blade fuse holders - Cable ends



- Supplied with pre-installed 8 mm² red or 10 mm² black cables (200 mm each side)
- Water-resistant PBT (FH360808) or bakelite (FH370608) housing with PVC protective cap
- Rated up to 60A (FH360808) or 100A (FH370608) at 32V

Part nr.	Description
FH360808	32V Holder for BF9000 series up to 60A (1 position), PBT body, 8 mm ² red cable
FH370608	32V Holder for BF9000 series up to 100A (1 position), bakelite body, 10 mm ² black cable



Maxi blade fuse holder - LED indicator



- Integrated LED indicator for quick blown-fuse identification
- Supplied with pre-installed 8 mm² red cables (110 mm) and a protective cap
- Rated up to 60A at 32V

Part nr.	Description
FH365708	32V Holder for BF9000 series (1 position) up to 60A, LED indicator, 8 mm ² red cable

HF110278BC

279 pcs - 19 compartments

Fuse holders:

2 x FH1120
1 x FH1335
1 x FH7315
1 x FH9120
1 x FH9105

NormOTO blade fuses:

15 x SBF1575
30 x SBF1510
30 x SBF1515
25 x SBF1520
20 x SBF1525
25 x SBF1530

MiniOTO blade fuses:

8 x BF7075
25 x BF7010
25 x BF7015
25 x BF7020
10 x BF7025
10 x BF7030

MaxiOTO blade fuses:

3 x BF9030
3 x BF9040
8 x BF9050
8 x BF9060
3 x BF9070

See content in our Tools & Assortment
chapter on page 287.

Professional kit



Blade fuse assortment with holders

Tools for blade fuses
AT1000P

- Red twin puller for normOTO and miniOTO blade fuses
- Polypropylene (PP) material
- Dimensions 44,6 x 10,9 x 9,8 mm

T9000P

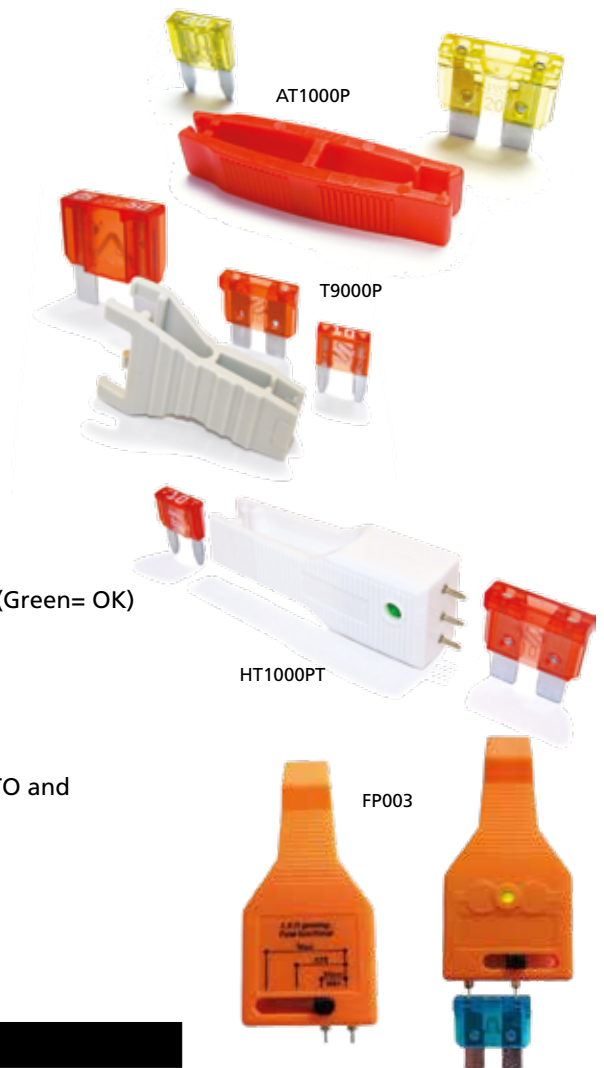
- Grey triple puller for maxiOTO, normOTO and miniOTO blade fuses
- Thermoplastic housing with UL 94 V-0 flame-retardant
- Dimensions 41,3 x 24,5 mm

HT1000PT

- White twin puller and tester for normOTO and miniOTO blade fuses
- Tests fuses in or out of the fuse box with green LED status indication (Green= OK)
- Dimensions 55 x 20 x 16 mm

FP003

- Adjustable orange 4-in-1 fuse tester and puller for maxiOTO, normOTO and miniOTO/miniOTO Low Profile fuses
- Green LED status indication (Green = OK)
- Dimensions 70 x 32 mm



Part nr.	Description
AT1000P	Red fuse puller for normOTO en miniOTO blade fuses, red
T9000P	Grey fuse puller for miniOTO, normOTO en maxiOTO blade fuses
HT1000PT	White fuse puller miniOTO and normOTO blade fuses, tester for normOTO blade fuses
FP003	Adjustable orange fuse puller/tester with LED indicator, for maxiOTO, normOTO and miniOTO/miniOTO Low Profile blade fuses



Automotive Circuit Breakers - Mini series

REACH
& RoHS
compliant

- Color-coded plastic cover
- Compatible with mini fuse holders and compliant with SAE J553 and ISO 10924-3
- Breaking capacity up to: 2000A at 32V
- Operating temperature: -40°C ~ 85°C
- Storage temperature: -40°C ~ 125°C

Automatic reset*			
Part nr.	Color	Rating (A)	Rating (V)
ACBAT0514V1	tan	5	28
ACBAT7514V1	brown	7,5	28
ACBAT1014V1	red	10	28
ACBAT1514V1	blue	15	28
ACBAT2014V1	yellow	20	14
ACBAT2514V1	natural	25	14
ACBAT3014V1	green	30	14



Automotive Circuit Breakers - Normal series

REACH
& RoHS
compliant

- Ignition-protected design with color-coded UL 94 V-0 thermoplastic housing and tin-plated copper alloy terminals
- Compatible with standard fuse holders and compliant with SAE J553, ISO 10924-4, UL 1500, and SAE J1171
- Breaking capacity up to: 2000A at 32V
- Operating temperature: -40 °C ~ 85 °C
- Storage temperature: -40 °C ~ 185 °C

Manual reset**			
Part nr.	Color	Rating (A)	Rating (V)
ACBMN0528V	tan	5	32
ACBMN7528V	brown	7,5	32
ACBMN1028V	red	10	32
ACBMN1528V	blue	15	32
ACBMN2028V	yellow	20	32
ACBMN2528V	natural	25	32
ACBMN3028V	green	30	32



* Automatic reset

Once the breaker detects overload or short circuit conditions, it will trip to disconnect the circuit. It will reset itself in a few seconds.

** Manual reset

Once the breaker detects overload or short circuit conditions, it will trip to disconnect the circuit. If you want to reset the circuit, you need to push the reset button.

Cartridge SloBlo fuses - japOTO AS, E, ES and ET series



- Complies with ISO 8820-4, JASO D612, and other international standards, widely used in Japanese, European, American and Korean designed vehicles
- Robust construction with integrated copper-alloy receptacles, optimized time-delayed fuse element and transparent cover for easy visual inspection of the fuse element
- High-temperature resistant, self-extinguishing, color-coded fuses



AS series

Part nr.	Color	Rating (A)	Rating (V)
CBF020AS	light blue	20	32
CBF030AS	pink	30	32
CBF040AS	green	40	32
CBF050AS	red	50	32
CBF060AS	yellow	60	32

E series

Part nr.	Color	Rating (A)	Rating (V)
CBF045E	red	45	32
CBF065E	black	65	32
CBF075E	grey	75	32



ES series

Part nr.	Color	Rating (A)	Rating (V)
CBF050ES	red	50	32
CBF060ES	yellow	60	32
CBF080ES	black	80	32



ET series

Part nr.	Color	Rating (A)	Rating (V)
CBF050ET	red	50	58
CBF060ET	yellow	60	58
CBF070ET	brown	70	58
CBF080ET	black	80	58
CBF100ET	blue	100	58
CBF125ET	pink	125	58
CBF150ET	grey	150	58



Cartridge SloBlo fuses - japOTO B series



- Complies with ISO 8820-4, JASO D612, and other international standards, widely used in Japanese, European, American and Korean designed vehicles
- Robust construction with integrated copper-alloy blades, optimized time-delayed fuse element and transparent cover for easy visual inspection of the fuse element
- High-temperature resistant, self-extinguishing, color-coded housing



Part nr.	Color	Rating (A)	Rating (V)
CBF030B	pink	30	32
CBF040B	green	40	32
CBF050B	red	50	32
CBF060B	yellow	60	32
CBF070B	brown	70	32
CBF080B	black	80	32
CBF100B	blue	100	32
CBF120B	white	120	32
CBF140B	dark red	140	32

Cartridge SloBlo fuses - japOTO C and CS series



- Complies with ISO 8820-4, JASO D612, and other international standards, widely used in Japanese, European, American and Korean designed vehicles
- Robust construction with integrated copper-alloy blades, optimized time-delayed fuse element and transparent cover for easy visual inspection of the fuse element
- High-temperature resistant, self-extinguishing, color-coded housing

C series			
Part nr.	Color	Rating (A)	Rating (V)
CBF030C	pink	30	32
CBF040C	green	40	32
CBF050C	red	50	32
CBF060C	yellow	60	32
CBF070C	brown	70	32
CBF080C	black	80	32
CBF100C	blue	100	32
CBF120C	white	120	32



CS series			
Part nr.	Color	Rating (A)	Rating (V)
CBF030CS	pink	30	32
CBF040CS	green	40	32
CBF050CS	red	50	32
CBF060CS	yellow	60	32
CBF070CS	brown	70	32
CBF080CS	black	80	32
CBF100CS	blue	100	32
CBF120CS	white	120	32
CBF140CS	dark red	140	32



Cartridge SloBlo fuses - japOTO D series



- Complies with JASO D612 and other international standards, widely used in Japanese, European, American and Korean designed vehicles
- Robust construction with integrated copper-alloy blades, optimized time-delayed fuse element and transparent cover for easy visual inspection of the fuse element
- High-temperature resistant, self-extinguishing, color-coded housing

Part nr.	Color	Rating (A)	Rating (V)
CBF025D	brown	25	32
CBF030D	green	30	32



Cartridge SloBlo fuses - japOTO J, JLP, JM and JMS series



- Complies with ISO 8820-4, JASO D612, and other international standards, widely used in Japanese, European, American and Korean designed vehicles
- Robust construction with integrated copper-alloy blades, optimized time-delayed fuse element and transparent cover for easy visual inspection of the fuse element
- High-temperature resistant, self-extinguishing, color-coded housing

J series			
Part nr.	Color	Rating (A)	Rating (V)
CBF020J	light blue	20	32
CBF025J	white	25	32
CBF030J	pink	30	32
CBF040J	green	40	32
CBF050J	red	50	32
CBF060J	yellow	60	32

JLP series			
Part nr.	Color	Rating (A)	Rating (V)
CBF020JLP	light blue	20	58
CBF025JLP	white	25	58
CBF030JLP	pink	30	58
CBF040JLP	green	40	58
CBF050JLP	red	50	58
CBF060JLP	yellow	60	58

JM series			
Part nr.	Color	Rating (A)	Rating (V)
CBF015JM	grey	15	32
CBF020JM	light blue	20	32
CBF025JM	white	25	32
CBF030JM	pink	30	32
CBF040JM	green	40	32

JMS series			
Part nr.	Color	Rating (A)	Rating (V)
CBF015JMS	grey	15	32
CBF020JMS	light blue	20	32
CBF025JMS	white	25	32
CBF030JMS	pink	30	32
CBF040JMS	green	40	32
CBF050JMS	red	50	32
CBF060JMS	yellow	60	32

J series



JLP series



JM series



JMS series



Bolt-on fuses - midiOTO series OBFMD (32V)



- Complies with ISO 8820-5 standards
- Transparent, color-coded, heat- and chemical-resistant PA66/PSU housing with rigid tin-plated copper alloy blades, marked with amperage rating
- M5 connection holes for 25–125A and M6 connection holes for 150–200A, both with 30 mm spacing
- Maximum torque 4.5 Nm ± 1 Nm



Part nr. M5 holes	Part nr. M6 holes	Color	Rating (A)	Rating (V)
OBFMD025		black	25	32
OBFMD030		orange	30	32
OBFMD040		green	40	32
OBFMD050		red	50	32
OBFMD060		yellow	60	32
OBFMD070		brown	70	32
OBFMD080		white	80	32
OBFMD100		blue	100	32
OBFMD125		pink	125	32
	OBFMD150	grey	150	32
	OBFMD175	tan	175	32
	OBFMD200	violet	200	32

Bolt-on fuses - midiOTO series OBFMD(P) (58V)



- Complies with ISO 8820-5, JASO D612, and other international standards
- Color-coded, heat & chemical resistant, PA66 housing marked with amperage rating, rigid tin-plated copper alloy blades, with viewing window for easy fuse inspection
- M5 connection holes (30–125A) or M6 connection holes (30–200A), both with 30 mm spacing
- Maximum torque 4.5Nm ± 1 Nm

Part nr. M5 holes	Part nr. M6 holes	Color	Rating (A)	Rating (V)
OBFMDP030	OBFMD030M6	orange	30	58
OBFMDP040	OBFMD040M6	green	40	58
OBFMDP050	OBFMD050M6	red	50	58
OBFMDP060	OBFMD060M6	yellow	60	58
OBFMDP070	OBFMD070M6	brown	70	58
OBFMDP080	OBFMD080M6	white	80	58
OBFMDP100	OBFMD100M6	blue	100	58
OBFMDP125	OBFMD125M6	pink	125	58
OBFMDP150	OBFMD150M6	grey	150	58
	OBFMD175M6	tan	175	58
OBFMDP200	OBFMD200M6	violet	200	58



Bolt-on fuses - AE.MEGA.CAL series (32V)



- High current fuse with special triggering characteristics for Renault, Peugeot, Citroën and Fiat, among others
- The fuses can be installed between the battery and the starter or alternator
- M8 connection holes with 50,8 mm spacing

Part nr.	Color	Rating (A)	Rating (V)	Holes
AE.MEGA.CAL1	grey	400-1000	32	M8
AE.MEGA.CAL2	black	400-1200	32	M8
AE.MEGA.CAL3	red	500-1200	32	M8
AE.MEGA.CAL4	brown	600-1200	32	M8
AE.MEGA.CAL5	dark grey	700-1200	32	M8



Bolt-on fuses - mitoxOTO series OBFMTX (70V)



- ISO 20934 color-coded design for OEM 70V applications
- Heat- and chemical-resistant housing with notch for correct orientation, OCR-marked rating and rigid tin-plated copper blades with amperage indication
- Larger pitch prevents incorrect fuse installation or interchangeability
- M6 connection holes with 36 mm spacing
- Breaking capacity up to 2500A at 70V
- Maximum torque 6 Nm $\pm$ 1 Nm

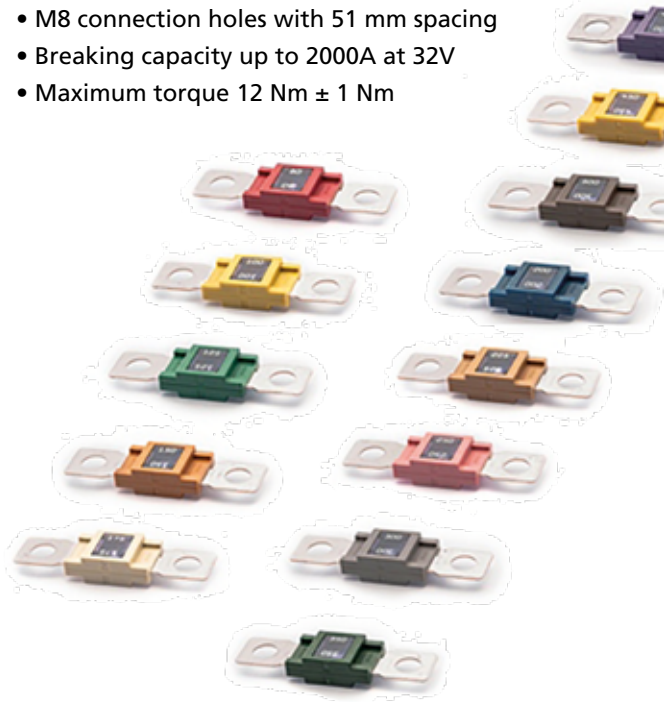
Part nr.	Color	Rating (A)	Rating (V)	Holes
OBFMTX030	orange	30	70	M6
OBFMTX040	green	40	70	M6
OBFMTX050	red	50	70	M6
OBFMTX060	yellow	60	70	M6
OBFMTX070	brown	70	70	M6
OBFMTX080	white	80	70	M6
OBFMTX100	blue	100	70	M6
OBFMTX125	pink	125	70	M6
OBFMTX150	grey	150	70	M6
OBFMTX175	tan	175	70	M6
OBFMTX200	violet	200	70	M6



