AE INDUSTRIES

YOUR INVISIBLE PARTNER

Consignment, VMI/CMI, Order Fulfillment and Product Management

Products

AE Industries offers a complete program for the automotive, DIY and technical installation aftermarket.

- **Truck & Trailer**
  Sockets & plugs, wiring kits, junction boxes, adapters, lighting & reflectors, hose clamps, trailer nets, air spirals, trailer parts
- **Car battery**
  Terminals & clamps, booster cables, mass connection strips, circuit breakers
- **Wire & Cable**
  Battery, ignition and speaker cable, single and multi core wire
- **Wire bundling and protective systems**
  Cable ties & straps, heat shrink sleeve, braided and insulation sleeve, corrugated tube, spiral wrap, tapes
- **Terminals**
  Insulated and non-insulated terminals & lugs, splices, terminals blocks, solder connectors, open barrel terminals & housing, waterproof housing
- **Fuses and fuse holders**
  Blade, cartridge, bolt-on, ceramic, glass
- **Relays**
- **Switches**
  Switches, pilot lights, buzzers
- **Tools**
  Mechanical tools for crimping, stripping and cutting, multi-tools, sets with a selection of terminals

NEW IN OUR PROGRAM:
- **Vehicle markers**
- **Screws, bolts & nuts**
- **EV products**

This makes AE Industries a true **one-stop shop**!

Your partner in customized packaging

Our products are manufactured in the Far East, warehoused in Breda (the Netherlands) 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.

Skilled people

For quality throughout the entire customer liaising process.
- Product management team for product QA.
- Sales team to listen closely to customer needs.
- Logistics manager and warehouse team for the right products at the right time in the right packaging.
- Graphics department for advice on custom packaging.
- Friendly accounting department for the right delivery and paperwork at the right time and place.

Professional packing

We aim to pack your shipment to see it safely to its final destination. From the type of cargo and mode of transportation to the amount of time in transit etc.: our packing experts know what they are doing. All precautions are taken to ensure cargo reaches its destination undamaged.

Packing and repacking benefits
- Hassle-free logistics
- Ordering your complete products in one go
- One supplier for all of your products
- Use of your own part numbers

AE Industries

has been an ISO certified company since 1996. We custom-pack your orders in cooperation with the sheltered workshop. We have been a learning company for several years now.

AE INDUSTRIES
YOUR INVISIBLE PARTNER

ISO 9001

1. Truck & Trailer Parts

2. Plugs & Sockets

3. Lighting

4. Vehicle Markers

5. Battery

6. Hose Clamps

7. Screws, Bolts & Nuts

8. Wire & Cable

13. Cord end terminals

14. Housing

15. Fuses and Holders

16. Relays, switches, pilot lights & Buzzers

17. Tools

18. Assortment kits

Truck & Trailer Parts

Plugs & Sockets

Lighting

Vehicle Markers

Battery

Hose Clamps

Screws, Bolts & Nuts

Wire & Cable

Bundling & Protection

EV Products

Insulated Terminals

Non-insulated Terminals

Cord End Terminals

Housing

Fuse Holders

Relays, Switches, Flashers & Buzzers

Coupling

Part nr.	Description
TP0013	Towball straight, M22 x 60 mm, 1500 kg
TP0017	Towball angled, 17 x 90 mm, 3500 kg, E-approved
TP0017-2	Towball double version, galvanized, 3500 kg
TP0045	Towball coupling square, 50 mm, 750 kg, with opening for cylinder lock
TP0022	Towball coupling square, 60 mm, 750 kg, with opening for cylinder lock
TP0031	Towball coupling square, 70 mm, 750 kg, with opening for cylinder lock
TP0046	Towball coupling round, 50 mm, 750 kg, with opening for cylinder lock
TP0030	Towball coupling round, 60 mm, 750 kg, with opening for cylinder lock
TP0023	Towball coupling round, 70 mm, 750 kg, with opening for cylinder lock
TP0051	Towball coupling round, 40/45/50 mm, 2300 kg braked, adaptorset included
TP0052	Towball coupling round, 45/46 mm, 3000 kg braked, EM300A
TP0048	Towball coupling round, 50/51 mm, 3000 kg braked, EM300A
TP0047	Towball coupling square, 60 mm, 1300 kg braked, with opening for cylinder lock
TP0037	Universal towball coupling round, 40/45/50 mm, 3000 kg braked, adaptor set included
TP0050	Universal ZSK towball coupling round, 40/50 mm, 2000 kg braked, can be used with adaptor set TP0074
TP0074	Adaptor set for TP0050, 35/45 mm: 2000 kg braked, 45/50 mm: 2200 kg braked

TP0013

TP0017

TP0017-2

TP0051
adaptor set included

TP0046 50 mm
TP0030 60 mm
TP0023 70 mm

TP0045 50 mm
TP0022 60 mm
TP0031 70 mm

TP0037
adaptor set included

TP0050
can be used with adaptor set TP0074

TP0047

TP0052 45/46 mm
TP0048 50/51 mm

TP0074
for use with TP0050

TP0007

THD001

TP0012

TP0044

Part nr.	Description
TP0007	Towball cap with ring, rubber
THD001	Towball cap, PVC
TP0012	Towball cap with lock and key, chrome-plated PVC
TP0044	Tow ball cap with ring, PVC
TP0021	Mounting bracket for socket, PVC with metal ring
TP0021-1	Mounting bracket for socket, 130 x 65 mm, metal
TP0036	Socket cover, flexible PVC
TP0039	Plug holder, metal
PDDB001	Parking socket for 12V 13 pole (ISO 11446) plugs, nylon

TP0021

TP0021-1

TP0036

PDDB001

TP0039

Safety

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

TP0041

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

TP0002

TP0005

TP0053

TP0054

TP0002Z

Anti-theft

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

TP0004 Ø 70 mm
TP0018 Ø 90 mm

TP0008

TP00009

TP0019

TP0004-1 Ø 70 mm

TP0027

TP0024

TP0012

TP0084

TP0025

AE INDUSTRIES

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, 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, air tire 260 x 85 mm	150 kg	90 kg

TP0006
TP0015
TP0028
TP0055
TP0056
TP0057
TP0058

Axes & spare wheels

Part nr.	Description
TP0076	Axis jockey wheel, 90 mm
TP0077	Axis jockey wheel, 120 mm
TP0011	Spare wheel, metal rim, solid rubber tire, 200 x 50 mm
TP0014	Spare wheel, metal rim, air tire, 260 x 85 mm
TP0059	Spare wheel, PVC rim, air tire, 260 x 85 mm
TP0060	Spare wheel, metal rim, solid rubber tire, 200 x 60 mm

TP0076
TP0077
TP0011
TP0014
TP0059
TP0060

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, Ø 60/70 mm

TP0003
TP0062
TP0075
TP0079

Hinges & latches

Part nr.	Description
TP0026	Tailgate latch Tico with counterpart, 275 x 80 mm, plate 152 x 80 mm, hole distance 45 mm
TP0026-1	Counterpart for TP0026-2
TP0026-2	Tailgate latch Tico, 275 x 80 mm, plate 152 x 80 mm, hole distance 45 mm

TP0026

TP0026-1

TP0026-2

TP0033

TP0034

TP0063

TP0064

Part nr.	Description
TP0033	Left board latch no. 0, left
TP0034	Right board latch no. 0, right
TP0063	Screw-on eyelet nr. 0, 90 x 60 mm
TP0064	Screw-on eyelet nr. 1, 120 x 70 mm

TP0067

TP0067-1

Part nr.	Description
TP0067	Trailer latch, 210 x 45 mm
TP0067-1	Counterpart for TP0067
TP0068	Trailer latch, 205 x 45 mm
TP0068-1	Counterpart for TP0068

TP0068

TP0068-1

TP0065

TP0078

TP0066

TP0069

TP0070

Part nr.	Description
TP0065	Trailer hinge, 320 x 56 x 16 mm, hole 16 mm
TP0078	Trailer hinge, 220 x 56 x 16 mm, hole 16 mm
TP0066	Weld-on hinge post, 15 mm
TP0069	Drop catch weld-on
TP0070	Drop catch threaded, screw size M12 x 24 mm

TP0032

TP0020

Part nr.	Description
TP0032	Springbolt with cap, 165 x 76 x 39 mm
TP0102	Buckle strap, 70 cm
TP0020	Bonnet fastener with counterpart

TP0102

Support

Part nr.	Description
TP0016	Prop stand 48 mm, length 700 mm
TP0061	Prop stand 48 mm, adjustable length 420 - 750 mm
TP0042	Corner steady
TP0038	Corner steady feet, with metal pin, set of 4 pcs
CH001	Wheel chock, 470x200x230 mm, with metal holder
CH002	Wheel chock, 208x120x110 mm, for caravans and small trailers, with anti-slip pads

TP0061

TP0016

TP0042

TP0038

CH002

CH001

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	4,5
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

TP0071

TP0071-1

Mudguards

Part nr.	Description
TPM0001	Mudguard round, HR22x80
TPM0008	Mudguard round, HR19x68
TPM0010	Mudguard round, HR20x75
TPM0002	Mudguard angular, HMHR19x60
TPM0003	Mudguard angular, HMHR19x66
TPM0004	Mudguard angular, HMHR20x75
TPM0009	Mudguard angular, HMHR21x66
TPM0005	Tandem mudguard round, THRD20x150
TPM0006	Tandem mudguard angular, THMHRD21x152
TPM0007	Tandem mudguard angular, THMHRD23x152

TPM0001 22 x 80 cm
TPM0008 19 x 68 cm
TPM0010 20 x 75 cm

TPM0006 21 x 152 cm
TPM0007 23 x 152 cm

TPM0002 19 x 60 cm
TPM0003 19 x 66 cm
TPM0004 20 x 75 cm
TPM0009 21 x 66 cm
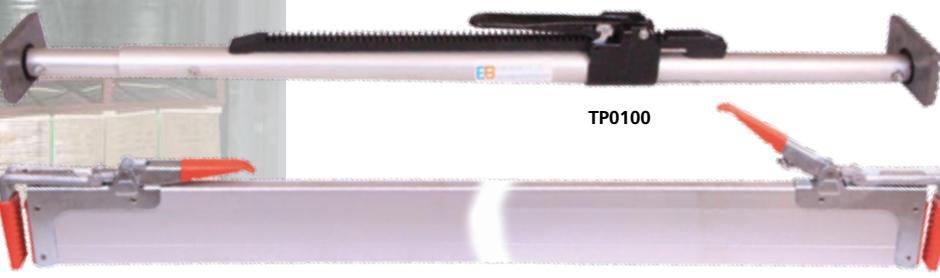
TPM0005 20 x 150 cm

Securing cargo

Part nr.	Description
TP0100	Cargo bar, aluminum, adjustable 2350-2720 mm
TP0101	Cargo plank, aluminum, adjustable 2400-2700 mm
TP0029-1	Lashing eye single, 105 x 105 mm, stainless steel, with spring
TP0029	Counterpart for TP0029-1, 145 x 135 mm
TP0072	Lashing eye single, 95 x 100 mm
TP0040	Lashing eye tourniquet with spring, 65 x 15 mm
TP0073	Screw-on rope hook, 50 x 13 mm
TP0073-1	Screw-on rope hook, 72 x 20 mm, 5 mm holes spaced 20 mm

TP0100

TP0101

TP0029-1

TP0029

TP0072

TP0040

TP0073
TP0073-1

Trailer nets

Part nr.	Size/color	Material	Mesh size
TN0001	1,5 x 2,2 m, green	PP yarn, Ø 3 mm	45 x 45 mm
TN0002	1,5 x 2,7 m, green	PP yarn, Ø 3 mm	45 x 45 mm
TN0003	2,0 x 3,0 m, green	PP yarn, Ø 3 mm	45 x 45 mm
TN0004	2,5 x 4,5 m, green	PP yarn, Ø 3 mm	45 x 45 mm
TN0005	2,5 x 3,5 m, green	PP yarn, Ø 3 mm	45 x 45 mm
TN0006	1,5 x 2,2 m, green	PP yarn, Ø 3 mm	35 x 35 mm
TN0007	1,5 x 2,7 m, green	PP yarn, Ø 3 mm	35 x 35 mm
TN0008	2,0 x 3,0 m, green	PP yarn, Ø 3 mm	35 x 35 mm
TN0009	2,5 x 4,5 m, green	PP yarn, Ø 3 mm	35 x 35 mm
TN0010	2,5 x 3,5 m, green	PP yarn, Ø 3 mm	35 x 35 mm
TN0011	2,5 x 1,6 m, green		fine-meshed
TN0012	3,0 x 2,0 m, green		fine-meshed
TN0013	4,5 x 2,5 m, green		fine-meshed
ER0001	26 cm, green	Elastic rope, Ø 8 mm	

45x45 / 35x35 mm mesh
With black elastic rope Ø 5 mm

ER0001

Fine-meshed
With black elastic rope Ø 6 mm

Fuel caps & hoses

Part nr.	Description
TP0010	LPG filler cap long
TP0043	LPG filler cap short
BZS03065	Petrol hose 3 x 6 mm, length 5 m
BZS04075	Petrol hose 4 x 7 mm, length 5 m
BZS05095	Petrol hose 5 x 9 mm, length 5 m
BZS06105	Petrol hose 6 x 10 mm, length 5 m
BZS07105	Petrol hose 7 x 10 mm, length 5 m
BZS08125	Petrol hose 8 x 12 mm, length 5 m
BZS10145	Petrol hose 10 x 14 mm, length 5 m
BZS12175	Petrol hose 12 x 17 mm, length 5 m

TP0010 long

TP0043 short

BZS03065 3 x 6 mm
BZS04075 4 x 7 mm
BZS05095 5 x 9 mm
BZS06105 6 x 10 mm
BZS07105 7 x 10 mm
BZS08125 8 x 12 mm
BZS10145 10 x 14 mm
BZS12175 12 x 17 mm

Winches

Part nr.	Description
TP0080	Winch cable with hook, 10 mtr x Ø 8 mm
TP0081	Handwinch 545 kg, band 8,5 mtr x 50 mm, with hook, CE approved
TP0082	Handpuller 1814 kg (2 tons max), with cable and hook, cable length 90 cm x Ø 4 mm, CE approved
TP0083	Handpuller 3628 kg (4 tons max), with cable and hook, cable length 1,20 m x Ø 4 mm, CE approved
TP0088	Winch strap with hook, 8,5 mtr x 50 mm

TP0082 2 tons
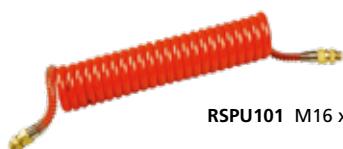
TP0080

TP0083 4 tons

TP0081

TP0088

Air hoses

Coiled air hose, polyurethane	
Part nr.	**Description**
RSPU101	Red polyurethane with galvanized 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 galvanized 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 galvanized 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 galvanized 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
RSPU710	Red and yellow polyurethane with galvanized steel connection supports, 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
RSPU711	Black polyurethane with red and yellow PVC connection supports, 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
RSPU712	Red and yellow polyurethane with galvanized steel connection supports, 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
RSPU801	Red and yellow polyurethane with galvanized steel connection supports, inner diameter 50 mm, outer diameter 75 mm Working length 4,5 mtrs, hose size 8 x 2 x 12 mm, connection M16 x 1,5
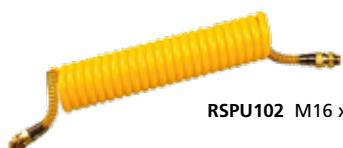
RSPU101 M16 x 1,5

RSPU109 M16 x 1,5

RSPU712 M22 x 1,5
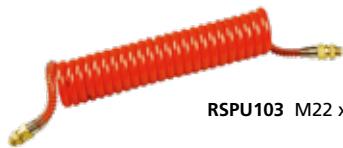
RSPU102 M16 x 1,5

RSPU110 M16 x 1,5

RSPU801 M16 x 1,5

RSPU103 M22 x 1,5

RSPU710 M16 x 1,5

RSPU104 M22 x 1,5

RSPU711 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
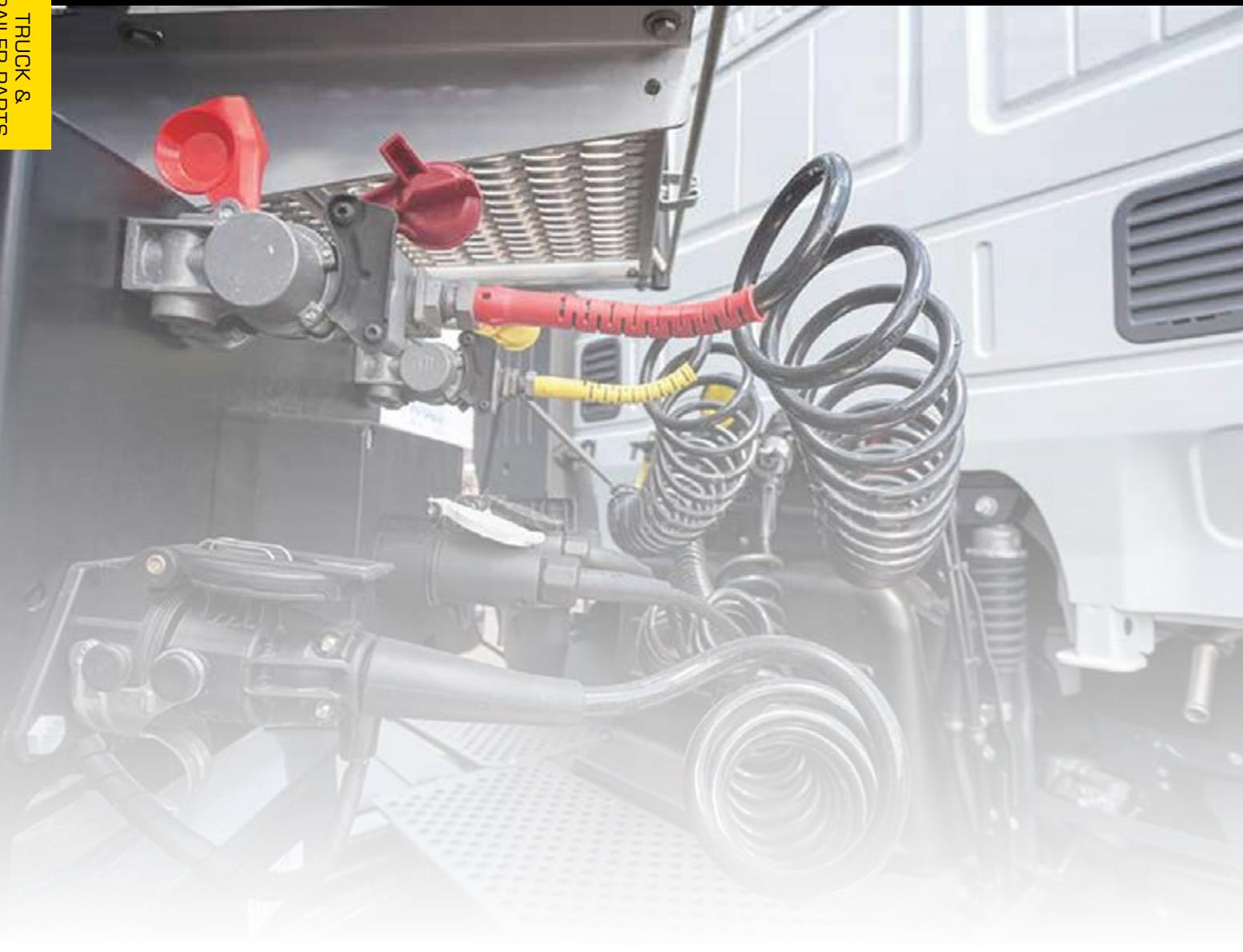
RSPA557

RSPA558

Also available

RSPU092
Black polyurethane
air pressure gun, incl.
T-piece
Working length 4,5 mtrs
Hose size 8 x 6 mm
Max. pressure 10 Bar

Coupling heads

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
RSPU204
RSPU601
RSPU201**

**RSPU604
RSPU203
RSPU602
RSPU202**

Plugs & Sockets

Lighting

Vehicle Markers

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

250V Plugs & sockets - 2 Poles

Part nr.	Description
AE-ZZ001	2 Pole rubber plug, earthed, 250V-16A, CE approved, IP44
AE-ZZ004	2 Pole rubber socket with protective cap, earthed, 250V-16A, CE approved, IP44
AE-ZZ211	2 Pole rubber plug, regular and pin earthed, 250V-16A, CE approved, IP44
AE-ZZ214	2 Pole rubber socket with protective cap, pin earthed, 250V-16A, CE approved, IP44

AE-ZZ001

AE-ZZ004

AE-ZZ211

AE-ZZ214

12V Plugs - 7 Poles

Part nr.	Description
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 aluminum plug, screw contacts, brass pins, ISO 1724, IP54
PL07P002NP	7 pole N type aluminum plug, screw contacts, nickel plated pins, ISO 1724, IP54

PL07P001BRASS

PL07P002BRASS

PL07P001NP

PL07P002NP

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12V Sockets - 7 Poles

Part nr.	Description
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 aluminum socket, screw contacts, with FCO (foglight cut-off), brass pins, ISO 1724, IP54
SC07P002NP	7 Pole N typeluminum 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
PL07P003	7 Pole N type nylon coupling socket with clamp, screw contacts, brass 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 aluminum socket, screw contacts, brass pins, ISO 1724, IP54
SC07P013BRASS	7 Pole N type nylon socket, screw contacts, with FCO (foglight cut-off), brass pins, ISO 1724, IP54
SC07P013NP	7 Pole N type nylon socket, screw contacts, with FCO (foglight cut-off), nickel plated pins, ISO 1724, IP54

SC07P002
FCO

SC07P002NP
FCO

SC07P001BRASS

SC07P001NP

SC07P003BRASS
FCO

SC07P003NP
FCO

SC07P004
Micro FCO

SC07P013BRASS
FCO

SC07P013NP
FCO

SC07P012

PL07P003

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, max. 2 x 1,5 mm²
- Permissible temperature range: -25 °C to 70 °C ambient temperature

Part nr.	Description
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
SC07P007	Twin socket (2 x 7 poles), ISO 3732 system and ISO 1724 system

PL07P005
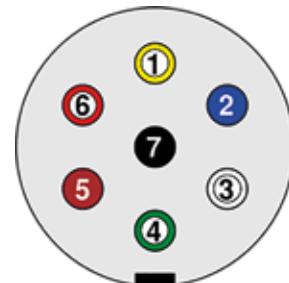
SC07P005

SC07P007

SC07P006

Suitable gaskets

SDT003

SDT001

Pin	Color	Wire	Description
1	Yellow	1,5 mm²	Reversing lights
2	Blue	2,5 mm²	Spare
3	White or grey	2,5 mm²	Common earth, except for pin 6
4	Green	2,5 mm²	+12V permanent
5	Brown	1,5 mm²	Spare
6	Red	2,5 mm²	+12V via ignition switch
7	Black	2,5 mm²	Earth for pin 6

12V Plugs - 13 Poles

Part nr.	Description
PL13P001	13 Pole nylon plug with strain relief, M3 screw contacts, ISO 11446, IP54, wire outlet Ø 9,15 mm
PL13P002	7+6 Pole nylon "WeSt" multi-plug, M3 screw contacts, NEN 6120, IP54

PL13P001

PL13P002 "WeSt"

12V Sockets - 13 Poles

Part nr.	Description
SC13P001	13 Pole plastic socket, screw contacts, nickel plated pins, ISO 11446, IP54
SC13P003	7+6 Pole plastic "WeSt" socket, M3 screw contacts, with micro FCO (foglight cut-off), nickel plated pins, NEN 6120, IP54
SC13P005	13 Pole plastic socket with PVC gasket, screw contacts, with FCO (foglight cut-off), nickel plated pins, ISO 11446, IP54
SC13P006	13 Pole plastic socket with PVC gasket, screw contacts, with micro FCO (foglight cut-off), nickel plated pins, ISO 11446, IP54
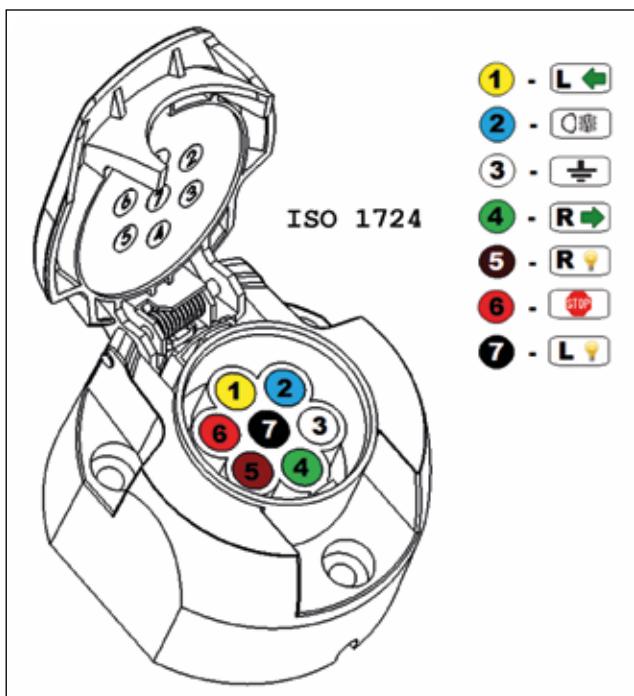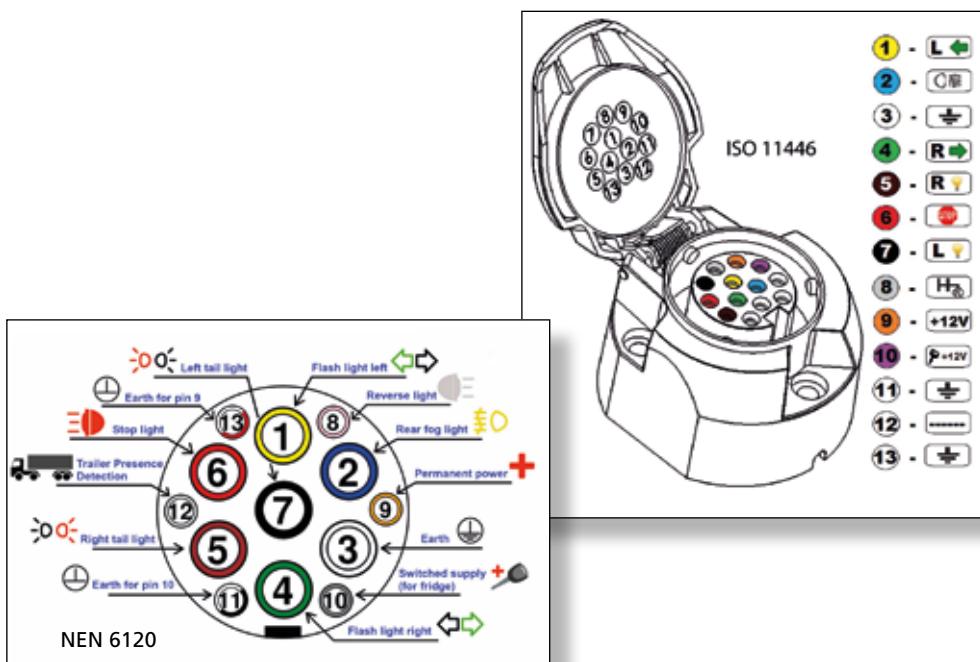
SC13P003 "WeSt"
micro FCO

SC13P001

SC13P005
FCO
With PVC gasket

SC13P006
micro FCO
With PVC gasket

12V Towbar wiring kits - 7 Poles

Part nr.	Strands	Length	Remarks
THKS07P001	7 x 0,75 mm²	1,50 mtr	ISO 1724
THKS07P001FCO	8 x 0,75 mm²	1,50 mtr	With foglight cut-off ISO 1724
THKS07P002	7 x 0,75 mm²	2,0 mtrs	ISO 1724
THKS07P002FCO	8 x 0,75 mm²	2,0 mtrs	With foglight cut-off ISO 1724
THKS07P101	7 x 0,5 mm²	1,5 mtr	With mounting plate ISO 1724 **WITHOUT MOUNTING MATE-RIALS AND RUBBER GASKET**
THKS07P102	7 x 0,5 mm²	2 mtrs	With mounting plate ISO 1724 **WITHOUT MOUNTING MATE-RIALS AND RUBBER GASKET**

THKS07P001

THKS07P001FCO

THKS07P002

THKS07P002FCO

THKS07P101

THKS07P102

ISO 1724

1 - L ←
2 -
3 - ⏚
4 - R →
5 - R
6 - STOP
7 - L

1 2
6 7 3
5 4

Unless otherwise stated, all wire harnesses are supplied with
- waterproof cap
- fasteners & clips
- flexible rubber gasket

ISO 11446

① - L ←
② - ⊙
③ - ⏚
④ - R →
⑤ - R
⑥ - ⊝
⑦ - L
⑧ - H
⑨ - +12V
⑩ - P +12V
⑪ - ⏚
⑫ - ------
⑬ - ⏚

NEN 6120

Left tail light
Earth for pin 9
Stop light
Trailer Presence Detection
Right tail light
Earth for pin 10

Flash light left
Reverse light
Rear fog light
Permanent power
Earth
Switched supply (for fridge)
Flash light right

Unless otherwise stated, all wire harnesses are supplied with
- waterproof cap
- fasteners & clips
- flexible rubber gasket

THKS13P001FCO

THKS13P001

THKS13P002

THKS13P002FCO

THKS13P003FCO "WeSt"

THKS13P004FCO "WeSt"

12V Towbar wiring kits - 13 Poles

Part nr.	Strands	Length	Remarks
THKS13P001	11 x 0,5 mm² 1 x 0,75 mm²	1,5 mtr	ISO 11446
THKS13P001FCO	12 x 0,5 mm² 1 x 0,75 mm²	1,5 mtr	With foglight cut-off ISO 11446
THKS13P002	11 x 0,5 mm² 1 x 0,75 mm²	2,0 mtrs	ISO 11446
THKS13P002FCO	12 x 0,5 mm² 1 x 0,75 mm²	2,0 mtrs	With foglight cut-off ISO 11446
THKS13P003FCO	9 x 0,75 mm² 4 x 1,5 mm²	1,5 mtr	7+6 Pole "WeSt" socket Separate green wires included With foglight cut-off NEN 6120
THKS13P004FCO	9 x 0,75 mm² 4 x 1,5 mm²	2,0 mtrs	7+6 Pole "WeSt" socket Separate green wires included With foglight cut-off NEN 6120
THKS13P101	13 x 0,5 mm²	1,5 mtr	With mounting plate ISO 11446 **WITHOUT MOUNTING MATERIALS AND RUBBER GASKET**
THKS13P102	13 x 0,5 mm²	2,0 mtrs	With mounting plate ISO 11446 **WITHOUT MOUNTING MATERIALS AND RUBBER GASKET**
THKS13P240FCO	9 x 0,75 mm²	2,4 mtrs	With foglight cut-off ISO 11446 **WITHOUT RUBBER GASKET**

THKS13P101

THKS13P102

THKS13P240FCO

12V Adaptors & adaptor cables

Part nr.	Poles		Description
	Car	**Trailer**	
AP13S071	13	7	Adaptor 13/7, nickel plated pins, ISO 1724 & 11446, IP54
AP13S072	13	7	Micro adaptor 13/7, nickel plated pins, ISO 1724 & 11446, 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 1724 & 11446, IP54
APTK001	7+6 "WeSt"	13	Adaptor wiring kit 7+6/13, length 0,7 mtr, ISO 11446 & NEN 6120, IP54
APTK002	13	7	Adaptor wiring kit 13/7, length 0,7 mtr, ISO 1724 & 11446, IP54
APTK003	13	7+6 "WeSt"	Adaptor wiring kit 13/7+6, length 0,7 mtr, ISO 11446 & NEN 6120, IP54
APTK004	7	13	Adaptor wiring kit 7/13, length 0,7 mtr, ISO 1724 & 11446, IP54

AP13S071
13 -> 7 poles

AP13S072
13 -> 7 poles

AP13S073
7 -> 13 poles

AP13S074
13 -> 7+6 poles "WeSt"

AP13S075
7 -> 13 poles
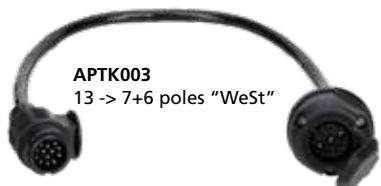
AP13S076
13 -> 7 poles

APTK001
7+6 "WeSt"-> 13 poles

APTK002
13 -> 7 poles

APTK003
13 -> 7+6 poles "WeSt"

APTK004
7 -> 13 poles

ADTK022

ADTK014

ADTK015

ADTK016

12V Spiral & straight coils

Part nr.	Plugs	Strands	Coil	Inner Ø	Outer Ø	Working length	Max. perm. length	Remarks
ADTK022	7 Pole Plastic	6 x 1 mm² 1 x 1,5 mm²	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
ADTK014	13 Pole Nylon	12 x 0,5 mm² 1 x 1 mm²	TPU			3 mtrs	4 mtrs	ISO 11446
ADTK015	7 Pole Aluminum	6 x 0,75 mm² 1 x 1 mm²	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 mm² 1 x 1 mm²	TPU	25 ± 5 mm	35 ± 5 mm	3,5 mtrs ± 50 mm	4 mtrs ± 50 mm	ISO 1724
ADTK017	7 Pole Aluminum	7 x 0,5 mm²	TPU	-	-	3 mtrs		ISO 1724
ADTK018	7 Pole Nylon	7 x 0,5 mm²	PVC	-	-	3 mtrs		ISO 1724 1 x socket 1 x plug

ADTK017

ADTK018

12V Accessories

Testers

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

TES0601

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

TES0602

TES0603

Plug holders & socket cover

TP0039
Plug holder
For 7 or 13 pole plugs

TP0036
Socket cover

PDDB001
Parking socket
For ISO 11446 plugs

Rubber gaskets & mounting brackets

TP0021

TP0021-1

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 13-14 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 7-7,2 mm and 8-8,2 mm
TP0021	Mounting bracket for 7 or 13 pole socket, PVC with metal ring
TP0021-1	Mounting bracket for 7 or 13 pole socket, 130 x 65 mm, metal

SDT001

SDT002

SDT003

SDT004

SDT005

AE INDUSTRIES

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

502021

502011

S type aluminum

Part nr.	Description	Contacts
502021	Aluminum S type socket ISO 3731	Screw
502011	Aluminum S type plug ISO 3731	Screw
502011NUT	Aluminum S type plug with nut ISO 3731	Screw
502011SP	Aluminum S type plug with metal spring cable support ISO 3731	Screw

502011NUT **502011SP**

502023

24PL007

S type nylon

Part nr.	Description	Contacts
502023	Nylon S type socket ISO 3731	Screw
24PL007	Nylon S type plug ISO 3731	Screw
24PL007NUT	Nylon S type plug with nut ISO 3731	Screw
24PL007SP	Nylon S type plug with metal spring cable support ISO 3731	Screw

24PL007NUT **24PL007SP**

502020

502010

N type aluminum

Part nr.	Description	Contacts
502020	Aluminum N type socket ISO 1185	Screw
502010	Aluminum N type plug ISO 1185	Screw
502010NUT	Aluminum N type plug with nut ISO 1185	Screw
502010SP	Aluminum N type plug with metal spring cable support ISO 1185	Screw

502010NUT **502010SP**

502022

24PL006

N type nylon

Part nr.	Description	Contacts
502022	Nylon N type socket ISO 1185	Screw
24PL006	Nylon N type plug ISO 1185	Screw
24PL006NUT	Nylon N type plug with nut ISO 1185	Screw
24PL006SP	Nylon N type plug with metal spring cable support ISO 1185	Screw

24PL006NUT **24PL006SP**

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	Screw	2 x 4 mm² 3 x 1,5 mm²
24PL001	5 Pole ABS plug ISO 7638-1	Screw	2 x 4 mm² 3 x 1,5 mm²

24SC001
5 pole ABS
Screw contacts

24PL001
5 pole ABS
Screw contacts

7 Poles EBS

Part nr.	Description	Contacts	Wire Size
24SC002	7 Pole EBS socket ISO 7638-1	Screw	2 x 4 mm² 5 x 1,5 mm²
24PL002	7 Pole EBS plug ISO 7638-1	Screw	2 x 4 mm² 5 x 1,5 mm²
24PL002PC2	7 Pole EBS plug ISO 7638-1	Crimp	2 x 4 mm² 5 x 1,5 mm²