Bolt-on fuses - megaOTO series OBFMG (32V)



- Complies with ISO 8820-5, JASO D612, and other international standards
- Diffusion tin droplet fuse element with dual viewing windows
- Heat-resistant, color-coded thermoplastic housing with OCR-rated marking on both sides
- M8 connection holes with 51 mm spacing
- Breaking capacity up to 2000A at 32V
- Maximum torque 12 Nm $\pm$ 1 Nm



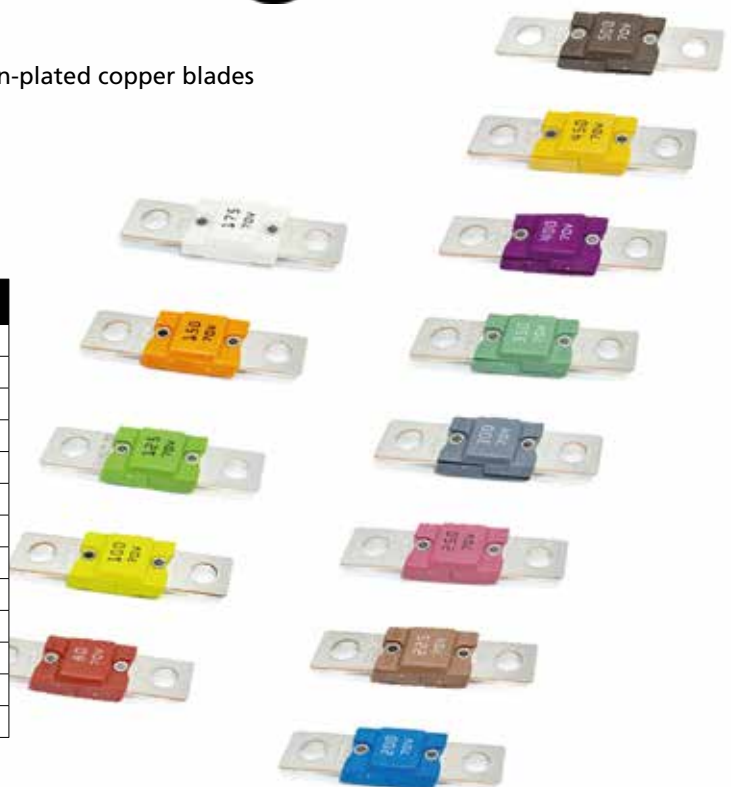
Part nr.	Color	Rating (A)	Rating (V)	Holes
OBFMG040	black	40	32	M8
OBFMG050	black	50	32	M8
OBFMG060	black	60	32	M8
OBFMG080	red	80	32	M8
OBFMG100	yellow	100	32	M8
OBFMG125	green	125	32	M8
OBFMG150	orange	150	32	M8
OBFMG175	white	175	32	M8
OBFMG200	blue	200	32	M8
OBFMG225	tan	225	32	M8
OBFMG250	pink	250	32	M8
OBFMG300	grey	300	32	M8
OBFMG350	dark green	350	32	M8
OBFMG400	purple	400	32	M8
OBFMG450	dark yellow	450	32	M8
OBFMG500	brown	500	32	M8

Bolt-on fuses - megaOTO series OMGHV (70V)



- Complies with ISO 20934 and other international standards
- Sturdy riveted, color-coded thermoplastic housing with rigid tin-plated copper blades
- OCR-rated marking on both sides
- M8 connection holes with 51 mm spacing
- Breaking capacity up to 2500A at 70V
- Maximum torque 12 Nm $\pm$ 1 Nm

Part nr.	Color	Rating (A)	Rating (V)	Holes
OMGHV080	red	80	70	M8
OMGHV100	yellow	100	70	M8
OMGHV125	green	125	70	M8
OMGHV150	orange	150	70	M8
OMGHV175	white	175	70	M8
OMGHV200	blue	200	70	M8
OMGHV225	tan	225	70	M8
OMGHV250	pink	250	70	M8
OMGHV300	grey	300	70	M8
OMGHV350	dark green	350	70	M8
OMGHV400	purple	400	70	M8
OMGHV450	dark yellow	450	70	M8
OMGHV500	brown	500	70	M8



midi- and megaOTO fuse holders



FHMD1

- M5 threaded studs and hex nuts for secure mounting of midiOTO and stripOTO fuses
- Durable UL 94 V-0 flame-retardant PA66 GF30 housing with attached protective cover
- Overhang in the cover provides enhanced terminal protection
- Stackable single-position design for compact multi-position fuse holder assemblies

FHMG1

- M8 threaded studs and hex nuts for secure mounting of megaOTO fuses, with 20 mm cable entry for cable sizes up to 120 mm²
- Durable UL 94 V-0 flame-retardant PA66 GF30 housing with attached protective cover
- Overhang in the cover provides enhanced terminal protection
- Stackable single-position design for compact multi-position fuse holder assemblies

FHMD4-MG1

- M5 threaded studs for 4 midiOTO/stripOTO fuses and M8 threaded studs for 1 megaOTO fuse
- Durable UL 94 V-0 flame-retardant PA66 GF30 housing with heavy duty copper buss-bars and attached protective cover
- Overhang in the cover provides enhanced terminal protection

Part nr.	Description
FHMD1	58V Holder with cover for OBFMD & OBFMDP (both M5 holes only) midiOTO series 30A-200 A (1 position)
FHMG1	32V Holder with cover for OBFMG & OMGHV megaOTO series 40A-500A (1 position)
FHMD4-MG1	58V Combi holder with cover for OBFMD & OBDMDP (both M5 holes only) midiOTO series or OMS-U stripOTO series 30A-200A (4 positions) and OBFMG & OMGHV megaOTO series 40A-500A (1 position)



FHMD1



FHMG1



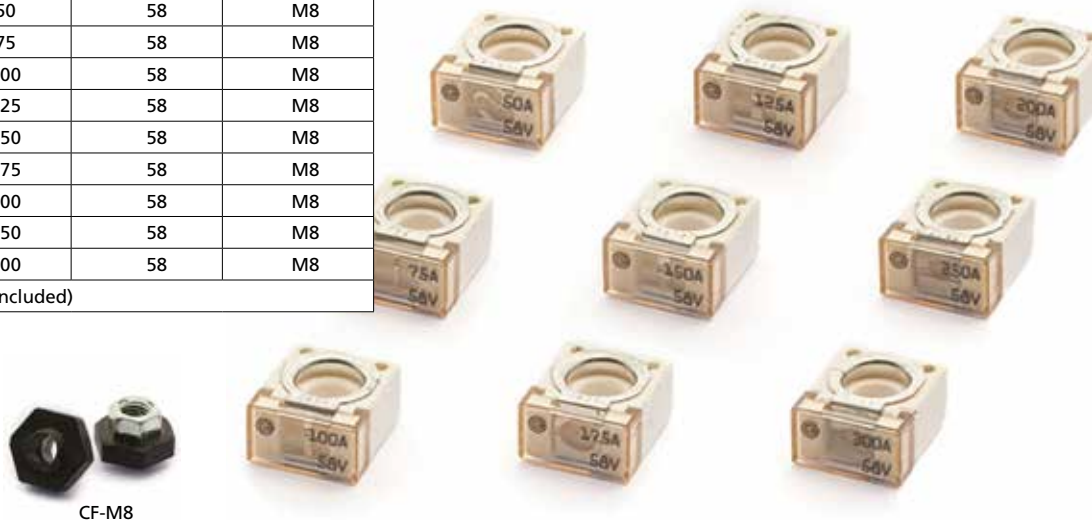
FHMD4-MG1

Bolt-on fuses - cubeOTO series OBFMC



- Complies with ISO 8820-6 specifications
- Ceramic body with visible integrated copper fuse element and space-saving M8 single-bolt slow-blow design for reliable performance and compact installation
- Use with an insulating nut (not included) or equivalent alternative

Part nr.	Color	Rating (A)	Rating (V)	Holes
OBFMC050	white	50	58	M8
OBFMC075	white	75	58	M8
OBFMC100	white	100	58	M8
OBFMC125	white	125	58	M8
OBFMC150	white	150	58	M8
OBFMC175	white	175	58	M8
OBFMC200	white	200	58	M8
OBFMC250	white	250	58	M8
OBFMC300	white	300	58	M8
CF-M8	M8 insulation nut (not included)			



cubeOTO fuse holders



Part nr.	Description
ACPKCUBE101	58V Holder for OBFMC series up to 300A (1 position), with insulation washer and self locking nut
ACPKCUBE201	58V Holder for OBFMC series up to 300A (1 position)
CF-M8	M8 insulation nut for use with ACPKCUBE201

ACPKCUBE101

- Holder with battery circuit protection with a compact, space-saving design
- Robust construction with anti-rotation fuse design for secure assembly
- Supplied with an application-specific insulation washer and self-locking nut



ACPKCUBE201

- Holder with battery circuit protection
- Suitable as a replacement for Littelfuse 255.1000.0001
- Robust construction with anti-rotation fuse design for secure assembly
- Use in combination with insulating nut (not included)



Bolt-on fuses - stripOTO series OMS-P

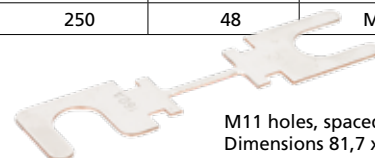


- Complies with VAG specifications
- Compact 42 × 12 mm pure zinc fuse with visible fuse element and M6 connection holes spaced 30 mm apart

Part nr.	Rating (A)	Rating (V)	Holes
OMS-P030	30	32	M6
OMS-P040	40	32	M6
OMS-P050	50	32	M6
OMS-P060	60	32	M6
OMS-P070	70	32	M6
OMS-P080	80	32	M6
OMS-P100	100	32	M6
OMS-P110	110	32	M6
OMS-P125	125	32	M6
OMS-P150	150	32	M6
OMS-P175	175	32	M6



Part nr.	Rating (A)	Rating (V)	Holes
AE-OMSUP80	80	48	M11
AE-OMSUP100	100	48	M11
AE-OMSUP125	125	48	M11
AE-OMSUP160	160	48	M11
AE-OMSUP200	200	48	M11
AE-OMSUP250	250	48	M11



M11 holes, spaced 60 mm
Dimensions 81,7 x 20 mm

Bolt-on fuses - stripOTO series OMS-U

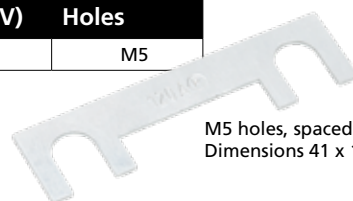


- Complies with DIN 72581-2 specifications
- Compact 41 × 11 mm pure zinc fuse with visible fuse element, featuring a U-shaped connection and M5 connection holes with 30 mm spacing

Part nr.	Rating (A)	Rating (V)	Holes
OMS-U030	30	32	M5
OMS-U040	40	32	M5
OMS-U050	50	32	M5
OMS-U060	60	32	M5
OMS-U080	80	32	M5
OMS-U100	100	32	M5



Part nr.	Rating (A)	Rating (V)	Holes
AE-OMSU120	120	36	M5



M5 holes, spaced 30 mm
Dimensions 41 x 11 mm

Bolt-on fuses - evOTO series



- Comply with ISO 8820-8 and other international standards
- Ceramic tube constructions with silica sand filling and laser-marked rating
- Rigid nickel-plated copper alloy connections for reliable conductivity and durability

EV27-M4

- M4 connection holes with 45 mm spacing
- Maximum torque 2.1 Nm $\pm$ 0.2 Nm
- Breaking capacity up to 2.000A at 450V

Part nr.	Rating (A)	Rating (V)	Holes
EV27-001-M4	1	450	M4
EV27-005-M4	5	450	M4



EV27-M5

- M5 connection holes with 53.5 mm spacing
- Breaking capacity up to 20.000A at 500V
- Maximum torque 4.5 Nm $\pm$ 1 Nm

Part nr.	Rating (A)	Rating (V)	Holes
EV27-015-M5	15	500	M5
EV27-020-M5	20	500	M5
EV27-030-M5	30	500	M5
EV27-040-M5	40	500	M5
EV27-050-M5	50	500	M5



EV28-M6

- M6 connection holes with 60 mm spacing
- Breaking capacity up to 20.000A at 500V
- Maximum torque 9.0 Nm $\pm$ 1.0 Nm

Part nr.	Rating (A)	Rating (V)	Holes
EV28-060-M6	60	500	M6
EV28-070-M6	70	500	M6
EV28-080-M6	80	500	M6
EV28-100-M6	100	500	M6
EV28-125-M6	125	500	M6



Bolt-on fuses - evOTO series



- Complies with ISO 8820-8 and other international standards
- Silica-filled UP tube with epoxy-sealed ends and laser-marked rating

EV29-M8

- Rigid copper alloy connections
- M8 connection holes and 74.8 mm spacing
- Breaking capacity up to 16,000A at 500V
- Maximum torque 12Nm $\pm$ 1 Nm

Part nr.	Rating (A)	Rating (V)	Holes
EV29-150-M8	150	500	M8
EV29-175-M8	175	500	M8
EV29-200-M8	200	500	M8
EV29-225-M8	225	500	M8
EV29-250-M8	250	500	M8
EV29-300-M8	300	500	M8



EV29-M8HR

- Rigid tin-plated copper alloy connections
- M8 connection holes and 74.8 mm spacing
- Breaking capacity up to 30,000A at 500V
- Maximum torque 12Nm $\pm$ 1Nm

Part nr.	Rating (A)	Rating (V)	Holes
EV29-350-M8	350	500	M8
EV29-400-M8	400	500	M8
EV29-450-M8	450	500	M8
EV29-500-M8	500	500	M8



EV29-M10

- Rigid tin-plated copper alloy connections
- M10 connection holes and 80 mm spacing
- Breaking capacity up to 30,000A at 500V
- Maximum torque 16Nm $\pm$ 1Nm

Part nr.	Rating (A)	Rating (V)	Holes
EV29-600-M10	600	500	M10
EV29-700-M10	700	500	M10
EV29-800-M10	800	500	M10
EV29-900-M10	900	500	M10
EV29-1000-M10	1000	500	M10



ceramicOTO fuses - CERF2000 series



- DIN 72581-1 standard (only for 5-25A fuses)
- Zn fusing element material (5-16A), Cu fusing element material (25-40A)
- Thermoplastic body material

Part nr.	Color	Rating (A)	Rating (V)
CERF2005	yellow	5	32
CERF2008	white	8	32
CERF2016	red	16	32
CERF2025	blue	25	32
CERF2040	black	40	32



ceramicOTO assortment

B3-CERF 5 pcs - blister

1 x CERF2005
1 x CERF2008
1 x CERF2016
1 x CERF2025
1 x CERF2040



ceramicOTO fuse holders



FH2010

- Quick fit in-line, cable (max 2,5 mm²) screw connects
- High temperature resistive thermoplast body material, UL 94 V-0
- Bajonet style closing, includes CERF2000 series 8A fuse

CFB02, CFB04, CFB06, CFB08 and CFB12

- Multi-position fuse box with transparent cover
- With screw connects and 6,3 mm tab

Part nr.	Description
FH2010	36V Holder for CERF2000 series up to 25A (1 position) incl. 8A fuse
CFB02	Box for ceramic fuses up to 8A (2 positions)
CFB04	Box for ceramic fuses up to 8A (4 positions)
CFB06	Box for ceramic fuses up to 8A (6 positions)
CFB08	Box for ceramic fuses up to 8A (8 positions)
CFB12	Box for ceramic fuses up to 8A (12 positions)



FH2010



CFB06

glassOTO fuses - GLAF4000 (fast acting) and GLAFT4000 (time lag) series 5x20 mm



- Glass tube fuse with nickel-plated copper alloy end caps and enclosed solder joints
- IEC 127 compliant, available in fast-acting (100 mA–20 A) and time-lag (100 mA–6.3 A) versions
- Marked voltage and current ratings for easy identification

GLAF4000 series		
Part nr.	Rating (A)	Rating (V)
GLAF4100	0,1	32
GLAF4200	0,2	32
GLAF4250	0,25	32
GLAF4300	0,3	32
GLAF4400	0,4	32
GLAF4500	0,5	32
GLAF4800	0,8	32
GLAF4001	1	32
GLAF4001.25	1,25	32
GLAF4001.6	1,6	32
GLAF4002	2	32
GLAF4002.5	2,5	32
GLAF4003	3,15	32
GLAF4004	4	32
GLAF4005	5	32
GLAF4006	6,3	32
GLAF4008	8	32
GLAF4010	10	32
GLAF4012	12	32
GLAF4015	15	32
GLAF4016	16	32
GLAF4020	20	32

GLAFT4000 series		
Part nr.	Rating (A)	Rating (V)
GLAFT4100	0,1	32
GLAFT4125	0,125	32
GLAFT4160	0,16	32
GLAFT4200	0,2	32
GLAFT4315	0,315	32
GLAFT4400	0,4	32
GLAFT4500	0,5	32
GLAFT4630	0,63	32
GLAFT4800	0,8	32
GLAFT4001	1	32
GLAFT4001.25	1,25	32
GLAFT4001.6	1,6	32
GLAFT4002	2	32
GLAFT4002.5	2,5	32
GLAFT4003	3,15	32
GLAFT4004	4	32
GLAFT4005	5	32
GLAFT4006	6,3	32
GLAFT4008	8	32
GLAFT4010	10	32



glassOTO fuses - GLAF5000 series 6,3x32 mm



- Glass tube fuse with nickel-plated copper alloy end caps and enclosed solder joints, clearly marked with voltage and current ratings, available from 1A to 50A.

Part nr.	Rating (A)	Rating (V)
GLAF5001	1	32
GLAF5002	2	32
GLAF5002.5	2,5	32
GLAF5003	3	32
GLAF5004	4	32
GLAF5005	5	32
GLAF5006	6	32
GLAF5008	8	32
GLAF5010	10	32
GLAF5015	15	32
GLAF5016	16	32
GLAF5020	20	32
GLAF5025	25	32
GLAF5030	30	32
GLAF5035	35	32
GLAF5040	40	32
GLAF5050	50	32

glassOTO assortments

B3-GLAF4 5 pcs - blister 5x20 mm

1 x GLAF4002
1 x GLAF4003
1 x GLAF4005
1 x GLAF4006
1 x GLAF4010



B3-GLAF5 5 pcs - blister 6,3x32 mm

1 x GLAF5005
1 x GLAF5010
1 x GLAF5015
1 x GLAF5020
1 x GLAF5030





Relays 12V	250
Relays 24V	254
Flashers 12/24V	256
Sockets	257
Toggle switches	258
Miscellaneous & Push-pull switches	259
Rocker & Door switches	260
Push button switches & Switch covers	261
Pilot lights & Buzzers	262

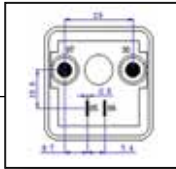
Plugs & Sockets
Lighting
Battery
Hose Clamps
Screws, Bolts & Nuts
Wire & Cable
Bundling & Protection
EV Products
Insulated Terminals
Non-insulated Terminals
Cord End Terminals
Housing
Fuses & Fuse Holders

Relays, Switches, Pilot Lights & Buzzers

Tools & Assortment Kits

Relays - 12V, 4 pins

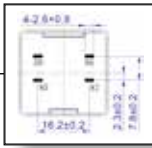
REACH
& RoHS
compliant




RE686A
High power starter relay
for trucks with insulating
mounting bracket
12V, 120A
2,4W continuous/4,8W intermittent
46 x 46 x 45 (+18) mm




RE686B
High power starter relay
for trucks with insulating
mounting bracket
12V, 200A
2,4W continuous/4,8W intermittent
46 x 46 x 45 (+18) mm

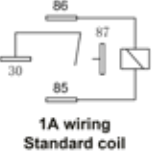

RE730A*
Small size relay
12V, 40A, 1,6W
28 x 28 x 25,5 mm



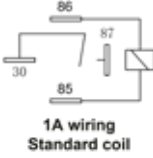
* RE730A will be replaced by
RE734A after stock runs out



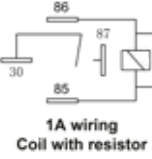
RE620A12
Miniature relay
12V, 40A, 1,6W
26,5 x 26,5 x 24,5 mm



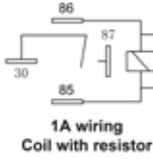
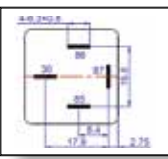

RE620A
Miniature relay with
insulating mounting bracket
12V, 40A, 1,6W
26,5 x 26,5 x 24,5 (+16) mm



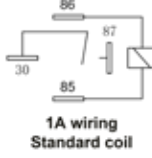

RE620A12R
Miniature relay
12V, 40A, 1,6W
26,5 x 26,5 x 24,5 mm



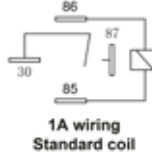

RE620A12BR
Miniature relay with
insulating mounting bracket
12V, 40A, 1,6W
26,5 x 26,5 x 24,5 (+16) mm

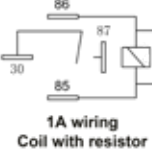

RE626HA12
Miniature relay
12V, 80A, 1,6W
26,5 x 26,5 x 23,5 mm



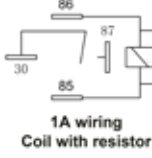

RE626HA12B
Miniature relay with
insulating mounting bracket
12V, 80A, 1,6W
26,5 x 26,5 x 23,5 (+16) mm



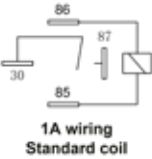
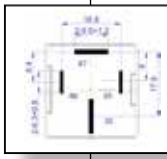

RE626HA12R
Miniature relay
12V, 80A, 1,6W
26,5 x 26,5 x 23,5 mm



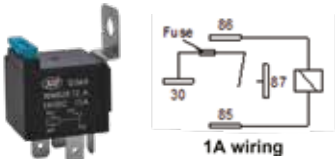

RE626HA12BR
Miniature relay with
insulating mounting bracket
12V, 80A, 1,6W
26,5 x 26,5 x 23,5 (+16) mm



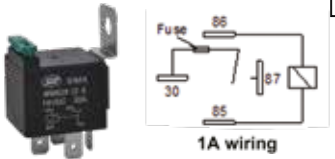

RE640A
Miniature relay with
insulating mounting bracket
12V, 80A, 1,6W
28 x 28 x 25,5 (+16) mm

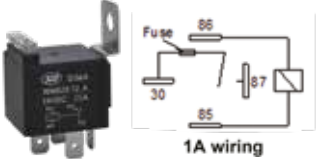
Relays are equipped with two small (6.3 x 0.8 mm)
and two large (9.5 x 1.2 mm) tab terminals.



RE629A15
Small size relay with metal mounting bracket and fuse
12V, 15A, 1,6W
32 x 26,5 x 23,5 (+16,5) mm



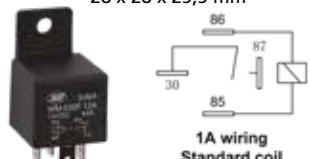
RE629A
Small size relay with metal mounting bracket and fuse
12V, 30A, 1,6W
32 x 26,5 x 23,5 (+16,5) mm



RE629A25
Small size relay with metal mounting bracket and fuse
12V, 25A, 1,6W
32 x 26,5 x 23,5 (+16,5) mm



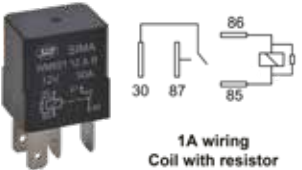
RE630F12A
Miniature relay
12V, 40A, 1,6W
28 x 28 x 25,5 mm



RE630FA12B
Miniature relay with insulating mounting bracket
12V, 40A, 1,6W
28 x 28 x 25,5 (+16) mm



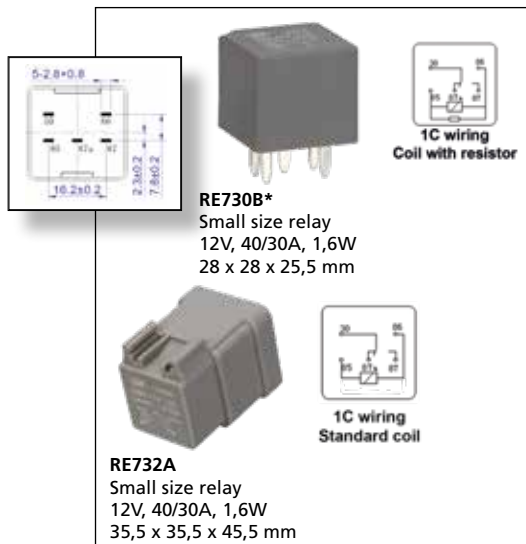
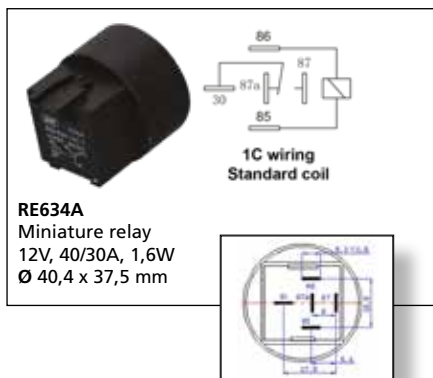
RE651A
Miniature relay
12V, 30A, 1,6W
20,5 x 15,5 x 22,5 mm



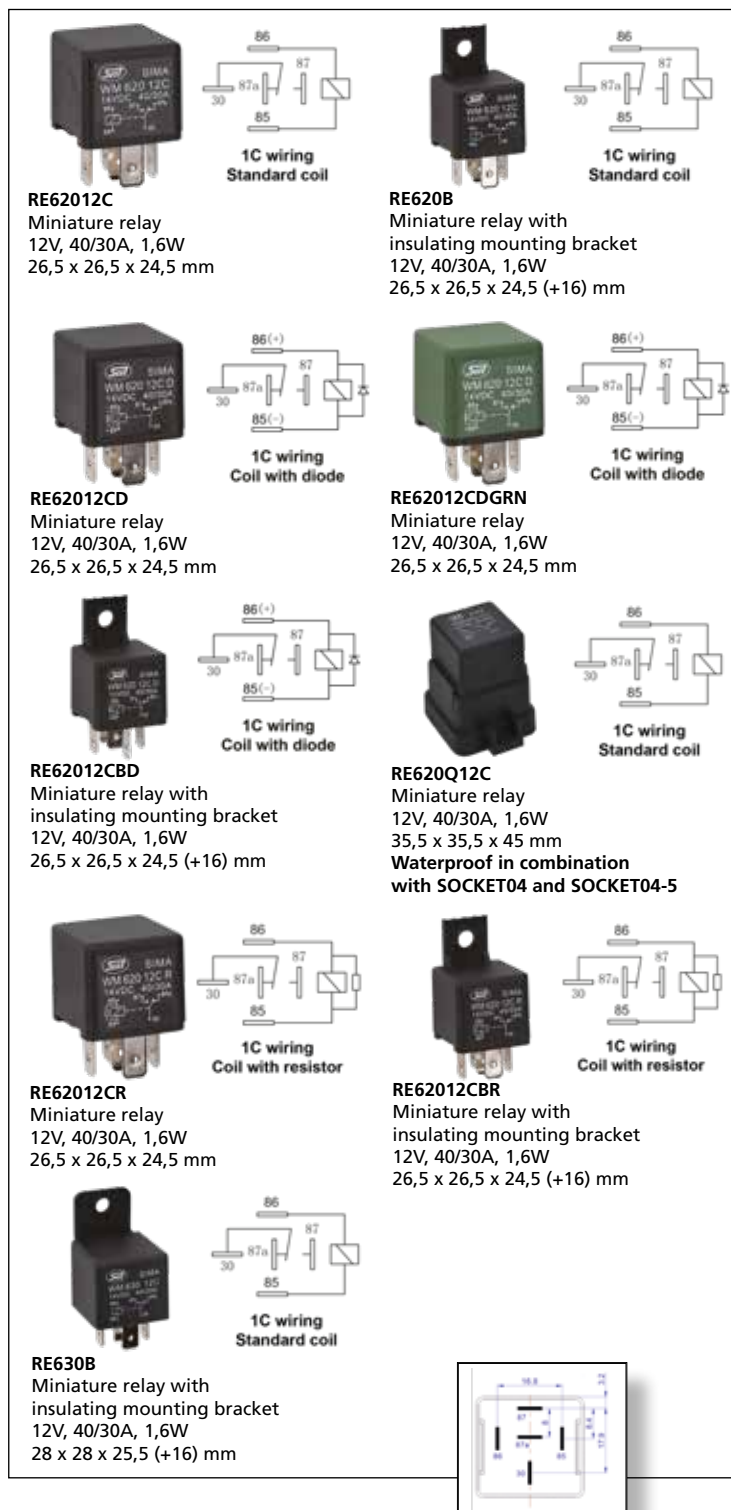
RE651AR
Miniature relay
12V, 30A, 1,6W
20,5 x 15,5 x 22,5 mm

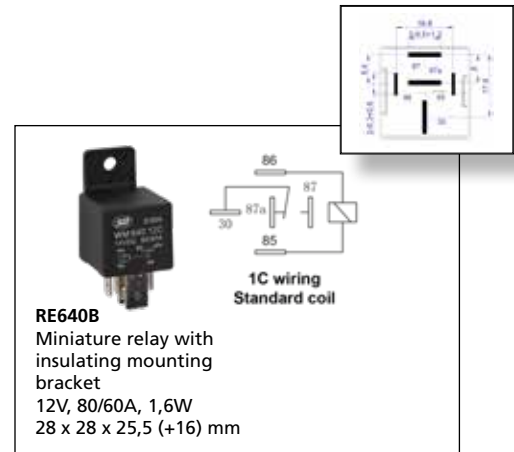
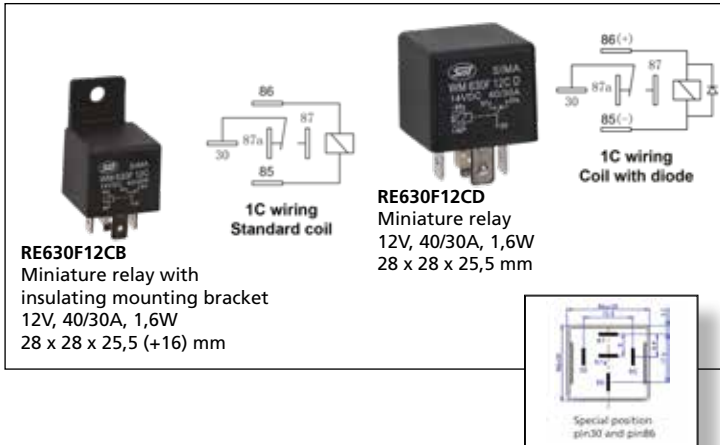
Relays are equipped with two small (4.8 x 0.8 mm) and two large (6.3 x 0.8 mm) tab terminals.