24PL002
7 pole EBS
Screw contacts

24PL002PC2
7 pole EBS
Crimp contacts

24SC002
7 pole EBS
Screw contacts

24SC003
15 pole
Screw contacts

24PL003
15 pole
Screw contacts

15 Poles

Part nr.	Description	Contacts	Wire Size
24SC003	15 Pole socket ISO 12098	Screw	3 x 2,5 mm² 12 x 1,5 mm²
24PL003	15 Pole plug ISO 12098	Screw	3 x 2,5 mm² 12 x 1,5 mm²
24PL003PC2	15 Pole plug ISO 12098	Crimp	3 x 2,5 mm² 12 x 1,5 mm²

24PL003PC2
15 pole
Crimp contacts

Also available

24SC012

7 Pole plastic EBS socket
Crimping contacts 2 x 4 mm² and 5 x 1,5 mm²
Straight exit for cables Ø 9-16 mm
IP54, ISO 7638-1

502012

7 Pole Europlug
Metal with black coated layer "Menbers"
6,3 tab connection
N Type
Anti-static and spark free
ISO 1185

24SDT001
Seal for S & N type sockets
For cable Ø 18,0

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

TPU spiral cable without plugs
12-24V

SPKA350
Strands: 6 x 0,75 + 1 x 1,0 mm²
Working length 3,5 mtrs

SPKB350
Strands: 6 x 1,0 + 1 x 1,5 mm²
Working length 3,5 mtrs

SPKA400
Strands: 6 x 0,75 + 1 x 1,0 mm²
Working length 4 mtrs

SPKB400
Strands: 6 x 1,0 + 1 x 1,5 mm²
Working length 4 mtrs
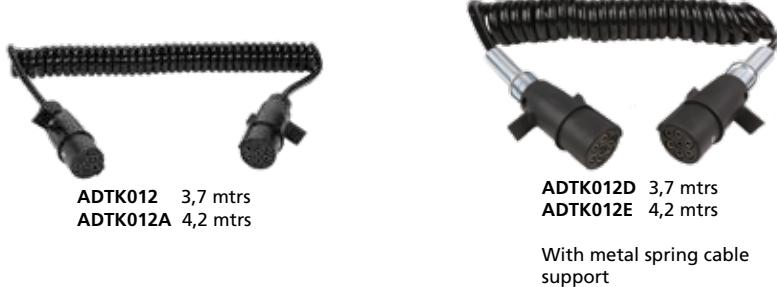
PLUGS & SOCKETS

24V Spiral coils - 2x7 Poles

ADTK010A   3,7 mtrs
ADTK010C   4,2 mtrs

With metal spring
cable support

ADTK010   3,7 mtrs
ADTK010B   4,2 mtrs

N type aluminum

Part nr.	Plugs	Strands	Coil	Inner Ø	Outer Ø	Working length	Max. perm. length	Remarks
ADTK010	7 Pole N type, aluminum	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
ADTK010B	7 Pole N type, aluminum	6 x 1,0 mm^2 1 x 1,5 mm^2	TPU	27 ± 5 mm	38 ± 5 mm	4,2 mtrs ± 50 mm	4,5 mtrs ± 50 mm	ISO 1185
ADTK010A	7 Pole N type, aluminum	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
ADTK010C	7 Pole N type, aluminum	6 x 1,0 mm^2 1 x 1,5 mm^2	TPU	27 ± 5 mm	38 ± 5 mm	4,2 mtrs ± 50 mm	4,5 mtrs ± 50 mm	Metal spring cable support ISO 1185

ADTK012   3,7 mtrs
ADTK012A   4,2 mtrs

ADTK012D   3,7 mtrs
ADTK012E   4,2 mtrs

With metal spring cable
support

N type nylon

Part nr.	Plugs	Strands	Coil	Inner Ø	Outer Ø	Working length	Max. perm. length	Remarks
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
ADTK012A	7 Pole N type, nylon	6 x 1,0 mm^2 1 x 1,5 mm^2	TPU	27 ± 5 mm	38 ± 5 mm	4,2 mtrs ± 50 mm	4,5 mtrs ± 50 mm	ISO 1185
ADTK012D	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	Metal spring cable support ISO 1185
ADTK012E	7 Pole N type, nylon	6 x 1,0 mm^2 1 x 1,5 mm^2	TPU	27 ± 5 mm	38 ± 5 mm	4,2 mtrs ± 50 mm	4,5 mtrs ± 50 mm	Metal spring cable support ISO 1185

ADTK012B   3,7 mtrs
ADTK012C   4,2 mtrs

N type moulded

Part nr.	Plugs	Strands	Coil	Inner Ø	Outer Ø	Working length	Max. perm. length	Remarks
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
ADTK012C	7 Pole N type, nylon	6 x 1,0 mm^2 1 x 1,5 mm^2	TPU	27 ± 5 mm	38 ± 5 mm	4,2 mtrs ± 50 mm	4,5 mtrs ± 50 mm	Moulded plugs ISO 1185

ADTK011 3,7 mtrs
ADTK011B 4,2 mtrs

ADTK011A 3,7 mtrs
ADTK011C 4,2 mtrs

With metal spring
cable support

S type aluminum

Part nr.	Plugs	Strands	Coil	Inner Ø	Outer Ø	Working length	Max. perm. length	Remarks
ADTK011	7 Pole S type, aluminum	6 x 1,0 mm² 1 x 1,5 mm²	TPU	27 ± 5 mm	38 ± 5 mm	3,7 mtrs ± 50 mm	4 mtrs ± 50 mm	ISO 3731
ADTK011A	7 Pole S type, aluminum	6 x 1,0 mm² 1 x 1,5 mm²	TPU	27 ± 5 mm	38 ± 5 mm	3,7 mtrs ± 50 mm	4 mtrs ± 50 mm	Metal spring cable support ISO 3731
ADTK011B	7 Pole S type, aluminum	6 x 1,0 mm² 1 x 1,5 mm²	TPU	27 ± 5 mm	38 ± 5 mm	4,2 mtrs ± 50 mm	4,5 mtrs ± 50 mm	ISO 3731
ADTK011C	7 Pole S type, aluminum	6 x 1,0 mm² 1 x 1,5 mm²	TPU	27 ± 5 mm	38 ± 5 mm	4,2 mtrs ± 50 mm	4,5 mtrs ± 50 mm	Metal spring cable support ISO 3731

ADTK013A 3,7 mtrs

With metal spring
cable support

ADTK013 3,7 mtrs

S type nylon

Part nr.	Plugs	Strands	Coil	Inner Ø	Outer Ø	Working length	Max. perm. length	Remarks
ADTK013	7 Pole S type, nylon	6 x 1,0 mm² 1 x 1,5 mm²	TPU	27 ± 5 mm	38 ± 5 mm	3,7 mtrs ± 50 mm	4 mtrs ± 50 mm	ISO 3731
ADTK013A	7 Pole S type, nylon	6 x 1,0 mm² 1 x 1,5 mm²	TPU	27 ± 5 mm	38 ± 5 mm	3,7 mtrs ± 50 mm	4 mtrs ± 50 mm	Metal spring cable support ISO 3731

ADTK011D 3,7 mtrs
ADTK011E 4,2 mtrs

S type moulded

Part nr.	Plugs	Strands	Coil	Inner Ø	Outer Ø	Working length	Max. perm. length	Remarks
ADTK011D	7 Pole S type, nylon	6 x 1,0 mm² 1 x 1,5 mm²	TPU	27 ± 5 mm	38 ± 5 mm	3,7 mtrs ± 50 mm	4 mtrs ± 50 mm	Moulded plugs ISO 3731
ADTK011E	7 Pole S type, nylon	6 x 1,0 mm² 1 x 1,5 mm²	TPU	27 ± 5 mm	38 ± 5 mm	4,2 mtrs ± 50 mm	4,5 mtrs ± 50 mm	Moulded plugs ISO 3731

24V Spiral coils - 15 -> 2x7 Poles

Part nr.	Plugs	Strands	Coil	Inner Ø	Outer Ø	Working length	Max. perm. length	Remarks
ADTK004	15 pole 13 connection, ISO 12098 7 pole N type, aluminum, ISO 1185 7 pole S type, aluminum, ISO 3731	6 x 1,0 mm² 1 x 1,5 mm²	TPU	27 ± 5 mm	38 ± 5 mm	3,7 mtrs ± 50 mm	4 mtrs ± 50 mm	
ADTK004A	15 pole 13 connection, ISO 12098 7 pole N type, aluminum, ISO 1185 7 pole S type, aluminum, ISO 3731	6 x 1,0 mm² 1 x 1,5 mm²	TPU	27 ± 5 mm	38 ± 5 mm	3,7 mtrs ± 50 mm	4 mtrs ± 50 mm	Metal spring cable support
ADTK005	15 Pole 13 connection, ISO 12098 7 Pole N type, nylon, ISO 1185 7 Pole S type, nylon, ISO 3731	6 x 1,0 mm² 1 x 1,5 mm²	TPU	27 ± 5 mm	38 ± 5 mm	3,7 mtrs ± 50 mm	4 mtrs ± 50 mm	
ADTK005A	15 Pole 13 connection, ISO 12098 7 Pole N type, nylon, ISO 1185 7 Pole S type, nylon, ISO 3731	6 x 1,0 mm² 1 x 1,5 mm²	TPU	27 ± 5 mm	38 ± 5 mm	3,7 mtrs ± 50 mm	4 mtrs ± 50 mm	Metal spring cable support
ADTK006	15 Pole 13 connection, ISO 12098 7 Pole N type, nylon, ISO 1185 7 Pole S type, nylon, ISO 3731	6 x 1,0 mm² 1 x 1,5 mm²	TPU	27 ± 5 mm	38 ± 5 mm	3,7 mtrs ± 50 mm	4 mtrs ± 50 mm	Moulded plugs
ADTK006A	15 Pole 13 connection, ISO 12098 7 Pole N type, nylon, ISO 1185 7 Pole S type, nylon, ISO 3731	6 x 1,0 mm² 1 x 1,5 mm²	TPU	27 ± 5 mm	38 ± 5 mm	4,2 mtrs ± 50 mm	4,5 mtrs ± 50 mm	Moulded plugs

ADTK004 3,7 mtrs

S+N aluminum plugs

ADTK005 3,7 mtrs

S+N nylon plugs

ADTK004A 3,7 mtrs

S+N aluminum plugs
with metal spring
cable support

ADTK005A 3,7 mtrs

S+N nylon plugs
with metal spring
cable support

ADTK006 3,7 mtrs
ADTK006A 4,2 mtrs

S+N moulded
plugs

24V Spiral coils - ABS, EBS and ADR

Part nr.	Plugs	Strands	Coil	Inner Ø	Outer Ø	Working length	Max. perm. length	Remarks
ADTK007	5 Pole ABS, nylon	2 x 4 mm² 3 x 1,5 mm²	TPU	20 ± 5 mm	40 ± 5 mm	3,7 mtrs ± 50 mm	4 mtrs ± 50 mm	ABS ISO 7638-1
ADTK007A	5 Pole ABS, nylon	2 x 4 mm² 3 x 1,5 mm²	TPU	20 ± 5 mm	40 ± 5 mm	4,2 mtrs ± 50 mm	4,5 mtrs ± 50 mm	ABS ISO 7638-1
ADTK008	7 Pole EBS, nylon	2 x 4,0 mm² 5 x 1,5 mm²	TPU	20 ± 5 mm	40 ± 5 mm	3,7 mtrs ± 50 mm	4 mtrs ± 50 mm	EBS ISO 7638-1
ADTK008A	7 Pole EBS, nylon	2 x 4,0 mm² 5 x 1,5 mm²	TPU	20 ± 5 mm	40 ± 5 mm	4,2 mtrs ± 50 mm	4,5 mtrs ± 50 mm	EBS ISO 7638-1
ADTK008C	7 Pole EBS, nylon, ADR	2 x 4,0 mm² 5 x 1,5 mm²	TPU	20 ± 5 mm	40 ± 5 mm	3,7 mtrs ± 50 mm	4 mtrs ± 50 mm	EBS, ADR ISO 7638-1
ADTK020	15 Pole, nylon, ADR	12 x 1,5 mm² 3 x 2,5 mm²	TPU	20 ± 5 mm	40 ± 5 mm	3,7 mtrs ± 50 mm	4 mtrs ± 50 mm	ADR ISO 12098
ADTK020A	15 Pole, nylon, ADR	12 x 1,5 mm² 3 x 2,5 mm²	TPU	20 ± 5 mm	40 ± 5 mm	4,2 mtrs ± 50 mm	4,5 mtrs ± 50 mm	ADR ISO 12098

ADTK007　3,7 mtrs
ADTK007A　4,2 mtrs

ABS

ADTK008　3,7 mtrs
ADTK008A　4,2 mtrs
ADTK008C　3,7 mtrs ADR

EBS

ADTK020　3,7 mtrs
ADTK020A　4,2 mtrs

ADR

24V Coils - 2 Poles

For power transmission to charge a battery or to power a trailer, a tailgate, a fridge motor, etc.

ADTK558

ADTK559

ADTK501　3 mtrs
ADTK502　3,5 mtrs
ADTK503　3 mtrs
ADTK504　3,5 mtrs

Part nr.	Plugs	Strands	Coil	Working length	Max. perm. length	Remarks
ADTK501	2 Nylon plugs Nickel plated brass pins	2x 35 mm²	TPU	3 mtrs	4 mtrs ± 50 mm	Spiral coil
ADTK502	2 Nylon plugs Nickel plated brass pins	2x 35 mm²	TPU	3,5 mtrs	4,5 mtrs ± 50 mm	Spiral coil
ADTK503	2 Nylon plugs Silver plated red copper pins	2x 35 mm²	TPU	3 mtrs	4 mtrs ± 50 mm	Spiral coil
ADTK504	2 Nylon plugs Silver plated red copper pins	2x 35 mm²	TPU	3,5 mtrs	4,5 mtrs ± 50 mm	Spiral coil
ADTK558	2 Plugs Silver plated copper pins	2x 35 mm²		3 mtr		Straight coil
ADTK559	2 Plugs 350A Anderson plug	2x 35 mm²		3 mtr		Straight coil

24V SB connectors

Part nr. grey	Part nr. red	Part nr. black	For max. cable	Rating	Size	Remarks
SB2P50M6GRS	SB2P50M6ROD	SB2P50M6ZWT	6 mm²	50A	(LxWxH) 48 x 37 x 16 mm	Polycarbonate, silver plated contacts included
SB2P50GRS	SB2P50ROD	SB2P50ZWT	16 mm²	50A	(LxWxH) 48 x 37 x 16 mm	Polycarbonate, silver plated contacts included
SB2P120GRS	SB2P120ROD		35 mm²	120A	(LxWxH) 67 x 45 x 20,8 mm	Polycarbonate, silver plated contacts included
SB2P175GRS	SB2P175ROD		60 mm²	175A	(LxWxH) 80 x 56 x 26 mm	Polycarbonate, silver plated contacts included
SB2P350GRS	SB2P350ROD		70 mm²	350A	(LxWxH) 108 x 70 x 34 mm	Polycarbonate, silver plated contacts included

SB2P350GRS **SB2P175ROD** **SB2P50M6ZWT**

24V SB connector dust covers

Part nr. grey	Part nr. red	Part nr. black	Suitable for	Remarks
	SBAP175ROD	SBAP175ZWT	175A connectors	Elastic industrial grade rubber
	SBAP350ROD	SBAP350ZWT	350A connectors	Elastic industrial grade rubber

SBAP350ROD **SBAP175ZWT**

24V SB connector hand grips

Part nr. grey	Part nr. red	Part nr. black	Suitable for	Remarks
SBHG120GRS	SBHG120ROD		120A connectors	Nylon, mounting materials included
SBHG175/350GRS	SBHG175/350ROD		175A or 350A connectors	Nylon, mounting materials included

SBHG175/350GRS **SBHG120ROD**

24V Special applications

24PL009
12 Pole rubberized break-proof metal plug
For cable Ø 24,0 mm
Silver plated solder contacts
Nato Stock no. 5935-12-188-1750
IP67, IPX7 protection
VG 96923 B1-12P / MS75020-1

24PL008
For cable Ø 17,0 mm
Nato Stock no. 5935-12-350-1294
VG 96923 B2-12P / MS75020-1

24SC009
Socket contact with surrounding
spring
Silver plated crimp/solder contact
For max. 50 mm² cable
Spare part for 24SC007
Nato Stock no. 5999-12-335-5654
VG 96917 S50

24SC006
12 Pole break-proof metal socket
For cable Ø 23,5
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

24SC007
2 Pole break-proof metal socket
For max. 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

24PL012
2 Pole reinforced composite plug
For max. 35 mm² cable
Silver plated crimp/solder contacts
IP54, IPX4, IPX7 protection
VG 96917

24PL013
For max. 50 mm² cable

PL02P001
2 Pole break-proof metal sealing plug
For max. 35 mm² cable
Silver plated crimp/solder contacts
IP54, IPX4, IPX7 protection
VG 96917

24PL010
2 Pole waterproof break-proof metal plug
For max. 35 mm² cable
Silver plated crimp/solder contacts
With rubberized metal screw ring
Length 120 mm
IP54, IPX4, IPX7 protection
VG 96917 E001B

24PL011
For max. 50 mm² cable
VG 96917

24ADTK001
12 Pole spiral coil
Rubberized break-proof metal
plugs (VG 96923 B2-12P)
Working length 3,5 mtrs
Max. extension length 4 mtrs
IP67, IPX7 protection
VG 96927-22

24SC008
2 Pole reinforced composite socket
For max. 35 mm² cable
Silver plated crimp/solder contacts
With rubber cap
IP54, IPX4, IPX7 protection
VG 96917

24PL016
2 Pole rubberized break-proof metal plug
Silver plated crimp/solder contacts
For max. 50 mm² cable
IP54, IPX4, IPX7 protection
VG 96917

24PL014
Plug contact
Silver plated crimp/solder contact
For max.35 mm² cable
Spare part for 24PL010 / 24PL012 / PL02P001
Nato Stock no. 5999-12-187-6686
VG 96917 P35

24PL015
For max. 50 mm² cable
Spare part for 24PL011 / 24 PL013 / 24PL016
VG 96917

24SC011
2 Pole rubberized break-proof
metal coupler
Silver plated contacts
For 24PL010 / 011 / 012 / 013
Without screw caps
IP54, IPX4, IPX7 protection
VG 96917

6-24V Applications

SC01P001

SC01P004

SC01P004-1

SC01P005

Single sockets		
Part nr.	**Description**	**Remarks**
SC01P001	DIN standard built-in socket for standard plugs	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 6-24V, 16A ISO 4165
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 24V, 16A
SC01P005	Built-in socket with slotted housing Universal and norm socket	Screw connection 12-24V, 20A DIN EN 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 12 mm 12-24V, 20A with 2,5 mm² cable, 16A with 1,5 mm² cable
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 12 mm 12-24V, 20A with 2,5 mm² cable, 16A with 1,5 mm² 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 EN 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 12 mm 12-24V, 20A with 2,5 mm² cable, 16A with 1,5 mm² cable

SC01P012-1

SC01P012

SC01P020

APTK009

SC01P030

SC01P013

APTK106

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 12 mm 2 x 1,5 mm² cable, length 2 mtrs 12-24V, 16A
APTK102	Triple surface-mounted socket (2 x power, 1 x USB) USB socket with integrated power voltage converter 12-24V -> 5V	Pre-assembled 0,5 mm² cable connection, length appr. 15 cm 8-34V in, max. 3A out
APTK108	Triple surface-mounted socket for universal plugs	Inner Ø 12 mm 12-24V, 20A with 2,5 mm² cable, 16A with 1,5 mm² cable
APTK111	Triple built-in socket for universal plugs	6,3 mm tab connection Inner Ø 12 mm 12-24V, 16A DIN EN ISO 4165

APTK007

APTK012

APTK010

APTK109

APTK102

APTK111

APTK108

PL01P001

PL01P004

PL01P002

PL01P005

PL01P006

Plugs

Part nr.	Description	Remarks
PL01P001	Universal plug for cigarette lighter, with glass fuse	Screw terminal for 2,5 mm² 12-24V, 16A
PL01P004	Universal safety plug for cigarette lighter, with glass fuse	Screw terminal for 2,5 mm² 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	Wire size max 1,5 mm² 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 mm² cable, length 2 mtrs 12-24V, 8A

APTK107

PLUGS & SOCKETS

Adaptor

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

APTK013

APTK006

APTK014

APTK015

Extension cables

Part nr.	Description	Remarks
APTK006	Extension cable with universal safety plug and socket	Cable length 0,6 to 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 EN 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 in 5V, 2,1A out
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 mm² cable connection 8-34V in 5V, 3A out
APTK016	USB cable with 2A universal safety plug, for charging and operating devices that are suitable for charging by 5V USB	Cable length 1,8 mtrs Input 12V Output 5V, 1000mA
APTK011	Micro USB cable	Cable length 1,8 mtrs **3A out, not suitable for charging mobile phones**
APTK102	Triple surface-mounted socket (2 x power, 1 x USB) USB socket with integrated power voltage converter 12-24V -> 5V	Pre-assembled 0,5 mm² cable connection, length appr. 15 cm 8-34V in, max. 3A out
APTK010	Triple socket (2 x power, 1 x USB) with universal plug	Cable length 1,5 mtrs Inner Ø 12 mm 12V -> 5V, 1000mA

SC01P009

SC01P010

APTK016

APTK011

APTK102

APTK010

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

2 Poles

PL02P004

2 Pole aluminum plug
Screw terminals
With cap nut for cable Ø 6-10 mm
6-24V, 30A
DIN 14690

SC02P001

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

3 Poles

SC03P001

2 Pole plastic trailer socket
Screw connection M3
6-24V
ISO 1185 / ISO 3731

AE-ZZ006

3 Pole plastic socket
2 x 6,3 and 1 x 4,8 mm tab contacts
6-24V

PL03P008

3 Pole plastic trailer plug
Screw connection M3
6-24V
ISO 1185 / ISO 3731

AE-ZZ005

3 Pole plastic plug
2 x 6,3 and 1 x 4,8 mm tab contacts
Protection type IP54
6-24V, 16A@24V (1,5 mm²) or 25A@24V (2,5 mm²)

PLUGS & SOCKETS

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

AE-ZZ042
8 Pole junction box

Part nr.	Poles	Connection	Dimenstions	IP	Remarks
JB06P001	1x6	Terminal block	125 x 73 x 32 mm		
JB08P001	2x4	Terminal blocks	125 x 73 x 32 mm		
JB08P002	4x2	Tab connectors 6,3x0,8	125 x 73 x 32 mm		
JB06P002	1x6	Screw contacts	120 x 70 x 30 mm		With rubber grommets and metal lid with clamps
JB08P004	2x8	Tab connectors 6,3x0,8	125 x 80 x 35 mm		Plastic lid with clamps
AE-ZZ002	2x8	Tab connectors 6,3x0,8	145 x 95 x 35 mm		PA housing, aluminum lid with clamps
AE-ZZ031	2x8	Tab connectors 6,3x0,8	87 x 31 x 23 mm		
AE-ZZ042	1x8	Screw contacts	120 x 120 x 64 mm	IP66	ISO ATEX-norm ADR/GGVS checked

Vehicle Markers

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

Rear lights - LED
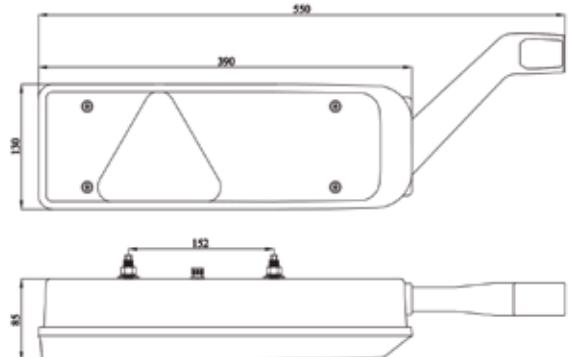
LTL1834 right
LTL1835 left

LED

PG plug

Part nr.	Mounting side	Rating	Connection	Light source	Outline marker	Side marker	Reflector	Stop	Tail	Reverse	Direction indicator	Number plate	Fog	Approval
LTL1834	Right		PG plug	LED	LED		△	✓	✓	✓	✓	✓	✓	ECE E9
LTL1835	Left		PG plug	LED	LED		△	✓	✓	✓	✓	✓	✓	ECE E9

TP0085

TP0086
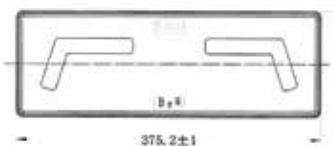
TP0085 left
TP0086 right

LED
Dimensions 210 x 157 mm

Part nr.	Mounting side	Rating	Connection	Light source	Outline marker	Side marker	Reflector	Stop	Tail	Reverse	Direction indicator	Number plate	Fog	Approval
TP0085	Left	12V		LED			△	✓	✓	✓	✓			ECE
TP0086	Right	12V		LED			△	✓	✓		✓		✓	ECE

LTL1828 cable left
LTL1829 cable right

LED
Bolt mounting 2 x M8
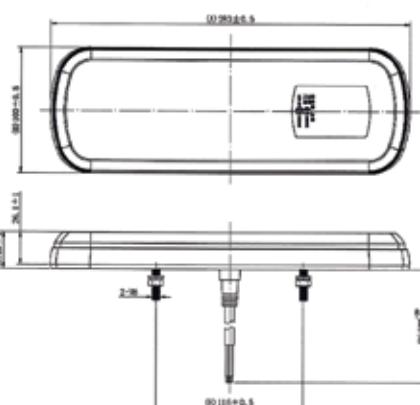
LTL1829

LTL1828

Part nr.	Mounting side	Rating	Connection	Light source	Outline marker	Side marker	Reflector	Stop	Tail	Reverse	Direction indicator	Number plate	Fog	Approval
LTL1828	Universal	12-24V	Cable 0,3 mtr, left	LED			✓	✓	✓	✓	✓		✓	ECE
LTL1829	Universal	12-24V	Cable 0,3 mtr, right	LED			✓	✓	✓	✓	✓		✓	ECE
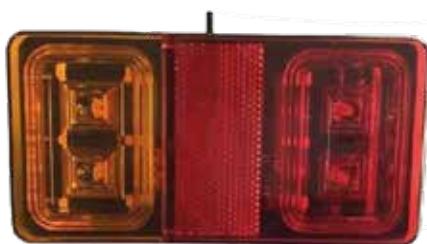
LTL1830

LED
Dynamic direction indicator
Bolt mounting 2 x M6
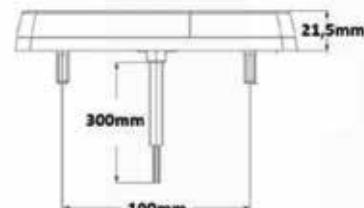
Part nr.	Mounting side	Rating	Connection	Light source	Outline marker	Side marker	Reflector	Stop	Tail	Reverse	Direction indicator	Number plate	Fog	Approval
LTL1830	Universal	12-24V	Cable 0,5 mtr	LED			✓	✓	✓	✓	✓		✓	ECE
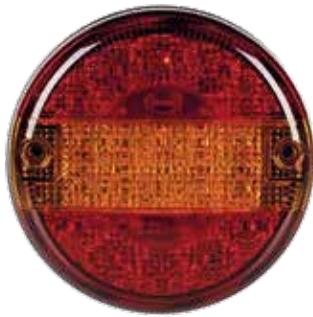
LTL2295

LED
Bolt mounting 2 x M6
Waterproof IP67
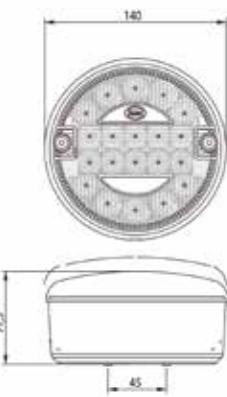
Part nr.	Mounting side	Rating	Connection	Light source	Outline marker	Side marker	Reflector	Stop	Tail	Reverse	Direction indicator	Number plate	Fog	Approval
LTL2295	Universal	12-24V	Cable 0,25 mtr	LED			✓	✓	✓		✓			ECE

LTL1846

LED
Red/amber lens
Waterproof
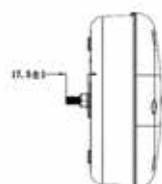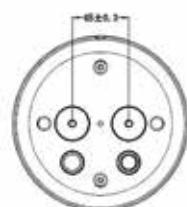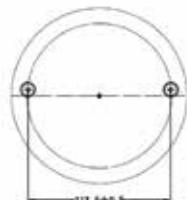
Part nr.	Mounting side	Rating	Connection	Light source	Outline marker	Side marker	Reflector	Stop	Tail	Reverse	Direction indicator	Number plate	Fog	Approval
LTL1846	Universal	9-33V		LED				✓	✓		✓			ECE E4

LTL2203

LED
Bolt mounting 2 x M6
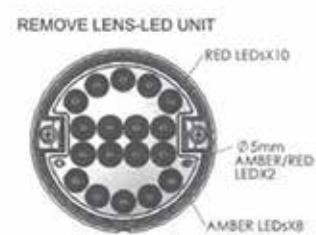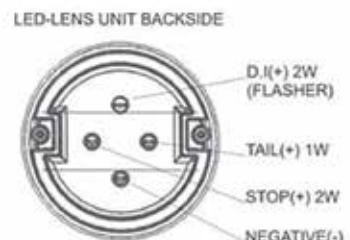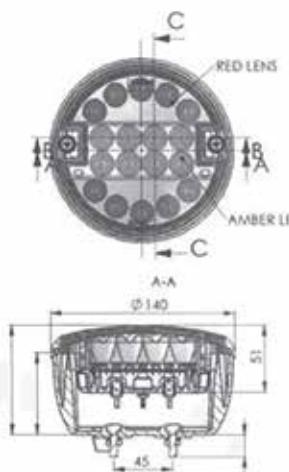
Part nr.	Mounting side	Rating	Connection	Light source	Outline marker	Side marker	Reflector	Stop	Tail	Reverse	Direction indicator	Number plate	Fog	Approval
LTL2203	Universal	9-33V		LED				✓	✓		✓			ECE E4

LTL1847

LED
Red/amber lens
Waterproof

| Part nr.	Mounting side	Rating	Connection	Light source	Outline marker	Side marker	Reflector	Stop	Tail	Reverse	Direction indicator	Number plate	Fog	Approval
LTL1847	Universal	9-33V		LED				✓	✓		✓			ECE E11
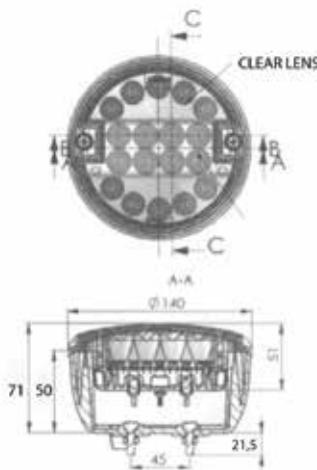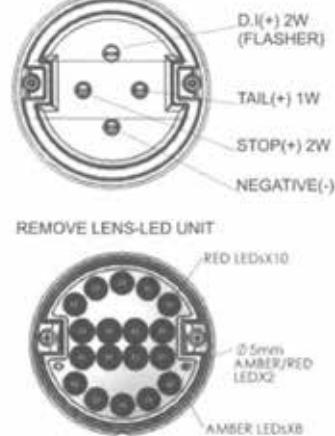
LTL1849

LED
Clear lens
Waterproof
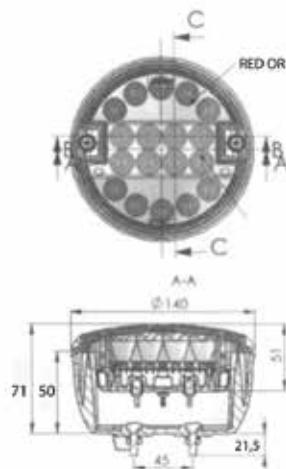
Part nr.	Mounting side	Rating	Connection	Light source	Outline marker	Side marker	Reflector	Stop	Tail	Reverse	Direction indicator	Number plate	Fog	Approval
LTL1849	Universal	9-33V		LED				✓	✓		✓			ECE E11
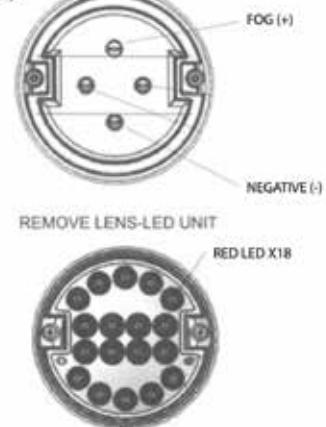
LTL1848 fog light
LED
Red lens
Waterproof

Part nr.	Mounting side	Rating	Connection	Light source	Outline marker	Side marker	Reflector	Stop	Tail	Reverse	Direction indicator	Number plate	Fog	Approval
LTL1848	Universal	9-33V		LED									✓	ECE E11

46

AE INDUSTRIES

TP0087 reverse

LED
Dimension Ø 140 mm
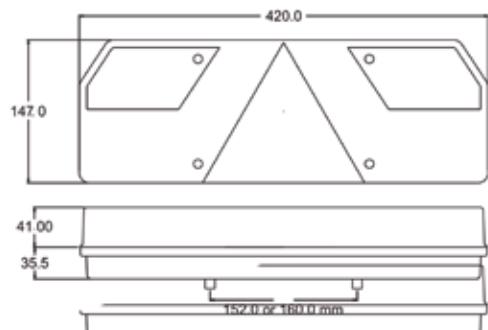
Part nr.	Mounting side	Rating	Connection	Light source	Outline marker	Side marker	Reflector	Stop	Tail	Reverse	Direction indicator	Number plate	Fog	Approval
TP0087	Universal	24V		LED						✔				ECE E11

Rear lights - Bulb

LT5002 right
LT5003 left

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

420.0

147.0

41.00

35.5

152.0 or 160.0 mm

Grommet

Part nr.	Mounting side	Rating	Connection	Light source	Outline marker	Side marker	Reflector	Stop	Tail	Reverse	Direction indicator	Number plate	Fog	Approval
LT5002	Right	24V	Grommet	Bulb		✔	△	✔	✔	✔	✔		✔	ECE E2
LT5003	Left	24V	Grommet	Bulb		✔	△	✔	✔	✔	✔		✔	ECE E2
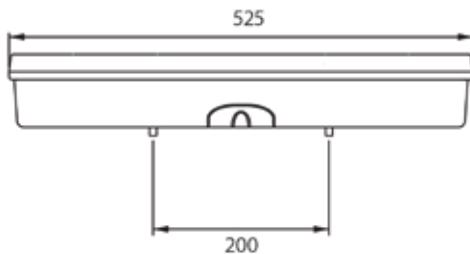
LT5006 right
bulbs 4xP21W, 2xR10W
LT5007 left
bulbs 4xP21W, 3xR10W

Mercedes Type

Grommet
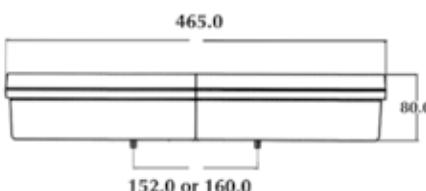
Part nr.	Mounting side	Rating	Connection	Light source	Outline marker	Side marker	Reflector	Stop	Tail	Reverse	Direction indicator	Number plate	Fog	Approval
LT5006	Right	24V	Grommet	Bulb		✓	✓	✓	✓	✓	✓		✓	ECE E2
LT5007	Left	24V	Grommet	Bulb		✓	✓	✓	✓	✓	✓	✓	✓	ECE E2
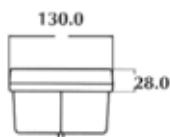
LT5004 right
bulbs: 4xP21W, 3xR5W
LT5005 left
bulbs: 4xP21W, 4xR5W

Volvo Type

Grommet
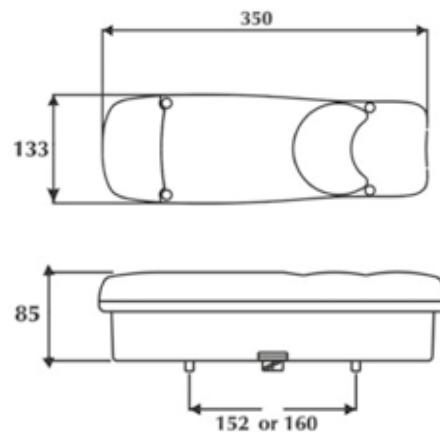
Part nr.	Mounting side	Rating	Connection	Light source	Outline marker	Side marker	Reflector	Stop	Tail	Reverse	Direction indicator	Number plate	Fog	Approval
LT5004	Right		Grommet	Bulb		✓	✓	✓	✓	✓	✓		✓	ECE E2
LT5005	Left		Grommet	Bulb		✓	✓	✓	✓	✓	✓	✓	✓	ECE E2