Relays - 12V, 5 pins

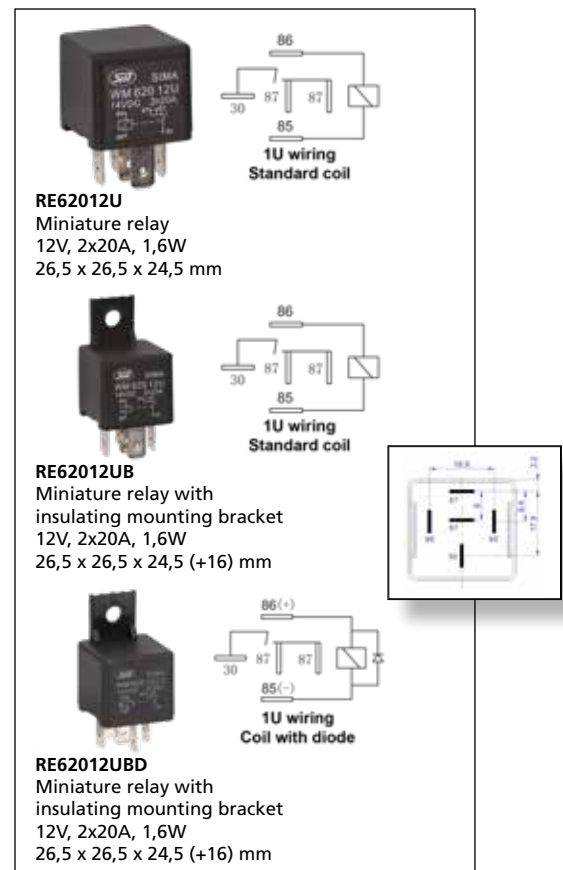
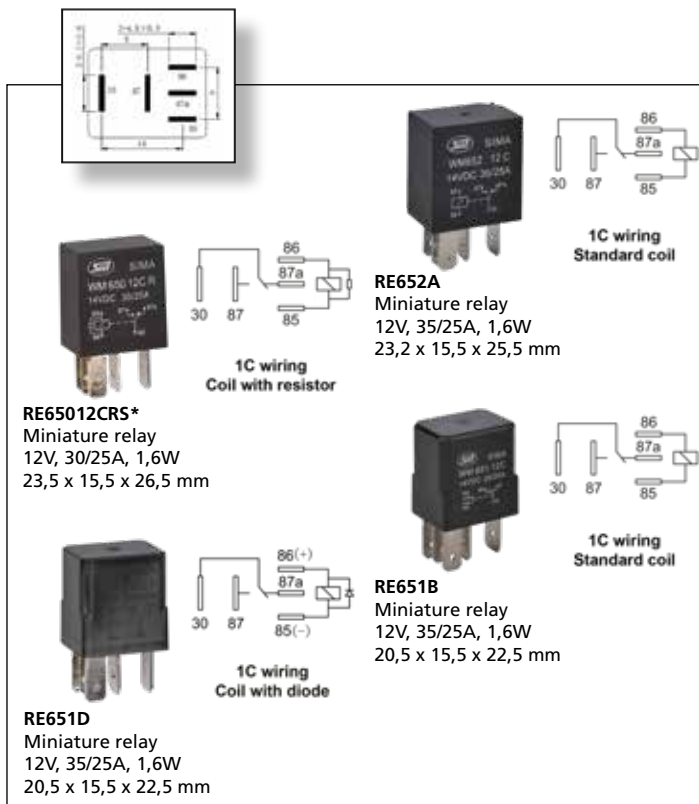


* RE730B will be replaced by RE734B after stock runs out





Relays are equipped with two small (6.3 x 0.8 mm) and three large (9.5 x 1.2 mm) tab terminals.

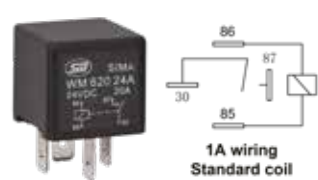


Relays are equipped with three small (4.8 x 0.8 mm) and two large (6.3 x 0.8 mm) tab terminals.

*RE650 series will be replaced by RE652 series after stock runs out.

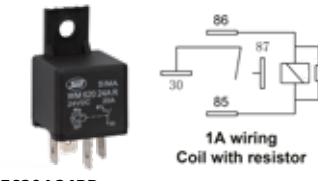
Relays - 24V, 4 pins

REACH
& RoHS
compliant



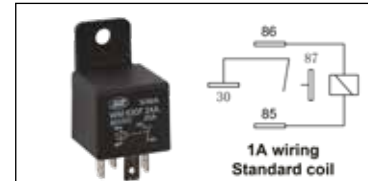
RE62024A
Miniature relay
24V, 20A, 1,6W
26,5 x 26,5 x 24,5 mm

RE62024AR
Miniature relay
24V, 20A, 1,6W
26,5 x 26,5 x 24,5 mm

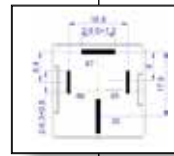
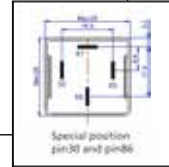


RE620A24BR
Miniature relay with
insulating mounting bracket
24V, 20A, 1,6W
26,5 x 26,5 x 24,5 (+16) mm

RE630A
Miniature relay with
insulating mounting bracket
24V, 20A, 1,6W
28 x 28 x 25,5 (+16) mm



RE630FA24B
Miniature relay with
insulating mounting
bracket
24V, 20A, 1,6W
28 x 28 x 25,5 (+16) mm



RE626H24A
Miniature relay
24V, 40A, 1,6W
26,5 x 26,5 x 23,5 mm



RE626HA24B
Miniature relay with
insulating mounting bracket
24V, 40A, 1,6W
26,5 x 26,5 x 23,5 (+16) mm

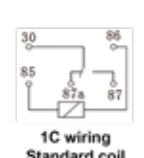
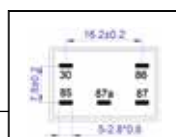
Relays are equipped with two small
(6.3 x 0.8 mm) and two large (9.5 x 1.2 mm)
tab terminals.

Relays - 24V, 5 pins

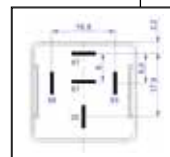
REACH
& RoHS
compliant



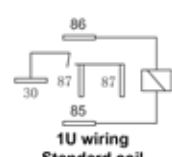
RE734C
Miniature relay
24V, 40/30A, 1,6W
23 x 15,3 x 25,5 mm

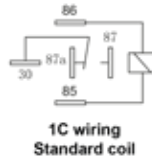




RE62024U
Miniature relay
24V, 2x10A, 1,6W
26,5 x 26,5 x 24,5 mm

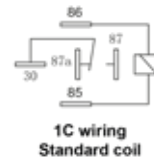


RE62024UB
Miniature relay with
insulating mounting bracket
24V, 2x10A, 1,6W
26,5 x 26,5 x 24,5 (+16) mm

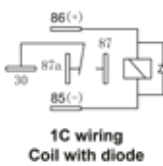




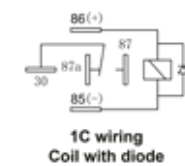
RE62024C
Miniature relay
24V, 20/15A, 1,6W
26,5 x 26,5 x 24,5 mm



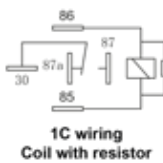
RE62024CB
Miniature relay with
insulating mounting bracket
24V, 20/15A, 1,6W
26,5 x 26,5 x 24,5 (+16) mm



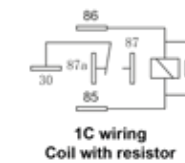
RE62024CD
Miniature relay
24V, 20/15A, 1,6W
26,5 x 26,5 x 24,5 mm



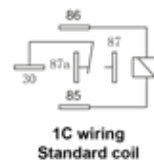
RE62024CBD
Miniature relay with
insulating mounting bracket
24V, 20/15A, 1,6W
26,5 x 26,5 x 24,5 (+16) mm



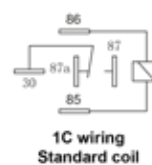
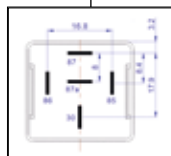
RE62024CR
Miniature relay
24V, 20/15A, 1,6W
26,5 x 26,5 x 24,5 mm



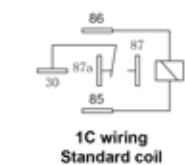
RE62024CBR
Miniature relay with
insulating mounting bracket
24V, 20/15A, 1,6W
26,5 x 26,5 x 24,5 (+16) mm



RE620Q24C
Miniature relay
24V, 40/30A, 1,6W
35,5 x 35,5 x 45 mm
Waterproof in combination
with SOCKET04 and SOCKET04-5



RE626H24CB
Miniature relay with
insulating mounting bracket
24V, 60/40A, 1,6W
26,5 x 26,5 x 23,5 (+16) mm



RE630C
Miniature relay with
insulating mounting bracket
24V, 20/10A, 1,6W
28 x 28 x 25,5 (+16) mm

Relays - 12/24V flashers



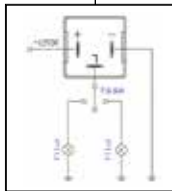
RE010V
Flasher relay with
bulb failure indication
12V, 21W - 150W
30,5 x 30,5 x 39 mm



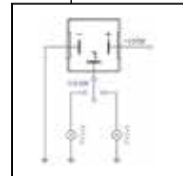
RE014V
Flasher relay with
bulb failure indication
12V, 21W - 150W
30,5 x 30,5 x 30 mm



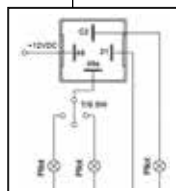
RE015V
Flasher relay with
bulb failure indication
12V, 21W - 150W
30,5 x 30,5 x 30 mm



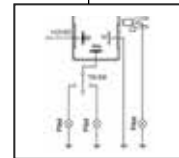
RE016V
Flasher relay with
bulb failure indication
12V, 21W - 150W
30,5 x 30,5 x 30 mm



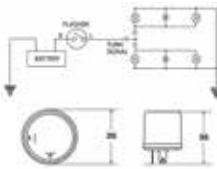
RE48V
Flasher relay with
bulb failure indication
12V, 21W - 150W
30,5 x 30,5 x 30 mm



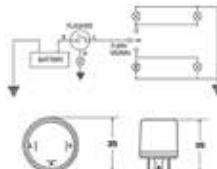
RE048W
Flasher relay with
bulb failure indication
and fly lead
12V, 21W - 150W
30,5 x 30,5 x 30 mm



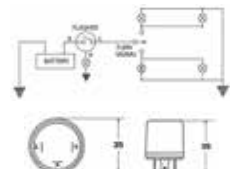
HD12
Flasher relay
12V, 1 - 10, 21W
Ø 35 x 35 mm



EG23
Flasher relay
Separate pilot light output terminal
24V, 1 - 6, 21W
Ø 35 x 35 mm

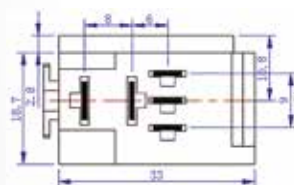


HD13
Flasher relay
Separate pilot light output terminal
12V, 1 - 10, 21W
Ø 35 x 35 mm



Sockets for automotive relays

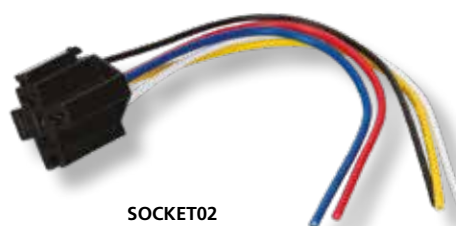
REACH
& RoHS
compliant



SOCKET01

For use with max. current 20A@24V or 40A@12V

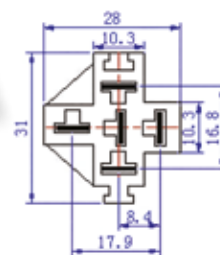
Matches RE650, RE651 and RE652 series
Stackable



SOCKET02

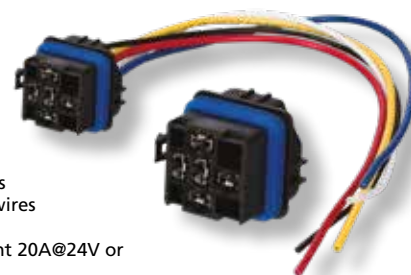
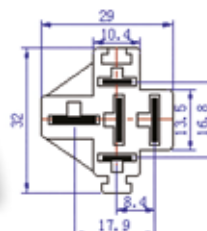
For use with max. current larger than 20A@24V or 40A@12V

Matches RE620, RE626, RE630 and RE634 series
Stackable



SOCKET03

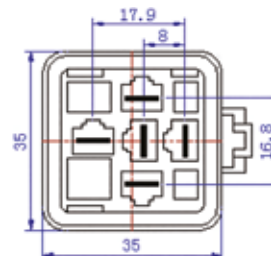
For use with current up to 80A@12V
Matches RE626H and RE640 series
Stackable



SOCKET04 with wires
SOCKET04-5 without wires

For use with max. current 20A@24V or 40A@12V

Matches RE620Q series
Waterproof



AE-RL2222

For use with 4 and 5 pole relays
Stackable



Sockets 01, 02 and 03 are stackable through male-female slots

Toggle switches



AE-ZZ012
Toggle switch

On-Off-On
10A@12V
3 Screw contacts
Installation dimension Ø 13 mm



AE-ZZ114
Toggle switch

On-Off-On
25A@12V
3 Screw contacts
Installation dimension Ø 13 mm



AE-ZZ021
Toggle switch

On-Off
10A@12V
2 Tab contacts 6,4 mm
Installation dimension Ø 13 mm



AE-ZZ118
Toggle switch

On-Off-On
10A@12V
3 Tab contacts 6,4 mm
Installation dimension Ø 13 mm



AE-ZZ119
Toggle switch

On-Off-On
10A@12V
3 Tab contacts 6,4 mm
Installation dimension Ø 13 mm



AE-ZZ227
Toggle switch

On-Off
20A@12V
2 Tab contacts 6,4 mm
Installation dimension Ø 13 mm



Toggle switch

25A@12V
Screw contacts
Installation dimension Ø 13 mm



AE-ZZ134 2 contacts, On-Off
AE-ZZ135 2 contacts, (On)-Off
AE-ZZ136 3 contacts, (On)-Off-(On)
AE-ZZ137 3 contacts, On-Off-On

Toggle switch with faceplate

25A@12V
Screw contacts
Installation dimension Ø 13 mm

AE-ZZ126 4 contacts, On-Off
AE-ZZ127 4 contacts, (On)-Off
AE-ZZ128 6 contacts, On-Off-On
AE-ZZ129 6 contacts, (On)-Off-(On)



Toggle switch with bulb

On-Off
20A@12V
3 Tab contacts 6,4 mm
Installation dimension Ø 13 mm

AE-ZZ120 blue
AE-ZZ121 red
AE-ZZ122 green



Toggle switch with bulb

On-Off
10A@12V
3 Tab contacts 6,4 mm
Installation dimension Ø 13 mm

AE-ZZ123 amber
AE-ZZ124 blue
AE-ZZ125 green



LED toggle switch

On-Off
20A@12V, 10A@24V
2 Tab contacts 6,4 mm
1 Tab contact 6,2 mm
Installation dimension Ø 13 mm

AE-ZZ130 amber
AE-ZZ131 blue
AE-ZZ132 red
AE-ZZ133 green
AE-ZZ149 clear



AE-ZZ234
Toggle switch

On-Off
6A@12V
2 Tab contacts 3,8 mm
Installation dimension Ø 6 mm



Miscellaneous switches



AE-ZZ018
Brake light switch

(On)-Off
10A@12V
2 Screw contacts



AE-ZZ040
Zener diode

12V
Tension max 1A@400V / 75 °C
Protection type IP54
2 Tab contacts 6,3 mm
DIN/ISO 40050



AE-ZZ027
Rotary knob blower switch with
symbol imprint on the knob

0-1-2-3 (4 positions)
23A@12V or 11,5A@24V
5 Tab contacts 6,3 mm
Protection type IP53
Installation dimension Ø 12,5 mm