LT5009 left

**L5 Type**
Bulbs: 4xP21W, 3xR10W
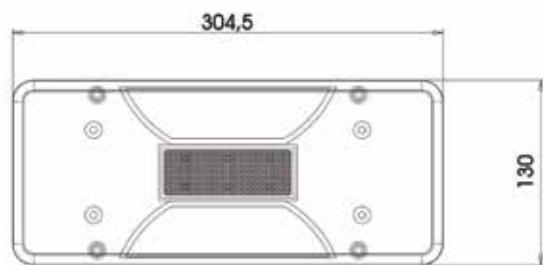
Grommet

Part nr.	Mounting side	Rating	Connection	Light source	Outline marker	Side marker	Reflector	Stop	Tail	Reverse	Direction indicator	Number plate	Fog	Approval
LT5008	Right	24V	Grommet	Bulb			✓	✓	✓	✓	✓		✓	ECE E2
LT5009	Left	24V	Grommet	Bulb			✓	✓	✓	✓	✓	✓	✓	ECE E2

LTL1867 right
LTL1852 left
LTL1843 lens

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

Grommet

Part nr.	Mounting side	Rating	Connection	Light source	Outline marker	Side marker	Reflector	Stop	Tail	Reverse	Direction indicator	Number plate	Fog	Approval
LTL1867	Right		Grommet	Bulb			✓	✓	✓	✓	✓			ECE E2
LTL1852	Left		Grommet	Bulb			✓	✓	✓		✓		✓	ECE E2
LTL1843	Universal lens for LTL1867 and LTL1852													
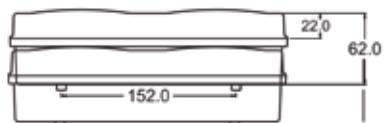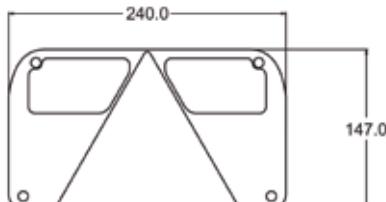
LTL1855 right
LTL1856 left

Compact light
Bulbs: 3xP21W, 1xP21/5W
Can be connected to the junction box with a
2500 mm Trailight cable
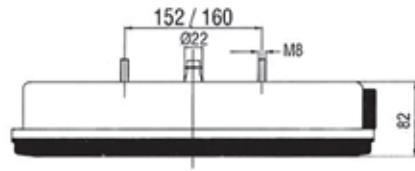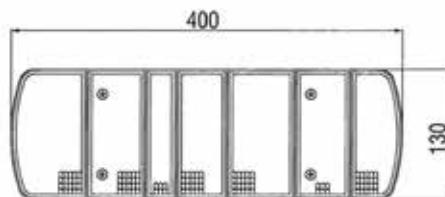
Grommet

Part nr.	Mounting side	Rating	Connection	Light source	Outline marker	Side marker	Reflector	Stop	Tail	Reverse	Direction indicator	Number plate	Fog	Approval
LTL1855	Right		Grommet	Bulb			△	✔	✔	✔	✔		✔	ECE E2
LTL1856	Left		Grommer	Bulb			△	✔	✔	✔	✔		✔	ECE E2

LTL1853 right
LTL1854 left

Bulbs: 4xP21W, 3xR5W

Grommet

Part nr.	Mounting side	Rating	Connection	Light source	Outline marker	Side marker	Reflector	Stop	Tail	Reverse	Direction indicator	Number plate	Fog	Approval
LTL1853	Right		Grommet	Bulb		✔		✔	✔	✔	✔	✔	✔	ECE E9
LTL1854	Left		Grommet	Bulb		✔		✔	✔	✔	✔	✔	✔	ECE E9

LT5001-13

LT5001-10

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

Dimensions 104 x 194 mm
Bulbs: 12V 1xP21/5W, 2xP21W, 1xR5W (not included)

Part nr.	Mounting side	Rating	Connection	Light source	Outline marker	Side marker	Reflector	Stop	Tail	Reverse	Direction indicator	Number plate	Fog	Approval
LT5001-10	Left	12V		Bulb				✓	✓		✓	✓	✓	ECE
LT5001-10-S	Left lens													
LT5001-13	Right	12V		Bulb				✓	✓	✓	✓	✓		ECE
LT5001-13-S	Right lens													
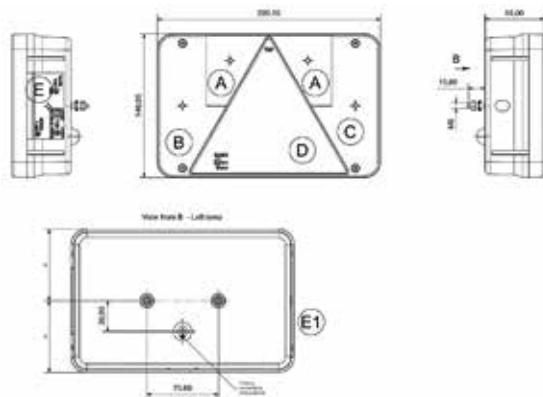
LT5800-13

LT5800-10

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

Dimensions 220 x 140 mm
Bulbs: 12V 1xP21/5W, 3xP21W (not included)

| Part nr.	Mounting side	Rating	Connection	Light source	Outline marker	Side marker	Reflector	Stop	Tail	Reverse	Direction indicator	Number plate	Fog	Approval
LT5800-10	Left	12V		Bulb			△	✓	✓		✓	✓	✓	ECE
LT5800-10-S	Left lens													
LT5800-13	Right	12V		Bulb			△	✓	✓	✓	✓	✓		ECE
LT5800-13-S	Right lens													
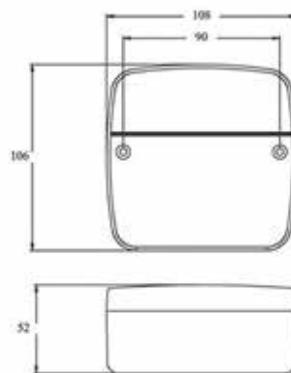
LTL1859

Bulbs: 2xC18W 1xC5W
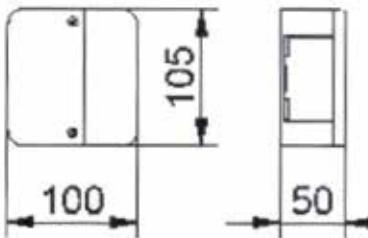
Part nr.	Mounting side	Rating	Connection	Light source	Outline marker	Side marker	Reflector	Stop	Tail	Reverse	Direction indicator	Number plate	Fog	Approval
LTL1859	Universal			Bulb				✓	✓		✓	✓		ECE E2

LT3002   light
LT3003   lens

Dimensions 100 x 105 mm
Bulbs: 1xP21/5W, 1xP21W (not included)
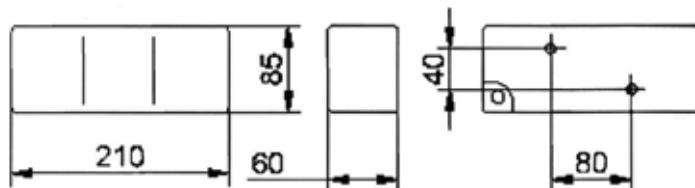
Part nr.	Mounting side	Rating	Connection	Light source	Outline marker	Side marker	Reflector	Stop	Tail	Reverse	Direction indicator	Number plate	Fog	Approval
LT3002	Universal	12V		Bulb				✓	✓		✓			ECE E3
LT3003	Lens													

AE
INDUSTRIES

LIGHTING

LT8100 light
LT8100-S lens

Dimensions 210 x 85 mm
Bulbs: 1xP21/5W, 2xP21W (not included)
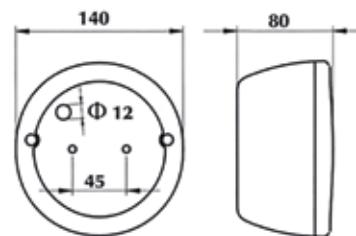
Part nr.	Mounting side	Rating	Connection	Light source	Outline marker	Side marker	Reflector	Stop	Tail	Reverse	Direction indicator	Number plate	Fog	Approval
LT8100	Universal	12V		Bulb				✓	✓		✓			ECE E3
LT8100-S	Lens													

LTL1861

Bulbs: 2xP21W, 1xR5W
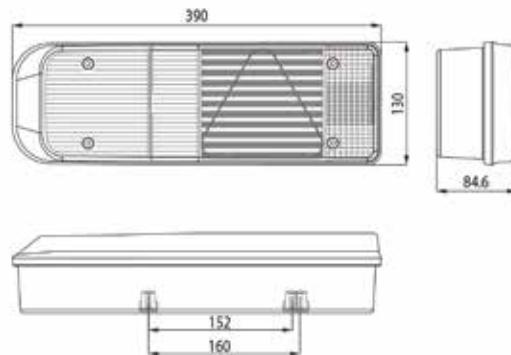
Part nr.	Mounting side	Rating	Connection	Light source	Outline marker	Side marker	Reflector	Stop	Tail	Reverse	Direction indicator	Number plate	Fog	Approval
LTL1861	Universal			Bulb				✓	✓		✓	✓		ECE E2

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

Part nr.	Mounting side	Rating	Connection	Marker light	Outline marker	Side marker	Reflector	Stop	Tail	Reverse	Direction indicator	Number plate	Fog	Approval
LTL1863	Right		PG plug	Bulb			△	✓	✓	✓	✓	✓	✓	ECE E9
LTL1864	Right lens													
LTL1865	Left		PG plug	Bulb			△	✓	✓	✓	✓	✓	✓	ECE E9
LTL1866	Left lens													

Trailer boards

LT250490 magnetic kit
Bulbs included

TB116-B adjustable

Bulbs included

Part nr.	Rating	Connection	Cable	Dimensions	Reflector	Stop	Tail	Reverse	Direction indicator	Number plate	Fog	Approval
LT250490	12V	7 pole plug	7,5 mtrs			✓	✓		✓	✓		ECE
TB112-L	12V	7 pole plug	6 mtrs	1220 mm	△	✓	✓		✓		✓	ECE
TB114	12V	7 pole plug	6 mtrs	1200 x 140 mm	△	✓	✓		✓		✓	ECE
TB117	12V	7 pole plug	9 mtrs	1200 x 140 mm	△	✓	✓		✓		✓	ECE
TB116-B	12V	7 pole plug	7,5 mtrs	Adjustable 1400 - 2100 mm	△	✓	✓		✓			ECE

TB112-L LED

TB114 cable 6 mtrs

Bulbs included

TB117 cable 9 mtrs

Bulbs included
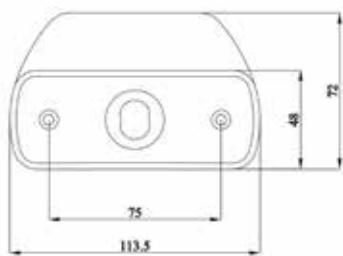
Marker & outline marker lights - LED

LIGHTING
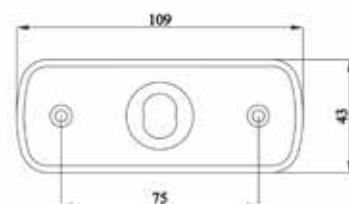
LTL1001 side

Waterproof
With 250 mm Trailight cable
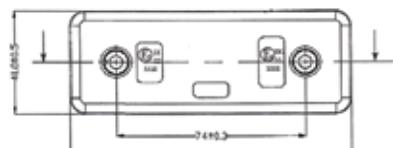
LTL1002 side

Waterproof
With 500 mm Trailight click cable
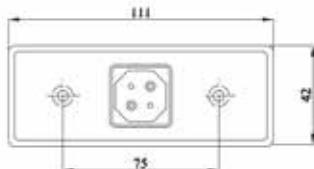
LTL1035-B side

LTL1005 left
LTL1006 right

LTL1003 front
LTL1004 rear

Waterproof

Part nr.	Position	Rating	Light source	Connection	Waterproeef	Approval
LTL1001	Side	24V	LED	With 250 mm Trailight cable		ECE E9
LTL1002	Side	24V	LED	With 500 mm Trailight cable		ECE E9
LTL1003	Front	12V	LED	Socket		ECE E9
LTL1004	Rear	12V	LED	With cable		ECE E9
LTL1035-B	Side	12-24V	SMD LED	With 0,15 mtr cable		ECE
LTL1005	Left	24V	Red-clear-amber LEDs	1500 mm Trailight cable	✓	ECE E4
LTL1006	Right	24V	Red-clear-amber LEDs	1500 mm Trailight cable	✓	ECE E4

Marker & outline marker lights - Bulb

LT906

LT912

LT910

LT911

LT906 side with reflector
LT912 rear
LT910 front with reflector
LT911 front
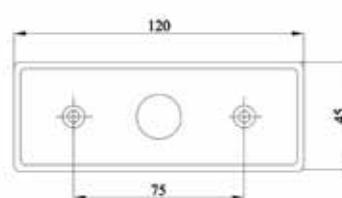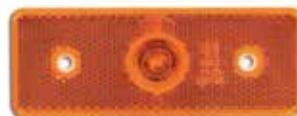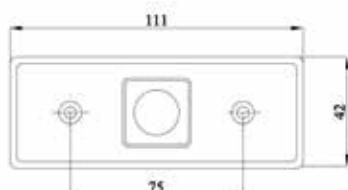
Bulb (12V C5W, 38 mm) not included

Part nr.	Position	Rating	Light source	Connection	Dimensions	Reflector	Approval
LT906	Side	12V	Bulb	Grommet	65 x 60 mm	✓	ECE E3
LT912	Rear	12V	Bulb	Grommet	65 x 60 mm		ECE E3
LT910	Front	12V	Bulb	Grommet	65 x 60 mm	✓	ECE E3
LT911	Front	12V	Bulb	Grommet	65 x 60 mm		ECE E3
LT913	Side	12-24V	Bulb	L socket			ECE E9
LT914	Side	12-24V	Bulb	L socket			ECE E9
LT915	Side	24V	Bulb	Socket			ECE E9
LT916	Side	12-24V	Bulb	Integrated ttr cable connector			ECE E9
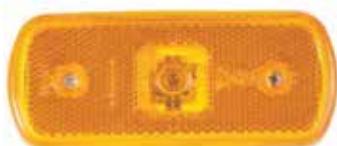
LT913

Bulb W3W (T10) not included
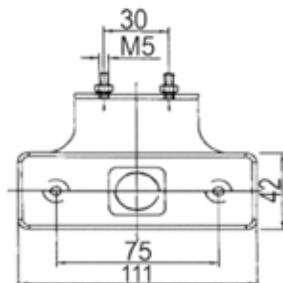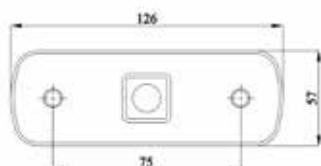
LT914

Bulb W3W (T10) not included

LT915
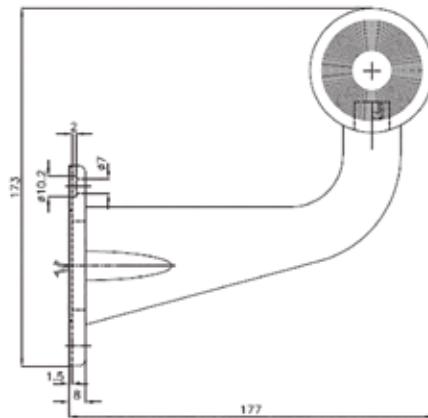
Bulb W3W (T10) not included

LT916

Bulb W3W (T10) not included

LIGHTING

LT56

Bulb (R5W - BA15s) not included

LT901

Bulb (12V C5W, 38 mm) not included

LT57020

Bulb (12V C5W, 38 mm) not included
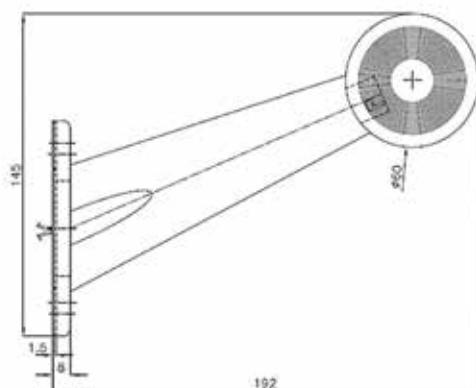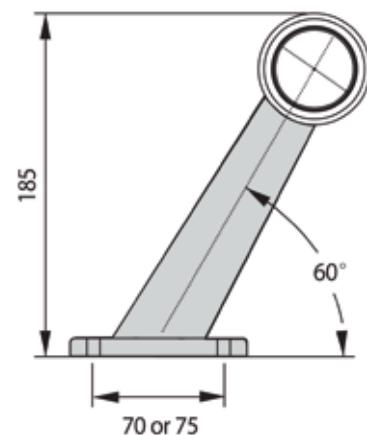
Part nr.	Position	Rating	Light source	Connection	Dimensions	Approval	Remarks
LT56	Universal	12V	Bulb		173 x 177 mm, 90°	ECE R7	Rubber
LT901	Universal	12V	Bulb		65 x 60 mm	ECE E3	With mounting bracket
LT57020	Universal	12V	Bulb		115 x 45 mm	ECE E4	With rubber mounting bracket
LT919	Universal		Bulb	With cable	185 mm, 60°	ECE E2	Red-clear lenses
LT55	Universal		Bulb		145 x 192 mm, 30°	ECE R7	
LT917	Left		Bulb	1500 mm Trailight click cable	168,5 x 174,5 mm	ECE E9	
LT918	Right		Bulb	1500 mm Trailight click cable	168,5 x 174,5 mm	ECE E9	

LT919

Bulb (R5W) not included

185

60°

70 or 75

145

192

ø50
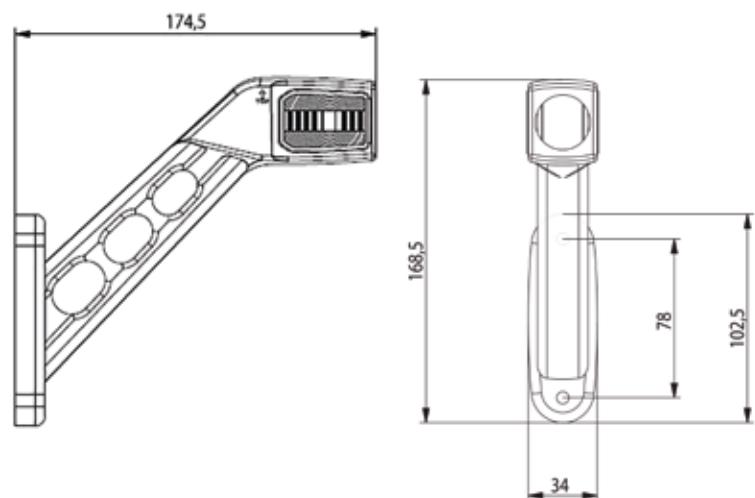
LT55

Bulb (R5W - BA15s) not included

LT917 left
LT918 right

Bulb (R4W - BA15s) included

174,5

168,5

78

102,5

34

59

LIGHTING
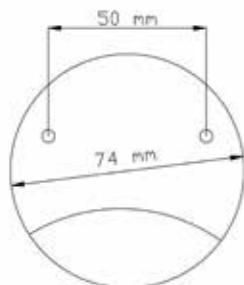
Interior lights
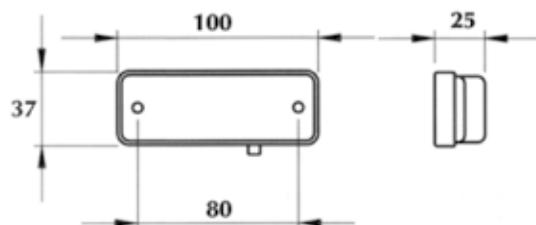
LTL1014 clear
LTL1015 red

Bulb 1x C5W
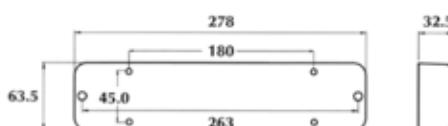
LT920
Clear lens
Bulb 1x C5W
With switch

50 mm

74 mm

100   25

37

80

LTL1020

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

278   32.5
180
63.5   45.0
263

Emergency lights - LED strobe lights

LTLW0025-ALR with 4 flashing patterns

LTL2298-ALR with 3 flashing patterns

LTL2285-ALR with 3 flashing patterns

LTLW0032-ALR with 3 flashing patterns
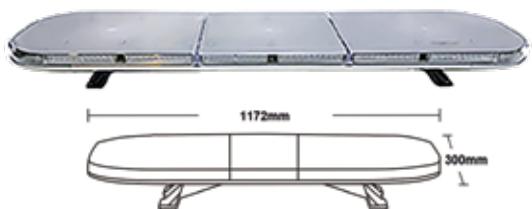
Part nr.	LEDs	Rating	Mounting	Dimenssions	Cable	Protection	Approval
LTLW0025-ALR	Amber	12-24V	Screw	28 x 96 x 19 mm	0,2 mtr	IP67	ECE R65 / ECE R10
LTL2298-ALR	Amber	12-24V	Screw	34 x 133 x 30 mm	0,2 mtr	IP67	ECE R65 / ECE R10
LTL2285-ALR	Amber	12-24V	Screw	34 x 106 x 30 mm	0,2 mtr	IP67	ECE R65 / ECE R10
LTLW0032-ALR	Amber	12-24V	Screw	28 x 128 x 19 mm	0,2 mtr	IP67	ECE R65 / ECE R10

Emergency lights - LED mini bars

LTBLK0002 with 1 flashing pattern
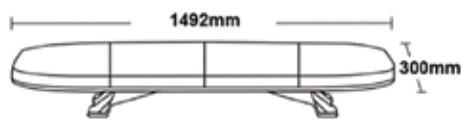
LTBLK0008 with 8 flashing patterns

LTBLK0009 with 8 flashing patterns
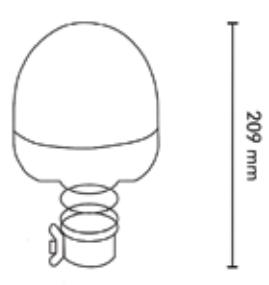
Part nr.	LEDs	Rating	Mounting	Cable	Dimenssions	Protection	Approval
LTBLK0002	56 pcs amber	12-24V	Magnetic base, with plug	3 mtrs spiral with plug	95 x 595 x 305 mm	IP67	ECE R65 / ECE R10
LTBLK0008	144 pcs amber	12-24V	Screw base	3 mtrs	300 x 1172 mm	IP66	ECE R65 / ECE R10
LTBLK0009	144 pcs amber	12-24V	Screw base	3 mtrs	300 x 1492 mm	IP66	ECE R65 / ECE R10

Emergency lights - Warning beacons

LTL2283-C
Halogen

Amber lens, H1 bulb
Reverse polarity protection
12-24V
Dimensions 126,6 x 268 mm
Flexible base
IP65
ECE R65 and ECE R10 approved

LTL1406-ALR
LED

Amber lens, 8 LEDs
Reverse polarity protection
12-24V
Dimensions 127 x 209 mm
Rubber flexible base
IP66
ECE R65 and ECE R10 approved
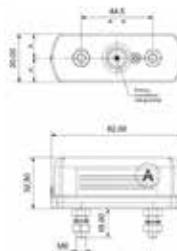
LTL0009-ALR
LED

Amber lens, 40 LEDs
Reverse polarity protection
12-24V
Dimensions 130 x 95 mm
Micro magnetic base
3 mtr spiral cable with plug for lighter socket
IP66
ECE R65 and ECE R10 approved

LIGHTING
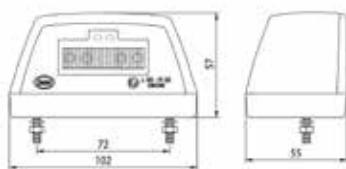
Number plate lights

LT802

12-24V
IP66/68
Bulb (12V R10W) not included
ECE approved
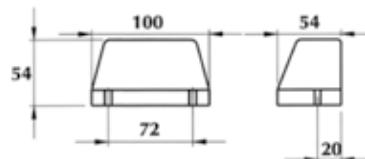
LT804

12-24V
Dimensions 50 x 96 mm
IP66/68
Bulb (12V R10W) not included
ECE E3 approved

LT805

LED
24V

LT806
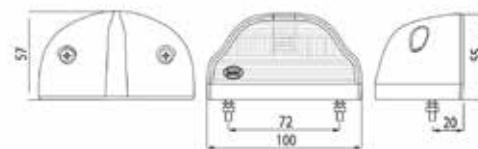
24V
Bulb (R5W) and cable not included

LT807 12V
LT808 24V

LED

LT809
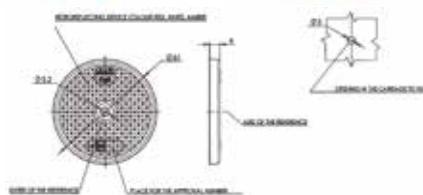
24V
Bulb (R5W) not included

Reflectors
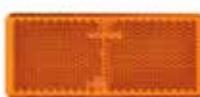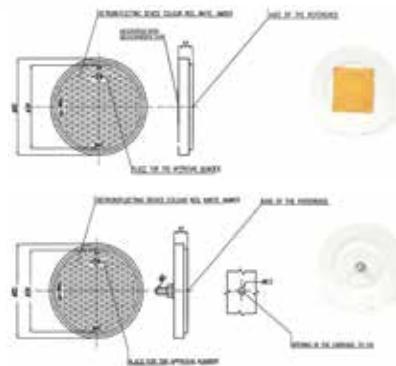
Screw mount:
845 amber
843 red
841 clear
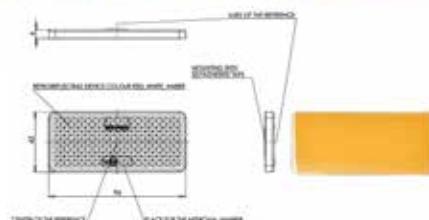
Adhesive:
27P amber
28P red
29P clear

With bolt:
27 amber
28 red
29 clear
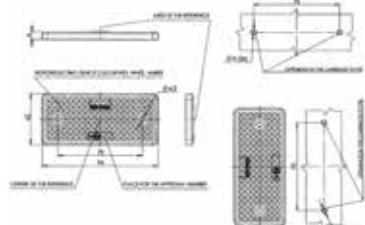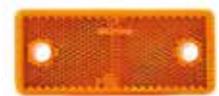
Part nr. clear	Part nr. red	Part nr. amber	Mounting	Dimenssions	Approval
841	843	845	Screw (1 x M5 hole)	Ø 61 mm	ECE E20 3R
29P	28P	27P	Adhesive	Ø 74 mm (85 mm incl. frame)	ECE E20 3R
29	28	27	Bolt (1 x M6)	Ø 74 mm (85 mm incl. frame)	ECE E20 3R
847	849	851	Screw (2 x M4 hole)	96 x 42 mm	ECE E20 3R
846	848	850	Adhesive	96 x 42 mm	ECE E20 3R
	839		Screw (2 x M5 hole)	143 x 125 mm	ECE E20 3R
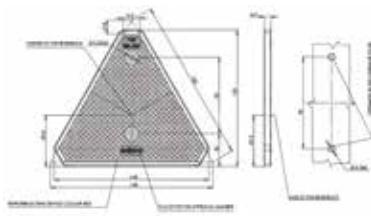
Adhesive:
850 amber
848 red
846 clear

Screw mount:
851 amber
849 red
847 clear
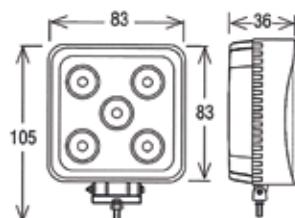
Screw mount
839 red

AE INDUSTRIES

LTL0068

LTLB0031

Adjustable bracket included
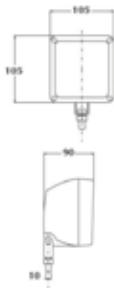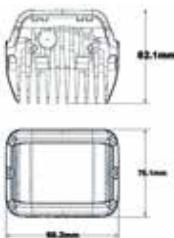
LTL0077

Part nr.	Lumen	Light source	Cable	Rating	Light distribution	IP protection	Approval
LTL0068	630 Lm	5 LEDs	0,3 mtr	12-24V	Work light/flood	IP67	ECE R10
LTLB0031	720 Lm	6 LEDs	0,3 mtr	12-24V	Work light/spot	IP67	ECE R10
LTL0077	1430 Lm	9 LEDs	0,3 mtr	12-24V	Work light/flood	IP67	ECE R10
LTL0061	2762 Lm	9 LEDs	0,25 mtr	12-24V	Work light/combo	IP67	ECE R10
LTL0065		1 H3 bulb				IP67	
LTL0081	2100 Lm	16 LEDs	0,3 mtr	12-24V	Work light/flood	IP67	ECE R10
LTL2205	570 Lm	6 LEDs	0,4 mtr	12-24V	Work light/flood	IP67	ECE R10
LTLB0033M	2900 Lm	24 LEDs	0,3 mtr	12-24V	Work light/combo	IP67	ECE R10
LTL0076	1430 Lm	9 LEDs	0,3 mtr	12-24V	Work light/flood	IP67	ECE R10
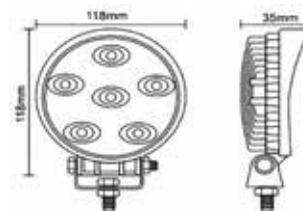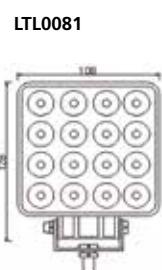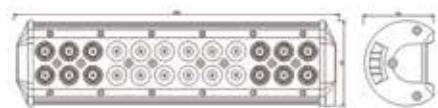
LTL0065

LTL0061

Set of 2 pcs

LTL0081

LTL2205

LTLB0033M
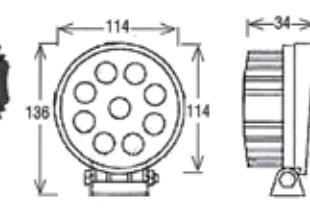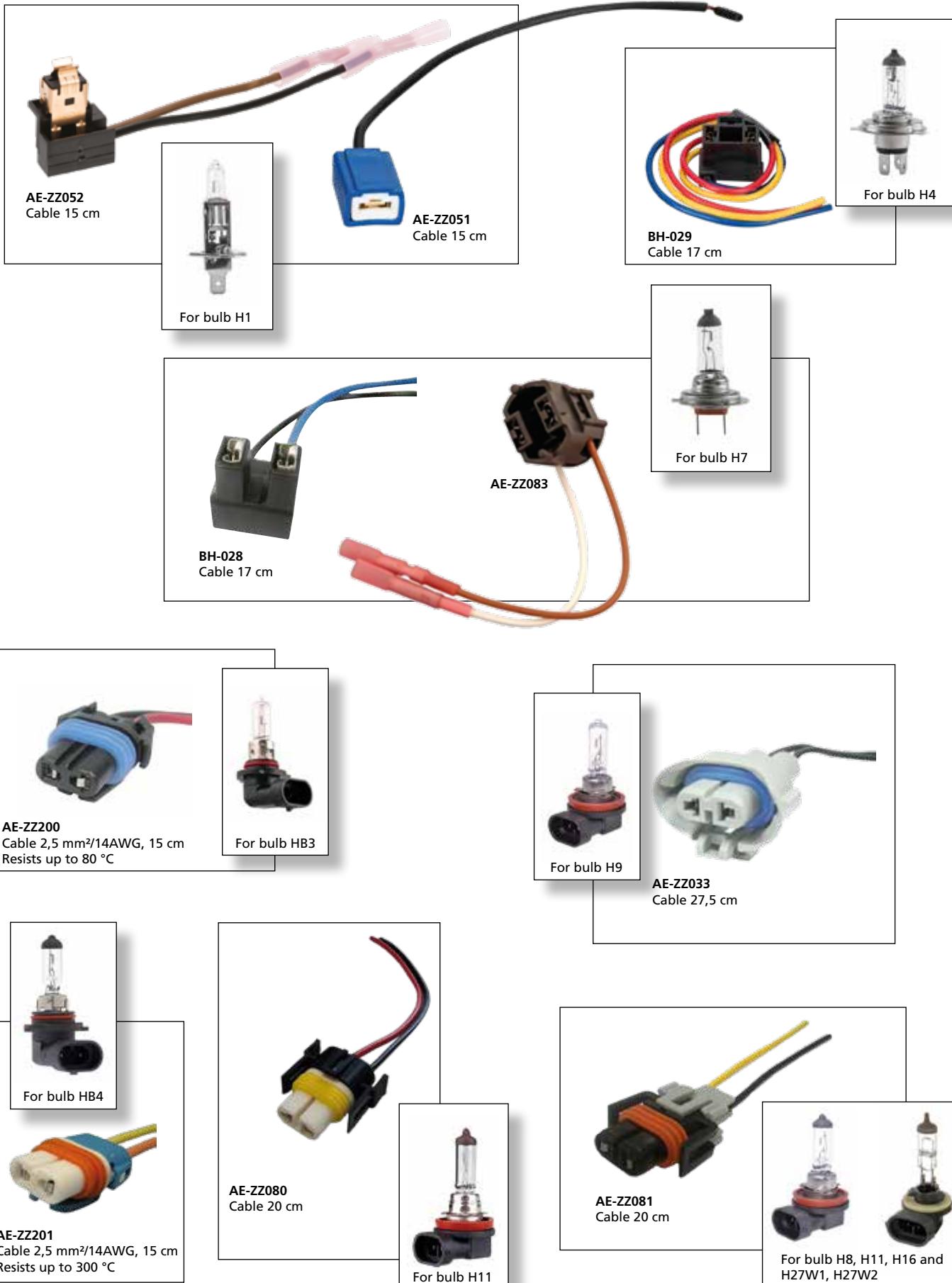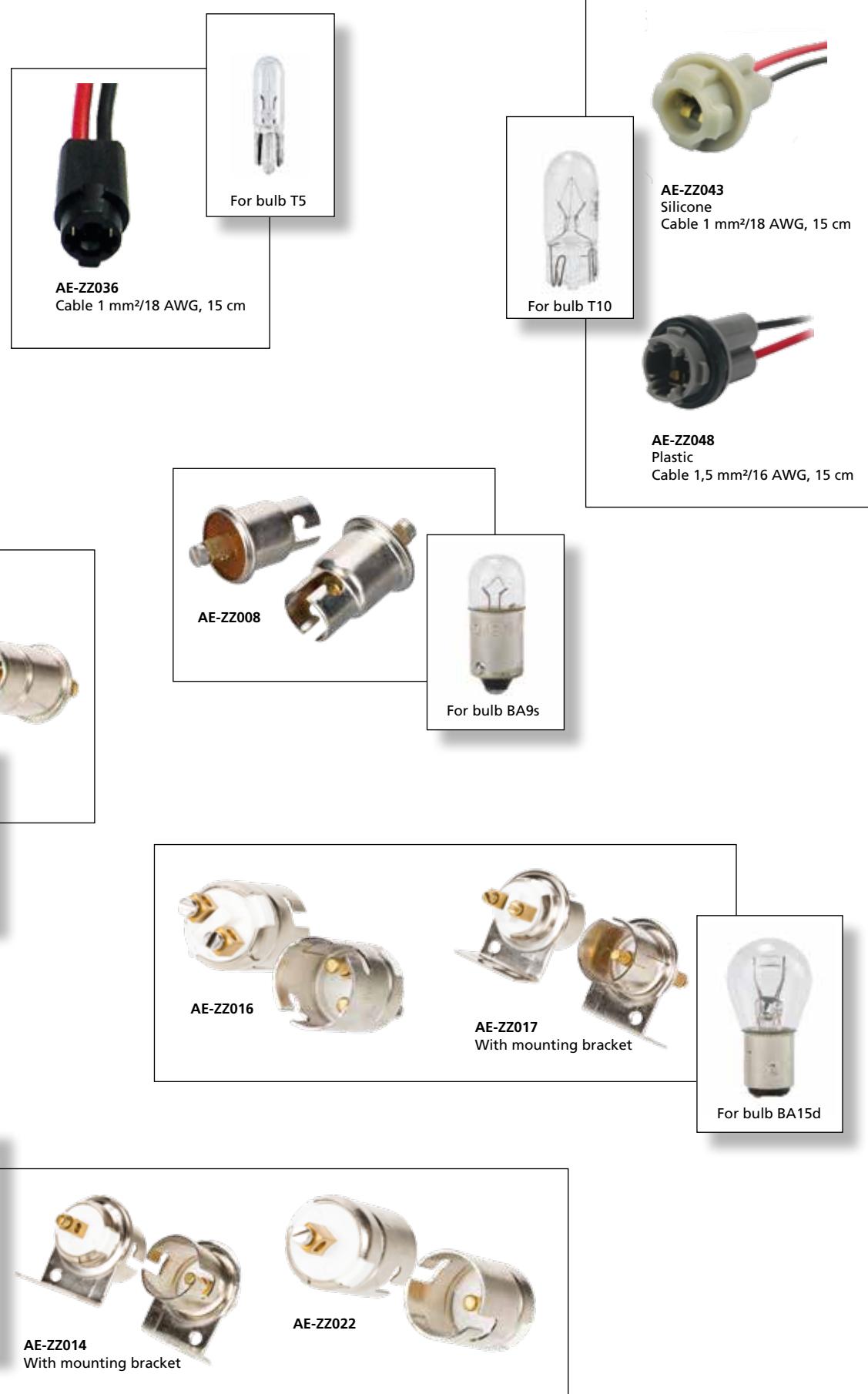
Adjustable bracket included

LTL0076

Bulb sockets

AE-ZZ052
Cable 15 cm

AE-ZZ051
Cable 15 cm

For bulb H1

BH-029
Cable 17 cm

For bulb H4

BH-028
Cable 17 cm

AE-ZZ083

For bulb H7

AE-ZZ200
Cable 2,5 mm²/14AWG, 15 cm
Resists up to 80 °C

For bulb HB3

For bulb H9

AE-ZZ033
Cable 27,5 cm

For bulb HB4

AE-ZZ201
Cable 2,5 mm²/14AWG, 15 cm
Resists up to 300 °C

AE-ZZ080
Cable 20 cm

For bulb H11

AE-ZZ081
Cable 20 cm

For bulb H8, H11, H16 and
H27W1, H27W2

65

AE-ZZ036
Cable 1 mm²/18 AWG, 15 cm

For bulb T5

For bulb T10

AE-ZZ043
Silicone
Cable 1 mm²/18 AWG, 15 cm

AE-ZZ048
Plastic
Cable 1,5 mm²/16 AWG, 15 cm

AE-ZZ008

For bulb BA9s

AE-ZZ029

For bulb BA7s

AE-ZZ016

AE-ZZ017
With mounting bracket

For bulb BA15d

For bulb BA15s

AE-ZZ014
With mounting bracket

AE-ZZ022

Vehicle Markers

Battery

Hose Clamps

Screws, Bolts & Nuts

Wire & Cable

Bundling & Protection

EV Products

Insulated Terminals

Non-insulated Terminals

Cord End Terminals

**Many items in this section are specifically for France.
On request, these items are also available for other countries.
Please contact our Sales Department for more information.**
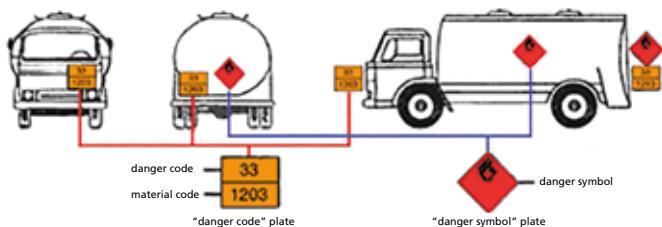
A diamond-shaped danger label plate announces, in the form of a pictogram, the predominant type of danger of the material transported. These diamonds are attached to each side and to the rear of the vehicle.