Push-pull switches



AE-ZZ070
Universal push-pull switch

Off-On-On
30A fuse@6V or 15A fuse@12V
5 Screw contacts
Length mounting stem 9 mm
Installation dimension Ø 11 mm



AE-ZZ116
Push-pull universal head light switch with
symbol imprint on the knob

On-Off
30A@12V
2 Screw contacts
Length mounting stem 12 mm
Installation dimension Ø 13 mm



AE-ZZ024
Push-pull switch with small knob

On-Off
6A@12V
2 Screw contacts
Length mounting stem 19 mm
Installation dimension Ø 9 mm



AE-ZZ117
Push-pull switch with small knob

On-Off
6A@12V
2 Screw contacts
Length mounting stem 13 mm
Installation dimension Ø 9 mm



AE-ZZ025
Push-pull switch with small knob

On-Off
6A@12V
2 Screw contacts
Length mounting stem 8 mm
Installation dimension Ø 9 mm



AE-ZZ141
Push-pull switch

On-Off
6A@12V
2 Tab contacts
Length mounting stem 6,4 mm
Installation dimension Ø 9 mm



AE-ZZ032
Push-pull switch with small knob

On-Off
10A@12V or 5A@24V
2 Screw contacts
Length mounting stem 12 mm
Installation dimension Ø 8,5 mm



AE-ZZ115
Push-pull switch with small knob

On-Off
10A@12V or 5A@24V
2 Tab contacts 6,3 mm
Length mounting stem 12 mm
Installation dimension Ø 8,5 mm



AE-ZZ028
Push-pull switch with small knob

On-Off
10A@12V or 2,5A@24V
2 Screw contacts
Panel thickness 0,5-2 mm
Installation dimension Ø 8,5 mm

Rocker switches

REACH
& RoHS
compliant



Rocker switch panel
combination with bulb

On-Off
10A@12V
3 Tab contacts

AE-ZZ105 green
AE-ZZ106 amber



AE-ZZ233
Rocker switch with red LED
On-Off
20A@12V
3 Tab contacts 6.3 x 0.8 mm
Installation dimension 30 x 12 mm



AE-ZZ223
Rocker switch
On-Off
16A@12V
2 Tab contacts 4,8 x 0.8 mm
Installation dimension 19 x 13 mm



AE-ZZ225
Rocker switch
On-Off-On
16A@12V
3 Tab contacts 4,8 x 0.8 mm
Installation dimension 19 x 13 mm



AE-ZZ224
Rocker switch
On-Off
10A@12V
2 Tab contacts 4,8 x 0.8 mm
Installation dimension Ø 20 mm



AE-ZZ228
Rocker switch
On-Off-On
10A@12V
3 Tab contacts 4,8 x 0.8 mm
Installation dimension Ø 20 mm

LED rocker switch

On-Off
10A@12V
3 Tab contacts 4.8 x 0.8 mm
Installation dimension Ø 20 mm

AE-ZZ215 red
AE-ZZ216 amber
AE-ZZ217 green
AE-ZZ218 blue



LED rocker switch

On-Off
10A@12V
3 Tab contacts 4,8 x 0.8 mm
Installation dimension Ø 20 mm

AE-ZZ219 red
AE-ZZ220 amber
AE-ZZ221 green
AE-ZZ222 blue

Miscellaneous - Door switches

REACH
& RoHS
compliant



AE-ZZ011
Door contact switch
On-(Off)
5A@12V
2 Screw contacts
Installation dimension Ø 18,5 mm



AE-ZZ150
Universal door light switch
On-(Off)
Copper contacts

Push button switches



AE-ZZ003
Momentary push button switch
with waterproof rubber cover

(On)-Off
20A@12V
2 Screw contacts
Installation dimension Ø 23 mm



AE-ZZ107
Push button switch

On-Off
20A@12V
2 Screw contacts
Installation dimension Ø 22,5 mm



AE-ZZ100
Momentary push button switch

(On)-Off
11A@12V or 2,5A@24V
2 Tab contacts
Installation dimension Ø 20 mm



Push button switch

On-Off
15A@12V
2 Tab contacts
Installation dimension Ø 22,5 mm

AE-ZZ138 without rubber cover
AE-ZZ139 with waterproof rubber cover



AE-ZZ140
Push button switch with
waterproof rubber cover

On-Off
60A@12V or 40A@24V
2 Screw contacts
Installation dimension Ø 16,5 mm



AE-ZZ108
Push button switch

On-Off
10A@12V or 5A@24V
2 Screw contacts
Installation dimension Ø 22,5 mm



AE-ZZ226
Push button switch

On-Off
20A@12V
2 Screw contacts
Installation dimension Ø 20 mm



AE-ZZ232
Push button switch

On-Off
16A@12V
2 Tab contacts
Installation dimension Ø 12,5 mm

Miscellaneous - Switch accessories



AE-ZZ145
Burglar alarm switch with 2 keys

With dust shutter
Off-On, 12V
2 Screw contacts
Installation dimension Ø 21,5 mm



AE-ZZ007SL

AE-ZZ007
Ignition/starter switch with 2 keys
AE-ZZ007SL
Set of 2 spare keys

With starter lockout
0-I-II (3 positions)
2-25A@12V
5 Silver plated tab contacts 6,3 mm
Protection type IP40
Installation dimension Ø 18,5 mm



AE-ZZ007



Miscellaneous - Switch covers



AE-ZZ148
Waterproof rubber cover

For toggle switches with M12 thread
Length 24,5 mm

Security cover for On-Off for
M12 thread toggle switches

AE-ZZ146 red
AE-ZZ147 carbon



Pilot lights

REACH
& RoHS
compliant

LED pilot light
Installation dimension Ø 9 mm
2 Tab contacts
12V

AE-ZZ142 amber
AE-ZZ143 green
AE-ZZ144 red



Blinker LED alarmsimulator
20 x 11 x 120 mm
Pre-wired black (ignition car)
and red (battery)
12V

AE-ZZ063 red



Pilot light with colored lens
Bulb BA9s not included
Installation dimension Ø 17,2 mm
2 Screw contacts
6-24V

AE-ZZ101 amber
AE-ZZ102 blue
AE-ZZ103 red
AE-ZZ104 green



Buzzers

REACH
& RoHS
compliant

AE-ZZ041

Signal unit
70 dB
12V
Dimensions 23 (+10,5) x 17 x 15 mm
Pre-wired 100 mm, AWG 26, black
and red



AE-ZZ084

Signal unit
70 dB, tone pulse
12-24V
Dimensions Ø 32 x 30 mm
Pre-wired black and red



AE-ZZ053

Signal unit
95 dB, continuous sound
12-24V
Dimensions 37/40,5 x 30 mm





Truck & Trailer Parts
 Plugs & Sockets
 Lighting
 Battery
 Hose Clamps
 Screws, Bolts & Nuts
 Wire & Cable
 Bundling & Protection
 EV Products
 Insulated Terminals
 Non-insulated Terminals

Cord End Terminals
 Housing

Fuses & Fuse Holders

Relays, Switches,
 Pilot Lights & Buzzers

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Quick interchangeable crimping series

This modular crimping system easily adapts to different applications through quick die-set changes, eliminating the need for additional tools. Create the ideal crimping solution with:

- An empty carrying case with space for one 8,7" crimping tool and two die sets (**ASSAETOOL CASE**; p. 269)
- Pre-filled kits available with a 8,7" or 10" crimping tool in carbon steel or aluminium, supplied with application-specific die sets:
 - **Die set assortment only:** ASSAETOOL02-1 (p. 267)
 - **Complete kits:** ASSAETOOL02, ASSAETOOL03, ASSAETOOL04, ASSAETOOL10, ASSAETOOL55, ASSAETOOL60, ASSAETOOL61, ASSAETOOL62 (**carbon steel**); ASSAETOOL33 (**aluminium**) (p. 268-269)
- Or mix and match crimping tools and die sets to create the ideal solution for your specific requirements

Choose from 3 different quick change ratchet tools



MHQIBE
8,7" carbon steel ratchet tool
No die-set included



HJ43I
8,7" aluminium ratchet tool
No die-set included



HJ56I
10" carbon steel ratchet tool
No die-set included



Notice the difference in weight between the 8,7" carbon steel tool and the aluminium tool. PLEASE NOTE THAT THE ALUMINIUM TOOL IS NOT SUITABLE FOR HEAVY DUTY CRIMPING.

Choose from 43 different die sets

Part nr.	Description	Part nr.	Description
DSQIA	 For insulated terminals AWG 22-18/16-14/12-10 0,5-1,0/1,5-2,5/4,0-6,0 mm²	DSQICQ	 For open barrel terminals AWG 20-18/16-14/12-10 0,5-1,0/1,5-2,5/4,0-6,0 mm² MIM procedure
DSQIA1	 For heat shrink butt connectors AWG 22-18/16-14/12-10 0,5-1,0/1,5-2,5/4,0-6,0 mm²	DSQIC1	 For open barrel terminals AWG 26-24/24-22/22-18 0,1-0,25/0,25-0,5/0,5-1,0 mm²
DSQIA2	 For fully insulated female disconnectors AWG 22-18/16-14/12-10 0,5-1,0/1,5-2,5/4,0-6,0 mm²	DSQIC3	 For open barrel flag terminals AWG 14-20/16-20 2,5-0,5/1,5-0,5 mm²
DSQIA3	 For miniature insulated terminals AWG 26-22/24-18/22-16 0,1-0,5/0,25-1,0/0,5-1,5 mm²	DSQID	 For cord end terminals (small wire size) AWG 20/18/17/16/14/12 0,5/0,75/1,0/1,5/2,5/4,0 mm²
DSQIA4	 For insulated flag terminals AWG 22-18/16-14 0,5-1,0/1,5-2,5 mm²	DSQIE	 For RG type coaxial cable connectors .255/.213/.100/.068/.324" 6,48/5,41/2,54/1,72/8,23 mm RG 58, 59, 62, 6
DSQIA5	 For heat shrink & closed end terminals AWG 22-16/16-14/12-10 0,5-1,5/1,5-2,5/4,0-6,0 mm²	DSQIE1	 For RG type coaxial cable connectors .255/.187/.068/.213" 6,48/4,75/1,72/5,41 mm RG 58, 59, 62, 174
DSQIB	 For non-insulated terminals AWG 20-16/16-14/12-10/8 0,5-1,5/1,5-2,5/4,0-6,0/10,0 mm²	DSQIE2	 For RG type coaxial cable connectors .256/.319/.068/.213" 6,50/8,10/1,72/5,41 mm RG 58, 59, 62, 6
DSQIC	 For open barrel terminals AWG 20-18/16-14/12-10 0,5-1,0/1,5-2,5/4,0-6,0 mm²	DSQIE3	 For RG type coaxial cable connectors .043/.068/.100/.137/.213/.255" 1,09/1,72/2,54/3,48/5,41/6,48 mm RG 58, 59, 62, 174 Fiber Optic

Part nr.	Description	Part nr.	Description
DSQIE4	 For RG type coaxial cable connectors .100/.128/.429" 2,54/3,25/10,9 mm RG 8, 11, 174, 179, 213	DSQIH6	 For Delphi Weatherpack terminals AWG 22/20-18 0,35/0,5-0,8 mm² 
DSQIE5	 For RG type coaxial cable connectors .042/.068/.078/.128/.151/.178" 1,07/1,72/1,98/3,25/3,84/4,52 mm RG 174, 179 Belden, 8218 Fiber Optic	DSQIH7	 For Delphi Weatherpack terminals AWG 16-14/12 1,0-2,0/3,0 mm² 
DSQIE6	 For RG type coaxial cable connectors .100/.213/.319/.360" 2,54/5,41/8,10/9,14 mm RG 58, 59, 6	DSQIIQ1	 For MC3 solar connectors AWG 14/12/10 2,5/4,0/6,0 mm² MIM procedure
DSQIF	 For cord-end terminals (medium wire size) AWG 10/8-6 6,0/10,0/16,0 mm²	DSQII2	 For MC4 solar connectors AWG 14/12/10 2,5/4,0/6,0 mm²
DSQIF1	 For cord-end terminals (large wire size) AWG 4/2 25,0/35,0 mm²	DSQIIQ2	 For MC4 solar connectors AWG 14/12/10 2,5/4,0/6,0 mm² MIM procedure
DSQIH	 For open barrel terminals & D-Sub, V3.5 AWG 14/22/8-6 2,5/0,5/8,0-10,0 mm²	DSQIIQ3	 For Tyco solar connectors AWG 15-10 1,5/2,5/4,0/6,0 mm² MIM procedure
DSQIH1	 For spark plug connectors AWG 17 1,0 mm²	DSQIK1	 For open barrel Deutsch terminals (DTP series) AWG 14/12 2,0/4,0 mm² 
DSQIH2	 For Superseal terminals AWG 22-20/16 DIN 0,35-0,5/1,5 mm² 	DSQIK2	 For open barrel Deutsch terminals (DTP series) AWG 12/10 5,0/6,0 mm² 
DSQIH3	 For Superseal terminals AWG 18/17 DIN 0,75/1,0 mm² 	DSQIK3	 For open barrel Deutsch terminals (DT series) AWG 18/16/14 0,8/1,0/2,0 mm² 

Part nr.	Description	Part nr.	Description
DSQIK4	 For open barrel Deutsch terminals (DT series) AWG 20/18/16 0,5/0,8/1,0 mm² 	DSQIL1	 For male Junior Power Timer/VAG and Multiple Contact Point terminals with or without seal AWG 20-18/16-14 0,5-1,0/1,5-2,5 mm² 
DSQIK5	 For open barrel Deutsch terminals (DTM series) AWG 20/18/16 0,5/0,8/1,0 mm² 	DSQIL2	 For female Junior Timer (0,12-2,5 mm²) and Standard Timer (0,2-2,5 mm²) terminals AWG 20-18/16/18-16/14 0,5-1,0/1,5/1,0-1,5/2,5 mm² Suitable for insulation-reduced stranded wires
DSQIK6	 For open barrel Deutsch terminals (DT series) AWG 16/14/12 1,0/2,0/2,5 mm² 	DSQIL10	 For Standard Power Timer and Multiple Contact Point terminals AWG 24-20/20-17/15-13/11 0,2-0,5/0,5-1,0/1,5-2,5/4,0 mm² Suitable for insulation-reduced stranded wires
DSQIKQ8	 For solid Deutsch terminals (4 indent crimp) AWG 20/16/12 0,5/1,0/2,5-4,0 mm² MIM procedure	DSQIL11	 For female Standard Power Timer terminals with single wire sealing system AWG 20-17/17-13/13-11 0,5-1,0/1,5-2,5/3,0-4,0 mm²
DSQIL	 For female Junior Power Timer/VAG terminals with or without seal With seal: AWG 24-20/20-18/16-14 0,2-0,5/0,5-1,0/1,5-2,5 mm² Without seal: AWG 24-20 0,2-0,5 mm² 		

Pre-filled cases with tool and die sets

ASSAETOOL02

Complete kit, consisting of 8,7" carbon steel tool MHQIBE and 6 die sets for various terminals:

DSQIA
DSQIB
DSQIC
DSQID
DSQIF
DSQIH



ASSAETOOL02-1

Kit, consisting of 5 die sets for various terminals:

DSQIA
DSQIB
DSQIC
DSQID
DSQIF

No tool included



ASSAETOOL03

Complete kit, consisting of
8,7" carbon steel tool MHQIBE
and 6 die sets for open
barrel Deutsch terminals:

DSQIK1
DSQIK2
DSQIK3
DSQIK4
DSQIK5
DSQIK6



ASSAETOOL04

Complete kit, consisting of
8,7" carbon steel tool with die set
for 0,5/1,5/4,0 mm² solid Deutsch
terminals (2 indents),
wedge removal/small screw
driver combination tool
and 3 terminal release
tools (for contact
sizes 20, 16 and
12 gauge)



ASSAETOOL10

Complete kit, consisting of
10" carbon steel tool HJ56I
and 6 die sets for
various terminals:

DSQIA
DSQIB
DSQIC
DSQIC1
DSQIH
DSQIH1



ASSAETOOL33

Complete kit, consisting of
8,7" aluminium tool HJ43I
and 3 die sets for open
barrel terminals:

DSQIC
DSQIC1
DSQIH



ASSAETOOL60*

Complete kit, consisting of
8,7" carbon steel tool MHQIBE
and 2 die sets for insulated
terminals:

OR**ASSAETOOL61***

Complete kit, consisting of
8,7" carbon steel tool MHQIBE
and 2 die sets for open barrel
terminals:

OR**ASSAETOOL62***

Complete kit, consisting of
8,7" carbon steel tool MHQIBE
and 2 die sets for open barrel
Deutsch DT series terminals:

DSQIA
DSQIA3

DSQIC
DSQIC1

DSQIK3
DSQIK4

+ 9086BB**
Case for a 8,7" tool
and up to 3 die sets

**+**

MHQIBE
8,7" carbon steel tool

*It is possible to choose another combination of die sets (2 or 3 die sets)

** This case is also separately available

ASSAETOOL55

Complete kit, consisting of
8,7" carbon steel tool MHQIBE
and 5 die sets for
insulated terminals:

DSQIA1
DSQIA2
DSQIA3
DSQIA4
DSQIA5



We also have available:

ASSAETOOL CASE

Empty case with space for a
8,7" tool and 5 die sets

**9086BB**

Empty case with space for a
8,7" tool and 2 or 3 die sets



Crimping tool - Anderson contacts

New addition - For Anderson type contacts

BN21
10" Crimping tool for
Anderson contacts
4,0 - 6,6 / 4,0 - 16,0 mm²



Assortment kit - Hose clamps



ASS-HCST001
77 pcs - 10 compartments
incl. tool

1 x screw driver

12 x BHC1-0814
13 x BHC1-1117
13 x BHC1-1320
10 x BHC1-1525
10 x BHC1-1929
7 x BHC1-2232
7 x BHC1-2638
4 x BHC1-3244

Tools - Wire

Cutters



LK-22A
6" Wire cutter for copper
and aluminium wire

Up to 22 mm²



LK-38A
8" Wire cutter for copper and
aluminium wire

Up to 38 mm²



LK-60A
10" Wire cutter for copper
and aluminium wire

Up to 60 mm²



LK-388
7,25" Cable scissors for copper and
aluminium wire

Up to 38 mm²

Blades made of 420 J2 stainless steel
With safety lock and spring to
automatically open the scissors

Strippers



ST-50
6,5" Wire stripper
0,5 - 4,0 mm²



LY-700E
6,5" Wire stripper
0,5 - 10,0 mm²



ST-700
6,7" Self-adjusting cutter/stripper
0,25 - 4,0 mm²



ST-731
7,8" Multi function wire stripper
0,25 - 6,0 mm²



ST-801
4,4" Multifunctional plier/wire stripper

Network cable stripper (K5) for cross cut or straight cut
Wire stripper (high carbon steel):
0,05 - 0,5 mm²
Pliers: free size
With 2 spare blades and 1 spare screw



ST-800
4,4" Multifunctional plier/wire stripper

Network cable stripper (K5) for cross cut or straight cut
Wire stripper (high carbon steel):
0,5 - 6,0 mm²
Pliers: free size
With 2 spare blades and 1 spare screw

Tools - Heat shrink sleeve



MJ-300
Heat gun with micro-flame
(supplied with empty lighter)



MJ-600
Flameless heat gun
(supplied with empty lighter)



90-51773
Universal lighter gas (butane)
200 ml

Assortment kits - Heat shrink sleeve

ADSWB-001

170 pcs - 6 compartments
Single wall 2:1 - Black
Length pcs: 100 mm (17 mtrs total)



60 pcs 1,2 > 0,6 mm
40 pcs 2,4 > 1,2 mm
30 pcs 3,2 > 1,6 mm
20 pcs 4,8 > 2,4 mm
10 pcs 6,4 > 3,2 mm
10 pcs 9,5 > 4,8 mm

Box with eurosot hangtab

ADSWC-005

590 pcs - 10 compartments - Single wall 2:1
Colors black, red, white, blue and yellow
Lengths 50, 100, 150 and 200 mm



5 colors x 20 pcs x 50 mm; 1,0 > 0,5
5 colors x 20 pcs x 50 mm; 1,5 > 0,75
5 colors x 20 pcs x 100 mm; 2,0 > 1,0
5 colors x 20 pcs x 100 mm; 3,0 > 1,5
5 colors x 10 pcs x 100 mm; 4,5 > 2,2
5 colors x 10 pcs x 100 mm; 6,0 > 3,0
5 colors x 6 pcs x 100 mm; 9,0 > 4,5
5 colors x 6 pcs x 100 mm; 12,0 > 6,0
5 colors x 3 pcs x 150 mm; 20,0 > 10,0
5 colors x 3 pcs x 200 mm; 25,0 > 12,5

ADDWB-002

87 pcs - 6 compartments
Dual wall 3:1 with adhesive liner - Black
Length pcs: 100 mm (8,7 mtrs total)



30 pcs 2,4 > 0,8 mm
21 pcs 3,2 > 1,0 mm
15 pcs 4,8 > 1,6 mm
12 pcs 6,4 > 2,0 mm
6 pcs 9,5 > 3,0 mm
3 pcs 12,7 > 4,0 mm

Box with eurosot hangtab

ADSWC-006

377 pcs - 8 compartments - Single wall 2:1
Lengths 50, 75, 100, 150 and 200 mm

red x 30 pcs x 50 mm; Ø1,6
yellow/green x 10 pcs x 50 mm; Ø1,6

red x 15 pcs x 50 mm; Ø2,4
yellow/green x 10 pcs x 50 mm; Ø2,4
black x 30 pcs x 75 mm; Ø2,4
transparent x 10 pcs x 75 mm; Ø2,4

yellow x 20 pcs x 50 mm; Ø3,2
white x 50 pcs x 50 mm; Ø3,2
yellow/green x 10 pcs x 50 mm; Ø3,2

black x 20 pcs x 50 mm; Ø4,8
transparent x 15 pcs x 50 mm; Ø4,8
yellow/green x 5 pcs x 50 mm; Ø4,8
red x 15 pcs x 50 mm; Ø4,8
transparent x 10 pcs x 75 mm; Ø4,8
blue x 10 pcs x 75 mm; Ø4,8

yellow x 20 pcs x 50 mm; Ø6,4
white x 10 pcs x 50 mm; Ø6,4
yellow/green x 5 pcs x 50 mm; Ø6,4
black x 20 pcs x 75 mm; Ø6,4

yellow/green x 5 pcs x 50 mm; Ø9,5
blue x 10 pcs x 100 mm; Ø9,5
black 10 pcs x 100 mm; Ø9,5

yellow/green x 3 pcs x 50 mm; Ø12,7
black x 15 pcs x 100 mm; Ø12,7

yellow/green x 3 pcs x 50 mm; Ø19,1
black x 5 pcs x 150 mm; Ø19,1
black x 5 pcs x 200 mm; Ø19,1

yellow/green x 3 pcs x 50 mm; Ø25,4
black x 3 pcs x 150 mm; Ø25,4



ADDWC-002

87 pcs - 6 compartments
Dual wall 3:1 with adhesive liner - Black, red and clear
Length pcs: 100 mm (8,7 mtrs total)



3 x 10 pcs 2,4 > 0,8 mm
3 x 7 pcs 3,2 > 1,0 mm
3 x 5 pcs 4,8 > 1,6 mm
3 x 4 pcs 6,4 > 2,0 mm
3 x 2 pcs 9,5 > 3,0 mm
3 x 1 pcs 12,7 > 4,0 mm

Box with eurosot hangtab

SSB DISPLAY001

Blue metal display with scissors on chain
With 6 boxes of 2:1 black shrink sleeve



1 x 512004BB
1 x 512005BB
1 x 512006BB
1 x 512007BB
1 x 512008BB
1 x 512010BB

SSB DISPLAY002

Blue metal display with scissors on chain
With 6 boxes of 3:1 black shrink sleeve



1 x 712001BB
1 x 712003BB
1 x 712005BB
1 x 712006BB
1 x 712008BB
1 x 712009BB

1506073

Blue metal display with scissors on chain, for 6 boxes of heat shrink sleeve (not included)



- Displays can be used both hanging and standing
- Available in blue (standard) or the RAL-color of your choice. Please contact our Sales department for more information

Tools & assortments - Cable ties

Assortment kits



LY-600A

Tightening and cutting nylon cable-ties
2,4 - 4,8 mm width

Thickness up to 1,45 mm
Adjustable



LY-600T

Tightening and cutting nylon cable-ties
2,2 - 4,8 mm width

Thickness up to 1,6 mm
Adjustable

For nylon cable ties



KBT-5A

Tightening and cutting nylon cable-ties
up to 12 mm width

Thickness up to 2,3 mm
With safe stop



LY-600L

Tightening and cutting nylon cable-ties
up to 13 mm width

Thickness up to 1,5 mm
Adjustable

KKB DISPLAY

Blue metal display with 5 sizes
(1000 pcs in total) of black cable
ties



200 x KKB10025B
200 x KKB14036B
200 x KKB20048B
200 x KKB30048B
200 x KKB36848B

1503043

Blue metal display for 5 sizes
of cable ties (not included)



- Displays can be used both hanging and standing
- Available in blue (standard) or the RAL-color of your choice. Please contact our Sales department for more information

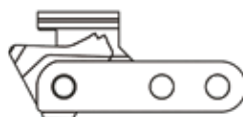


EPCT0017

For tightening and cutting stainless steel
cable ties 4,5 - 7,9 mm width

Thickness up to 0,25 mm
Replacement parts available
Adjustable tension dial for 4 levels of bundling
pressure
Automatic cut-off once required tension is
reached

NOT SUITABLE FOR COATED CABLE TIES



EPCT0017-3

Replaceable ratchet set
Replacement recommended
after 5000 cuts



EPCT0017-2

Replaceable blade
Replacement recommended after
5000 cuts



EPCT0017-1

Replaceable blade seat
Replacement recommended after 10000
cuts

For stainless steel cable ties



EPCT0021

For stainless steel cable ties
4,6 - 12 mm width

Thickness up to 0,3 mm
With semi-auto module for tightening
and cutting off

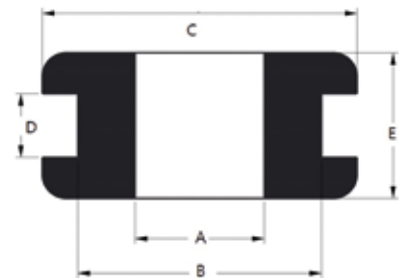
Assortment kits - Grommets

HD190210KC Open Grommets
210 pcs - 9 compartments

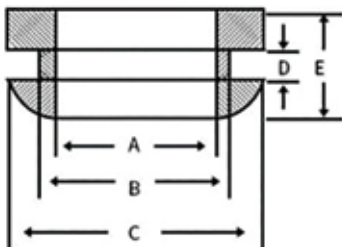


50 x 3,18 x 6,35 mm
50 x 4,76 x 7,94 mm
35 x 6,35 x 9,53 mm
25 x 7,97 x 11,11 mm
20 x 9,53 x 12,70 mm
10 x 12,70 x 15,88 mm
10 x 9,92 x 16,67 mm
5 x 15,88 x 22,23 mm
5 x 17,46 x 25,40 mm

Sizes A x B (see drawing)



HD170120BG Blanking grommets
120 pcs - 10 compartments



20 x 12 x 15 mm 10 x 22 x 27 mm
20 x 13 x 17 mm 10 x 25 x 30 mm
15 x 15 x 20 mm 10 x 26 x 32 mm
15 x 18 x 22 mm 5 x 30 x 35 mm
10 x 20 x 25 mm 5 x 32 x 40 mm

Sizes A x B (see drawing)



Crimping tools - Insulated terminals



BN-03C
10" Crimping tool for
insulated terminals
0,5 - 6,0 mm²



BN-05C
8,7" Crimping tool for
insulated terminals
0,5 - 6,0 mm²



MH-1DS
10" Crimping tool for
insulated flag terminals
0,5 - 2,5 mm²



KH-13
10" Crimping tool for
heatshrink and closed
end terminals
0,5 - 6,0 mm²

Crimping tools - Non-insulated terminals



BN-10
10" Crimping tool for
non-insulated (**brazed seam
only**) terminals
0,5 - 10,0 mm²



KH-9
9,8" Crimping tool for
non-insulated terminals
1,5 - 10,0 mm²



KH-16
10,5" Crimping tool for
non-insulated terminals
1,5 - 16,0 mm²



KH-22
14,4" Crimping tool for
non-insulated terminals
6,0 - 25,0 mm²



KH-38
14,4" Crimping tool for
non-insulated terminals
6,0 - 35,0 mm²



KHB-50
15,3" Crimping tool for
non-insulated terminals
6,0 - 50,0 mm²
HEXAGONAL crimp



KH-120
26,2" Crimping tool for
non-insulated terminals
16,0 - 120,0 mm²



KHB-120
26" Crimping tool for
non-insulated open barrel
flag terminals
6,0 - 120,0 mm²
HEXAGONAL crimp



KHB-150
26" Crimping tool for
non-insulated terminals
25,0 - 150,0 mm²
HEXAGONAL crimp



Crimping tools - Non-insulated open barrel terminals



BN-02B
10" Crimping tool for
non-insulated open barrel
terminals
0,1 - 1,0 mm²



BN-06FL
10" Crimping tool for
non-insulated open barrel
flag terminals
0,5 - 2,5 mm²



BN-03B
10" Crimping tool for
non-insulated open barrel
terminals
0,5 - 6,0 mm²
DOUBLE crimp



Multi-tools - Insulated and non-insulated terminals



KH-502
8" Crimping tool for insulated terminals
0,5 - 6,0 mm²
Bolt cutting
M2,6 / M3 / M3,5 / M4 / M5
Wire stripping
0,75 - 6,0 mm²



KH-507
9,5" Multi-tool for insulated and non-insulated (**brazed seam only**) terminals
0,5 - 6,0 mm²
Bolt cutting
M2,6 / M3 / M3,5 / M4 / M5
Wire stripping
0,75 - 6,0 mm²



KH-502B
8" Crimping tool for Open barrel terminals
0,5 - 6,0 mm²
Bolt cutting
M2,6 / M3 / M3,5 / M4 / M5
Wire stripping
0,75 - 6,0 mm²



MEB-900C
9" Multi-tool for non-insulated (**brazed seam only**) and open barrel terminals
0,5 - 6,0 mm²
Bolt cutting
M2,6 / M3 / M3,5 / M4 / M5
Wire stripping
0,75 - 6,0 mm²



MEB-700C
9" Multi-tool for insulated (**brazed seam only**) and open barrel terminals
0,5 - 6,0 mm²
Bolt cutting
M2,6 / M3 / M3,5 / M4 / M5
Wire stripping
0,75 - 6,0 mm²



ST062
8,5" Multi-tool for crimping Non-insulated (**brazed seam only**) terminals
0,5 - 2,5 mm²
Open barrel terminals
0,25 - 1,5 mm²
Coaxial cable connectors
6,0 mm
Wire stripping
0,25 - 4,0 mm²



Professional kits - Terminals

H1310552BC PVC terminals
552 pcs - 19 compartments
incl. tool



1 x 10" ratchet crimper HJ561
1 x die set DSQIA

1 x insulation tape
50 x cable tie (2,5 x 100 mm)

14 x REFVD 1.25-M3DIN
13 x REFVD 1.25-4DIN
13 x REFVD 1.25-5DIN
12 x REFVD 2-S3DIN
12 x REFVD 2-4DIN
12 x REFVD 2-5DIN
25 x REFVD 2-6DIN
13 x REFVD 5.5-4DIN
12 x REFVD 5.5-5DIN

25 x REFVDC 1.25
25 x REFVDC 2

25 x REFVDDF 1.25-250A
25 x RELVDDF 1.25-250A
25 x REFVDDM 1.25-250
25 x REFVDDF 2-250A
25 x RELVDDF 2-250A
25 x REFVDDM 2-250
12 x REFVDDF 5.5-250A
12 x REFVDDM 5.5-250