Symbol: Represents the danger and/or possible reaction(s) of the transported product. It quickly identifies danger. The example here is for a flammable product.

Number: Corresponds to the class of the product transported. The class identifies the nature / material of the product. There are 9 different classes. In the example attached, this is class 2 which corresponds to a "compressed, liquefied or dissolved gas under pressure".
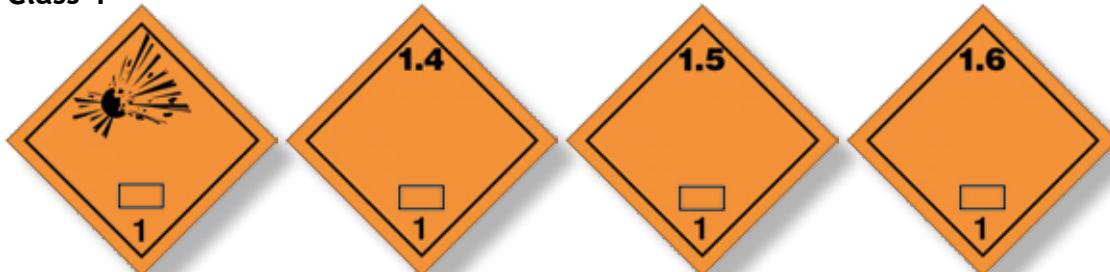
Class		Substances
1		Explosive substances and items
2		Compressed, liquefied or dissolved gases under pressure
3		Flammable liquids
4	4.1	Flammable solids
	4.2	Substances spontaneously prone to inflammation
	4.3	Substances liberating on contact with water, flammable gases
5	5.1	Oxidizing substances
	5.2	Organic peroxides
6	6.2	Toxic substances
	6.3	Infectious substances
7		Radioactive material
8		Corrosive substances
9		Miscellaneous dangerous substances and objects

danger code — 33
material code — 1203

"danger code" plate

danger symbol

"danger symbol" plate

ADR signs - Symbols 300 x 300 mm

Class 1

Explosive substances and objects

TM0064 aluminum
TM0065 self-adhesive

TM0083 aluminum
TM0084 self-adhesive

TM0085 aluminum
TM0086 self-adhesive

TM0087 aluminum
TM0088 self-adhesive

Class 2

Flammable gases

TM0001 aluminum
TM0002 self-adhesive

Non-flammable, non-toxic gases

TM0089 aluminum
TM0090 self-adhesive

Toxic gases

TM0060 aluminum
TM0061 self-adhesive

Class 3

Flammable liquids

TM0091 aluminum
TM0092 self-adhesive

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VEHICLE MARKERS

Class 4

Flammable solids

TM0062 aluminum
TM0063 self-adhesive

Spontaneous flammable substances

TM0097 aluminum
TM0098 self-adhesive
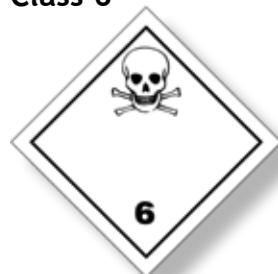
Flammable gases on contact with water

TM0099 aluminum
TM0100 self-adhesive

Class 5

Oxidizing substances

TM0093 aluminum
TM0094 self-adhesive
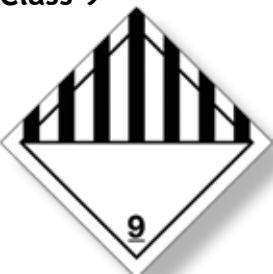
Organic peroxides

TM0095 aluminum
TM0096 self-adhesive

Class 6

Toxic substances

TM0066 aluminum
TM0067 self-adhesive

Class 8

Corrosive substances

TM0068 aluminum
TM0069 self-adhesive

Class 9
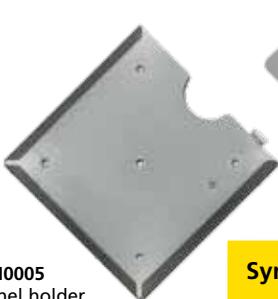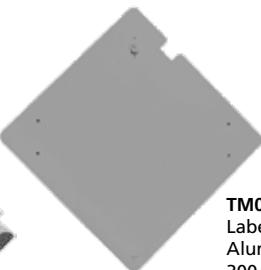
Generally dangerous

TM0101 aluminum
TM0102 self-adhesive

Other

Environmentally hazardous substances

TM0003 aluminum
TM0004 self-adhesive

Transport hot materials

TM0103 aluminum
TM0104 self-adhesive

TM0005
Panel holder
Aluminum
300 x 300 mm

TM0010
Label holder
Aluminum
300 x 300 mm

Symbol holders

VEHICLE MARKERS

ADR signs - Numbers

Supports

TM0105
400 x 300 mm
Galvanized
With turn locks and 2 slides

TM0106
Slide 400 x 140 mm
Galvanized

TM0107
Turn lock for
foldable panels

Part nr.		Type
Galvanized	Self-adhesive	
TM0108	TM0120	number 0
TM0109	TM0121	number 1
TM0110	TM0122	number 2
TM0111	TM0123	number 3
TM0112	TM0124	number 4
TM0113	TM0125	number 5
TM0114	TM0126	number 6
TM0115	TM0127	number 7
TM0116	TM0128	number 8
TM0117	TM0129	number 9
TM0118	TM0130	letter X
TM0119	TM0131	blank

TM0006
Aluminum
400 x 300 mm

TM0007
Horizontally foldable
Aluminum
With turn lock
400 x 300 mm

TM0008
Vertically foldable
Aluminum
With turn lock
400 x 300 mm

Retro-reflective panels

TM0011
Aluminum
400 x 250 mm

TM0012
Vertically foldable
With turn lock
Aluminum
400 x 250 mm

TM0013
Aluminum
400 x 300 mm

TM0014
Vertically foldable
With turn lock
Aluminum
400 x 300 mm

Panel holder

TM0009
440 x 330 mm
Aluminum
With 2 turn locks

TM0107
Turn lock for
panel holders
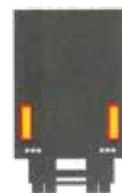
HGV rear marker boards - ECE70-01 class 3

For trucks

Category II type Europe

Part nr.	Type	Size	Packed
TM0021	aluminum	565 x 130 mm	set of 2
TM0022	self-adhesive	565 x 130 mm	set of 2

Category III type Europe

Part nr.	Type	Size	Packed
TM0019	aluminum	1130 x 130 mm	set of 1
TM0020	self-adhesive	1130 x 130 mm	set of 1

For trailers

Category II type Europe

Part nr.	Type	Size	Packed
TM0017	aluminum	565 x 195 mm	set of 2
TM0018	self-adhesive	565 x 195 mm	set of 2

Category III type Europe

Part nr.	Type	Size	Packed
TM0015	aluminum	1130 x 195 mm	set of 1
TM0016	self-adhesive	1130 x 195 mm	set of 1

Conspicuity tape - Class 2
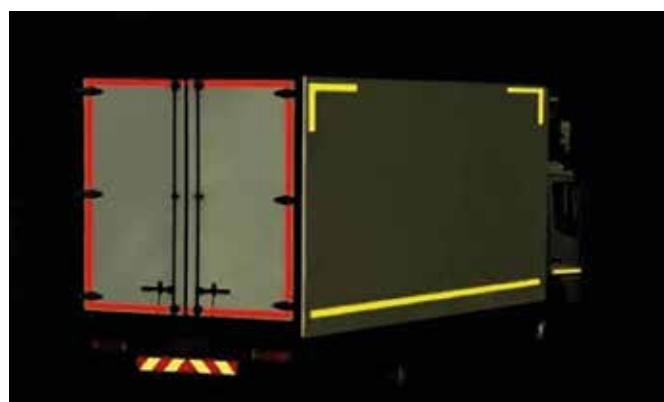
Rigid　　**Curtainsider**　　**Tanker**

C	Part nr.			Size	
	Rigid	**Curtainsider**	**Tanker**	**Length**	**Width**
	TM0023	TM0026	TM0029	50 m	50 mm
	TM0024	TM0027	TM0030	50 m	50 mm
	TM0025	TM0028	TM0031	50 m	50 mm

VEHICLE MARKERS

Exceptional transport

Convoi exceptionel 1200 x 400 mm			Convoi exceptionel 1900 x 250 mm		
Part nr.	Type	Class	Part nr.	Type	Class
TM0035	self-adhesive	2	TM0032	aluminum	2
TM0034	aluminum	2	TM0033	self-adhesive	2

Convoi agricole 1200 x 400 mm			Convoi agricole 1900 x 250 mm		
Part nr.	Type	Class	Part nr.	Type	Class
TM0037	self-adhesive	2	TM0036	aluminum	2

Let op! Extra lang 1130 x 195 mm			Let op! Extra lang set 565 x 195 mm		
Part nr.	Type	Class	Part nr.	Type	Class
TM0132	aluminum	3	TM0133	aluminum	3

Long vehicle 1265 x 225 mm			Long vehicle set 525 x 250 mm		
Part nr.	Type	Class	Part nr.	Type	Class
TM0134	aluminum	4	TM0136	aluminum	4
TM0135	self-adhesive	4	TM0137	self-adhesive	4
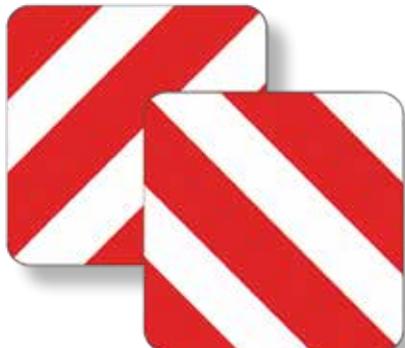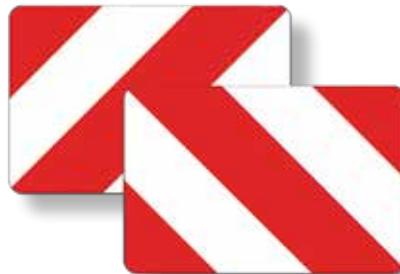
Beacon panels

TM0038 right
TM0138 left
TM0238 set right/left

TPESC standard class 2
Aluminum
423 x 423 mm

TM0039 right
TM0139 left
TM0239 set right/left

TPESC standard class 1
Aluminum
423 x 282 mm

"Service" panels - Class 1

Dimensions 500 x 150 mm		Dimensions 600 x 300 mm		Dimensions 1000 x 300 mm	
Part nr.	Type	Part nr.	Type	Part nr.	Type
TM0043	self-adhesive	TM0140	self-adhesive	TM0040	aluminum
TM0042	aluminum	TM0141	magnetic	TM0041	self-adhesive

High intensity markers for vehicles
Reflective

Part nr.	Class	Type	Size	Packed
TM0074	I	self-adhesive	141 mm x 9 m	Set left/right
TM0075	II	self-adhesive	141 mm x 9 m	Set left/right

Beacon

TM0071
With light
Polystyrene
Heigth 215 mm
Bulb 12V 5W not included

Speed pictograms
Ø 200 mm

Part nr.		Type
Aluminum	**Self-adhesive**	
TM0044	TM0045	25 km/h
TM0046	TM0047	50 km/h
TM0048	TM0049	60 km/h
TM0050	TM0051	70 km/h
TM0052	TM0053	80 km/h
TM0054	TM0055	90 km/h
TM0056	TM0057	100 km/h
TM0058	TM0059	110 km/h

Tare plates
Detachable numbers

TM0076

TM0077

TM0078

Part nr.	Type	Vehicle
TM0076	Self-adhesive white	Heavy vehicles
TM0077	Self-adhesive white	Utility vehicles
TM0078	Self-adhesive white	Light vehicles

Blind spot warning signs

Part nr.	Type	Vehicle
TM0079	Self-adhesive	Truck
TM0080	Galvanized steel	Truck
TM0081	Self-adhesive	Bus
TM0082	Galvanized steel	Bus

Also available

TM0142
Warning triangle plus yellow vest

Light (700 gr) and compact set in plastic case (45x16x3 cm)
E2 R65 approved

Battery

Hose Clamps

Screws, Bolts & Nuts

Wire & Cable

Bundling & Protection

VB Products

Insulated Terminals

Non-Insulated Terminals

Cord End Terminals

Housing

Fuses & Fuse Holders

Relays, Switches, Pilot Lights & Buzzers

Battery terminals, adaptors & caps

Battery terminals		
Part nr. POS	**Part nr. NEG**	**Description**
ACPK003P-8	ACPK003N-8	Zinc coated die-cast brass Nautical Type terminal, with M8 bolt and wing nut fastening, 12-24V
ACPK002P-10	ACPK002N-10	Zinc coated die-cast brass Nautical Type terminal, with M10 bolt and nut fastening, 12-24V, 1000A
ACPK102P-10	ACPK102N-10	Zinc coated die-cast brass Nautical Type terminal, with M10 metal bearing (no bolt) and nut fastening, 12-24V
ACPK010P	ACPK010N	Zinc coated die-cast brass Industrial Type terminal, with M10 bolt fastening, 12-24V
ACPK014P	ACPK014N	Zinc coated die-cast brass Industrial Type terminal, with M12 bolt fastening, 12-24V
ACPK002P-12	ACPK002N-12	Terminal for Henschel-MAN, DAF trucks and tractors, with M12 bolt and nut fastening, 12-24V
ACPK004P	ACPK004N	Renault Type terminal, M8 fastening to wire
ACPK035P	ACPK036N	Zinc coated die-cast brass terminal, 3x M6 fastening to wire, 18 mm², 12-24V
ACPK001P	ACPK001N	Zinc coated die-cast brass heavy "T" Alpha Type terminal, 10~50 mm², 12-24V
ACPK022P	ACPK022N	Die-cast brass reinforced straight Alpha Type terminal with alloy plate, 10~70 mm², 12-24V
ACPK005P	ACPK005N	Die-cast brass standard Alpha Type terminal for European cars, 10~35 mm², 12V
ACPK008P	ACPK008N	Die-cast brass small Alpha Type terminal for Japanese cars, 10~35 mm², 12V
ACPK012P	ACPK012N	Die-cast brass heavy Alpha Type terminal, 10~70 mm², 12-24V
ACPK009P	ACPK009N	Die-cast brass reinforced Alpha Type terminal with alloy plate, 10~50 mm², 12-24V
ACPK017P	ACPK017N	Zinc coated die-cast brass Alpha Type terminal with double plates, 10~50 mm², 12-24V
ACPKCUBE101		Terminal for use with CubeOTO fuses, with insulating washer and self-fastening nut, matching caps available
ACPKCUBE201		Terminal for use with CubeOTO fuses, use in combination with insulation nut CF-M8 (not included)
QLAKR01	QLAKB01	Copper plated steel terminal with quick release polypropylene cover, resistance appr. 0,12 µΩ at 10A, certified to be safe up to 800A, fits to all SAE and DIN standard 12V batteries
QLAK001		Set of QLAKR01 and QLAKB01 terminals
ACPK102SW		Copper plated zinc alloy Swan Type terminal. Switch off power by turning green knob. Remove knob for anti-theft function. For 6, 12 or 24V top post batteries.

ACPK003P-8
ACPK003N-8

ACPK002P-10
ACPK002N-10

ACPK102P-10
ACPK102N-10

ACPK010P
ACPK010N

ACPK014P
ACPK014P

ACPK002P-12
ACPK002N-12

ACPK004P
ACPK004N

ACPK035P
ACPK036N

ACPK001P
ACPK001N

ACPK022P
ACPK022N

ACPK005P
ACPK005N

ACPK008P
ACPK008N

ACPK012P
ACPK012N

ACPK009P
ACPK009N

ACPK017P
ACPK017N

ACPKCUBE101

ACPK102SW

CF-M8
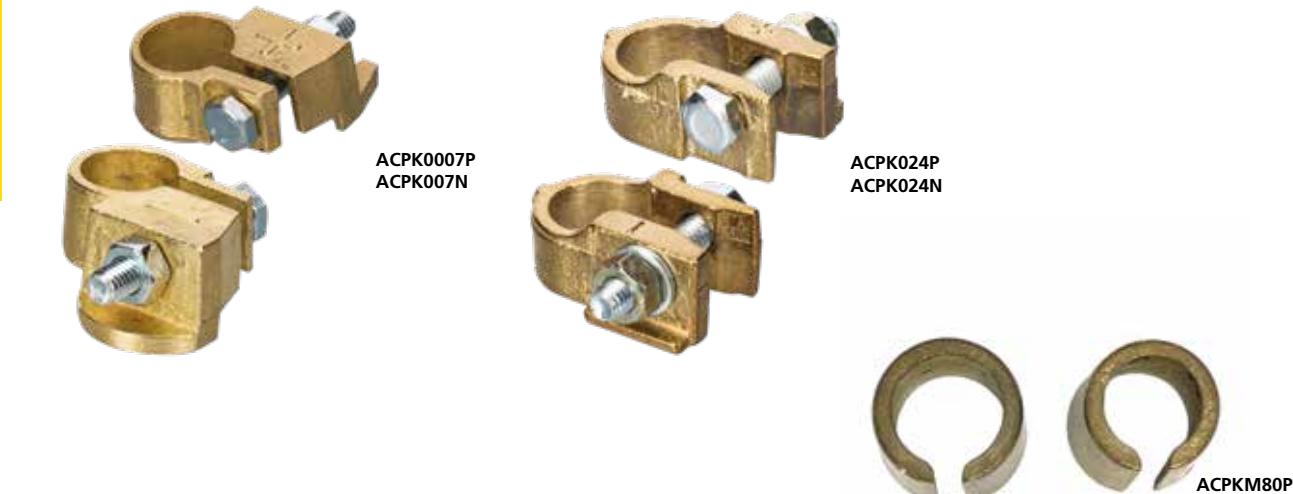
ACPKCUBE201

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

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BATTERY

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
ACPKM80P		Brass adaptor set (+/-) for adapting Japanese to standard battery poles

ACPK0007P
ACPK007N

ACPK024P
ACPK024N

ACPKM80P
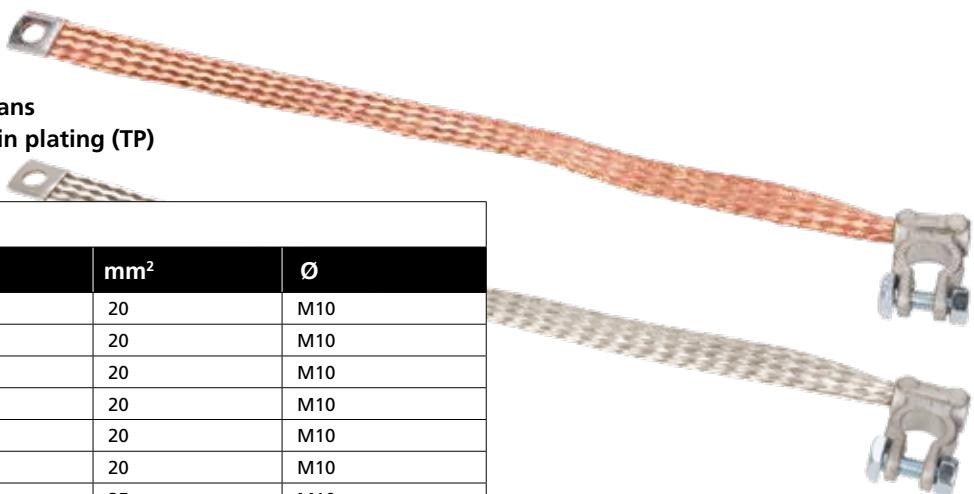
Terminal caps		
Part nr. POS	**Part nr. NEG**	**Description**
ADKA001R	ADKA001B	Terminal cap for ACPK010, ACPK014 and ACPK022, 500A
ADKA002R	ADKA002B	Terminal cap right elbow for ACPK010 and ACPK014
ADKA003R	ADKA003B	Terminal cap left elbow for ACPK010 and ACPK014
ADKA101L		Terminal cap left elbow for ACPKCUBE101
ADKA101R		Terminal cap right elbow for ACPKCUBE101

ADKA001R
ADKA001B

ADKA002R
ADKA002B

ADKA003R
ADKA003B

ADKA101L
ADKA101R

Mass connection

- **Suitable for larger cars and vans**
- **Available with and without tin plating (TP)**
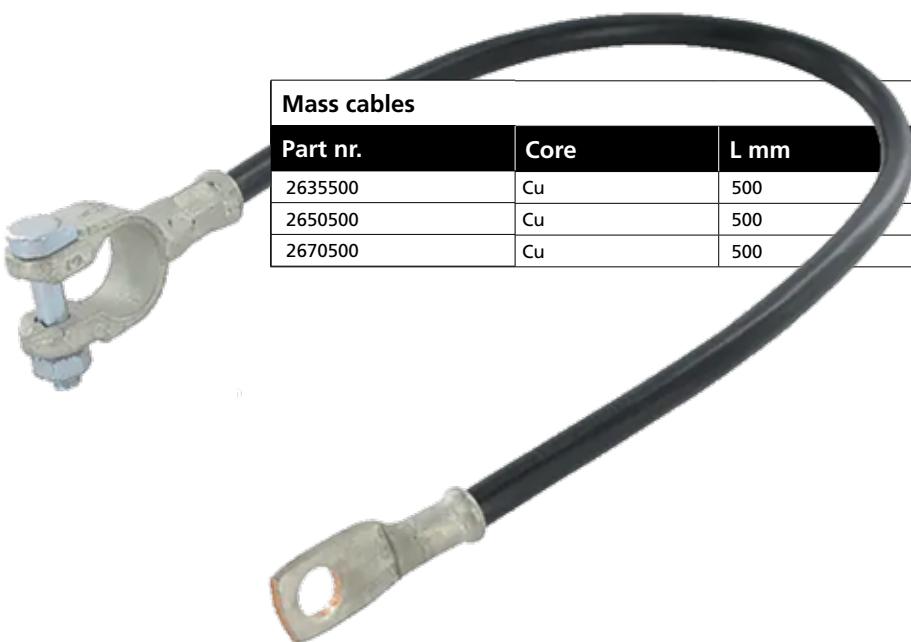
Battery mass strips			
Part nr.	L mm	mm²	Ø
MS20.180.212010	180	20	M10
MS20.250.212010	250	20	M10
MS20.300.212010	300	20	M10
MS20.320.212010	320	20	M10
MS20.350.212010	350	20	M10
MS20.500.212010	500	20	M10
MS25.200.21205	200	25	M10
MS25.200.21205TP	200	25	M10
MS25.250.21205	250	25	M10
MS25.250.21205TP	250	25	M10
MS25.300.21205	300	25	M10
MS25.300.21205TP	300	25	M10
MS25.350.21205	350	25	M10
MS25.350.21205TP	350	25	M10
MS25.400.21205	400	25	M10
MS25.400.21205TP	400	25	M10
MS25.500.21205	500	25	M10
MS25.500.21205TP	500	25	M10
MS25.600.21205	600	25	M10
MS25.600.21205TP	600	25	M10
MS50.500.212010	500	50	M10
MS50.500.21205TP	500	50	M5
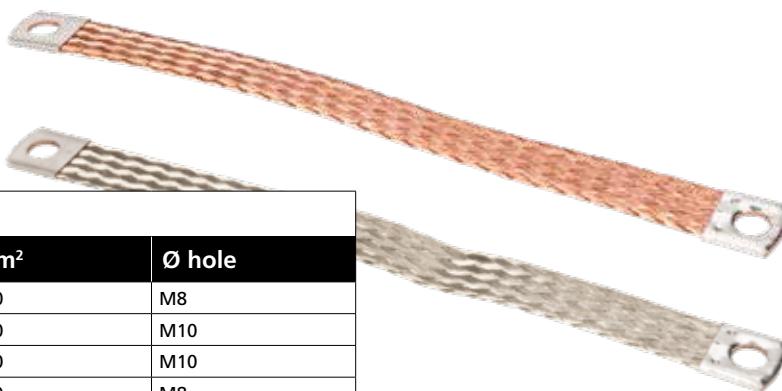
Mass cables				
Part nr.	Core	L mm	mm²	Ø lug hole mm
2635500	Cu	500	35	8
2650500	Cu	500	50	10
2670500	Cu	500	70	10

BATTERY

Mass connection strips

Part nr.	L mm	mm²	Ø hole
MVS10.180.008	180	10	M8
MVS10.180.010	180	10	M10
MVS10.200.010TP	200	10	M10
MVS10.210.008	210	10	M8
MVS10.210.010	210	10	M10
MVS10.280.008	280	10	M8
MVS10.280.008TP	280	10	M8
MVS10.400.008	400	10	M8
MVS10.400.008TP	400	10	M8
MVS10.400.010	400	10	M10
MVS16.150.010	150	16	M10
MVS16.200.010	200	16	M10
MVS16.250.010	250	16	M10
MVS20.200.010	200	20	M10
MVS20.250.010	250	20	M10
MVS25.150.010	150	25	M10
MVS25.200.010TP	200	25	M10
MVS25.250.010	250	25	M10
MVS25.250.010TP	250	25	M10
MVS25.300.010	300	25	M10
MVS25.300.010TP	300	25	M10
MVS25.350.010	350	25	M10
MVS25.350.010TP	350	25	M10
MVS25.400.010	400	25	M10
MVS25.400.010TP	400	25	M10
MVS25.450.010	450	25	M10
MVS25.450.010TP	450	25	M10
MVS25.500.010	500	25	M10
MVS25.500.010TP	500	25	M10
MVS50.300.010	300	50	M10

Also available

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

Booster cables

Part nr.	Description
STKA001	Fully insulated metal clamps, 16 mm² copper core, 220A, with device for electronic protection, in round zipper bag, length 3 mtrs
STKA002	Fully insulated metal clamps, 25 mm² copper core, 360A, with device for electronic protection, in round zipper bag, length 3,5 mtrs
STKA003	Half insulated metal clamps, 35 mm² copper core, 400A, in round zipper bag, length 5 mtrs
STKA210	Half-insulated metal clamps, 3,64 mm² CCA core, 100A, in round zipper bag, length 2,5 mtrs
STKA211	Half-insulated metal clamps, 6,64 mm² CCA core, 150A, in round zipper bag, length 3 mtrs
STKA212	Half-insulated metal clamps, 16 mm² CCA core, 300A, in round zipper bag, length 2,3 mtrs
STKA213	Half-insulated metal clamps, 25 mm² CCA core, 400A, in round zipper bag, length 2,5 mtrs
STKA214	Half-insulated metal clamps, 35 mm² CCA core, 500A, in round zipper bag, length 3,5 mtrs
STKA215	Fully insulated metal clamps, 55 mm² copper core, 600A, in case, length 4,5 mtrs
STKA217	Half-insulated metal clamps, 70 mm², copper core, 1000A, in round zipper bag, length 4,5 mtrs

BATTERY

STKA001
With device for electronic protection

STKA002
With device for electronic protection

STKA003

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

STKA213

STKA214

STKA215

STKA217 1000A

Round zipper bag and case

The zipper bag and case are customizable upon request. Please contact our Sales Department for more information

Battery clamps

Alligator clips - insulated

Part nr. POS	Part. nr. NEG	Description
ACLK001R	ACLK001B	Nickel plated steel with vinyl insulation, 5A, 4 mm²
ACLK011R	ACLK011B	Nickel plated steel with vinyl insulation, 3A, 0,5~1,0 mm²
ACLK111R	ACLK111B	Nickel plated steel with vinyl insulation, 20A, 1,5 mm²

ACLK001R
ACLK001B

ACLK011R
ACLK011B

ACLK111R
ACLK111B

Alligator clips - Non-insulated

Part nr.	Description
AC001	Nickel plated steel, 5A, 4 mm²
ACLK002	Nickel plated steel, 50A, 5 mm²

AC001

ACLK002

Battery clamps

Part nr. POS	Part nr. NEG	Description
ACLK003R	ACLK003B	Zinc plated steel with PVC insulation, 40A, 4-6 mm²
ACLK004R	ACLK004B	Zinc plated steel with PVC insulation, 60A, 4-6 mm²
ACLK005R	ACLK005B	Zinc plated steel with PVC insulation, 90A, 4-10 mm²
ACLK006R	ACLK006B	Zinc plated steel with PVC insulation, 120A, 10-25 mm²
ACLK007P	ACLK007N	Zinc plated steel with full PP plastic insulation, 125A, 10-16 mm²
ACLK008R	ACLK008B	Die-cast brass with PP HD insulation, bent mouth and braided copper mass strip, 800A, 35-50 mm²
ACLK108R	ACLK108B	Die-cast brass with PP HD insulation and bent mouth, 800A, 35-50 mm²
ACLK208R	ACLK208B	Die-cast brass with full PP HD insulation and bent mouth, 800A, 35-50 mm²
ACLK308R	ACLK308B	Die-cast brass with full PP HD insulation, bent mouth and braided copper mass strip, 800A, 35-50 mm²
ACLK009R	ACLK009B	Zinc plated steel with PVC insulation, 400A, 35-50 mm²
ACLK209R	ACLK209B	Die-cast brass with PVC-160 insulation, 350A, 25 mm²
ACLK010R	ACLK010B	Zinc plated steel with full PVC insulation, 120A, 16-25 mm²
ACLK210R	ACLK210B	Die-cast brass with full Lupolen 3010-D insulation, 350A, 16-25 mm²
ACLK211R	ACLK211B	Die-cast brass with PVC insulation and braided copper mass strip, 600A, 35-50 mm²
ACLK012R	ACLK012B	Zinc plated steel with full PVC insulation and braided copper mass strip, 600A, 25-35 mm²
ACLK014R	ACLK014B	Die-cast brass with PVC insulation, 200A, 10-16 mm²
ACLK015R	ACLK015B	Die-cast brass with PVC insulation, 400A, 25-35 mm²
ACLK016R	ACLK016B	Die-cast brass with PVC insulation, 500A, 35-50-70 mm²
BLKL001P	BLKL001N	Zinc plated steel with PVC insulation and braided copper mass strip, 500A, 35-50 mm²
BLKL101P	BLKL101N	Die-cast brass with full PP HD insulation and bent mouth, 650A, 25-35 mm²

ACLK003R
ACLK003B

ACLK004R
ACLK004B

ACLK005R
ACLK005B

AE INDUSTRIES

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
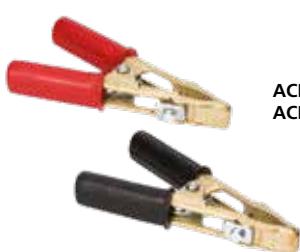
ACLK211R
ACLK211B
With braided copper
mass strip

ACLK012R*
ACLK012B**
With braided copper
mass strip

*** Item will be discontinued
after stock runs out
** Item is no longer available**

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

Part nr.	Housing	Rating	Contacts	IP	Remarks
STAS001		500A@12-24V peak 100A@12-24V continuous	M8 screw contacts, copper	IP43	Light duty With removable key and rubber covers
STAS002		800A@12V DC intermittent 300A@12V DC continuous	M10 screw contacts, copper Length 14,7 mm		With 2 keys Key removable in Off-position
STAS003		800A@12V DC intermittent 300A@12V DC continuous	M10 screw contacts, copper Length 14,7 mm		With waterproof rubber covers Key removable in Off-position
STAS004		800A@12V DC intermittent 300A@12V DC continuous	M10 screw contacts, copper Length 24,2 mm		Key removable in Off-position
STAS005		800A@12V DC intermittent 300A@12V DC continuous	M10 screw contacts, copper Length 24,2 mm		With waterproof rubber covers Key removable in Off-position
STAS006	Zinc	800A@12V DC intermittent 300A@12V DC continuous	M10 screw contacts, copper Length 25 mm		Red T-handle not removable
STAS007	Zinc, white paint coating	800A@12V DC intermittent 300A@12V DC continuous	M10 screw contacts, copper Length 25 mm		Red T-handle not removable
STAS008	Zinc, white paint coating	800A@12V DC intermittent 300A@12V DC continuous	M10 screw contacts, copper Length 32 mm		Red T-handle not removable

STAS001

STAS002

BATTERY

STAS003

STAS004

STAS005

STAS006

STAS007

STAS008

STAS009

STAS010

STAS011

STAS012

Part nr.	Housing	Rating	Contacts	IP	Remarks
STAS009	Zinc, white paint coating	800A@12V DC intermittent 300A@12V DC continuous	M10 screw contacts Length 32 mm		Black T-handle not removable
STAS010		100A@12-24V continuous	M10 screw contacts and 6.4 mm tab contacts, copper		With waterproof rubber covers Key removable in Off-position
STAS011		1500A@12V DC cranking 450A@12V DC intermittent 300A@12V DC continuous	M10 screw contacts Length 31 mm	IP56	Heavy duty, dual circuit, ignition protected
STAS012		1500A@12V DC cranking 450A@12V DC intermittent 300A@12V DC continuous	M10 screw contacts Length 31 mm	IP56	Heavy duty, dual circuit, ignition protected Removable key

Spare key

KEY001
Plastic key for circuit breaker
STAS001

Hose Clamps

Screws, Bolts & Nuts

Wire & Cable

Bundling & Protection

VE Products

Insulated Terminals

Non-insulated Terminals

Cord End Terminals

Housing

Fuse Holders

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
BHC1-251282	251 - 282	5,0	12,0	0,5 - 1	10
BHC1-277307	277 - 307	5,0	12,0	0,5 - 1	10
BHC1-302325	302 - 325	5,0	12,0	0,5 - 1	10
BHC1-321350	321 - 350	5,0	12,0	0,5 - 1	10
BHC1-346375	346 - 375	5,0	12,0	0,5 - 1	10
BHC1-371400	371 - 400	5,0	12,0	0,5 - 1	10
BHC1-396425	396 - 425	5,0	12,0	0,5 - 1	10
BHC1-421450	421 - 450	5,0	12,0	0,5 - 1	10

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**

HOSE CLAMPS

Part nr.	Adjustment mm	Max. advised torque Nm	Band width mm	Band thick-ness 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
BHC4-4456	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 - 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 innter 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

HOSE CLAMPS

Part nr.	Adjustment mm	Max. advised torque Nm	Band width mm	Band thick-ness mm	Packed
MHC4-09008012	8 - 16	3,0	9,0	0,5 - 1	50
MHC4-09010016	10 - 16	3,0	9,0	0,5 - 1	50
MHC4-09012020	12 - 22	3,0	9,0	0,5 - 1	50
MHC4-09016025	16 - 27	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 and 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:	W1: mild steel, all parts zinc plated
	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

W1					
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

W4/A2					
Part nr.	Adjustment mm	Max. advised torque Nm	Band width mm	Band thickness 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 assurence:** DIN 2768-vL

HOSE CLAMPS

Part nr. W1	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. W5	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

Truck & Trailer Parts

Plugs & Sockets

Lighting

Vehicle Markers

Battery

Hose Clamps

Screws, Bolts & Nuts

Wire & Cable

Bundling & Protection

VE Products

Insulated Terminals

Non-insulated Terminals
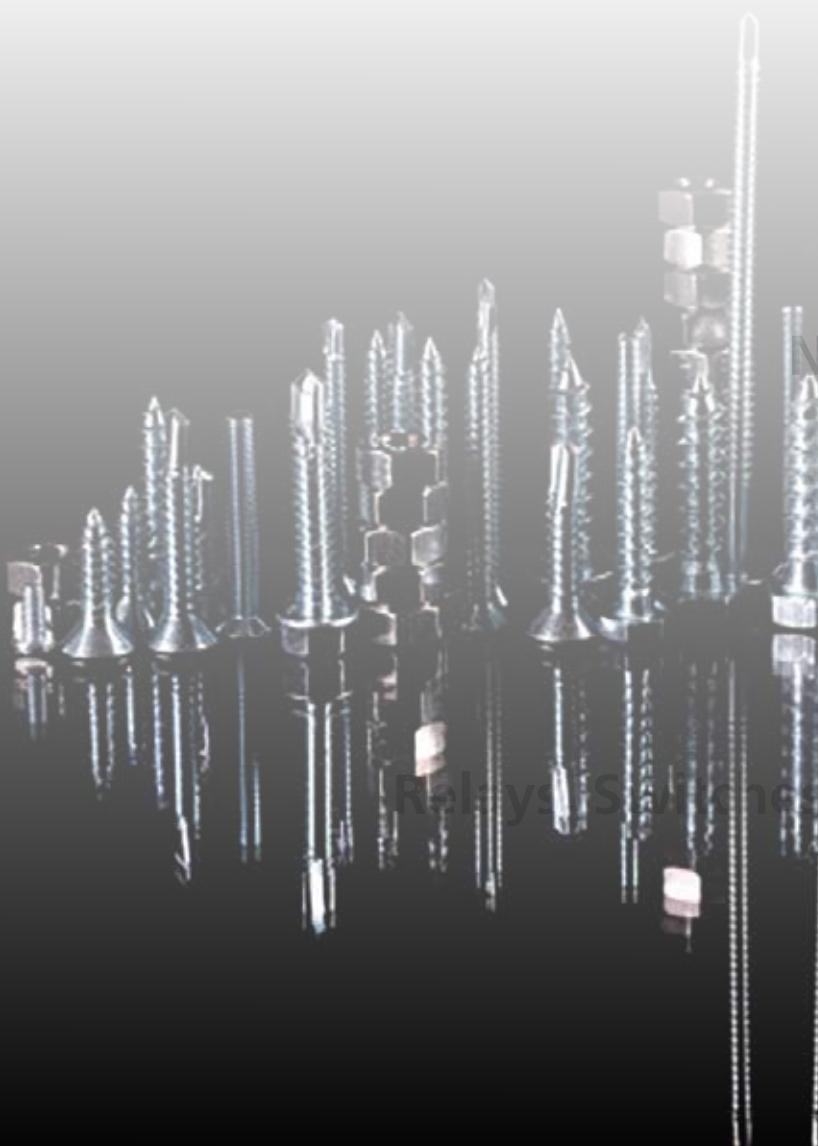
Cable End Terminals

Fuses & Fuseholders

Relays, Switches, Flashers & Buzzers

Tools

Assortment Kits

Self-drilling screws*

- **Sheet thread**
- **Zinc plated**
- **Pan head**
- **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

Tapping screws*

- **Sheet thread**
- **Zinc plated**
- **Pan head**
- **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

Machine screws*

- **Metric thread**
- **Zinc plated**
- **Pan head**
- **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

Tapping screws*

- **Sheet thread**
- **Blackened**
- **Pan head**
- **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

Tapping screws*

- **Sheet thread**
- **Blackened**
- **Truss head**
- **Phillips drive**
- **DIN 968C**

Part nr.	Size	Packed
S3645.60.35016	3,5 x 16 mm	200
S3645.60.39019	3,9 x 19 mm	200
S3645.60.42016	4,2 x 16 mm	200
S3645.60.42019	4,2 x 19 mm	200
S3645.60.48016	4,8 x 16 mm	200
S3645.60.48019	4,8 x 19 mm	200
S3645.60.48025	4,8 x 25 mm	200

Tapping screws*

- **Sheet thread**
- **Blackened**
- **Pan head**
- **Cross recessed**
- **DIN7981-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

SCREWS, BOLTS & NUTS

* Other sizes are available on request

Hex bolts

- **Full metric thread**
- **Zinc plated**
- **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*

- **Metric thread**
- **Zinc plated**
- **Strength class 4.8**
- **DIN603/555, 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

Washers*

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

Part nr.	Size	Thread	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**

Part nr.	Size	Thread	Packed
S4021.01.00501	5,2 x 20 x 1,0 mm	M5	250
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**
- **DIN 127-BB**

Part nr.	Size	Thread	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

Sealing washers*

- **Copper**
- **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

SCREWS, BOLTS & NUTS

* Other sizes are available on request

Hex nuts*

- **Zinc plated**
- **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**
- **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**
- **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

Speednuts

• Zinc plated

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

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
• 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

SCREWS, BOLTS & NUTS

* Other sizes are available on request

Number plate screws*

**Machine screw (metric thread, zinc plated,
cylinder head, phillips drive)
With nut, washer and spacer**

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

Number plate screws*

**Tapping screw (sheet thread, zinc plated, pan head,
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 screws*

**Tapping screw (sheet thread, zinc plated, pan head,
phillips drive)
With captive ring**

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

Nylon caps**

Suitable for number plate screws S8200.40 series

Part nr.	Size	Color	Packed
S8201.90.00001	M5/M6	white	100
S8201.90.00003	M5/M6	blue	100

Nylon caps**

**Suitable for number plate screws S8200.80 and
S8202.10 series**

Part nr.	Size	Color	Packed
S8201.80.00011		white	100
S8201.80.00002		blue	100

*** Other sizes are available on request
** Other colors are available on request**

SCREWS, BOLTS
& NUTS

Truck & Trailer Parts

Plugs & Sockets

Lighting

Vehicle Markers

Battery

Hose Clamps

Screws, Bolts & Nuts

Wire & Cable
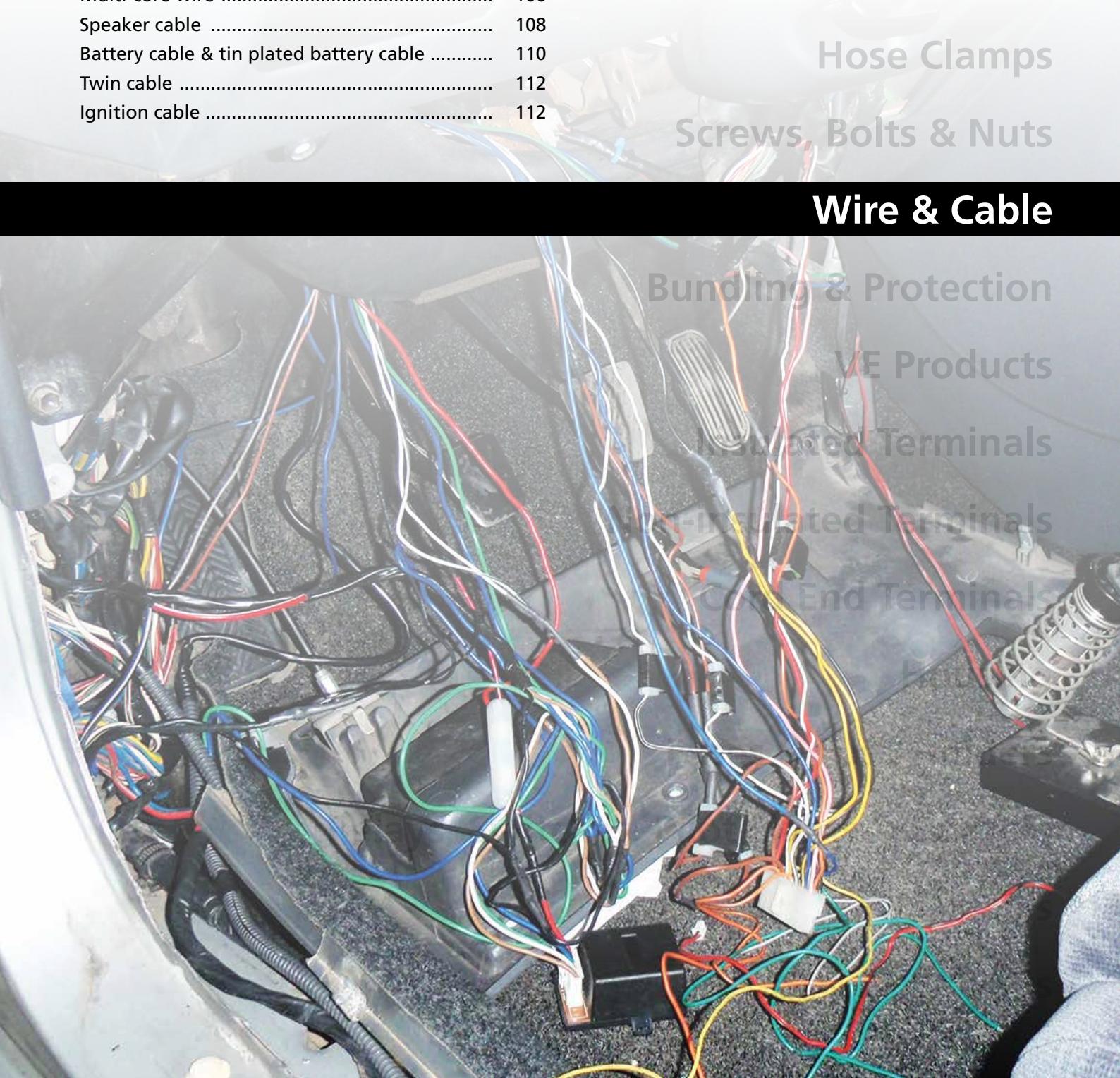
Single core wire (FLRY-B)

Low voltage automobile cable (FL) with reduced thickness of insulation (R), with PVC insulation (Y) and irregularly twisted strands (B).

- **Conductor:** Copper wire (Class 5)
- **Insulation:** PVC T2
- **Bending radius:** 4 x D
- **Test voltage:** 1000V
- **Rated voltage:** 60V
- **Temperature rating:** -40 °C ~ 105 °C
- **Quality assurance:** DIN/ISO 6722

Reel							
Part nr. without trace color	Wire size mm²	Nominal conductor construction (wires x mm²)	Max conductor resistance (Ohm/km)	Outer cable Ø (mm)	Min. insulation thickness (mm)	Color 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
PE0400Z500RL	4,0	84 x 0,24	4,7	3,7	0,32	black	500
PE0600Z500RL	6,0	130 x 0,24	3,1	4,3	0,32	black	500
PE0050Z200RL	0,5	17 x 0,19	37,1	1,6	0,22	black	200
PE0075Z200RL	0,75	27 x 0,19	24,7	1,9	0,24	black	200
PE0100Z200RL	1,0	35 x 0,19	18,5	2,1	0,24	black	200
PE0150Z200RL	1,5	31 x 0,24	12,7	2,4	0,24	black	200
PE0250Z200RL	2,5	54 x 0,24	7,6	3,0	0,28	black	200
PE0400Z200RL	4,0	84 x 0,24	4,7	3,7	0,32	black	200
PE0600Z200RL	6,0	130 x 0,24	3,1	4,3	0,32	black	200
PE0050Z100RL	0,5	17 x 0,19	37,1	1,6	0,22	black	100
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

Most sizes are available in black, blue, brown, green, grey, light blue, light green, orange, pink, purple, red, white and yellow. For available trace colors, please contact our Sales Department

Spool							
Part nr. without trace color	Wire size mm²	Nominal conductor construction (wires x mm²)	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
PE0400Z100SP	4,0	84 x 0,24	4,7	3,7	0,32	black	100
PE0600Z100SP	6,0	130 x 0,24	3,1	4,3	0,32	black	100
PE0050Z50SP	0,5	17 x 0,19	37,1	1,6	0,22	black	50
PE0075Z50SP	0,75	27 x 0,19	24,7	1,9	0,24	black	50
PE0100Z50SP	1,0	35 x 0,19	18,5	2,1	0,24	black	50
PE0150Z50SP	1,5	31 x 0,24	12,7	2,4	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
PE0050Z25SP	0,5	17 x 0,19	37,1	1,6	0,22	black	25
PE0075Z25SP	0,75	27 x 0,19	24,7	1,9	0,24	black	25
PE0100Z25SP	1,0	35 x 0,19	18,5	2,1	0,24	black	25
PE0150Z25SP	1,5	31 x 0,24	12,7	2,4	0,24	black	25
PE0250Z25SP	2,5	54 x 0,24	7,6	3,0	0,28	black	25
PE0400Z25SP	4,0	84 x 0,24	4,7	3,7	0,32	black	25
PE0600Z52SP	6,0	130 x 0,24	3,1	4,3	0,32	black	25
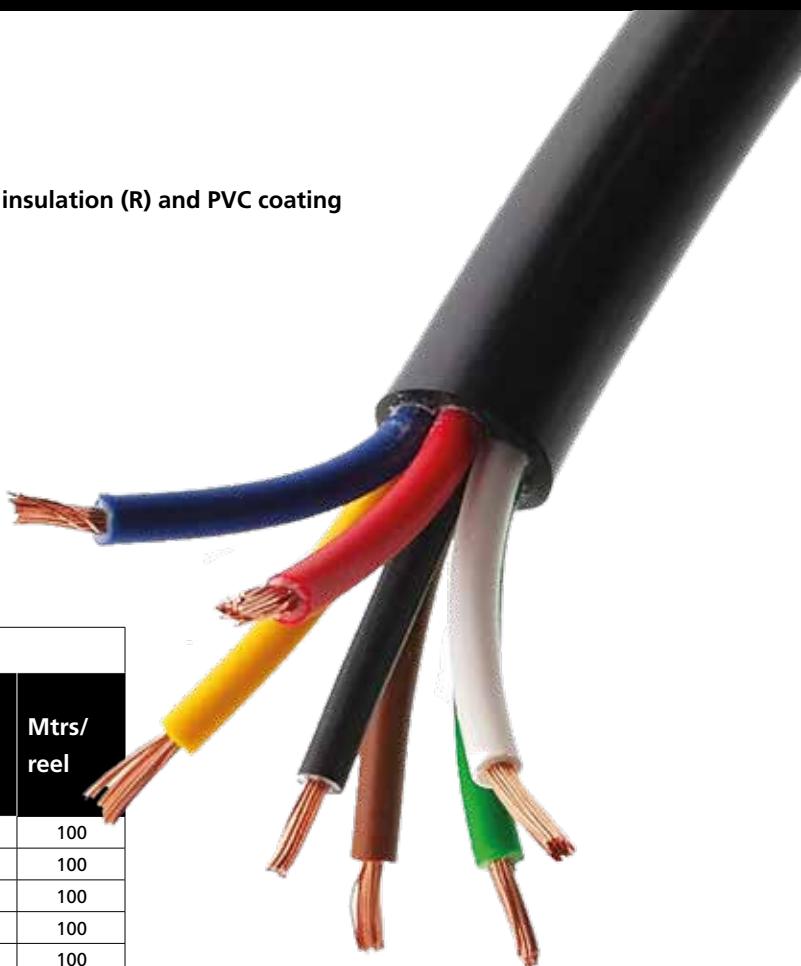
Most sizes are available in black, blue, brown, green, grey, light blue, light green, orange, pink, purple, red, white and yellow. For available trace colors, please contact our Sales Department

Multi-core wire (FLRY-Y)

Low voltage automobile cable (FL) with reduced thickness of insulation (R) and PVC coating
and insulation (YY)

- **Conductor:** **Copper wire (Class 5)**
- **Insulation:** **PVC T2**
- **Outer insulation:** **Special PVC coating**
- **Bending radius:** **12 x D**
- **Test voltage:** **1000V**
- **Rated voltage:** **60V**
- **Temperature rating:** **-40 °C ~ 105 °C**
- **Quality assurance:** **DIN/ISO 6722**

Round cable				
Part nr.	**Wire size mm²**	**Number of cores**	**Outer cable Ø (mm)**	**Mtrs/ reel**
W7032050-100	0,50	2	4,5	100
W7032075-100	0,75	2	5,1	100
W7032100-100	1,00	2	5,5	100
W7032150-100	1,50	2	6,1	100
W7032250-100	2,50	2	7,3	100
W7033050-100	0,50	3	4,8	100
W7033075-100	0,75	3	5,4	100
W7033100-100	1,00	3	5,8	100
W7033150-100	1,50	3	6,5	100
W7033250-100	2,50	3	7,8	100
W7034050-100	0,50	4	5,2	100
W7034075-100	0,75	4	5,9	100
W7034100-100	1,00	4	6,4	100
W7034150-100	1,50	4	7,1	100
W7034250-100	2,50	4	8,6	100
W7035050-100	0,50	5	5,6	100
W7035075-100	0,75	5	6,4	100
W7035100-100	1,00	5	7,0	100
W7035150-100	1,50	5	7,8	100
W7035250-100	2,50	5	9,8	100
W7037050-100	0,50	7	6,1	100
W7037075-100	0,75	7	7,0	100
W7037100-100	1,00	7	8,0	100
W7037150-100	1,50	7	8,9	100
W7037250-100	2,50	7	10,7	100
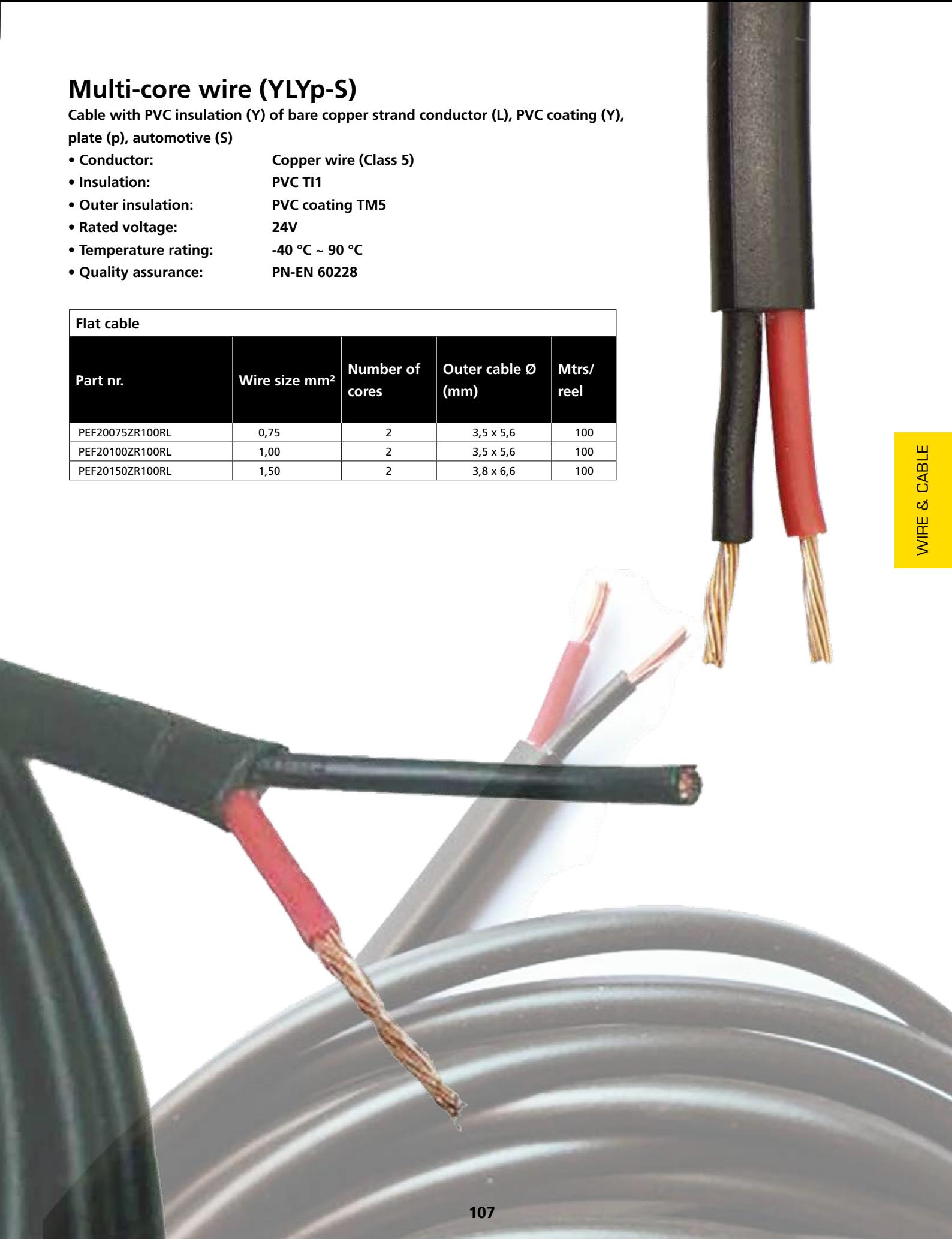
Multi-core wire (YLYp-S)

Cable with PVC insulation (Y) of bare copper strand conductor (L), PVC coating (Y), plate (p), automotive (S)

- **Conductor:** Copper wire (Class 5)
- **Insulation:** PVC TI1
- **Outer insulation:** PVC coating TM5
- **Rated voltage:** 24V
- **Temperature rating:** -40 °C ~ 90 °C
- **Quality assurance:** PN-EN 60228

Flat cable				
Part nr.	Wire size mm²	Number of cores	Outer cable Ø (mm)	Mtrs/ reel
PEF20075ZR100RL	0,75	2	3,5 x 5,6	100
PEF20100ZR100RL	1,00	2	3,5 x 5,6	100
PEF20150ZR100RL	1,50	2	3,8 x 6,6	100

Speaker cable - On spool

- **Conductor:**   **Electrolytic red copper CU ETP 1**
- **Insulation:**   **PVC type TM2**
- **Max. operating voltage:**   **300V**
- **Operating temperature:**   **-15 ~ 70 °C**

Red/black							
Part nr.	**Wire size mm²**	**Nominal conductor construction (wires x mm²)**	**Max. conductor resistance (Ohm/km)**	**Outer cable (mm)**	**Min. insulation thickness (mm)**	**Quality assurance**	**Mtrs/spool**
LS2X0050ZR100SP	2 x 0,50	16 x 0,20	39,00	1,9 x 3,9	0,5	EN 60228 – EN 50525	100
LS2X0075ZR100SP	2 x 0,75	24 x 0,20	26,00	2,2 x 4,5	0,5	EN 50525	100
LS2X0100ZR100SP	2 x 1,00	32 x 0,20	19,50	2,5 x 5,2	0,6	EN 50525	100
LS2X0150ZR100SP	2 x 1,50	30 x 0,25	13,30	2,9 x 6,0	0,6	EN 50525	100
LS2X0250ZR100SP	2 x 2,50	50 x 0,25	7,60	3,6 x 7,4	0,7	EN 50525	100
LS2X0400ZR100SP	2 x 4,00	56 x 0,25	4,95	4,1 x 8,6	0,7	CEI 20-20 / CEI 20-29	100

Transparent							
Part nr.	**Wire size mm²**	**Nominal conductor construction (wires x mm²)**	**Max. conductor resistance (Ohm/km)**	**Outer cable (mm)**	**Min. insulation thickness (mm)**	**Quality assurance**	**Mtrs/spool**
LS2X0050TRS100SP	2 x 0,50	16 x 0,20	39,00	1,9 x 3,9	0,5	EN 60228 – EN 50525	100
LS2X0075TRS100SP	2 x 0,75	24 x 0,20	26,00	2,2 x 4,5	0,5	EN 50525	100
LS2X0100TRS100SP	2 x 1,00	32 x 0,20	19,50	2,5 x 5,2	0,6	EN 50525	100
LS2X0150TRS100SP	2 x 1,50	30 x 0,25	13,30	2,9 x 6,0	0,6	EN 50525	100
LS2X0250TRS100SP	2 x 2,50	50 x 0,25	7,60	3,6 x 7,4	0,7	EN 50525	100
LS2X0400TRS100SP	2 x 4,00	56 x 0,25	4,95	4,1 x 8,6	0,7	CEI 20-20 / CEI 20-29	100

LK-22A
Wire cutter for copper wire

Up to 25 mm²

LK-38A
Wire cutter for copper wire

Up to 35 mm²

LK-60A
Wire cutter for copper wire

Up to 50 mm²

Wire strippers & cutters

LK-38B
Cable scissors for copper wire

Up to 35 mm²

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

WIRE & CABLE

ST-700
Self-adjusting cutter/stripper

0,25 - 4,0 mm²

ST-731
Wire stripper

0,25 - 6,0 mm²

ST-50
6½" Wire stripper

0,5 - 4,0 mm²

LY-700E
6½" Wire stripper

0,5 - 10,0 mm²

ST-801
Multifunctional 4.4" 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 blades and 1 screw

ST-800
Multifunctional 4.4" 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 blades and 1 screw

Battery cable

- **Conductor:** Annealed copper strands (Class 6)
- **Insulation conductor:** PVC, natural
- **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

Reel*

Part nr.	Wire size	Max conductor resistance (Ohm/km)	Outer Ø cable (mm)	Weight cable (kg/km)	Color insulation	Mtrs/reel
PE1000Z010RL	10 mm²		7,9	134	black	10
PE1000R010RL	10 mm²		7,9	134	red	10
PE1600Z010RL	16 mm²	1,210	9,2	191	black	10
PE1600R010RL	16 mm²	1,210	9,2	191	red	10
PE2500Z010RL	25 mm²	0,780	10,4	274	black	10
PE2500R010RL	25 mm²	0,780	10,4	274	red	10
PE3500Z010RL	35 mm²	0,544	11,3	376	black	10
PE3500R010RL	35 mm²	0,544	11,3	376	red	10
PE5000Z010RL	50 mm²	0,386	13,1	531	black	10
PE5000R010RL	50 mm²	0,386	13,1	531	red	10
PE7000Z010RL	70 mm²	0,272	15,3	737	black	10
PE7000R010RL	70 mm²	0,272	15,3	737	red	10
PE9500Z010RL	95 mm²	0,206	17,4	965	black	10
PE9500R010RL	95 mm²	0,206	17,4	965	red	10
PE12000Z010RL	120 mm²	0,161	19,6	1248	black	10
PE12000R010RL	120 mm²	0,161	19,6	1248	red	10

Spool*

Part nr.	Wire size	Max conductor resistance (Ohm/km)	Outer Ø cable (mm)	Weight cable (kg/km)	Color insulation	Mtrs/spool
PE1000Z050SP	10 mm²		7,9	134	black	50
PE1000R050SP	10 mm²		7,9	134	red	50
PE1600Z050SP	16 mm²	1,210	9,2	191	black	50
PE1600R050SP	16 mm²	1,210	9,2	191	red	50
PE2500Z050SP	25 mm²	0,780	10,4	274	black	50
PE2500R050SP	25 mm²	0,780	10,4	274	red	50
PE3500Z050SP	35 mm²	0,544	11,3	376	black	50
PE3500R050SP	35 mm²	0,544	11,3	376	red	50
PE5000Z050SP	50 mm²	0,386	13,1	531	black	50
PE5000R050SP	50 mm²	0,386	13,1	531	red	50
PE7000Z025SP	70 mm²	0,272	15,3	737	black	25
PE7000R025SP	70 mm²	0,272	15,3	737	red	25
PE9500Z025SP	95 mm²	0,206	17,4	965	black	25
PE9500R025SP	95 mm²	0,206	17,4	965	red	25

* Please see our EV Products section for orange battery cable

Battery cable - Tin plated

halogen free

- **Conductor:** Plain copper strands (Class 5), tinned
- **Insulation:** Cross-linked compound (HF90), RAL 3000 (red), RAL 9005 (black)
- **Temperature range:** -40 ~ 90 °C
- **Bending radius:** 4 x D
- **Operating voltage:** 0,6 ~ 1kV
- **Test voltage:** 3,5kV AC and 8,4kV DC
- **Quality assurance:** IEC 60092-351 (conductor)
  VDE0295, IEC 60092-351, IEC 60092-353 (design standards)
  IEC/EN 60228 (conductor resistance)
  IEC 61034 (smoke density)
  IEC 60754-2 EN 50267 (corrosiveness of combustion gases)
- **Flame spread:** IEC 60332-1 / IEC 60332-3-22 (CAT A)

Reel					
Part nr.	Wire size	Outer Ø cable (mm)	Weight cable (kg/km)	Color insulation	Mtrs/ reel
PET0400Z100RL	4 mm²	4,1	51	black	100
PET0400R100RL	4 mm²	4,1	51	red	100
PET0600Z100RL	6 mm²	4,7	76	black	100
PET0600R100RL	6 mm²	4,7	76	red	100
PET1000Z100RL	10 mm²	6,0	123	black	100
PET1000R100RL	10 mm²	6,0	123	red	100
PET1600Z050RL	16 mm²	7,5	173	black	50
PET1600R050RL	16 mm²	7,5	173	red	50
PET2500Z050RL	25 mm²	9,0	257	black	50
PET2500R050RL	25 mm²	9,0	257	red	50
PET3500Z050RL	35 mm²	10,0	340	black	50
PET3500R050RL	35 mm²	10,0	340	red	50
PET5000Z050RL	50 mm²	11,8	477	black	50
PET5000R050RL	50 mm²	11,8	477	red	50
PET7000Z050RL	70 mm²	13,6	649	black	50
PET7000R050RL	70 mm²	13,6	649	red	50
PET9500Z050RL	95 mm²	16,6	891	black	50
PET9500R050RL	95 mm²	16,6	891	red	50

WIRE & CABLE

WIRE & CABLE

Twin cable

- **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.	Wire size mm²	Nominal conductor construction (wires x mm²)	Outer cable (mm)	Insulation thickness	Number of cores	Core colors Black	Red	Mtrs/spool
PE20400ZR050SP	4,0	186 x 0,16	0,7	5,8 x 12,1	2	Z	R	50
PE20600ZR050SP	6,0	192 x 0,19	0,8	6,3 x 12,5	2	Z	R	50
PE21000ZR050SP	10,0	301 x 0,2	0,9	7,6 x 16	2	Z	R	50
PE21600ZR050SP	16,0	476 x 0,2	0,9	8,7 x 18,2	2	Z	R	50
PE22500ZR025SP	25,0	721 x 0,2	1,1	10 x 10,8	2	Z	R	25
PE23500ZR025SP	35,0	1015 x 0,2	1,1	11,4 x 23,8	2	Z	R	25
PE25000ZR025SP	50,0	1463 x 0,2	1,4	13,85 x 28,7	2	Z	R	25
PE27000ZR010SP	70,0	2071 x 0,2	1,6	16 x 33	2	Z	R	10

Ignition cable

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

Part nr.	Wire size	Color jacket	Color insulation	Mtrs/ reel
IC0150Z030RL	1,5 mm²	black	white	30*
IC0150R030RL	1,5 mm²	red	white	30*

* Other lengths are available on request. Please contact our Sales Department for more information

Truck & Trailer Parts

Plugs & Sockets

Lighting

Vehicle Markers

Battery

Hose Clamps

Screws, Bolts & Nuts

Wire & Cable

Bundling & Protection

EV Products

Insulated Terminals

Non-insulated Terminals

Cold End Terminals

Housing

Relays, Switches, Pilot Lights & Buzzers

Tools

Assortment Kits

Heat shrink sleeve - Single wall 2:1

polyolefin | operating temperature -55°C~125°C | shrink temp. 90°C | RoHS compliant

• Shrink ratio: 2:1
• UL and RoHS compliant, halogen free
• Excellent acid fastness and corrosion resistance
• Flammability: VW - 1

Reel				
Part nr.	**Inch**	**Before Ø in mm**	**After Ø in mm**	**Mtrs/reel**
512001B	$3/64$	1,1 ± 0,20	0,5	200
512002B	$1/16$	1,5 ± 0,20	0,65	200
512003B	$3/32$	2,5 ± 0,20	1,0	200
512004B	$1/8$	3,0 ± 0,20	1,3	200
512005B	$3/16$	5,0 ± 0,20	2,3	100
512006B	$1/4$	6,5 ± 0,20	3,0	100
512007B	$3/8$	9,5 ± 0,30	4,5	100
512008B	$1/2$	12,5 ± 0,30	6,0	100
512009B	$5/8$	15,5 ± 0,40	7,5	100
512010B	$3/4$	19,0 ± 0,50	9,0	100
512011B	1	26,0 ± 0,50	12,5	50
512012B	1½	36,5 ± 1,00	17,5	50
512013B	2	50,8	25,4	25
512014B	3	76,2	38,1	25
512015B	4	101,6	50,8	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
Not available in brown
522...B = orange*

Box				
Part nr.	**Inch**	**Before Ø in mm**	**After Ø in mm**	**Mtrs/box**
512001BB	$3/64$	1,1 ± 0,20	0,5	15
512002BB	$1/16$	1,5 ± 0,20	0,65	15
512003BB	$3/32$	2,5 ± 0,20	1,0	13
512004BB	$1/8$	3,0 ± 0,20	1,3	12
512005BB	$3/16$	5,0 ± 0,20	2,3	11
512006BB	$1/4$	6,5 ± 0,20	3,0	10
512007BB	$3/8$	9,5 ± 0,30	4,5	7
512008BB	$1/2$	12,5 ± 0,30	6,0	6
512009BB	$5/8$	15,5 ± 0,40	7,5	5
512010BB	$3/4$	19,0 ± 0,50	9,0	5
512011BB	1	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

Heat shrink sleeve - Single wall 2:1

- Shrink ratio: 2:1
- UL and RoHS compliant, halogen free
- Excellent acid fastness and corrosion resistance
- Flammability: VW - 1

Blister				
Part nr.	Inch	Before Ø in mm	After Ø in mm	Mtrs/blister
212001BL	3/64	1,1 ± 0,20	0,5	2
212002BL	1/16	1,5 ± 0,20	0,65	2
212003BL	3/32	2,5 ± 0,20	1,0	2
212004BL	1/8	3,0 ± 0,20	1,3	2
212005BL	3/16	5,0 ± 0,20	2,3	2
212006BL	1/4	6,5 ± 0,20	3,0	2
212007BL	3/8	9,5 ± 0,30	4,5	2
212008BL	1/2	12,5 ± 0,30	6,0	2
212009BL	5/8	15,5 ± 0,40	7,5	2
212020BL	3/4	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