25 x RECVDGF 1.25-5
25 x REFVDGM 1.25-5
25 x RECVDGF 2-5
25 x REFVDGM 2-5

25 x REFVDDFM 1.25-250
25 x REFVDDFM 2-250B

HJ600135BC-A1 Heat shrinkable terminals
398 pcs - 19 compartments
incl. tool



1 x 10" ratchet
crimper HJ561
1 x die set DSQIA1
1 x die set DSQIA5

15 x HSF 1.25-250A
15 x HSM 1.25-250
10 x HSF 2-250A
10 x HSM 2-250

25 x HSC 1.25
25 x HSC 2
15 x HSC 5.5

25 x HS 1.25-4
25 x HS 1.25-5
25 x HS 1.25-6
20 x HS 1.25-8
25 x HS 1.25-10
25 x HS 2-4
25 x HS 2-5
25 x HS 2-6
25 x HS 2-8
15 x HS 2-10
10 x HS 5.5-4
10 x HS 5.5-5
10 x HS 5.5-6
5 x HS 5.5-8
10 x HS 5.5-10

Assortment kits - Terminals with tool

AD-002
307 pcs - 18 compartments
incl. tool



1 x multi-tool

20 x BFV 1.25-4
20 x BFV 1.25-5
20 x BFV 2-4
20 x BFV 2-5
20 x BFV 2-6
10 x BFV 5.5-8

20 x BFV 1.25-B3A
20 x BFV 2-YS4A

10 x BFVC 1.25
10 x BFVC 2
6 x BFVC 5.5

20 x BFVDF 1.25-110A8
20 x BFVDM 1.25-110A8
20 x BFVDF 1.25-250A
20 x BFVDM 1.25-250
20 x BFVDF 2-187A5
20 x BFVDM 2-187A5
10 x BFVDF 5.5-250A

AD-006
541 pcs - 19 compartments
incl. tool



1 x multi-tool

52 x BFV 1.25-3
30 x BFV 1.25-5
40 x BFV 2-S3.3
30 x BFV 2-4
30 x BFV 2-5

40 x BFV 1.25-B3A
30 x BFV 2-YS4A

20 x BFVC 1.25
20 x BFVC 2

30 x B 1-SD
8 x B 5.5-SD

30 x BCVGF 1.25-5
30 x BFVGM 1.25-5

30 x BFVDF 1.25-250A
30 x BFVDM 1.25-250
30 x BFVDF 2-187A5
30 x BFVDM 2-187A5
30 x BFVDF 2-250A

AD-008

361 pcs - 13 compartments
incl. tool



1 x crimping tool

30 x BFV 1.25-5
30 x BFV 1.25-6
30 x BFV 2-4

50 x BFV 1.25-B3A
30 x BFV 2-YS4A

30 x BFVC 1.25
20 x BFVC 2
20 x BFVC 5.5

30 x ECVDGF 1.25-5
30 x EFVDGM 1.25-5

30 x EFVDDF 2-187A5
30 x EFVDDM 2-187A5

AD-101

61 pcs - 11 compartments
incl. tool



1 x multi-tool

10 x BFV 1.25-3
4 x BFV 1.25-4
10 x BFV 2-3
4 x BFV 2-4

10 x BFV 1.25-3A
10 x BFV 2-3A

2 x BFVC 1.25
2 x BFVC 2

2 x BFVDF 1.25-250A
2 x BFVDM 1.25-250
2 x BFVDF 2-250A
2 x BFVDM 2-250

Assortment kits - Terminals without tool

AD-009

1000 pcs - 14 compartments



100 x BFV 1.25-5
50 x BFV 5.5-8

50 x BFV 1.25-YS4A
100 x BFV 2-S4A

100 x BFVC 1.25
100 x BFVC 2



50 x ELVDDF 1.25-250A
50 x EFVDDF 1.25-250A
100 x EFVDDM 1.25-250

50 x ELVDDF 2-250A
50 x EFVDDF 2-250A
100 x EFVDDM 2-250

50 x BFVDF 5.5-250A
50 x BFVDM 5.5-250



WS-00004

100 pcs



10 x RBFV 1.25-6
10 x RBFV 2-4

10 x RBFV 1.25-YS4A
10 x RBFV 2-YS4A
10 x RBFV 2-5A

7 x RBFVC 1.25
7 x RBFVC 2



6 x RBFVDDF 2-250A
6 x RBFVDDM 2-250

6 x RBCVDGF 1.25-5
6 x RBFVDGM 1.25-5

6 x RBCVDGF 2-7
6 x RBFVDGM 2-7



AD-015 Heat shrink/solder sleeves
120 pcs - 18 compartments



15 x CWT-9002
15 x CWT-9003
5 x CWT-9004

25 x SGRS-1
15 x SGRS-2
10 x SGRS-3
5 x SGRS-4

15 x HSC 1.25
15 x HSC 2

AD-021 Duraseal/solder sleeves
120 pcs - 18 compartments



15 x CWT-9002
15 x CWT-9003
5 x CWT-9004

25 x SGRS-1
15 x SGRS-2
10 x SGRS-3
5 x SGRS-4

15 x D406-0001
15 x D406-0002

AD-022 Heat shrink/Budget solder sleeves
120 pcs - 18 compartments



15 x AET-9002
15 x AET-9003
5 x AET-9004

25 x SOEV 2.4
15 x SOEV 4.0
10 x SOEV 9.0
5 x SOEV 15.0

15 x HSC 1.25
15 x HSC 2



MJ-600

MJ-300

90-51773

More information of the Tools
available (please see page 271)

AD-050 Solder sleeves
200 pcs - 18 compartments



50 x CWT-9001
50 x CWT-9002
50 x CWT-9003
50 x CWT-9004

AD-051 Solder sleeves
400 pcs - 18 compartments



100 x CWT-9001
100 x CWT-9002
100 x CWT-9003
100 x CWT-9004

AD-052 Budget solder sleeves
200 pcs - 18 compartments



50 x AET-9001
50 x AET-9002
50 x AET-9003
50 x AET-9004

AD-053 Budget solder sleeves
400 pcs - 18 compartments



100 x AET-9001
100 x AET-9002
100 x AET-9003
100 x AET-9004

Crimping tools - Cord end terminals

For single wire cord end terminals



For single and twin wire cord end terminals

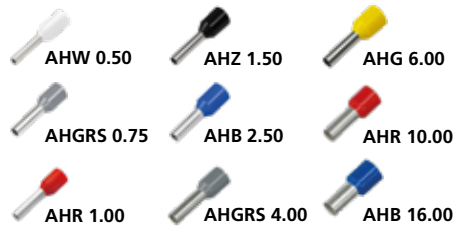


Professional assortment - Cord end terminals

HJ601633BC Cord end terminals (insulated)
1663 pcs - 19 compartments
incl. tool

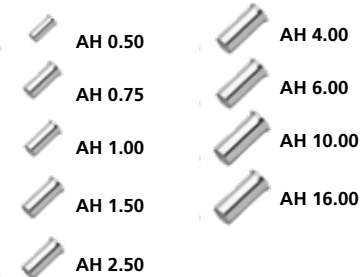


1 x 10" ratchet crimper HJ561
1 x die set DSQID
1 x die set DSQIF



150 x AHW 0.50HL
200 x AHW 0.50N
200 x AHGRS 0.75N
150 x AHGRS 0.75L
200 x AHR 1.00N
150 x AHR 1.00L
100 x AHZ 1.50N
75 x AHZ 1.50L
100 x AHB 2.50N
75 x AHB 2.50L
60 x AHGRS 4.00N
40 x AHGRS 4.00L
50 x AHG 6.00N
30 x AHG 6.00L
25 x AHR 10.00N
15 x AHR 10.00L
25 x AHB 16.00N
15 x AHB 16.00L

HJ603713BC Cord end terminals (insulated and non-insulated)
3713 pcs - 19 compartments
incl. tool



1 x 10" ratchet crimper HJ56I
1 x die set DSQID
1 x die set DSQIF

insulated:	non-insulated:
200 x AHO 0.50N	500 x AH 0.50
200 x AHW 0.75N	500 x AH 0.75
200 x AHG 1.00N	500 x AH 1.00
100 x AHR 1.50N	500 x AH 1.50
100 x AHB 2.50N	400 x AH 2.50
60 x AHGRS 4.00N	100 x AH 4.00
50 x AHZ 6.00N	100 x AH 6.00
25 x AHCR 10.00N	100 x AH 10.00
25 x AHGR 16.00N	50 x AH 16.00

HJ602318BC Cord end terminals (non-insulated)
2318 pcs - 19 compartments
incl. tool



1 x 10" ratchet crimper HJ56I
1 x die set DSQID
1 x die set DSQIF

200 x AH 0.50KK	200 x AH 1.00HL
200 x AH 0.50K	100 x AH 1.50
200 x AH 0.50	100 x AH 2.50
200 x AH 0.75KK	40 x AH 4.00
200 x AH 0.75K	30 x AH 6.00
200 x AH 0.75	15 x AH 10.00
200 x AH 1.00KK	15 x AH 16.00
200 x AH 1.00K	10 x AH 25.00
200 x AH 1.00	5 x AH 35.00

Assortment kits - Cord end terminals

ASSAHI-501
400 pcs - 5 compartments



50 x AHW 0.50N
100 x AHGRS 0.75N
100 x AHR 1.00N
100 x AHZ 1.50N
50 x AHB 2.50N

ASSAHI-401
100 pcs - 4 compartments



50 x AHGRS 4.00N
20 x AHG 6.00N
20 x AHR 10.00N
10 x AHB 16.00N

Single wire

Twin wire

ASSAHI-502
200 pcs - 4 compartments



50 x TAHGRS 0.75N
50 x TAHR 1.00N
50 x TAHZ 1.50N
50 x TAHB 2.50N

ASSAHI-402
45 pcs - 4 compartments



20 x TAHGRS 4.00N
10 x TAHG 6.00N
10 x TAHR 10.00N
5 x TAHB 16.00N

ASSAH-500
2500 pcs - 5 compartments



500 x AH 0.25K
500 x AH 0.34K
500 x AH 0.50KK
500 x AH 0.75KK
500 x AH 1.00KK

Non-insulated

ASSAH-502
1900 pcs - 5 compartments



500 x AH 0.50KK
500 x AH 0.75KK
400 x AH 1.00KK
300 x AH 1.50KK
200 x AH 2.50KK

ASSAH-504
350 pcs - 4 compartments



150 x AH 4.00K
75 x AH 6.00HL
75 x AH 10.00K
50 x AH 16.00K

Tools - Terminal release

Description	Application
Ejection tool for contact sizes Ø 1,5 mm w/dismantling sleeve	BMW, DaimlerChrysler, Fiat, MAN, Opel, Porsche, Seat, Skoda, VW/Audi
Ejection tool for contact sizes Ø 3,5 mm w/dismantling sleeve	BMW, DaimlerChrysler, Fiat, MAN, Opel, Porsche, Seat, Skoda, VW/Audi
Ejection tool for contact sizes Ø 2,3 mm w/dismantling sleeve	Ford, Opel, PSA, Renault
Cable extractor tool for plugs with one release channel 2,8 and 5,8 mm	BMW, DaimlerChrysler, Ford, MAN, Opel, Porsche, PSA, Renault, Seat, Skoda, VW/Audi
Cable extractor tool for Micro Timer II, III contacts Ø 1,6 mm	DaimlerChrysler, Opel, Porsche, PSA, Renault, Saab, Seat, Skoda, VW/Audi
Cable extractor tool for Maxi Power Timer contacts 9,5 mm	DaimlerChrysler, VW/Audi
Cable extractor tool for Pit-Pod contacts	All vehicle makes
Cable extractor tool for Micro Timer I contacts and ABS plug-in housing Ø 1,6 mm	Fiat, Ford, Mazda, Opel, PSA, Renault, Saab, VW/Audi
Cable extractor tool for plugs with two release channels 2,8 and 5,8 mm	BMW, DaimlerChrysler, Fiat, Ford, MAN, Opel, PSA, Renault, Saab, VW/Audi



ASSUTRT002

Deutsch terminal removal kit with wedge removal/flat tip screw driver combination tool and terminal release tools for contact sizes 20, 16, 14, 12, 8 and 4 gauge



ASSUTRT

12 pcs universal terminal release tool set in blue case

UT012

Terminal release tool for Delphi Weatherpack



UT011

Wedge removal/flat tip screw driver combination tool for Deutsch



Professional kits - Housing

HJ410339BC-H2H3 Superseal
339 pcs - 22 compartments
incl. tool



1 x 8,7" aluminium ratchet crimper HJ431
1 x die set DSQIH2
1 x die set DSQIH3

Housing:

4 x 1 pole male housing
4 x 1 pole female housing
4 x 2 pole male housing
4 x 2 pole female housing
3 x 3 pole male housing
3 x 3 pole female housing
3 x 4 pole male housing
3 x 4 pole female housing
2 x 5 pole male housing
2 x 5 pole female housing
2 x 6 pole male housing
2 x 6 pole female housing

Wire seals:

50 x green seal 1,2 - 1,6 mm
50 x yellow seal 1,7 - 2,4 mm

Terminals:

50 x male 0,3 - 0,5 mm²
50 x fem. 0,3 - 0,5 mm²
50 x male 0,75 - 1,5 mm²
50 x fem. 0,75 - 1,5 mm²



0,3 - 0,5 mm²
0,75 - 1,5 mm²

0,3 - 0,5 mm²
0,75 - 1,5 mm²

HJ410220BC-H6H7 Delphi Weatherpack
220 pcs 22 compartments
incl. tool



- 1 x 8,7" aluminium ratchet crimper HJ43I
- 1 x die set DSQIH6
- 1 x die set DSQIH7
- 1 x extraction tool UT012 (also separately available)

Housing:

- 3 x 1 pole male housing
- 3 x 1 pole female housing
- 2 x 2 pole male housing
- 2 x 2 pole female housing
- 1 x 3 pole male housing
- 1 x 3 pole female housing
- 1 x 4 pole male housing
- 1 x 4 pole female housing
- 1 x 4 pole male housing (square)
- 1 x 4 pole female housing (square)

Wire seals:

- 25 x green seal 1,4 - 1,9 mm
- 30 x green seal 2,5 - 3,4 mm
- 25 x blue seal 2,9 - 3,8 mm

Terminals:

- 20 x male 0,5 - 0,85 mm²
- 20 x fem. 0,5 - 0,85 mm²
- 20 x male 1,25 - 2,0 mm²
- 20 x fem. 1,25 - 2,0 mm²
- 20 x male 3,0 mm²
- 20 x fem. 3,0 mm²



0,5 - 0,8 mm²
1,25 - 2,0 mm²
3,0 mm²

0,5 - 0,8 mm²
1,25 - 2,0 mm²
3,0 mm²

HJ888090BC-K3K4 Deutsch DT
92 pcs - 19 compartments
incl. tool



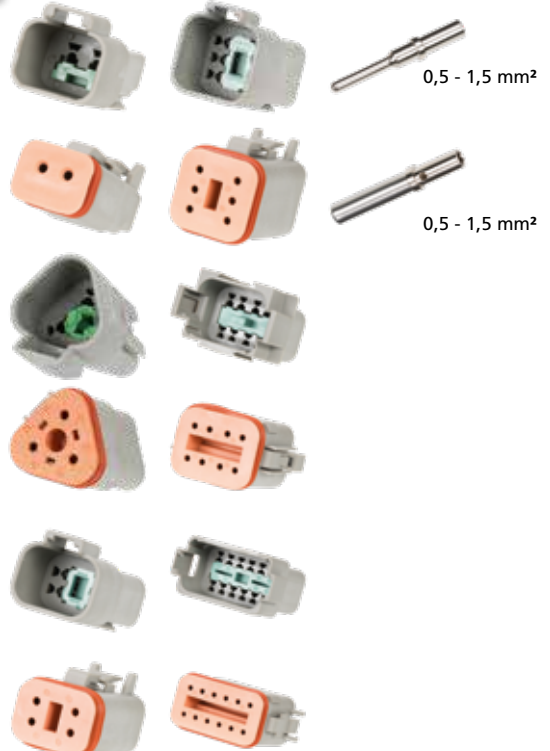
- 1 x 10" carbon steel ratchet crimper HJ56I
- 1 x die set DSQIK3
- 1 x die set DSQIK4
- 1 x extraction tool UT011 (also separately available)