BUNDLING & PROTECTION

Pieces 1.22 m				
Part nr.	Inch	Before Ø in mm	After Ø in mm	Pcs/bag
512001BS	3/64	1,1 ± 0,20	0,5	200
512002BS	1/16	1,5 ± 0,20	0,65	200
512003BS	3/32	2,5 ± 0,20	1,0	200
512004BS	1/8	3,0 ± 0,20	1,3	150
512005BS	3/16	5,0 ± 0,20	2,3	100
512006BS	1/4	6,5 ± 0,20	3,0	50
512007BS	3/8	9,5 ± 0,30	4,5	50
512008BS	1/2	12,5 ± 0,30	6,0	30
512009BS	5/8	15,5 ± 0,40	7,5	30
512010BS	3/4	19,0 ± 0,50	9,0	30
512011BS	1	26,0 ± 0,50	12,5	20
512012BS	1½	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*

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

Heat shrink sleeve - Single wall 2:1

- • Shrink ratio: 2:1
- • UL and RoHS compliant, halogen free
- • Excellent acid fastness and corrosion resistance
- • Flammability: VW - 1

Pieces 1.00 m				
Part nr.	Inch	Before Ø in mm	After Ø in mm	Pcs/bag
512001BM	$^3/_{64}$	1,1 ± 0,20	0,5	50
512002BM	$^1/_{16}$	1,5 ± 0,20	0,65	50
512003BM	$^3/_{32}$	2,5 ± 0,20	1,0	50
512004BM	$^1/_8$	3,0 ± 0,20	1,3	50
512005BM	$^3/_{16}$	5,0 ± 0,20	2,3	50
512006BM	$^1/_4$	6,5 ± 0,20	3,0	50
512007BM	$^3/_8$	9,5 ± 0,30	4,5	25
512008BM	$^1/_2$	12,5 ± 0,30	6,0	25
512009BM	$^5/_8$	15,5 ± 0,40	7,5	25
512010BM	$^3/_4$	19,0 ± 0,50	9,0	25
512011BM	1	26,0 ± 0,50	12,5	25
512012BM	1½	36,5 ± 1,00	17,5	10
512013BM	2	50,8 ± 0,20	25,4	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

Pieces 10 cm				
Part nr.	Inch	Before Ø in mm	After Ø in mm	Pcs/bag
512001BP	$^3/_{64}$	1,1 ± 0,20	0,5	100
512002BP	$^1/_{16}$	1,5 ± 0,20	0,65	100
512003BP	$^3/_{32}$	2,5 ± 0,20	1,0	100
512004BP	$^1/_8$	3,0 ± 0,20	1,3	100
512005BP	$^3/_{16}$	5,0 ± 0,20	2,3	100
512006BP	$^1/_4$	6,5 ± 0,20	3,0	100
512007BP	$^3/_8$	9,5 ± 0,30	4,5	100
512008BP	$^1/_2$	12,5 ± 0,30	6,0	100
512009BP	$^5/_8$	15,5 ± 0,40	7,5	100
512010BP	$^3/_4$	19,0 ± 0,50	9,0	100
512011BP	1	26,0 ± 0,50	12,5	100
512012BP	1½	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 |
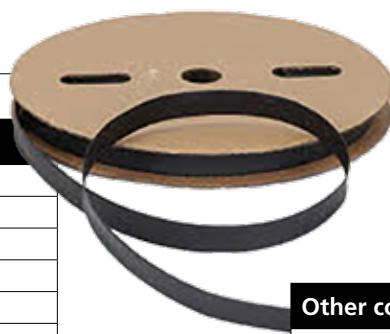
Heat shrink sleeve - Single wall 3:1

- Shrink ratio: 3:1
- UL and RoHS compliant, halogen free
- Excellent acid fastness and corrosion resistance
- Flammability: VW - 1

Reel				
Part nr.	Inch	Before Ø in mm	After Ø in mm	Mtrs/reel
612001B	1/16	1,5	0,5	200
612002B	1/8	3,0	1,0	200
612003B	3/16	4,5	1,5	100
612004B	1/4	6,0	2,0	100
612005B	3/8	9,0	3,0	100
612006B	1/2	12,0	4,0	100
612007B	5/8	15,0	5,0	100
612008B	3/4	18,0	6,0	100
612009B	1	24,0	8,0	50
612010B	1¼	30,0	10,0	50
612011B	1½	39,0	13,0	50

Other color part nr.
Only available in black

BUNDLING & PROTECTION

Box				
Part nr.	Inch	Before Ø in mm	After Ø in mm	Mtrs/box
612001BB	1/16	1,5	0,5	15
612002BB	1/8	3,0	1,0	12
612003BB	3/16	4,5	1,5	11
612004BB	1/4	6,0	2,0	10
612005BB	3/8	9,0	3,0	7
612006BB	1/2	12,0	4,0	6
612007BB	5/8	15,0	5,0	5
612008BB	3/4	18,0	6,0	5
612009BB	1	24,0	8,0	4

Other color part nr.
Only available in black

Heat shrink sleeve - Single wall 3:1

polyolefin | operating temperature -55°C~125°C | shrink temp. 90°C | RoHS compliant

• Shrink ratio: 3:1
• UL and RoHS compliant, halogen free
• Excellent acid fastness and corrosion resistance
• Flammability: VW - 1

Pieces 1.22 m				
Part nr.	**Inch**	**Before Ø in mm**	**After Ø in mm**	**Pcs/bag**
612001BS	$^1/_{16}$	1,5	0,5	200
612002BS	$^1/_8$	3,0	1,0	150
612003BS	$^3/_{16}$	4,5	1,5	100
612004BS	$^1/_4$	6,0	2,0	50
612005BS	$^3/_8$	9,0	3,0	50
612006BS	$^1/_2$	12,0	4,0	30
612007BS	$^5/_8$	15,0	5,0	30
612008BS	$^3/_4$	18,0	6,0	30
612009BS	1	24,0	8,0	20
612010BS	1¼	30,0	10,0	20
612011BS	1½	39,0	13,0	10

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

Pieces 1.00 m				
Part nr.	**Inch**	**Before Ø in mm**	**After Ø in mm**	**Pcs/bag**
612001BM	$^1/_{16}$	1,5	0,5	50
612002BM	$^1/_8$	3,0	1,0	50
612003BM	$^3/_{16}$	4,5	1,5	50
612004BM	$^1/_4$	6,0	2,0	50
612005BM	$^3/_8$	9,0	3,0	25
612006BM	$^1/_2$	12,0	4,0	25
612007BM	$^5/_8$	15,0	5,0	25
612008BM	$^3/_4$	18,0	6,0	25
612009BM	1	24,0	8,0	10
612010BM	1¼	30,0	10,0	10
612011BM	1½	39,0	13,0	10

Other color part nr.
Only available in black

Heat shrink sleeve - Dual wall 3:1

- polyolefin adhesive
- operating temperature -55°C~125°C
- shrink temp. 110°C
- RoHS compliant
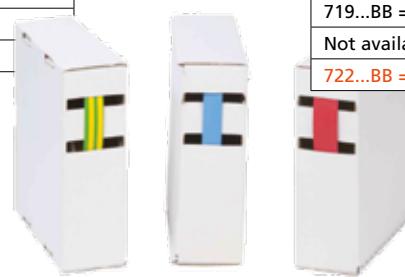
- Shrink ratio: 3:1 with adhesive liner
- UL and RoHS compliant, halogen free
- Excellent acid fastness and corrosion resistance
- Flammability: VW - 1

Reel				
Part nr.	Inch	Before Ø in mm	After Ø in mm	Mtrs/reel
712001B	1/8	3,0	1,0	200
712002B	3/16	4,8	1,6	100
712003B	1/4	6,4	2,1	100
712004B	5/16	7,9	2,6	100
712005B	3/8	9,5	3,2	50
712006B	1/2	12,7	4,2	25
712007B	5/8	15,4	5,1	25
712008B	3/4	19,1	6,4	25
712009B	1	25,4	8,4	25
712010B	1¼	30,0	10,0	25
712011B	1½	39,0	13,0	25
712012B	2	50,0	16,0	25
712013B	2 33/64	63,9	21,3	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.	Inch	Before Ø in mm	After Ø in mm	Mtrs/box
712001BB	1/8	3,0	1,0	5,0
712002BB	3/16	4,8	1,6	4,0
712003BB	1/4	6,4	2,1	3,5
712004BB	5/16	7,9	2,6	3,0
712005BB	3/8	9,5	3,2	3,0
712006BB	1/2	12,7	4,2	2,5
712007BB	5/8	15,4	5,1	2,5
712008BB	3/4	19,1	6,4	2,0
712009BB	1	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*

BUNDLING & PROTECTION

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

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Heat shrink sleeve - Dual wall 3:1

- Shrink ratio: 3:1 with adhesive liner
- UL and RoHS compliant, halogen free
- Excellent acid fastness and corrosion resistance
- Flammability: VW - 1

Pieces 1.22 m

Part nr.	Inch	Before Ø in mm	After Ø in mm	Pcs/bag
712001BS	1/8	3,0	1,0	100
712002BS	3/16	4,8	1,6	60
712003BS	1/4	6,4	2,1	40
712004BS	5/16	7,9	2,6	30
712005BS	3/8	9,5	3,2	20
712006BS	1/2	12,7	4,2	15
712007BS	5/8	15,4	5,1	15
712008BS	3/4	19,1	6,4	10
712009BS	1	25,4	8,4	10

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*

Pieces 10 cm

Part nr.	Inch	Before Ø in mm	After Ø in mm	Pcs/bag
712001BP	1/8	3,0	1,0	50
712002BP	3/16	4,8	1,6	50
712003BP	1/4	6,4	2,1	50
712004BP	5/16	7,9	2,6	50
712005BP	3/8	9,5	3,2	50
712006BP	1/2	12,7	4,2	50
712007BP	5/8	15,4	5,1	25
712008BP	3/4	19,1	6,4	25
712009BP	1	25,4	8,4	25

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

AE INDUSTRIES

Heat shrink sleeve - Dual wall 4:1

polyolefin adhesive | operating temperature -55°C - 125°C | shrink temp. 110°C | RoHS compliant

- Shrink ratio: 4:1 with adhesive liner
- UL and RoHS compliant, halogen free
- Excellent acid fastness and corrosion resistance
- Flammability: VW - 1

| Reel				
Part nr.	Inch	Before Ø in mm	After Ø in mm	Mtrs/reel
812001B	3/16	4,0	1,0	200
812002B	1/4	6,0	1,5	100
812003B	5/16	8,0	2,0	100
812004B	1/12	12,0	3,0	25
812005B	5/8	16,0	4,0	25
812006B	25/32	20,0	5,0	25
812007B	1	24,0	6,0	25
812008B	1¼	32,0	8,0	25
812009B	1 37/64	40,0	10,0	25
812010B	2 3/64	52,0	13,0	25

Other color part nr.
Only available in black

Box				
Part nr.	Inch	Before Ø in mm	After Ø in mm	Mtrs/box
812001BB	3/16	4,0	1,0	5,0
812002BB	1/4	6,0	1,5	3,5
812003BB	5/16	8,0	2,0	3,0
812004BB	1/12	12,0	3,0	2,5
812005BB	5/8	16,0	4,0	2,5
812006BB	25/32	20,0	5,0	2,0
812007BB	1	24,0	6,0	1,5

Other color part nr.
Only available in black

Pieces 1.22 m				
Part nr.	Inch	Before Ø in mm	After Ø in mm	Pcs/bag
812001BS	3/16	4,0	1,0	60
812002BS	1/4	6,0	1,5	40
812003BS	5/16	8,0	2,0	30
812004BS	1/12	12,0	3,0	20
812005BS	5/8	16,0	4,0	15
812006BS	25/32	20,0	5,0	10
812007BS	1	24,0	6,0	10
812008BS	1¼	32,0	8,0	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

BUNDLING & PROTECTION

Heat shrink sleeve assortments

ADSWB-001
170 pcs (length 100 mm)

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

ADSWC-005
590 pcs (length 50, 100, 150 and 200 mm)

Single wall 2:1 in black, red, white, blue and yellow

5 x 20 pcs 1,2 > 0,6 mm
5 x 20 pcs 1,6 > 0,8 mm
5 x 20 pcs 2,4 > 1,2 mm
5 x 20 pcs 3,2 > 1,6 mm
5 x 10 pcs 4,8 > 2,4 mm
5 x 10 pcs 6,4 > 3,2 mm
5 x 6 pcs 9,5 > 4,8 mm
5 x 5 pcs 12,7 > 6,4 mm
5 x 4 pcs 19,1 > 8,5 mm
5 x 3 pcs 25,4 > 12,7 mm

ADDWC-002
87 pcs (length 100 mm)

Dual wall 3:1 with adhesive liner in back 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

ADDWB-002
87 pcs (length 100 mm)

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

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

SSB DISPLAY002

Blue metal display with scis-
sors 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

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 for heat shrink sleeve
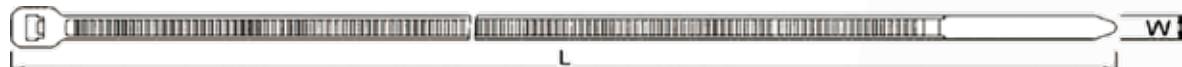
MJ-300
Heatgun*
with micro-flame

90-51773
Universal lighter gas (butane)
200 ml

MJ-600
Flameless heatgun*

* Heatguns are supplied
   with **empty** lighter

123

Cable ties - 100 Pcs/bag

- Material: PA 6.6
- Flammability: UL 94 Class V-2
- Features: Not resistant to mineral acids and oxidizing agents
  Designed for indoor applications
  Rounded edges to avoid cable damage
- Stock: Black and natural

Part nr.	Color	L mm	W mm	Bundle Ø mm	Tensile str. kgf
KKB8024B	Black	75	2.5	2 ~ 16	11
KKB8024N	Natural	75	2.5	2 ~ 16	11
KKB10025B	Black	100	2.5	2 ~ 24	11
KKB10025N	Natural	100	2.5	2 ~ 24	11
KKB12025B	Black	135	2.5	2 ~ 35	11
KKB12025N	Natural	135	2.5	2 ~ 35	11
KKB14025B	Black	135	2.5	2 ~ 35	11
KKB14025N	Natural	135	2.5	2 ~ 35	11
KKB16025B	Black	160	2.5	2 ~ 42	11
KKB16025N	Natural	160	2.5	2 ~ 42	11
KKB20025B	Black	200	2.5	2 ~ 55	11
KKB20025N	Natural	200	2.5	2 ~ 55	11
KKB14036B	Black	140	3.5	3 ~ 36	20
KKB14036N	Natural	140	3.5	3 ~ 36	20
KKB15036B	Black	140	3.5	3 ~ 36	20
KKB15036N	Natural	140	3.5	3 ~ 36	20
KKB20036B	Black	200	3.5	3 ~ 55	20
KKB20036N	Natural	200	3.5	3 ~ 55	20
KKB29236B	Black	280	3.5	3 ~ 80	20
KKB29236N	Natural	280	3.5	3 ~ 80	20
KKB37036B	Black	360	3.5	5 ~ 103	20
KKB37036N	Natural	360	3.5	5 ~ 103	20
KKB12048B	Black	140	4.5	3 ~ 33	28
KKB12048N	Natural	140	4.5	3 ~ 33	28

Part nr.	Color	L mm	W mm	Bundle Ø mm	Tensile str. kgf
KKB16048B	Black	160	4.5	3 ~ 38	28
KKB16048N	Natural	160	4.5	3 ~ 38	28
KKB18848B	Black	180	4.5	3 ~ 45	28
KKB18848N	Natural	180	4.5	3 ~ 45	28
KKB20048B	Black	200	4.5	3 ~ 51	28
KKB20048N	Natural	200	4.5	3 ~ 51	28
KKB25048B	Black	250	4.5	5 ~ 68	28
KKB25048N	Natural	250	4.5	5 ~ 68	28
KKB28048B	Black	280	4.5	5 ~ 76	28
KKB28048N	Natural	280	4.5	5 ~ 76	28
KKB30048B	Black	300	4.5	5 ~ 80	28
KKB30048N	Natural	300	4.5	5 ~ 80	28
KKB36848B	Black	360	4.5	5 ~ 101	28
KKB36848N	Natural	360	4.5	5 ~ 101	28
KKB39048B	Black	380	4.5	5 ~ 110	28
KKB39048N	Natural	380	4.5	5 ~ 110	28
KKB43048B	Black	430	4.5	5 ~ 123	28
KKB43048N	Natural	430	4.5	5 ~ 123	28

Part nr.	Color	L mm	W mm	Bundle Ø mm	Tensile str. kgf
KKB43090B	Black	430	9.0	20 ~ 118	80
KKB43090N	Natural	430	9.0	20 ~ 118	80
KKB53090B	Black	550	9.0	20 ~ 160	80
KKB53090N	Natural	550	9.0	20 ~ 160	80
KKB63090B	Black	550	9.0	20 ~ 160	80
KKB63090N	Natural	550	9.0	20 ~ 160	80
KKB71090B	Black	780	9.0	20 ~ 235	80
KKB71090N	Natural	780	9.0	20 ~ 235	80
KKB77590B	Black	780	9.0	20 ~ 235	80
KKB77590N	Natural	780	9.0	20 ~ 235	80
KKB83090B	Black	920	9.0	40 ~ 280	80
KKB83090N	Natural	920	9.0	40 ~ 280	80
KKB92090B	Black	920	9.0	40 ~ 280	80
KKB92090N	Natural	920	9.0	40 ~ 280	80
KKB102090B	Black	920	9.0	40 ~ 280	80
KKB102090N	Natural	920	9.0	40 ~ 280	80
KKB122090B	Black	1220	9.0	40 ~ 409	80
KKB122090N	Natural	1220	9.0	40 ~ 375	80
KKB153090B	Black	1330	9.0	40 ~ 375	80
KKB153090N	Natural	1330	9.0	40 ~ 375	80
KKB230130B	Black	250	12.5	10 ~ 62	120
KKB230130N	Natural	250	12.5	10 ~ 62	120
KKB480130B	Black	500	12.5	10 ~ 140	120
KKB480130N	Natural	500	12.5	10 ~ 140	120
KKB580130B	Black	500	12.5	10 ~ 140	120
KKB580130N	Natural	500	12.5	10 ~ 140	120
KKB730130B	Black	750	12.5	40 ~ 222	120
KKB730130N	Natural	750	12.5	40 ~ 222	120
KKB880130B	Black	1000	12.5	40 ~ 300	120
KKB880130N	Natural	1000	12.5	40 ~ 300	120
KKB1030130B	Black	1000	12.5	40 ~ 300	120
KKB1030130N	Natural	1000	12.5	40 ~ 300	120

Part nr.	Color	L mm	W mm	Bundle Ø mm	Tensile str. kgf
KKB15076B	Black	180	7.5	5 ~ 44	65
KKB15076N	Natural	180	7.5	5 ~ 44	65
KKB20076B	Black	200	7.5	5 ~ 48	65
KKB20076N	Natural	200	7.5	5 ~ 48	65
KKB25076B	Black	240	7.5	5 ~ 62	65
KKB25076N	Natural	240	7.5	5 ~ 62	65
KKB29276B	Black	280	7.5	5 ~ 76	65
KKB29276N	Natural	280	7.5	5 ~ 76	65
KKB36876B	Black	360	7.5	5 ~ 101	65
KKB36876N	Natural	360	7.5	5 ~ 101	65
KKB45076B	Black	450	7.5	20 ~ 130	65
KKB45076N	Natural	450	7.5	20 ~ 130	65
KKB54076B	Black	540	7.5	20 ~ 160	65
KKB54076N	Natural	540	7.5	20 ~ 160	65
KKB61576B	Black	540	7.5	20 ~ 160	65
KKB61576N	Natural	540	7.5	20 ~ 160	65
KKB75076B	Black	750	7.5	32 ~ 222	65
KKB75076N	Natural	750	7.5	32 ~ 222	65

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

Cable ties - 1000 Pcs/bag

polyamide 6.6 (PA 6.6) | operating temperature -40°C-85°C | halogen free

- • Flammability: UL 94 Class V-2
- • Features: Not resistant to mineral acids and oxidizing agents
                           Designed for indoor applications
                           Rounded edges to avoid cable damage
- • Stock: Natural and black

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
KB12025N	Natural	135	2.5	2 ~ 35	11
KB14025B	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
KB15036B	Black	140	3.5	3 ~ 36	20
KB15036N	Natural	140	3.5	3 ~ 36	20
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

1503043

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

Nylon cable ties assortments

- **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**

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
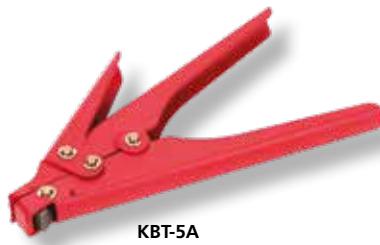
BUNDLING & PROTECTION

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 op to 1,6 mm
Adjustable

Tools for nylon cable ties

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

127
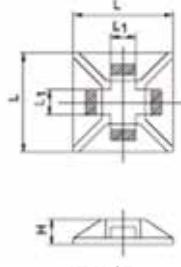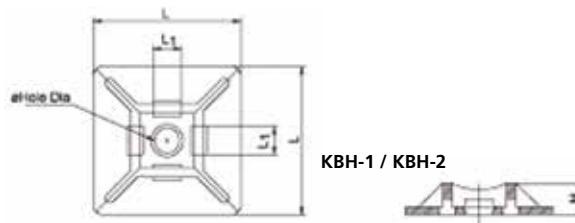
Adhesive tie mounts

- Nylon 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 Class V-2

KBH-1 / KBH-2
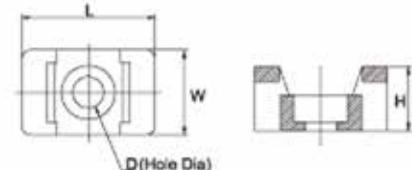
KBH-05

Part nr.	Color	Size	H	L1	Ø Hole	Packed
KBH-05Z	UV black	12,7 x 12,7	3,2	3,2	-	100
KBH-05	natural	12,7 x 12,7	3,2	3,2	-	100
KBH-1Z	UV black	19,0 x 19,0	4,4	4,0	3,5	100
KBH-1	natural	19,0 x 19,0	4,4	4,0	3,5	100
KBH-2Z	UV black	27,7 x 27,7	5,3	5,3	5,7	100
KBH-2	natural	27,7 x 27,7	5,3	5,3	5,7	100

Saddle tie mounts

- Nylon 6.6 with quality adhesive
- Available in black (UV resistant)
- Flammability: UL 94 Class V - 2

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

Thomas & Betts cable ties

- Nylon (PA 6.6) with stainless steel locking device
- Halogen and silicone free
- Available in black (UV resistant) and natural
- Operating temperature: -40 °C ~ 85 °C
- Flammability: UL 94 Class V-2
- Standards: UL E49405, GL, Lloyd's, BVQ
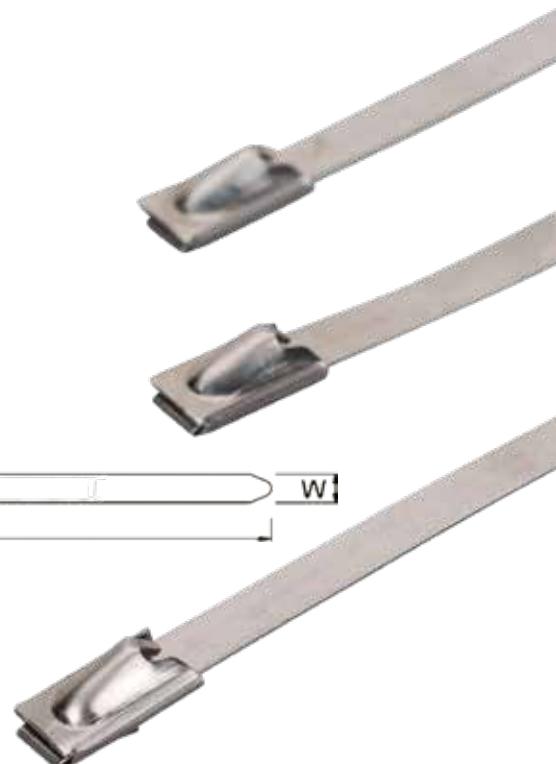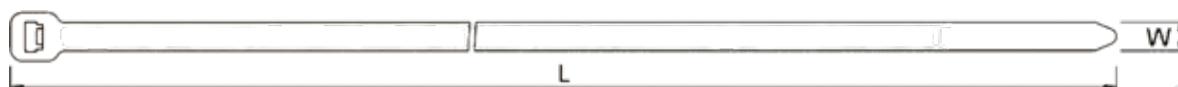
Part nr.	Color	L mm	W mm	Max. bundle mm	Min. Str. in kgs	Pcs/bag
TY-23 m	natural	92	2,40	16,00	8,1	1000
TY-23 mx	UV black	92	2,40	16,00	8,1	1000
TY-232 m	natural	203	2,40	50,00	8,1	1000
TY-232 mx	UV black	203	2,40	50,00	8,1	1000
TY-234 m	natural	356	2,40	102,00	8,1	1000
TY-234 mx	UV black	356	2,40	102,00	8,1	1000
TY-24 m	natural	140	3,60	29,00	18,0	1000
TY-24 mx	UV black	140	3,60	29,00	18,0	1000
TY-242 m	natural	208	3,60	50,00	18,0	1000
TY-242 mx	UV black	208	3,60	50,00	18,0	1000
TY-26 m	natural	284	3,60	76,00	18,0	1000
TY-26 mx	UV black	284	3,60	76,00	18,0	1000
TY-244 m	natural	368	3,60	103,00	18,0	1000
TY-244 mx	UV black	368	3,60	103,00	18,0	1000
TY-25 m	natural	186	4,80	45,00	22,5	1000
TY-25 mx	UV black	186	4,80	45,00	22,5	1000
TY-253 m	natural	290	4,80	78,00	22,5	1000
TY-253 mx	UV black	290	4,80	78,00	22,5	1000
TY-28 m	natural	361	4,80	102,00	22,5	1000
TY-28 mx	UV black	361	4,80	102,00	22,5	1000
TY-272 m	natural	223	6,90	50,00	54,4	500
TY-272 mx	UV black	223	6,90	50,00	54,4	500
TY-27 m	natural	340	6,90	90,00	54,4	500
TY-27 mx	UV black	340	6,90	90,00	54,4	500
TY-29 m	natural	771	6,90	229,00	54,4	500
TY-29 mx	UV black	771	6,90	229,00	54,4	500

Steel cable ties - 304 Stainless steel

- Speedy application
- Unflammable
- Flexible head design easily flexes around tubing or bundled wiring
- Excellent resistance to harsh corrosive and salt water environments, acids, chemicals and radiation exposure, temperature extremes, food processing and vibrating equipment
- Suitable for automotive, electronic, oil & gas, marine, construction, industry

Part nr.	L mm	W mm	Min. Str. in kgs	Pcs/bag
KKB13045RVS	129	4,45	46	100
KKB20045RVS	200	4,45	46	100
KKB30045RVS	300	4,45	46	100
KKB37045RVS	370	4,45	46	100
KKB52045RVS	520	4,45	46	100
KKB68045RVS	680	4,45	46	100
KKB84045RVS	840	4,45	46	100
KKB20080RVS	197	7,96	114	100
KKB30080RVS	300	7,96	114	100
KKB37080RVS	368	7,96	114	100
KKB50080RVS	500	7,96	114	100
KKB680080RVS	680	7,96	114	100
KKB84080RVS	840	7,96	114	100
KKB102080RVS	1.020	7,96	114	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 section on page 313)

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

polyolefin | operating temperature -30°C~100°C | RoHS compliant

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

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

BUNDLING & PROTECTION

Expandable braided sleeve

- polyester (PET)
- operating temperature -50°C~150°C
- melting point 250 ± 5°C
- RoHS compliant

• 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-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 mm	10
EBSB-006BK	6	3 - 9 mm	10
EBSB-008BK	8	5 - 16 mm	10
EBSB-010BK	10	7 - 19 mm	10
EBSB-012BK	12	8 - 24 mm	8
EBSB-015BK	15	10 - 27 mm	8
EBSB-020BK	20	14 - 30 mm	8
EBSB-025BK	25	18 - 35 mm	5
EBSB-030BK	30	20 - 50 mm	5
EBSB-040BK	40	30 - 60 mm	5
EBSB-045BK	45	35 - 75 mm	5
EBSB-050BK	50	40 - 80 mm	3
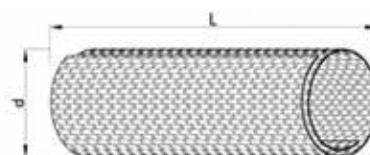
Non-expandable self-closing braided wrap
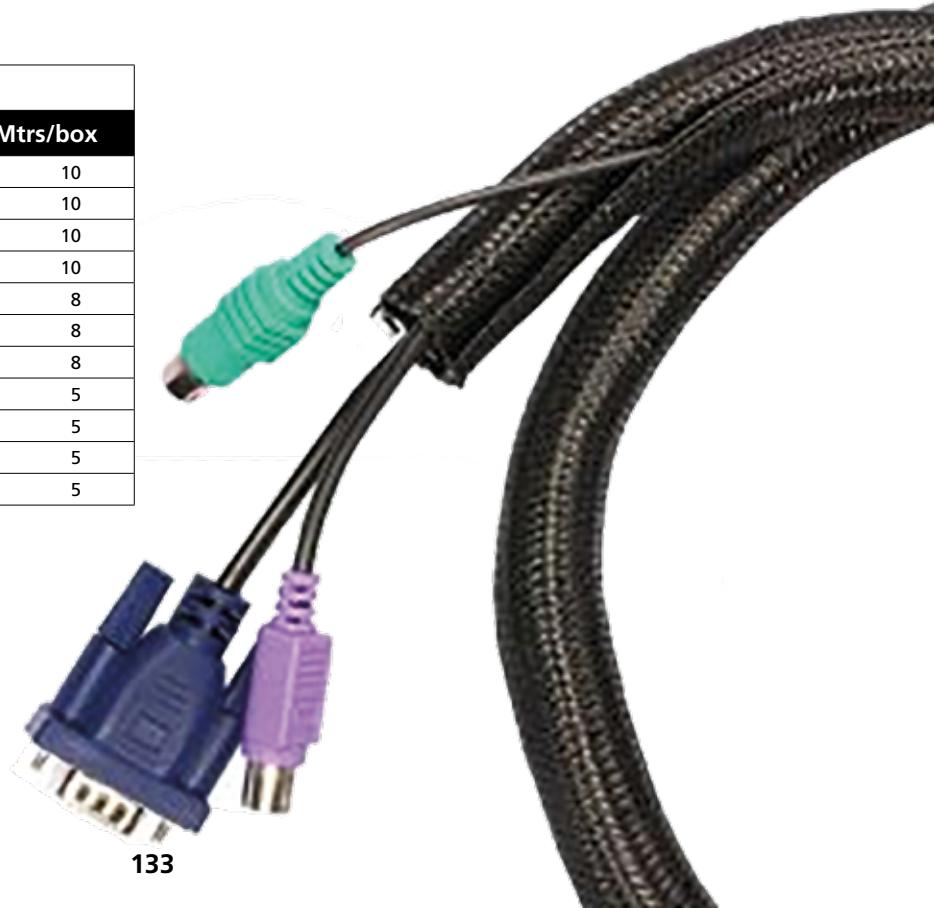
- Slit-open, polyester protection sleeve for use over wire harnesses, to provide a tough and durable protection
- Cutting tool: Hot knife
- Flammability: VW-1
- Certificate: UL, halogen free

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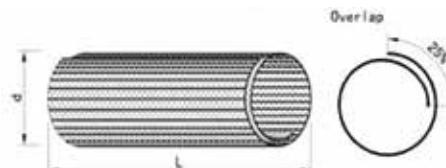
Box			
Part nr.	Inner Ø mm	Max. Ø bundle	Mtrs/box
SCSB-005BK	5	6	10
SCSB-008BK	8	9	10
SCSB-010BK	10	11	10
SCSB-013BK	13	14	10
SCSB-016BK	16	17	8
SCSB-019BK	19	20	8
SCSB-025BK	25	27	8
SCSB-029BK	29	31	5
SCSB-032BK	32	34	5
SCSB-038BK	38	40	5
SCSB-050BK	50	52	5

BUNDLING & PROTECTION

Expandable self-closing braided wrap

polyester (PET) — operating temperature -50°C–150°C — melting point 250 ± 5°C — RoHS compliant

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

Overlap

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

Box			
Part nr.	Inner Ø mm	Max. Ø bundle	Mtrs/box
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

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Corrugated tube

(poly-propylene (PP)) (Dual Wall: Nylon/Poly-propylene (PA/PP)) (operating temperature -40°C~135°C)

- Flexible and flame-retardant polypropylene tube
- Suitable for insulation use in automotive electronics, with excellent electrical and physical properties, including excellent acid fastness and corrosion resistance
- Enormous cold impact strength
- Bending stable
- Excellent chemical resistance

Closed*

Part nr.	Nominal size	Inner Ø mm	Outer Ø mm	Mtrs/reel
CCT06-100	6	6 ± 0,3	9 ± 0,3	100
CCT09-100	9	9 ± 0,3	13 ± 0,3	100
CCT11-100	11	11 ± 0,3	15 ± 0,3	100
CCT13-100	13	13 ± 0,3	17 ± 0,3	100
CCT16-050	16	16 ± 0,3	20 ± 0,3	50
CCT19-050	19	19 ± 0,3	23 ± 0,3	50
CCT22-025	20	22 ± 0,3	27 ± 0,3	25
CCT25-025	25	25 ± 0,3	30 ± 0,3	25
CCT28-025	28	28 ± 0,3	34 ± 0,3	25
CCT30-025	30	30 ± 0,3	36 ± 0,3	25
CCT32-025	32	32 ± 0,3	38 ± 0,3	25
CCT35-025	35	35 ± 0,3	40 ± 0,3	25
CCT40-025	40	40 ± 0,3	45 ± 0,3	25

Slit*

Part nr.	Nominal size	Inner Ø mm	Outer Ø mm	Mtrs/reel
PCT06-100	6	6 ± 0,3	9 ± 0,3	100
PCT09-100	9	9 ± 0,3	13 ± 0,3	100
PCT11-100	11	11 ± 0,3	15 ± 0,3	100
PCT13-100	13	13 ± 0,3	17 ± 0,3	100
PCT16-050	16	16 ± 0,3	20 ± 0,3	50
PCT19-050	19	19 ± 0,3	23 ± 0,3	50
PCT22-025	22	22 ± 0,3	27 ± 0,3	25
PCT25-025	25	25 ± 0,3	30 ± 0,3	25
PCT28-025	28	28 ± 0,3	34 ± 0,3	25
PCT30-025	30	30 ± 0,3	36 ± 0,3	25
PCT32-025	32	32 ± 0,3	38 ± 0,3	25
PCT35-025	35	35 ± 0,3	40 ± 0,3	25
PCT40-025	40	40 ± 0,3	45 ± 0,3	25

Slit dual wall

Part nr.	Nominal size	Inner Ø mm	Outer Ø mm	Thickness mm	Mtrs/reel
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

* Please see our EV Products section for orange corrugated tube

BUNDLING & PROTECTION

Insulation sleeving - On reel

- Non-shrinkable PVC insulation sleeving on reel
- Suitable for insulaltion use in automotive electronics, terminal lugs, small electrical parts, lead wires of motors and transformers
- Available in black and clear
- Flammability: VW-1
- Certificate: UL224, halogen free,
                                           ASTM D2671 / ASTM D638
- Oil resistance: Class 01 (all colors except clear)
- Max. V, rms: 600

Reel					
Part nr. black	**Part nr. clear**	**Nominal size**	**Inner Ø mm**	**Wall thickness**	**Mtrs/reel**
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
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
IS006	IS006CL	12,0	12,0 ± 0,15	0,50 ± 0,10	50
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
IS009	IS009CL	16,0	16,0 ± 0,15	0,70 ± 0,10	50
IS121	IS121CL	17,0	17,0 ± 0,15	0,70 ± 0,10	50
IS122	IS122CL	18,0	18,0 ± 0,15	0,75 ± 0,10	50
IS123	IS123CL	19,0	19,0 ± 0,15	0,75 ± 0,10	50
IS124	IS124CL	20,0	20,0 ± 0,15	0,75 ± 0,10	50
IS125	IS125CL	25,0	25,0 ± 0,15	0,75 ± 0,10	50
IS126	IS126CL	30,0	30,0 ± 0,15	1,00 ± 0,10	50
IS127	IS127CL	35,0	35,0 ± 0,15	1,00 ± 0,10	50
IS128	IS128CL	40,0	40,0 ± 0,15	1,00 ± 0,10	50

BUNDLING & PROTECTION

PVC tape

- Material: Plasticized PVC with rubber based adhesive
- Thickness: 0,1 mm
- Tensile strength: 5 kg/25 mm
- Elongation: > 100%

Standard packing units, 15 or 19 mm x 10 m x 0,1 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 0,1 mm

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

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

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Duct tape

- Tensile strength: 90N/25 mm
- Peel strength at 180 °C: 10N/25 mm
- Mesh: 35
- Width: 50 mm
- Length: 25 m per roll
- Thickness: 0,18 mm
- Operating temperature: -30 °C ~ 80 °C

Part nr.	Color	Rolls/wrap
DT355025E	white	10

Self-fusing tape

- Material: PIB insulation rubber
- Width: 19 mm
- Tensile strength: 2,0-2,3 MPa
- Elongation at break: 700-900%

Part nr.	Liner	Thickness mm	Rolls/wrap
SFT001	PP synthetic release liner	0,75	10
SFT002	PP synthetic release liner	0,75	9,1
SFT003	PP synthetic release liner	0,5	10
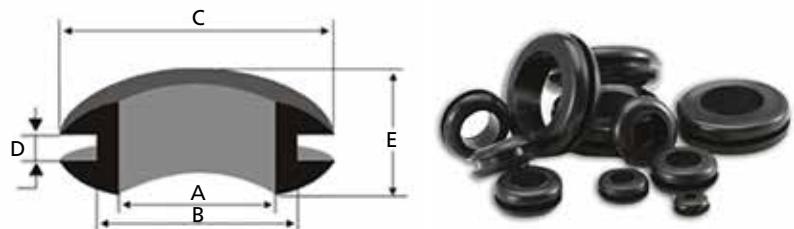
Aluminum tape

- Adhesive strength: 9,0N/25mm
- Tensile strength: 100N/25mm
- Width: 50 mm
- Length: 50 m per roll
- Thickness: 0,05 mm
- Maximum temperature: 120 °C
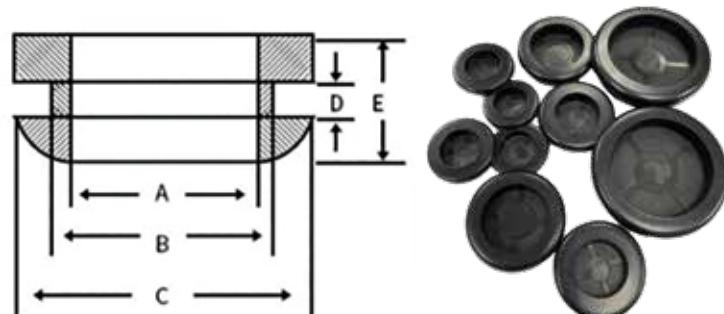
Part nr.	Color	Rolls/wrap
AT725SE	aluminum	10

Grommets

• Material: Rubber
• Great protection for cables, because rubber grommets cover sharp edges that could snare cables, cords and wires
• Extremely durable because of their resistance to tears and abrasions, giving the grommets an
   enhanced durability for any automotive, machining or manufacturing installations
• Weather resistant because the grommets are made with neoprene, which has great resistance to outdoor environments
   and electricity

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 Open grommets

50 x HD190050P18
50 x HD190050P316
35 x HD190025P14
25 x HD190025P516
20 x HD190010P38
10 x HD190010P12
10 x HD190010P2564
5 x HD190005P58
5 x HD190005P1116

HD170120BG
120 pcs Blanking grommets

20 x HD1700BLGP15
20 x HD1700BLGP17
15 x HD1700BLGP20
15 x HD1700BLGP22
10 x HD1700BLGP25
10 x HD1700BLGP27
10 x HD1700BLGP30
10 x HD1700BLGP32
5 x HD1700BLGP35
5 x HD1700BLGP40

Truck & Trailer Parts

Plugs & Sockets

Lighting

Vehicle Markers

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

Heat shrink sleeve - Single wall 2:1

polyolefin | operating temperature -55°C~125°C | shrink temp. 90°C | RoHS compliant
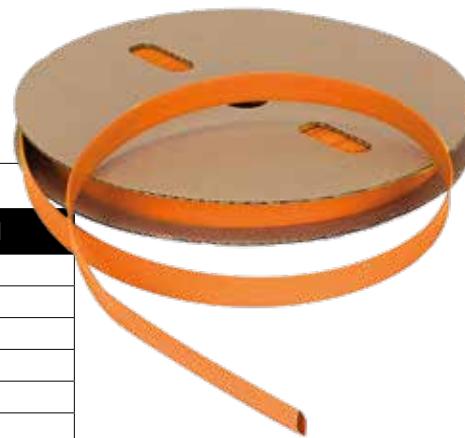
- Shrink ratio: 2:1
- UL and RoHS compliant, halogen free
- Excellent acid fastness and corrosion resistance
- Flammability: VW-1

Reel				
Part nr.	Inch	Before Ø in mm	After Ø in mm	Mtrs/reel
522001B	$^3/_{64}$	1,1 ± 0,20	0,5	200
522002B	$^1/_{16}$	1,5 ± 0,20	0,65	200
522003B	$^3/_{32}$	2,5 ± 0,20	1,0	200
522004B	$^1/_8$	3,0 ± 0,20	1,3	200
522005B	$^3/_{16}$	5,0 ± 0,20	2,3	100
522006B	$^1/_4$	6,5 ± 0,20	3,0	100
522007B	$^3/_8$	9,5 ± 0,20	4,5	100
522008B	$^1/_2$	12,5 ± 0,20	6,0	100
522009B	$^5/_8$	15,5 ± 0,20	7,5	100
522010B	$^3/_4$	19,0 ± 0,20	9,0	100
522011B	1	26,0 ± 0,20	12,5	50
522012B	1½	36,5 ± 0,20	17,5	50
522013B	2	50,8 ± 0,20	25,4	25
522014B	3	76,2 ± 0,20	38,1	25
522015B	4	101,6 ± 0,20	50,8	25

| Box				
Part nr.	Inch	Before Ø in mm	After Ø in mm	Mtrs/box
522001BB	$^3/_{64}$	1,1 ± 0,20	0,5	15
522002BB	$^1/_{16}$	1,5 ± 0,20	0,65	15
522003BB	$^3/_{32}$	2,5 ± 0,20	1,0	13
522004BB	$^1/_8$	3,0 ± 0,20	1,3	12
522005BB	$^3/_{16}$	5,0 ± 0,20	2,3	11
522006BB	$^1/_4$	6,5 ± 0,20	3,0	10
522007BB	$^3/_8$	9,5 ± 0,20	4,5	7
522008BB	$^1/_2$	12,5 ± 0,20	6,0	6
522009BB	$^5/_8$	15,5 ± 0,20	7,5	5
522010BB	$^3/_4$	19,0 ± 0,20	9,0	5
522011BB	1	26,0 ± 0,20	12,5	4
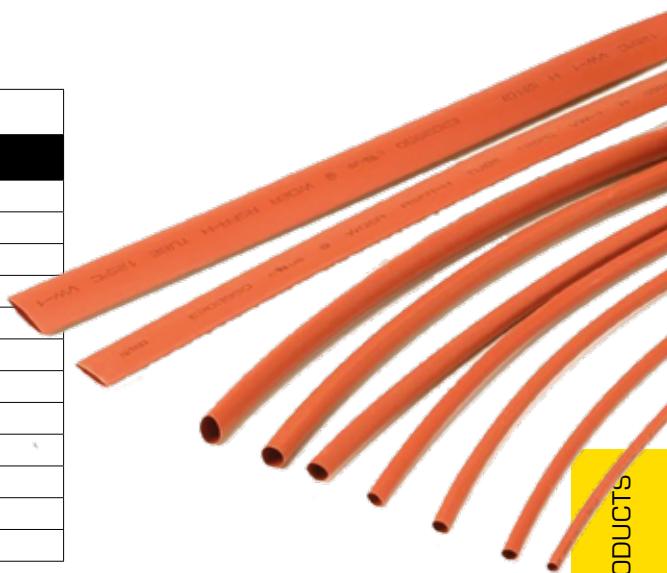
EV PRODUCTS

Heat shrink sleeve - Single wall 2:1

- Shrink ratio: 2:1
- UL and RoHS compliant, halogen free
- Excellent acid fastness and corrosion resistance
- Flammability: VW-1

Pieces 1.22 m				
Part nr.	Inch	Before Ø in mm	After Ø in mm	Pcs/bag
522001BS	$^3/_{64}$	1,1 ± 0,20	0,5	200
522002BS	$^1/_{16}$	1,5 ± 0,20	0,65	200
522003BS	$^3/_{32}$	2,5 ± 0,20	1,0	200
522004BS	$^1/_8$	3,0 ± 0,20	1,3	150
522005BS	$^3/_{16}$	5,0 ± 0,20	2,3	100
522006BS	$^1/_4$	6,5 ± 0,20	3,0	50
522007BS	$^3/_8$	9,5 ± 0,20	4,5	50
522008BS	$^1/_2$	12,5 ± 0,20	6,0	30
522009BS	$^5/_8$	15,5 ± 0,20	7,5	30
522010BS	$^3/_4$	19,0 ± 0,20	9,0	30
522011BS	1	26,0 ± 0,20	12,5	20
522012BS	1½	36,5 ± 0,20	17,50	10
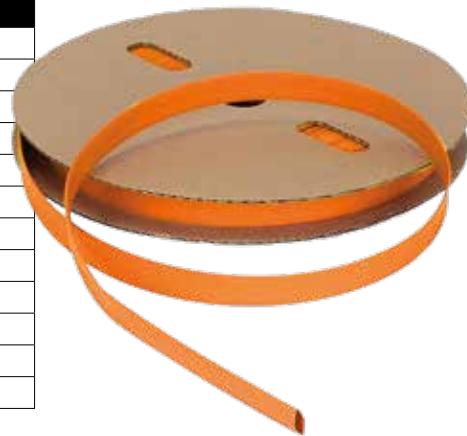
EV PRODUCTS

Heat shrink sleeve - Dual wall 3:1

polyolefin adhesive | operating temperature -55°C~125°C | shrink temp. 110°C | RoHS compliant

- Shrink ratio: 3:1 with adhesive liner
- UL and RoHS compliant, halogen free
- Excellent acid fastness and corrosion resistance
- Flammability: VW-1

Reel				
Part nr.	Inch	Before Ø in mm	After Ø in mm	Mtrs/reel
722001B	¹/₈	3,0	1,0	200
722002B	³/₁₆	4,8	1,6	100
722003B	¹/₄	6,4	2,1	100
722004B	⁵/₁₆	7,9	2,6	100
722005B	³/₈	9,5	3,2	50
722006B	¹/₂	12,7	4,2	25
722007B	⁵/₈	15,4	5,1	25
722008B	³/₄	19,1	6,4	25
722009B	1	25,4	8,4	25
722010B	1¼	30,0	10,0	25
722011B	1½	39,0	13,0	25
722012B	2	50,0	16,0	25

Box				
Part nr.	Inch	Before Ø in mm	After Ø in mm	Mtrs/box
722001BB	¹/₈	3,0	1,0	5,0
722002BB	³/₁₆	4,8	1,6	4,0
722003BB	¹/₄	6,4	2,1	3,5
722004BB	⁵/₁₆	7,9	2,6	3,0
722005BB	³/₈	9,5	3,2	3,0
722006BB	¹/₂	12,7	4,2	2,5
722007BB	⁵/₈	15,4	5,1	2,5
722008BB	³/₄	19,1	6,4	2,0
722009BB	1	25,4	8,4	1,5

Heat shrink sleeve - Dual wall 3:1

polyolefin adhesive | operating temperature -55°C–125°C | shrink temp. 110°C | RoHS compliant

- Shrink ratio: 3:1 with adhesive liner
- UL and RoHS compliant, halogen free
- Excellent acid fastness and corrosion resistance
- Flammability: VW-1

Pieces 1.22 m				
Part nr.	**Inch**	**Before Ø in mm**	**After Ø in mm**	**Pcs/bag**
722001BS	$^1/_8$	3,0	1,0	100
722002BS	$^3/_{16}$	4,8	1,6	60
722003BS	$^1/_4$	6,4	2,1	40
722004BS	$^5/_{16}$	7,9	2,6	30
722005BS	$^3/_8$	9,5	3,2	20
722006BS	$^1/_2$	12,7	4,2	15
722007BS	$^5/_8$	15,4	5,1	15
722008BS	$^3/_4$	19,1	6,4	10
722009BS	1	25,4	8,4	10

EV PRODUCTS

Tools for heat shrink sleeve

MJ-300
Heatgun*
With micro-flame

90-51773
Universal lighter gas (butane)
200 ml

MJ-600
Flameless heatgun*

* Heatguns are supplied
 with **empty** lighter

Also available

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

Cable ties - **100 Pcs/bag**

polyamide 6.6 (PA 6.6)

operating temperature -40°C-85°C

- Flammability: UL 94 Class V-2 (V-0 available)
- Standards: UL E75050, Lloyd's, GL 59425-08HH, MIL-23190D
- Stock: Orange, other colors also available (red, green, purple, grey, blue, yellow, white and brown)
- Complete range, stable quality and low insertion

Part nr.	Color	L mm	W mm	Bundle Ø mm	Min. str. in kgrs	Part nr.	Color	L mm	W mm	Bundle Ø mm	Min. str. in kgrs
KKB8024OR	Orange	80	2,40	15,00	8,0	KKB43048OR	Orange	430	4,80	110,00	22,2
KKB10025OR	Orange	100	2,50	22,00	8,1	KKB53048OR	Orange	530	4,80	140,00	22,2
KKB12025OR	Orange	120	2,50	30,00	8,1	KKB15076OR	Orange	150	7,60	33,00	54,4
KKB14025OR	Orange	140	2,50	33,00	8,1	KKB20076OR	Orange	200	7,60	50,00	54,4
KKB16025OR	Orange	160	2,50	40,00	8,1	KKB25076OR	Orange	250	7,60	65,00	54,4
KKB20025OR	Orange	200	2,50	53,00	8,1	KKB29276OR	Orange	300	7,60	76,00	54,4
KKB14036OR	Orange	140	3,60	33,00	18,2	KKB36876OR	Orange	368	7,60	102,00	54,4
KKB15036OR	Orange	150	3,60	35,00	18,2	KKB45076OR	Orange	450	7,60	132,00	54,4
KKB20036OR	Orange	200	3,60	53,00	18,2	KKB54076OR	Orange	540	7,60	140,00	54,4
KKB29236OR	Orange	300	3,60	76,00	18,2	KKB61576OR	Orange	615	7,60	176,00	54,4
KKB37036OR	Orange	370	3,60	102,00	18,2	KKB75076OR	Orange	750	7,60	218,00	54,4
KKB12048OR	Orange	120	4,80	24,00	22,2	KKB43090OR	Orange	430	9,00	110,00	79,4
KKB16048OR	Orange	160	4,80	38,00	22,2	KKB53090OR	Orange	530	9,00	140,00	79,4
KKB18848OR	Orange	188	4,80	46,00	22,2	KKB63090OR	Orange	630	9,00	187,00	79,4
KKB20048OR	Orange	200	4,80	50,00	22,2	KKB71090OR	Orange	710	9,00	190,00	79,4
KKB25048OR	Orange	250	4,80	60,00	22,2	KKB77590OR	Orange	775	9,00	228,00	79,4
KKB28048OR	Orange	280	4,80	70,00	22,2	KKB83090OR	Orange	830	9,00	239,00	79,4
KKB30048OR	Orange	300	4,80	76,00	22,2	KKB92090OR	Orange	920	9,00	263,00	79,4
KKB36848OR	Orange	370	4,80	102,00	22,2	KKB102090OR	Orange	1.020	9,00	295,00	79,4
KKB39048OR	Orange	390	4,80	105,00	22,2	KKB122090OR	Orange	1.220	9,00	365,00	79,4

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 op 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

| Part nr.	Color	L mm	W mm	Bundle Ø mm	Min. str. in kgrs
KKB153090OR	Orange	1.530	9,00	460,00	79,4
KKB230130OR	Orange	230	12,60	50,00	114,0
KKB480130OR	Orange	480	12,60	120,00	114,0
KKB580130OR	Orange	580	12,60	152,00	114,0
KKB730130OR	Orange	730	12,60	204,00	114,0
KKB880130OR	Orange	880	12,60	248,00	114,0
KKB1030130OR	Orange	1.030	12,60	295,00	114,0

1503043
Blue metal display for 5 sizes
of cable ties (not included)
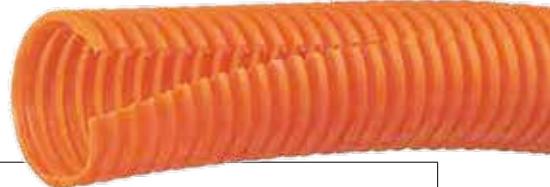
147

Corrugated tube

- Flexible and flame-retardant polypropylene tube
- Suitable for insulation use in automotive electronics, with excellent electrical and physical properties, including excellent acid fastness and corrosion resistance
- Enormous cold impact strength
- Bending stable
- Excellent chemical resistance

Closed				
Part nr.	Nominal size	Inner Ø mm	Outer Ø mm	Mtrs/reel
CCTE04.5-500	4.5	4,5 ± 0,3	6,5 ± 0,3	500
CCTE05-500	5,0	5,0 ± 0,3	8,0 ± 0,3	500
CCTE06-500	6.5	6,0 ± 0,3	9,0 ± 0,3	500
CCTE06-100	6.5	6,0 ± 0,3	9,0 ± 0,3	100
CCTE07-500	7,0	7,0 ± 0,3	10,0 ± 0,3	500
CCTE08-500	8,0	8,0 ± 0,3	12,0 ± 0,3	500
CCTE09-500	9,0	9,0 ± 0,3	13,0 ± 0,3	500
CCTE09-100	9,0	9,0 ± 0,3	13,0 ± 0,3	100
CCTE10-400	10,0	10,0 ± 0,3	14,0 ± 0,3	400
CCTE11-400	11,0	11,0 ± 0,3	15,0 ± 0,3	400
CCTE11-100	11,0	11,0 ± 0,3	15,0 ± 0,3	100
CCTE12-200	12,0	12,0 ± 0,3	16,0 ± 0,3	200
CCTE13-200	13,0	13,0 ± 0,3	17,0 ± 0,3	200
CCTE13-100	13,0	13,0 ± 0,3	17,0 ± 0,3	100
CCTE14-200	14,0	14,0 ± 0,3	18,0 ± 0,3	200
CCTE15-200	15,0	15,0 ± 0,3	19,0 ± 0,3	200
CCTE16-200	16,0	16,0 ± 0,3	20,0 ± 0,3	200
CCTE16-050	16,0	16,0 ± 0,3	20,0 ± 0,3	50
CCTE17-200	17,0	17,0 ± 0,3	21,0 ± 0,3	200
CCTE18-200	18,0	18,0 ± 0,3	22,0 ± 0,3	200
CCTE19-200	19,0	19,0 ± 0,3	23,0 ± 0,3	200
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
CCTE21-100	21,0	21,0 ± 0,3	25,0 ± 0,3	100
CCTE22-100	22,0	22,0 ± 0,3	27,0 ± 0,3	100
CCTE23-100	23,0	23,0 ± 0,3	30,0 ± 0,3	100
CCTE25-100	25,0	25,0 ± 0,3	30,0 ± 0,3	100
CCTE25-025	25,0	25,0 ± 0,3	30,0 ± 0,3	25
CCTE26-100	26,0	26,0 ± 0,3	34,0 ± 0,3	100
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
CCTE30-050	30,0	30,0 ± 0,3	36,0 ± 0,3	50
CCTE30-025	30,0	30,0 ± 0,3	36,0 ± 0,3	25
CCTE32-050	32,0	32,0 ± 0,3	38,0 ± 0,3	50
CCTE32-025	32,0	32,0 ± 0,3	38,0 ± 0,3	25
CCTE35-050	35,0	35,0 ± 0,3	40,0 ± 0,3	50
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	6 ± 0,3	9 ± 0,3	100
PCTE09 - 100	9	9 ± 0,3	13 ± 0,3	100
PCTE11 - 100	11	11 ± 0,3	15 ± 0,3	100
PCTE13 - 100	13	13 ± 0,3	17 ± 0,3	100
PCTE16 - 050	16	16 ± 0,3	20 ± 0,3	50
PCTE19 - 050	19	19 ± 0,3	23 ± 0,3	50
PCTE22 - 025	20	22 ± 0,3	27 ± 0,3	25
PCTE25 - 025	25	25 ± 0,3	30 ± 0,3	25
PCTE28 - 025	28	28 ± 0,3	34 ± 0,3	25
PCTE30 - 025	30	30 ± 0,3	36 ± 0,3	25
PCTE32 - 025	32	32 ± 0,3	38 ± 0,3	25
PCTE35 - 025	35	35 ± 0,3	40 ± 0,3	25
PCTE40 - 025	40	40 ± 0,3	45 ± 0,3	25

Expandable braided sleeve
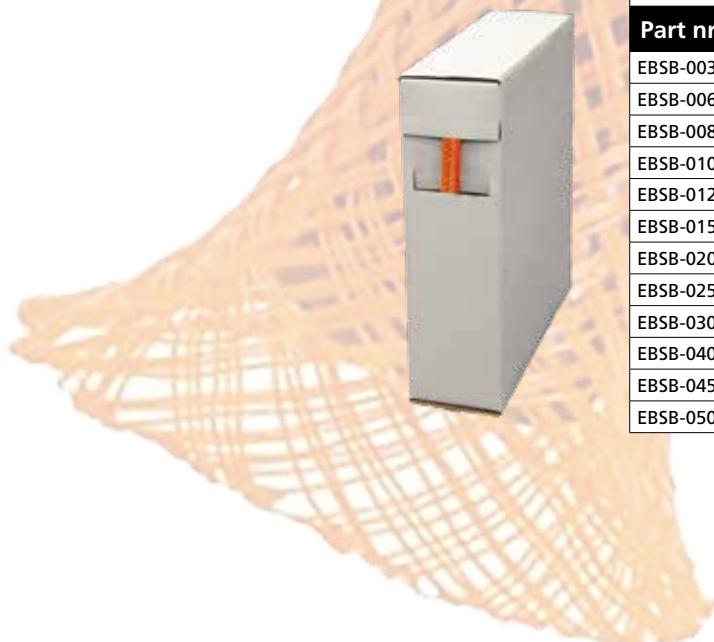
- Polyester protection sleeve for application in wire harnesses, where tough and durable protection is required
- UV resistant and anti-abrasion
- Flammability: VW-1
- Certificate: Halogen free

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

EV PRODUCTS

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

Battery cable

- **Conductor:**   Annealed copper strands (Class 6)
- **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.	Wire size	Max conductor resistance (Ohm/km)	Outer Ø cable (mm)	Weight cable (kg/km)	Color insulation	Mtrs/ reel
PE7000E050RL	70 mm²	0,272	15,30	737	orange	50
PE9500E050RL	95 mm²	0,206	17,40	965	orange	50

Spool

Part nr.	Wire size	Max conductor resistance (Ohm/km)	Outer Ø cable (mm)	Weight cable (kg/km)	Color insulation	Mtrs/ spool
PE1000E050SP	10 mm²		7,90	134	orange	50
PE1600E050SP	16 mm²	1,210	9,20	191	orange	50
PE2500E050SP	25 mm²	0,780	10,40	274	orange	50
PE3500E050SP	35 mm²	0,544	11,30	376	orange	50
PE5000E050SP	50 mm²	0,386	13,10	531	orange	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 ± 0.2 Nm
• Breaking capacity: 2.000 A at 450 Vdc

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 ± 1 Nm
• Breaking capacity: 20.000 A at 500 Vdc (450Vdc)

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	450	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 ± 1.0 Nm
• Breaking capacity: 20.000 A at 500 Vdc

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 EV29-M8

RoHS compliant REACH compliant

- 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 ± 1 Nm
- Breaking capacity: 16.000 A at 500 Vdc

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

RoHS compliant REACH compliant

- 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 ± 1Nm
- Breaking capacity: 30.000 A at 500 Vdc

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

RoHS compliant REACH compliant

- 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 ± 1Nm
- Breaking capacity: 30.000 A at 500 Vdc

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

Plugs &

Lighting

Vehicle Markers

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

UL   CSA   *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

- Easy entry copper sleeve tin plated

Explanation part nr.

1

Type qualification	
R	AE internal code
B	Standard
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 mm²
2	1,5 - 2,5 mm²
5.5	4 - 6 mm²

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*
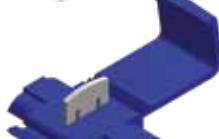
Male disconnect*

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.
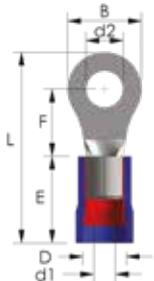
PVC ring terminals - Standard

vinyl (PVC) · electro tin plated · copper · operating temperature -10°C~75°C · 600V max · red: 19A blue: 27A yell.: 48A max · RoHS compliant
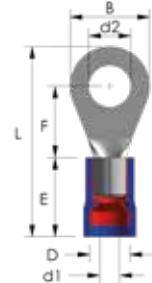
Wire range	Part nr.	d2	B	F	L	E	D	d1	Packed	UL
22~16 AWG 0,5~1,5 mm²	RBFV 1.25-3	3,2	5,5	5,0	17,5	10,0	4,3	1,7	10 x 100	
	RBFV 1.25-M3	3,7	6,6	6,3	19,4	10,0	4,3	1,7	10 x 100	
	RBFV 1.25-3.5L	3,7	8,0	7,0	20,8	10,0	4,3	1,7	10 x 100	
	RBFV 1.25-4	4,3	6,6	6,3	19,4	10,0	4,3	1,7	10 x 100	
	RBFV 1.25-4L	4,3	8,0	7,0	20,8	10,0	4,1	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	11,8	11,0	26,7	10,0	4,3	1,7	10 x 100	
	RBFV 1.25-8	8,4	11,8	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	
16~14 AWG 1,5~2,5 mm²	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	9,6	7,3	22,0	10,0	4,8	2,3	10 x 100	✔
	RBFV 2-6	6,4	11,8	11,0	26,9	10,0	4,8	2,3	10 x 100	✔
	RBFV 2-8	8,4	11,8	11,0	26,9	10,0	4,8	2,3	10 x 100	✔
	RBFV 2-10	10,5	13,6	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 4~6 mm²	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	8,9	26,5	13,0	6,7	3,4	10 x 100	✔
	RBFV 5.5-5	5,3	9,5	8,9	26,5	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	✔

PVC ring terminals - Straight copper sleeve

vinyl (PVC) · electro tin plated · copper · operating temperature -10°C~75°C · 600V max · red: 19A blue: 27A yell.: 48A max · RoHS compliant
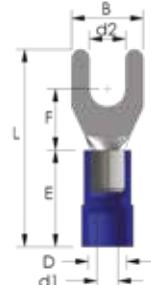
Wire range	Part nr.	d2	B	F	L	E	D	d1	Packed	UL
22~16 AWG **0,5~1,5 mm²**	RBFVD 1.25-3	3,2	5,5	5,0	17,5	10,0	4,3	1,7	10 x 100	
	RBFVD 1.25-M3	3,7	6,6	6,3	19,4	10,0	4,3	1,7	10 x 100	
	RBFVD 1.25-4	4,3	6,6	6,3	19,4	10,0	4,3	1,7	10 x 100	
	RBFVD 1.25-5	5,3	8,0	7,0	20,8	10,0	4,3	1,7	10 x 100	
	RBFVD 1.25-6	6,4	11,6	11,0	26,7	10,0	4,3	1,7	10 x 100	
	RBFVD 1.25-8	8,4	11,6	11,0	26,7	10,0	4,3	1,7	10 x 100	
	RBFVD 1.25-10	10,5	13,6	13,9	30,5	10,0	4,3	1,7	10 x 100	
16~14 AWG **1,5~2,5 mm²**	RBFVD 2-S3.3	3,2	6,6	4,7	17,8	10,0	5,0	2,3	10 x 100	
	RBFVD 2-S3	3,7	6,6	6,3	19,5	10,0	5,0	2,3	10 x 100	
	RBFVD 2-4	4,3	8,5	7,8	21,8	10,0	5,0	2,3	10 x 100	
	RBFVD 2-5	5,3	9,5	7,3	22,0	10,0	5,0	2,3	10 x 100	
	RBFVD 2-6	6,4	12,0	11,0	23,9	10,0	5,0	2,3	10 x 100	
	RBFVD 2-8	8,4	12,0	11,0	26,9	10,0	5,0	2,3	10 x 100	
	RBFVD 2-10	10,5	13,6	13,6	30,5	10,0	5,0	2,3	10 x 100	
12~10 AWG **4~6 mm²**	RBFVD 5.5-3	3,7	7,2	6,1	22,7	13,0	6,8	3,4	10 x 100	
	RBFVD 5.5-4	4,3	9,5	8,9	26,5	13,0	6,8	3,4	10 x 100	
	RBFVD 5.5-5	5,3	9,5	8,9	26,5	13,0	6,8	3,4	10 x 100	
	RBFVD 5.5-6	6,4	12,0	10,5	29,5	13,0	6,8	3,4	10 x 100	
	RBFVD 5.5-8	8,4	15,0	13,5	34,0	13,0	6,8	3,4	10 x 100	
	RBFVD 5.5-10	10,5	15,0	13,5	34,0	13,0	6,8	3,4	10 x 100	
	RBFVD 5.5-12	13,0	19,2	16,0	38,6	13,0	6,8	3,4	10 x 100	

INSULATED TERMINALS

PVC ring terminals - Easy Entry copper sleeve

vinyl (PVC) · electro tin plated · copper · operating temperature -10°C~75°C · 600V max · red: 19A blue: 27A yell.: 48A max · RoHS compliant

Wire range	Part nr.	d2	B	F	L	E	D	d1	Packed	UL
22~16 AWG 0,5~1,5 mm²	REFVD 1.25-3DIN	3,2	6,0	6,0	19,0	10,0	4,3	1,7	10 x 100	
	REFVD 1.25-M3DIN	3,7	6,0	6,0	19,0	10,0	4,3	1,7	10 x 100	
	REFVD 1.25-4DIN	4,3	8,0	7,0	21,0	10,0	4,3	1,7	10 x 100	
	REFVD 1.25-5DIN	5,3	10,0	8,0	23,0	10,0	4,3	1,7	10 x 100	
	REFVD 1.25-6DIN	6,5	11,0	10,0	25,5	10,0	4,3	1,7	10 x 100	
	REFVD 1.25-8DIN	8,4	14,0	12,0	29,0	10,0	4,3	1,7	10 x 100	
	REFVD 1.25-10DIN	10,5	18,0	14,0	33,0	10,0	4,3	1,7	10 x 100	
16~14 AWG 1,5~2,5 mm²	REFVD 2-S3.3DIN	3,2	6,0	6,0	19,0	10,0	5,0	2,3	10 x 100	
	REFVD 2-S3DIN	3,7	6,0	6,0	19,0	10,0	5,0	2,3	10 x 100	
	REFVD 2-4DIN	4,3	8,0	7,0	21,0	10,0	5,0	2,3	10 x 100	
	REFVD 2-5DIN	5,3	10,0	9,0	24,0	10,0	5,0	2,3	10 x 100	
	REFVD 2-6DIN	6,5	11,0	11,0	26,5	10,0	5,0	2,3	10 x 100	
	REFVD 2-8DIN	8,4	14,0	12,0	29,0	10,0	5,0	2,3	10 x 100	
	REFVD 2-10DIN	10,5	18,0	13,5	32,5	10,0	5,0	2,3	10 x 100	
	REFVD 2-12DIN	13,0	18,0	15,0	34,0	10,0	5,0	2,3	10 x 100	
12~10 AWG 4~6 mm²	REFVD 5.5-4DIN	4,3	8,0	8,0	25,0	13,0	6,7	3,4	10 x 100	
	REFVD 5.5-5DIN	5,3	10,0	9,0	27,0	13,0	6,7	3,4	10 x 100	
	REFVD 5.5-6DIN	6,5	11,0	9,5	28,0	13,0	6,7	3,4	10 x 100	
	REFVD 5.5-8DIN	8,4	14,0	13,0	33,0	13,0	6,7	3,4	10 x 100	
	REFVD 5.5-10DIN	10,5	18,0	15,0	37,0	13,0	6,7	3,4	10 x 100	
	REFVD 5.5-12DIN	13,0	18,0	15,0	37,0	13,0	6,7	3,4	10 x 100	

INSULATED TERMINALS
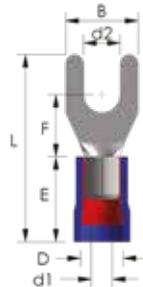
PVC spade terminals - Standard

Wire range	Part nr.	d2	B	F	L	E	D	d1	Packed	UL
22~16 AWG 0,5~1,5 mm²	RBFV 1.25-B3A	3,3	5,7	6,3	21,0	10,0	4,3	1,7	10 x 100	
	RBFV 1.25-YS3A	3,8	6,4	6,3	21,0	10,0	4,3	1,7	10 x 100	
	RBFV 1.25-YS4A	4,4	6,4	6,3	21,0	10,0	4,3	1,7	10 x 100	
	RBFV 1.25-S4A	4,4	7,2	6,3	21,0	10,0	4,3	1,7	10 x 100	
	RBFV 1.25-5A	5,4	8,1	6,3	21,0	10,0	4,3	1,7	10 x 100	
	RBFV 1.25-6A	6,5	9,5	6,0	21,0	10,0	4,3	1,7	10 x 100	
16~14 AWG 1,5~2,5 mm²	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	6,4	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	4,4	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 4~6 mm²	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	11,5	30,5	13,0	6,7	3,4	10 x 100	✓
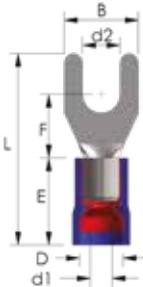
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PVC spade terminals - Straight copper sleeve

vinyl (PVC) · electro tin plated · copper · operating temperature -10°C~75°C · 600V max · red: 19A blue: 27A yell.: 48A max · RoHS compliant
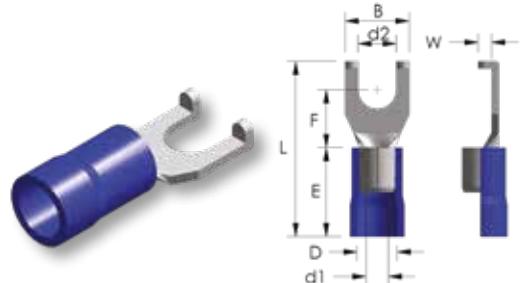
Wire range	Part nr.	d2	B	F	L	E	D	d1	Packed	UL
22~16 AWG 0,5~1,5 mm²	RBFVD 1.25-B3A	3,3	5,7	6,3	21,0	10,0	4,3	1,7	10 x 100	
	RBFVD 1.25-YS3A	3,8	6,4	6,3	21,0	10,0	4,3	1,7	10 x 100	
	RBFVD 1.25-YS4A	4,4	6,4	6,3	21,0	10,0	4,3	1,7	10 x 100	
	RBFVD 1.25-S4A	4,4	7,2	6,3	21,0	10,0	4,3	1,7	10 x 100	
	RBFVD 1.25-5A	5,4	8,1	6,3	21,0	10,0	4,3	1,7	10 x 100	
	RBFVD 1.25-6A	6,5	9,5	6,0	21,0	10,0	4,3	1,7	10 x 100	
16~14 AWG 1,5~2,5 mm²	RBFVD 2-YS3A	3,8	6,4	6,5	21,0	10,0	5,0	2,3	10 x 100	
	RBFVD 2-YS4A	4,4	6,4	6,5	21,0	10,0	5,0	2,3	10 x 100	
	RBFVD 2-S4A	4,4	7,2	6,5	21,0	10,0	5,0	2,3	10 x 100	
	RBFVD 2-5A	5,4	8,1	6,5	21,0	10,0	5,0	2,3	10 x 100	
	RBFVD 2-6A	6,5	12,0	11,0	27,0	10,0	5,0	2,3	10 x 100	
12~10 AWG 4~6 mm²	RBFVD 5.5-3A	3,8	8,3	7,0	25,5	13,0	6,8	3,4	10 x 100	
	RBFVD 5.5-S4A	4,4	8,3	7,0	25,5	13,0	6,8	3,4	10 x 100	
	RBFVD 5.5-5A	5,4	9,0	7,0	25,5	13,0	6,8	3,4	10 x 100	
	RBFVD 5.5-6A	6,5	12,0	12,0	31,5	13,0	6,8	3,4	10 x 100	
	RBFVD 5.5-8A	8,5	14,0	11,5	30,5	13,0	6,8	3,4	10 x 100	