Housing:

- 5 x 2 pole male housing
- 5 x 2 pole female housing
- 3 x 3 pole male housing
- 3 x 3 pole female housing
- 2 x 4 pole male housing
- 2 x 4 pole female housing
- 2 x 6 pole male housing
- 2 x 6 pole female housing
- 1 x 8 pole male housing
- 1 x 8 pole female housing
- 1 x 12 pole male housing
- 1 x 12 pole female housing

Terminals:

- 30 x male 0,5 - 1,5 mm²
- 30 x fem. 0,5 - 1,5 mm²



0,5 - 1,5 mm²

0,5 - 1,5 mm²

Assortment kits - Housing without tool

HE300350HC Superseal
350 pcs - 18 compartments



Housing:

6 x 1 pole male housing
6 x 1 pole female housing
6 x 2 pole male housing
6 x 2 pole female housing
4 x 3 pole male housing
4 x 3 pole female housing
4 x 4 pole male housing
4 x 4 pole female housing
3 x 5 pole male housing
3 x 5 pole female housing
2 x 6 pole male housing
2 x 6 pole female housing

Wire seals:

50 x green seal 1,2 - 1,6 mm
50 x yellow seal 1,7 - 2,4 mm

Terminals:

50 x male 0,3 - 0,5 mm²
50 x female 0,3 - 0,5 mm²
50 x male 0,75 - 1,5 mm²
50 x female 0,75 - 1,5 mm²



HE290232HC Delphi Weatherpack
232 pcs - 20 compartments



Housing:

5 x 1 pole male housing
5 x 1 pole female housing
3 x 2 pole male housing
3 x 2 pole female housing
4 x 3 pole male housing
4 x 3 pole female housing
2 x 4 pole male housing
2 x 4 pole female housing
2 x 4 pole male housing (square)
2 x 4 pole female housing (square)

Wire seals:

25 x green seal 1,4 - 1,9 mm
30 x green seal 2,5 - 3,4 mm
25 x blue seal 2,9 - 3,8 mm

Terminals:

20 x male 0,5 - 0,85 mm²
20 x fem. 0,5 - 0,85 mm²
20 x male 1,25 - 2,0 mm²
20 x fem. 1,25 - 2,0 mm²
20 x male 3,0 mm²
20 x fem. 3,0 mm²



VAG015/1

115 pcs - 15 compartments



Box with euroslot hangtab

Housing:

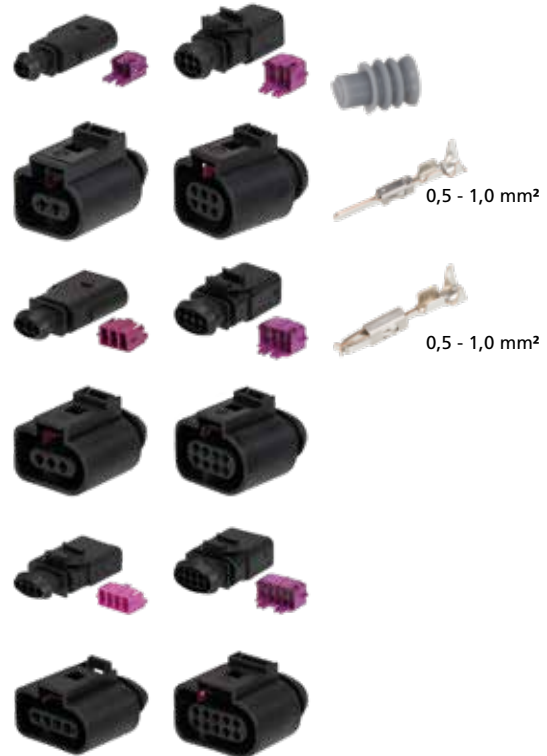
5 x 2 pole male housing
5 x 2 pole female housing
4 x 3 pole male housing
4 x 3 pole female housing
4 x 4 pole male housing
4 x 4 pole female housing
3 x 6 pole male housing
3 x 6 pole female housing
2 x 8 pole male housing
2 x 8 pole female housing
2 x 10 pole male housing
2 x 10 pole female housing

Wire seals:

25 x wire seal grey

Terminals:

25 x male 0,5 - 1,0 mm²
25 x female 0,5 - 1,0 mm²



VAG035/1

95 pcs - 14 compartments



Box with euroslot hangtab

Housing:

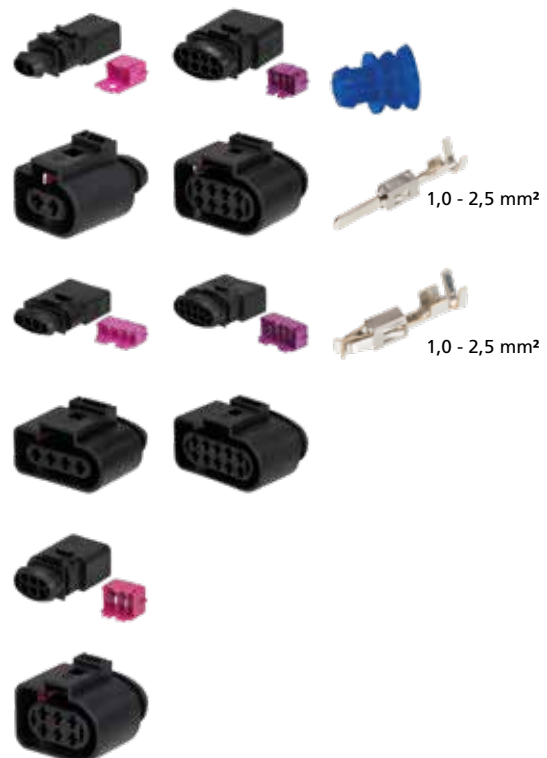
4 x 2 pole male housing
4 x 2 pole female housing
2 x 4 pole male housing
2 x 4 pole female housing
2 x 6 pole male housing
2 x 6 pole female housing
1 x 8 pole male housing
1 x 8 pole female housing
1 x 10 pole male housing
1 x 10 pole female housing

Wire seals:

25 x wire seal blue

Terminals:

25 x male 1,0 - 2,5 mm²
25 x female 1,0 - 2,5 mm²



Tools - Fuses

AT1000P

- Twin puller for normOTO and miniOTO blade fuses
- Polypropylene (PP) material, red colored
- Dimensions 45 x 10 mm

T9000P

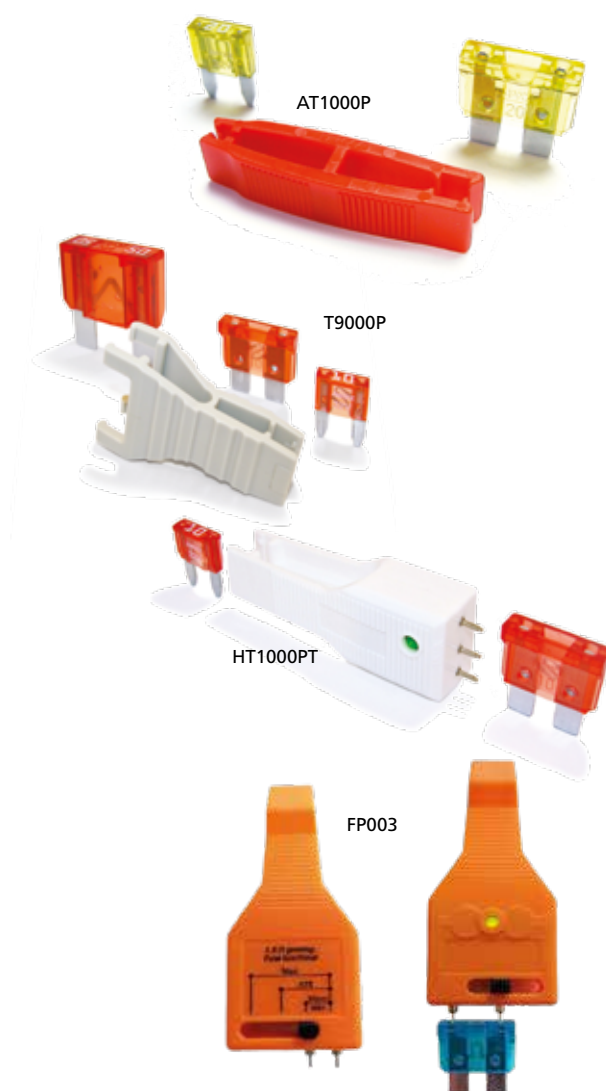
- Triple puller for maxiOTO, normOTO and miniOTO blade fuses
- Thermoplastic (UL 94 V-0) material, grey colored
- Dimensions 41,3 x 24,5 mm

HT1000PT

- Twin puller and tester for normOTO and miniOTO blade fuses
- Test fuses in or out of the fuse box
- LED lights bright green when the fuse is OK
- Dimensions 55 x 20 mm, color white

FP003

- Adjustable 4-in-1 fuse tester and puller for maxiOTO, normOTO and miniOTO/miniOTO Low Profile fuses
- LED lights bright green when fuse is OK
- Dimensions 70 x 32 mm, color orange



Professional kits - Fuses

HF110278BC Fuses & fuse holders
279 pcs - 19 compartments



Fuse Holders:

2 x FH1120
1 x FH1335
1 x FH7335
1 x FH9105
1 x FH9120

NormOTO blade fuses:

15 x SBF1575
30 x SBF1510
30 x SBF1515
25 x SBF1520
20 x SBF1525
25 x SBF1530

MiniOTO blade fuses:

8 x BF7075
25 x BF7010
25 x BF7015
25 x BF7020
10 x BF7025
10 x BF7030

MaxiOTO blade fuses:

3 x BF9030
3 x BF9040
8 x BF9050
8 x BF9060
3 x BF9070



Assortment kits - Fuses

HF020096HA
80 pcs - 8 compartments



Box with euroslot hangtab

normOTO

10 x SBF1503
10 x SBF1505
10 x SBF1575
10 x SBF1510
10 x SBF1515
10 x SBF1520
10 x SBF1525
10 x SBF1530



B3-BF1000
7 pcs - blister

1 x SBF1505
1 x SBF1575
1 x SBF1510
1 x SBF1515
1 x SBF1520
1 x SBF1525
1 x SBF1530



B1-F1000
10 pcs

1 x SBF1505
1 x SBF1575
2 x SBF1510
2 x SBF1515
2 x SBF1520
1 x SBF1525
1 x SBF1530



B1-F7000
10 pcs

1 x BF7005
1 x BF7075
2 x BF7010
2 x BF7015
2 x BF7020
1 x BF7025
1 x BF7030

miniOTO



B3-BF7000
7 pcs - blister

1 x BF7005
1 x BF7075
1 x BF7010
1 x BF7015
1 x BF7020
1 x BF7025
1 x BF7030

HF030096HA
200 pcs - 8 compartments



Box with euroslot hangtab

10 x BF7003
30 x BF7005
30 x BF7075
30 x BF7010
30 x BF7015
30 x BF7020
20 x BF7025
20 x BF7030

HF350071HA
186 pcs - 8 compartments



Box with euroslot hangtab

1 x fuse puller
AT1000P

15 x BFLP7005
25 x BFLP7075
40 x BFLP7010
40 x BFLP7015
25 x BFLP7020
15 x BFLP7025
25 x BFLP7030

miniOTO Low Profile (LP)



B3-BFLP7000
7 pcs - blister

1 x BFLP7005
1 x BFLP7075
1 x BFLP7010
1 x BFLP7015
1 x BFLP7020
1 x BFLP7025
1 x BFLP7030



B1-FLP7000
10 pcs

1 x BFLP7005
1 x BFLP7075
2 x BFLP7010
2 x BFLP7015
2 x BFLP7020
1 x BFLP7025
1 x BFLP7030

HF510071HA
76 pcs - 8 compartments



Box with euroslot hangtab

mikrOTO II

1 x fuse puller AT1000P

5 x BF2005
5 x BF2075
15 x BF2010
15 x BF2015
15 x BF2020
10 x BF2025
10 x BF2030

B3-BF2000
7 pcs - blister



1 x BF2005
1 x BF2075
1 x BF2010
1 x BF2015
1 x BF2020
1 x BF2025
1 x BF2030

HF040024HA
20 pcs - 8 compartments



Box with euroslot hangtab

maxiOTO

2 x BF9020
3 x BF9030
3 x BF9040
3 x BF9050
3 x BF9060
2 x BF9070
2 x BF9080
2 x BF9100

B3-CERF
5 pcs - blister



1 x CERF2005
1 x CERF2008
1 x CERF2016
1 x CERF2025
1 x CERF2040

ceramicOTO

B3-GLAF5
5 pcs - blister
6,3x32 mm



1 x GLAF5005
1 x GLAF5010
1 x GLAF5015
1 x GLAF5020
1 x GLAF5030

glassOTO

B3-GLAF4
5 pcs - blister
5x20 mm



1 x GLAF4002
1 x GLAF4003
1 x GLAF4005
1 x GLAF4006
1 x GLAF4010

Automotive clips

We have put together a very limited program, consisting only of the 20 most popular universal clips



VTX-001
 Toyota OE 9046707201
 PSA OE 6822N2



VTX-002
 Mazda OE U3945919



VTX-003
 Mazda OE 1309251833
 Ford OE M45556143
 Hyundai OE 8659028000



VTX-004
 Toyota OE 9046708217
 Mazda OE KD5351833



VTX-005
 Honda OE 91512SM4003



VTX-006
 Honda OE 90683SA5003
 Nissan OE 0155301203
 Nissan OE 0155303573
 Nissan OE 9046706153



VTX-007
 Toyota OE 5216102030



VTX-008
 Nissan OE 0155309611
 Tesla OE 1006521-00-A
 PSA OE 6822N3
 Toyota OE 9046708185



VTX-009
 Toyota OE 9046709145



VTX-010
 Subaru OE 57728AC090
 Nissan OE 0155309241



VTX-011
 Toyota OE 9046705090B1



VTX-012
 Honda OE 90687SB0003
 Honda OE 90687SB0013



VTX-013
 Honda OE 90684SA50030



VTX-014
 Nissan OE 1099830880
 Suzuki OE 0940906319
 Honda OE 90684SA5003
 Toyota OE 5578552020



VTX-015
 Subaru OE 909140054
 Honda OE 915035Z3003



VTX-016
 Suzuki OE 0940908308T01
 Honda OE 91505SL0003
 Nissan OE 0155301753
 Mitsubishi OE MR720431
 Toyota OE 9046708182



VTX-017
 Toyota OE 9046707164
 Fiat OE 71741883
 Honda OE 731555S0004
 Subaru OE 940907332
 Suzuki OE 0940907332000
 Mitsubishi OE MR220501
 Mazda OE 959AK07332



VTX-018
 Nissan OE 0155309321
 Mistubishi OE MR328954



VTX-019
 Mazda OE BC1D56145
 Ford OE 4327144



VTX-020
 Mazda OE MB45556143
 Ford OE W705845S300
 Hyundai OE 8659028000



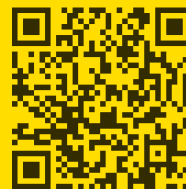
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TRUCK & TRAILER PARTS - PLUGS - SOCKETS - WIRE HARNESSSES - LIGHTING - BATTERY TERMINALS - SCREWS - BOLTS - NUTS -
WIRE - CABLE - BUNDLING SYSTEMS - PROTECTION TUBING - EV PRODUCTS - TERMINALS - CONNECTORS - TERMINAL BLOCKS -
HOUSING - FUSES - FUSE HOLDERS - RELAYS - SWITCHES - PILOT LIGHTS - BUZZERS - TOOLS - ASSORTMENT KITS