PVC spade terminals - Easy Entry copper sleeve

vinyl (PVC) · electro tin plated · copper · operating temperature -10°C~75°C · 600V max · red: 19A blue: 27A yell.: 48A max · RoHS compliant
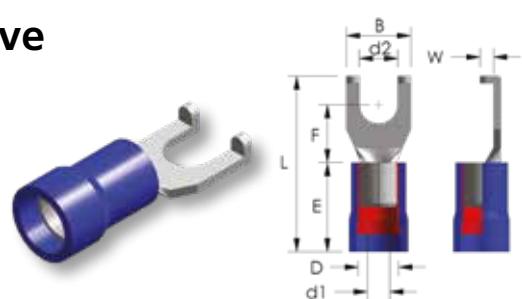
Wire range	Part nr.	d2	B	F	L	E	D	d1	Packed	UL
22~16 AWG 0,5~1,5 mm²	REFVD 1.25-B3A	3,3	5,7	6,3	21,0	10,0	4,3	1,7	10 x 100	
	REFVD 1.25-YS3A	3,8	6,4	6,3	21,0	10,0	4,3	1,7	10 x 100	
	REFVD 1.25-YS4A	4,4	6,4	6,3	21,0	10,0	4,3	1,7	10 x 100	
	REFVD 1.25-S4A	4,4	7,2	6,3	21,0	10,0	4,3	1,7	10 x 100	
	REFVD 1.25-5A	5,4	8,1	6,3	21,0	10,0	4,3	1,7	10 x 100	
	REFVD 1.25-6A	6,5	9,5	6,0	21,0	10,0	4,3	1,7	10 x 100	
16~14 AWG 1,5~2,5 mm²	REFVD 2-YS3A	3,8	6,0	6,5	21,0	10,0	5,0	2,3	10 x 100	
	REFVD 2-YS4A	4,4	6,0	6,5	21,0	10,0	5,0	2,3	10 x 100	
	REFVD 2-5A	5,4	8,1	6,5	21,0	10,0	5,0	2,3	10 x 100	
	REFVD 2-6A	6,5	12,0	11,0	27,0	10,0	5,0	2,3	10 x 100	
12~10 AWG 4~6 mm²	REFVD 5.5-S4A	4,4	8,3	7,0	25,5	13,0	6,8	3,4	10 x 100	
	REFVD 5.5-5A	5,4	9,0	7,0	25,5	13,0	6,8	3,4	10 x 100	
	REFVD 5.5-6A	6,5	12,0	12,0	31,5	13,0	6,8	3,4	10 x 100	
	REFVD 5.5-8A	8,5	14,0	22,5	30,5	13,0	6,8	3,4	10 x 100	

PVC flange terminals - Standard

vinyl (PVC) · electro tin plated · copper · operating temperature -10°C~75°C · 600V max · red: 19A blue: 27A yell.: 48A max · RoHS compliant

Wire range	Part nr.	d2	B	F	L	E	D	d1	W	Packed	UL
16~14 AWG	BFV 2-4B	4,3	7,2	6,5	19,7	10,0	4,5	2,3	1,5	10 x 100	✓
1,5~2,5 mm²	BFV 2-5B	5,3	8,5	7,3	20,5	10,0	4,5	2,3	1,5	10 x 100	✓
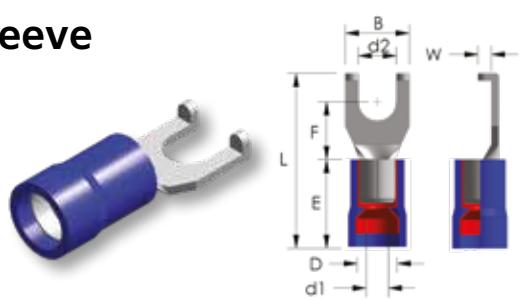
PVC flange terminals - Straight copper sleeve

vinyl (PVC) · electro tin plated · copper · operating temperature -10°C~75°C · 600V max · red: 19A blue: 27A yell.: 48A max · RoHS compliant

Wire range	Part nr.	d2	B	F	L	E	D	d1	W	Packed	UL
16~14 AWG	BFVD 2-4B	4,3	7,2	6,5	21,2	10,0	5,1	2,3	1,5	10 x 100	
1,5~2,5 mm²	BFVD 2-5B	5,3	8,5	7,3	22,0	10,0	5,1	2,3	1,5	10 x 100	

INSULATED TERMINALS

PVC flange terminals - Easy Entry copper sleeve

vinyl (PVC) · electro tin plated · copper · operating temperature -10°C~75°C · 600V max · red: 19A blue: 27A yell.: 48A max · RoHS compliant
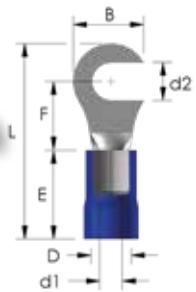
Wire range	Part nr.	d2	B	F	L	E	D	d1	W	Packed	UL
16~14 AWG	EFVD 2-4B	4,3	7,2	6,5	19,7	10,0	5,0	2,3	1,5	10 x 100	
1,5~2,5 mm²	EFVD 2-5B	5,3	8,5	7,3	20,5	10,0	5,0	2,3	1,5	10 x 100	

PVC hook terminals - 0° Standard
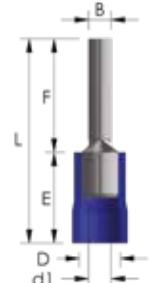
Wire range	Part nr.	d2	B	F	L	E	D	d1	Packed	UL
22~16 AWG 0,5~1,5 mm²	BFV 1.25-4X	4,3	8,0	7,0	20,5	10,0	4,1	1,7	10 x 100	✓
	BFV 1.25-5X	5,3	8,0	7,0	20,0	10,0	4,1	1,7	10 x 100	✓
	BFV 1.25-6X	6,5	11,6	11,1	25,8	10,0	4,1	1,7	10 x 100	✓
16~14 AWG 1,5~2,5 mm²	BFV 2-4X	4,3	8,5	7,8	21,5	10,0	4,5	2,3	10 x 100	✓
	BFV 2-5X	5,3	9,5	7,3	21,2	10,0	4,5	2,3	10 x 100	✓
	BFV 2-6X	6,5	12,0	11,0	26,0	10,0	4,5	2,3	10 x 100	✓
12~10 AWG 4~6 mm²	BFV 5.5-4X	4,3	9,5	8,3	25,0	12,5	6,5	3,4	10 x 100	✓
	BFV 5.5-5X	5,3	9,5	8,3	24,7	12,5	6,5	3,4	10 x 100	✓
	BFV 5.5-6X	6,5	12,0	10,5	28,0	12,5	6,5	3,4	10 x 100	✓
	BFV 5.5-8X	8,4	15,0	13,7	32,4	12,5	6,5	3,4	10 x 100	✓

PVC hook terminals - 90° Standard
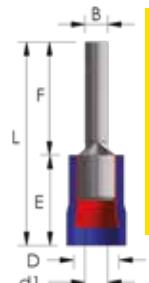
Wire range	Part nr.	d2	B	F	L	E	D	d1	Packed	UL
22~16 AWG 0,5~1,5 mm²	BFV 1.25-4Y	4,3	7,4	7,0	21,0	10,0	4,1	1,7	10 x 100	✓
16~14 AWG 1,5~2,5 mm²	BFV 2-4Y	4,3	7,9	7,8	22,0	10,0	4,5	2,3	10 x 100	✓
12~10 AWG 4~6 mm²	BFV 5.5-4Y	4,3	9,0	8,3	25,5	12,5	6,5	3,4	10 x 100	✓
	BFV 5.5-5Y	5,3	8,7	8,3	25,5	12,5	6,5	3,4	10 x 100	✓
	BFV 5.5-6Y	6,5	11,0	10,5	29,0	12,5	6,5	3,4	10 x 100	✓

PVC pin terminals - Standard

Wire range	Part nr.	B	F	L	E	D	d1	Packed	UL
22~16 AWG 0,5~1,5 mm²	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 mm²	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 4~6 mm²	RBFVPC 5.5	2,8	14,0	27,0	13,0	6,7	3,4	10 x 100	✓
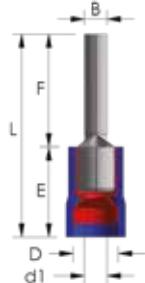
PVC pin terminals - Straight copper sleeve

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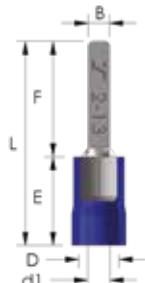
| Wire range	Part nr.	B	F	L	E	D	d1	Packed	UL
22~16 AWG 0,5~1,5 mm²	RBFVDPC 1.25-F9	1,9	9,0	18,8	10,0	4,3	1,7	10 x 100	
	RBFVDPC 1.25-F10	1,9	10,0	19,8	10,0	4,3	1,7	10 x 100	
	RBFVDPC 1.25	1,9	12,0	21,8	10,0	4,3	1,7	10 x 100	
16~14 AWG 1,5~2,5 mm²	RBFVDPC 2-F9	1,9	9,0	18,8	10,0	4,8	2,3	10 x 100	
	RBFVDPC 2-F10	1,9	10,0	19,8	10,0	4,8	2,3	10 x 100	
	RBFVDPC 2	1,9	12,0	21,8	10,0	4,8	2,3	10 x 100	
	RBFVDPC 2-F13	1,9	13,0	22,8	10,0	4,8	2,3	10 x 100	
12~10 AWG 4~6 mm²	RBFVDPC 5.5	2,8	14,0	26,0	13,0	6,7	3,4	10 x 100	

PVC pin terminals - Easy Entry copper sleeve

vinyl (PVC) · electro tin plated · copper · operating temperature -10°C~75°C · 600V max · red: 19A blue: 27A yell.: 48A max · RoHS compliant
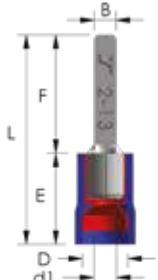
Wire range	Part nr.	B	F	L	E	D	d1	Packed	UL
22~16 AWG **0,5~1,5 mm²**	REFVDPC 1.25-F9	1,9	9,0	18,8	10,0	4,3	1,7	10 x 100	
	REFVDPC 1.25-F10	1,9	10,0	19,8	10,0	4,3	1,7	10 x 100	
	REFVDPC 1.25	1,9	12,0	21,8	10,0	4,3	1,7	10 x 100	
16~14 AWG **1,5~2,5 mm²**	REFVDPC 2-F9	1,9	9,0	18,8	10,0	5,0	2,3	10 x 100	
	REFVDPC 2-F10	1,9	10,0	19,8	10,0	5,0	2,3	10 x 100	
	REFVDPC 2	1,9	12,0	21,8	10,0	5,0	2,3	10 x 100	
	REFVDPC 2-F13	1,9	13,0	22,8	10,0	5,0	2,3	10 x 100	
12~10 AWG **4~6 mm²**	REFVDPC 5.5	2,8	14,0	26,0	13,0	6,7	3,4	10 x 100	

PVC blade terminals - Standard

vinyl (PVC) · electro tin plated · copper · operating temperature -10°C~75°C · 600V max · red: 19A blue: 27A yell.: 48A max · RoHS compliant

Wire range	Part nr.	B	F	L	E	D	d1	Packed	UL
22~16 AWG **0,5~1,5 mm²**	RBFVPC 1.25-PF10	2,3	10,0	19,8	10,0	4,0	1,7	10 x 100	
	RBFVPC 1.25-PF11	3,0	11,0	20,8	10,0	4,0	1,7	10 x 100	
	RBFVPC 1.25-PF14	2,4	14,0	23,8	10,0	4,0	1,7	10 x 100	
	RBFVPC 1.25-P	2,2	18,0	27,8	10,0	4,0	1,7	10 x 100	
16~14 AWG **1,5~2,5 mm²**	RBFVPC 2-PF9	2,8	9,0	18,8	10,0	4,8	2,3	10 x 100	✔
	RBFVPC 2-PF10	2,3	10,0	19,8	10,0	4,8	2,3	10 x 100	✔
	RBFVPC 2-PF13	2,4	13,0	22,8	10,0	4,8	2,3	10 x 100	✔
	RBFVPC 2-P	2,2	18,0	27,8	10,0	4,8	2,3	10 x 100	✔
12~10 AWG **4~6 mm²**	RBFVPC 5.5-PF10	2,8	10,0	23,0	13,0	6,7	3,4	10 x 100	✔
	RBFVPC 5.5-P	4,5	18,0	31,0	13,0	6,7	3,4	10 x 100	✔

PVC blade terminals - Easy Entry copper sleeve

vinyl (PVC) • electro tin plated • copper • operating temperature -10°C~75°C • 600V max • red: 19A blue: 27A yell.: 48A max • RoHS compliant

Wire range	Part nr.	B	F	L	E	D	d1	Packed	UL
22~16 AWG 0,5~1,5 mm²	REFVDPC 1.25-PF10	2,3	10,0	19,8	10,0	4,2	1,7	10 x 100	
	REFVDPC 1.25-PF11	3,0	11,0	20,8	10,0	4,2	1,7	10 x 100	
	REFVDPC 1.25-PF14	2,4	14,0	23,8	10,0	4,2	1,7	10 x 100	
	REFVDPC 1.25-P	2,2	18,0	27,8	10,0	4,2	1,7	10 x 100	
16~14 AWG 1,5~2,5 mm²	REFVDPC 2-PF9	2,8	9,0	18,8	10,0	5,0	2,3	10 x 100	
	REFVDPC 2-PF10	2,3	10,0	19,8	10,0	5,0	2,3	10 x 100	
	REFVDPC 2-PF13	2,4	14,0	23,8	10,0	5,0	2,3	10 x 100	
	REFVDPC 2-P	2,2	18,0	27,8	10,0	5,0	2,3	10 x 100	
12~10 AWG 4~6 mm²	REFVDPC 5.5-PF10	2,8	10,0	23,0	13,0	6,8	3,4	10 x 100	
	REFVDPC 5.5-P	4,5	18,0	31,0	13,0	6,8	3,4	10 x 100	

PVC butt connectors - Standard

vinyl (PVC) • electro tin plated • copper • operating temperature -10°C~75°C • 600V max • red: 19A blue: 27A yellow: 48A red: 70A max • RoHS compliant

INSULATED TERMINALS
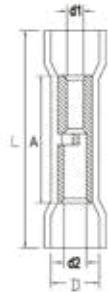
Wire range	Part nr.	L	D	d	Packed	UL
22~16 AWG 0,5~1,5 mm²	RBFVC 1.25	26,0	4,3	1,9	10 x 100	
16~14 AWG 1,5~2,5 mm²	RBFVC 2	26,0	4,8	2,5	10 x 100	
12~10 AWG 4~6 mm²	RBFVC 5.5	27,0	6,3	3,6	10 x 100	
8 AWG 8 mm²	RBFVC 8	35,5	8,5	4,5	10 x 100	

PVC butt connectors - Easy Entry copper sleeve

vinyl (PVC) · electro tin plated · copper · operating temperature -10°C~75°C · 600V max · red: 19A blue: 27A yell.: 48A max · RoHS compliant
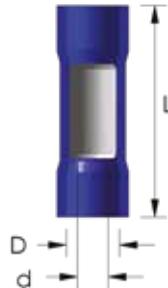
Wire range	Part nr.	L	D	d	Packed	UL
22~16 AWG 0,5~1,5 mm²	REFVDC 1.25	24,5	4,5	1,7	10 x 100	
16~14 AWG 1,5~2,5 mm²	REFVDC 2	24,5	5,0	2,3	10 x 100	
12~10 AWG 4~6 mm²	REFVDC 5.5	29,5	6,6	3,4	10 x 100	

PVC butt connectors - Step down

vinyl (PVC) · electro tin plated · copper · operating temperature -10°C~75°C · 600V max · blue: 19A yellow: 27A red: 48A blue: 70A max · RoHS compliant

Wire range	Part nr.	d1	d2	D	L	Packed	UL
16~14 to 22~18 AWG 1,5~2,5 to 0,5~1,0 mm²	BFVC 2-1.25	1,7	2,3	4,5	26,0	10 x 100	
12~10 to16~14 AWG 4~6 to 1,5~2,5 mm²	BFVC 5.5-2	2,3	3,4	6,5	31,0	10 x 100	
8 to 12~10 AWG 8 to 4~6 mm²	BFVC 8-5.5	3,4	4,5	8,5	35,7	10 x 100	
6 to 8 AWG 14 to 8 mm²	BFVC 14-8	4,5	5,9	10,5	45,0	10 x 100	

PVC parallel connectors - Standard

Wire range	Part nr.	L	D	d	Packed	UL
22~16 AWG 0,5~1,5 mm²	BFVP 1.25	18,0	4,1	1,6	10 x 100	
16~14 AWG 1,5~2,5 mm²	BFVP 2	18,0	4,5	2,3	10 x 100	
12~10 AWG 4~6 mm²	BFVP 5.5	21,0	6,5	3,6	10 x 100	
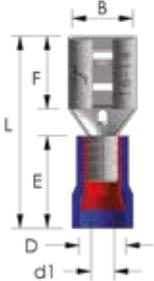
PVC female disconnectors - Standard

INSULATED TERMINALS
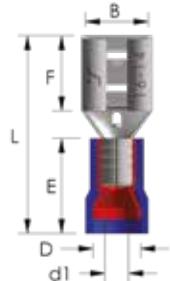
Wire range	Part nr.	tab	B	F	L	E	D	d1	Packed	UL
22~16 AWG 0,5~1,5 mm²	RBFVDF 1.25-110A5	2,8x0,5	3,2	6,5	18,8	10,0	3,5	1,7	10 x 100	
	RBFVDF 1.25-110A8	2,8x0,8	3,2	6,5	18,8	10,0	3,5	1,7	10 x 100	
	RBFVDF 1.25-187A5	4,8x0,5	5,0	6,4	19,2	10,0	3,5	1,7	10 x 100	
	RBFVDF 1.25-187A8	4,8x0,8	5,0	6,4	19,2	10,0	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 mm²	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	8,2	10,2	23,0	10,0	4,1	2,3	10 x 100	
12~10 AWG 4~6 mm²	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	10,0	12,0	28,6	13,0	5,6	3,4	10 x 100	

PVC female disconnectors - Straight copper sleeve

vinyl (PVC) · electro tin plated · brass · operating temperature -10°C~75°C · 300V max · red: 10A blue: 15A yell.: 24A max · RoHS compliant
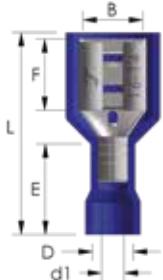
Wire range	Part nr.	tab	B	F	L	E	D	d1	Packed	UL
22~16 AWG 0,5~1,5 mm²	RBFVDDF 1.25-110A5	2,8x0,5	3,1	6,5	18,8	10,0	3,9	1,7	10 x 100	✓
	RBFVDDF 1.25-110A8	2,8x0,8	3,1	6,5	18,8	10,0	3,9	1,7	10 x 100	✓
	RBFVDDF 1.25-187A5	4,8x0,5	5,0	6,4	19,2	10,0	3,9	1,7	10 x 100	✓
	RBFVDDF 1.25-187A8	4,8x0,8	5,0	6,4	19,2	10,0	3,9	1,7	10 x 100	✓
	RBFVDDF 1.25-250A	6,3x0,8	6,6	7,2	20,8	10,0	3,9	1,7	10 x 100	✓
16~14 AWG 1,5~2,5 mm²	RBFVDDF 2-110A5	2,8x0,5	3,1	6,5	19,2	10,0	4,7	2,3	10 x 100	✓
	RBFVDDF 2-110A8	2,8x0,8	3,1	6,5	19,2	10,0	4,7	2,3	10 x 100	✓
	RBFVDDF 2-187A5	4,8x0,5	5,0	6,4	19,2	10,0	4,7	2,3	10 x 100	✓
	RBFVDDF 2-187A8	4,8x0,8	5,0	6,4	19,2	10,0	4,7	2,3	10 x 100	✓
	RBFVDDF 2-250A	6,3x0,8	6,6	7,2	20,8	10,0	4,7	2,3	10 x 100	✓
	RBFVDDF 2-312A	8,0x0,8	8,2	10,2	23,5	10,0	4,7	2,3	10 x 100	
12~10 AWG 4~6 mm²	RBFVDDF 5.5-250A	6,3x0,8	6,6	7,2	23,8	13,0	6,3	3,4	10 x 100	✓
	RBFVDDF 5.5-375A	9,4x1,2	9,8	12,0	28,6	13,0	6,3	3,4	10 x 100	

PVC female disconnectors - Easy Entry copper sleeve

vinyl (PVC) · electro tin plated · brass · operating temperature -10°C~75°C · 300V max · red: 10A blue: 15A yell.: 24A max · RoHS compliant
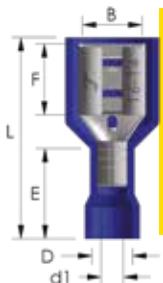
Wire range	Part nr.	tab	B	F	L	E	D	d1	Packed	UL
22~16 AWG 0,5~1,5 mm²	REFVDDF 1.25-110A5	2,8x0,5	3,1	6,5	18,8	10,0	3,9	1,7	10 x 100	✓
	REFVDDF 1.25-110A8	2,8x0,8	3,1	6,5	18,8	10,0	3,9	1,7	10 x 100	✓
	REFVDDF 1.25-187A5	4,8x0,5	5,0	6,4	19,2	10,0	3,9	1,7	10 x 100	✓
	REFVDDF 1.25-187A8	4,8x0,8	5,0	6,4	19,2	10,0	3,9	1,7	10 x 100	✓
	REFVDDF 1.25-250A	6,3x0,8	6,6	7,2	20,8	10,0	3,9	1,7	10 x 100	✓
16~14 AWG 1,5~2,5 mm²	REFVDDF 2-110A5	2,8x0,5	3,1	6,5	19,2	10,0	4,7	2,3	10 x 100	✓
	REFVDDF 2-110A8	2,8x0,8	3,1	6,5	19,2	10,0	4,7	2,3	10 x 100	✓
	REFVDDF 2-187A5	4,8x0,5	5,0	6,4	19,2	10,0	4,7	2,3	10 x 100	✓
	REFVDDF 2-187A8	4,8x0,8	5,0	6,4	19,2	10,0	4,7	2,3	10 x 100	✓
	REFVDDF 2-250A	6,3x0,8	6,6	7,2	20,8	10,0	4,7	2,3	10 x 100	✓
	REFVDDF 2-312A	8,0x0,8	8,2	10,2	23,5	10,0	4,7	2,3	10 x 100	
12~10 AWG 4~6 mm²	REFVDDF 5.5-250A	6,3x0,8	6,6	7,2	23,8	13,0	6,3	3,4	10 x 100	✓
	REFVDDF 5.5-375A	9,4x1,2	9,8	12,0	28,6	13,0	6,3	3,4	10 x 100	

PVC female disconnectors - Standard
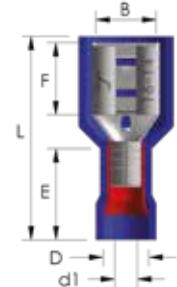
Wire range	Part nr.	tab	B	F	L	E	D	d1	Packed	UL
22~16 AWG 0,5~1,5 mm²	RBLVDF 1.25-110A5	2,8x0,5	3,2	6,5	19,0	10,5	3,5	1,7	10 x 100	
	RBLVDF 1.25-110A8	2,8x0,8	3,2	6,5	19,0	10,5	3,5	1,7	10 x 100	
	RBLVDF 1.25-187A5	4,8x0,5	5,0	6,4	19,0	10,5	3,5	1,7	10 x 100	
	RBLVDF 1.25-187A8	4,8x0,8	5,0	6,4	19,0	10,5	3,5	1,7	10 x 100	
16~14 AWG 1,5~2,5 mm²	RBLVDF 2-110A5	2,8x0,5	3,2	6,5	19,0	10,5	4,3	2,3	10 x 100	
	RBLVDF 2-110A8	2,8x0,8	3,2	6,5	19,0	10,5	4,3	2,3	10 x 100	
	RBLVDF 2-187A5	4,8x0,5	5,0	6,4	21,8	10,5	4,3	2,3	10 x 100	
	RBLVDF 2-187A8	4,8x0,8	5,0	6,4	21,8	10,5	4,3	2,3	10 x 100	
12~10 AWG 4~6 mm²	RBLVDF 5.5-250A	6,3x0,8	6,6	7,2	23,8	10,9	5,6	3,4	10 x 100	

PVC female disconnectors - Standard

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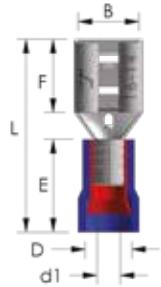
Wire range	Part nr.	tab	B	F	L	E	D	d1	Packed	UL
22~16 AWG 0,5~1,5 mm²	RBLVDF 1.25-250A	6,3x0,8	6,6	7,2	22,8	10,5	3,5	1,7	10 x 100	
16~14 AWG 1,5~2,5 mm²	RBLVDF 2-250A	6,3x0,8	6,6	7,2	22,0	10,5	4,3	2,3	10 x 100	

PVC female disconnectors - Straight copper sleeve
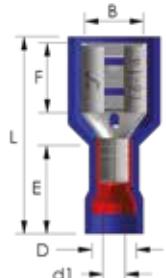
Wire range	Part nr.	tab	B	F	L	E	D	d1	Packed	UL
22~16 AWG **0,5~1,5 mm²**	RBLVDDF 1.25-110A5	2,8x0,5	3,1	6,5	19,0	10,5	3,9	1,7	10 x 100	✔
	RBLVDDF 1.25-110A8	2,8x0,8	3,1	6,5	19,0	10,5	3,9	1,7	10 x 100	✔
	RBLVDDF 1.25-187A5	4,8x0,5	5,0	6,4	20,5	10,5	3,9	1,7	10 x 100	✔
	RBLVDDF 1.25-187A8	4,8x0,8	5,0	6,4	20,5	10,5	3,9	1,7	10 x 100	✔
16~14 AWG **1,5~2,5 mm²**	RBLVDDF 2-110A5	2,8x0,5	3,1	6,5	19,0	10,5	4,7	2,3	10 x 100	✔
	RBLVDDF 2-110A8	2,8x0,8	3,1	6,5	19,0	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 **4~6 mm²**	RBLVDDF 5.5-250A	6,3x0,8	6,6	7,2	23,5	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	

PVC female disconnectors - Straight copper sleeve
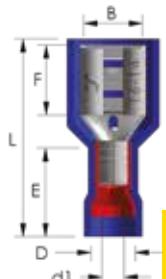
Wire range	Part nr.	tab	B	F	L	E	D	d1	Packed	UL
22~16 AWG **0,5~1,5 mm²**	RBLVDDF 1.25-250A	6,3x0,8	6,6	7,2	21,8	10,5	3,9	1,7	10 x 100	
16~14 AWG **1,5~2,5 mm²**	RBLVDDF 2-250A	6,3x0,8	6,6	7,2	21,8	10,5	4,7	2,3	10 x 100	

PVC female disconnectors - Easy Entry copper sleeve
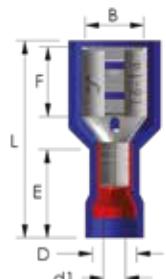
Wire range	Part nr.	tab	B	F	L	E	D	d1	Packed	UL
22~16 AWG 0,5~1,5 mm²	RELVDDF 1.25-110A5	2,8x0,5	3,1	6,5	19,0	10,5	3,9	1,7	10 x 100	✓
	RELVDDF 1.25-110A8	2,8x0,8	3,1	6,5	19,0	10,5	3,9	1,7	10 x 100	✓
	RELVDDF 1.25-187A5	4,8x0,5	5,0	6,4	20,5	10,5	3,9	1,7	10 x 100	✓
	RELVDDF 1.25-187A8	4,8x0,8	5,0	6,4	20,5	10,5	3,9	1,7	10 x 100	✓
16~14 AWG 1,5~2,5 mm²	RELVDDF 2-110A5	2,8x0,5	3,1	6,5	19,0	10,5	4,7	2,3	10 x 100	✓
	RELVDDF 2-110A8	2,8x0,8	3,1	6,5	19,0	10,5	4,7	2,3	10 x 100	✓
	RELVDDF 2-187A5	4,8x0,5	5,0	6,4	20,5	10,5	4,7	2,3	10 x 100	✓
	RELVDDF 2-187A8	4,8x0,8	5,0	6,4	20,5	10,5	4,7	2,3	10 x 100	✓
12~10 AWG 4~6 mm²	RELVDDF 5.5-250A	6,3x0,8	6,6	7,2	23,8	13,0	6,3	3,4	10 x 100	✓
	RELVDDF 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	B	F	L	E	D	d1	Packed	UL
22~16 AWG 0,5~1,5 mm²	REOVDDF 1.25-250A	6,3x0,8	6,6	7,2	21,8	10,5	3,9	1,7	10 x 100	✓
16~14 AWG 1,5~2,5 mm²	REOVDDF 2-250A	6,3x0,8	6,6	7,2	21,8	10,5	4,7	2,3	10 x 100	✓
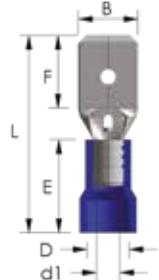
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PVC female disconnectors - Easy Entry copper sleeve

| Wire range	Part nr.	tab	B	F	L	E	D	d1	Packed	UL
22~16 AWG 0,5~1,5 mm²	RELVDDF 1.25-250A	6,3x0,8	6,6	7,2	21,8	10,5	3,9	1,7	10 x 100	
16~14 AWG 1,5~2,5 mm²	RELVDDF 2-250A	6,3x0,8	6,6	7,2	21,8	10,5	4,7	2,3	10 x 100	
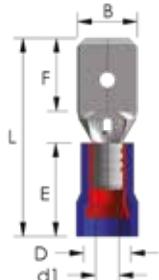
PVC male disconnectors - Standard

vinyl (PVC) • electro tin plated • brass • operating temperature -10°C~75°C • 300V max • red: 10A blue: 15A yell.: 24A max • RoHS compliant
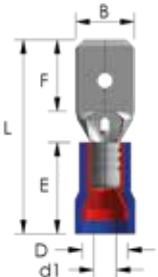
| Wire range	Part nr.	tab	B	F	L	E	D	d1	Packed	UL
22~16 AWG 0,5~1,5 mm²	RBFVDM 1.25-110A5	2,8x0,5	2,8	7,6	18,7	10,0	3,5	1,7	10 x 100	
	RBFVDM 1.25-110A8	2,8x0,8	2,8	6,6	18,7	10,0	3,5	1,7	10 x 100	
	RBFVDM 1.25-187A5	4,8x0,5	4,8	7,6	19,2	10,0	3,5	1,7	10 x 100	
	RBFVDM 1.25-187A8	4,8x0,8	4,8	6,6	19,2	10,0	3,5	1,7	10 x 100	
	RBFVDM 1.25-250	6,3x0,8	6,3	7,6	20,8	10,0	3,5	1,7	10 x 100	
16~14 AWG 1,5~2,5 mm²	RBFVDM 2-110A5	2,8x0,5	2,8	7,6	18,7	10,0	4,3	2,3	10 x 100	
	RBFVDM 2-110A8	2,8x0,8	2,8	6,6	18,7	10,0	4,3	2,3	10 x 100	
	RBFVDM 2-187A5	4,8x0,5	4,8	7,6	19,2	10,0	4,3	2,3	10 x 100	
	RBFVDM 2-187A8	4,8x0,8	4,8	6,6	19,2	10,0	4,3	2,3	10 x 100	
	RBFVDM 2-250	6,3x0,8	6,3	7,5	20,8	10,0	4,3	2,3	10 x 100	
12~10 AWG 4~6 mm²	RBFVDM 5.5-250	6,3x0,8	6,3	7,5	24,0	13,0	5,6	3,4	10 x 100	

PVC male disconnectors - Straight copper sleeve

vinyl (PVC) • electro tin plated • brass • operating temperature -10°C~75°C • 300V max • red: 10A blue: 15A yell.: 24A max • RoHS compliant
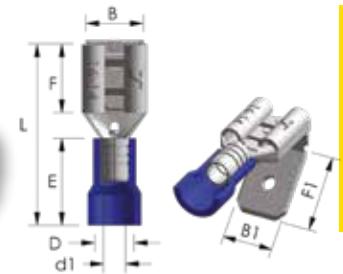
Wire range	Part nr.	tab	B	F	L	E	D	d1	Packed	UL
22~16 AWG 0,5~1,5 mm²	RBFVDDM 1.25-110A5	2,8x0,5	2,8	7,6	18,7	10,0	3,9	1,7	10 x 100	✔
	RBFVDDM 1.25-110A8	2,8x0,8	2,8	6,6	18,7	10,0	3,9	1,7	10 x 100	✔
	RBFVDDM 1.25-187A5	4,8x0,5	4,8	7,6	19,2	10,0	3,9	1,7	10 x 100	✔
	RBFVDDM 1.25-187A8	4,8x0,8	4,8	6,6	19,2	10,0	3,9	1,7	10 x 100	✔
	RBFVDDM 1.25-250	6,3x0,8	6,3	7,6	20,8	10,0	3,9	1,7	10 x 100	✔
16~14 AWG 1,5~2,5 mm²	RBFVDDM 2-110A5	2,8x0,5	2,8	7,6	18,7	10,0	4,7	2,3	10 x 100	✔
	RBFVDDM 2-110A8	2,8x0,8	2,8	6,6	18,7	10,0	4,7	2,3	10 x 100	✔
	RBFVDDM 2-187A5	4,8x0,5	4,8	7,6	19,2	10,0	4,7	2,3	10 x 100	✔
	RBFVDDM 2-187A8	4,8x0,8	4,8	6,6	19,2	10,0	4,7	2,3	10 x 100	✔
	RBFVDDM 2-250	6,3x0,8	6,3	7,6	20,8	10,0	4,7	2,3	10 x 100	✔
12~10 AWG 4~6 mm²	RBFVDDM 5.5-250	6,3x0,8	6,3	7,6	24,0	13,0	6,3	3,4	10 x 100	✔

PVC male disconnectors - Easy Entry copper sleeve

Wire range	Part nr.	tab	B	F	L	E	D	d1	Packed	UL
22~16 AWG 0,5~1,5 mm²	REFVDDM 1.25-110A5	2,8x0,5	2,8	7,6	18,7	10,0	3,9	1,7	10 x 100	✓
	REFVDDM 1.25-110A8	2,8x0,8	2,8	6,6	18,7	10,0	3,9	1,7	10 x 100	✓
	REFVDDM 1.25-187A5	4,8x0,5	4,8	7,6	19,2	10,0	3,9	1,7	10 x 100	✓
	REFVDDM 1.25-187A8	4,8x0,8	4,8	6,6	19,2	10,0	3,9	1,7	10 x 100	✓
	REFVDDM 1.25-250	6,3x0,8	6,3	7,6	20,8	10,0	3,9	1,7	10 x 100	✓
16~14 AWG 1,5~2,5 mm²	REFVDDM 2-110A5	2,8x0,5	2,8	7,6	18,7	10,0	4,7	2,3	10 x 100	✓
	REFVDDM 2-110A8	2,8x0,8	2,8	6,6	18,7	10,0	4,7	2,3	10 x 100	✓
	REFVDDM 2-187A5	4,8x0,5	4,8	7,6	19,2	10,0	4,7	2,3	10 x 100	✓
	REFVDDM 2-187A8	4,8x0,8	4,8	6,6	19,2	10,0	4,7	2,3	10 x 100	✓
	REFVDDM 2-250	6,3x0,8	6,3	7,6	20,8	10,0	4,7	2,3	10 x 100	✓
12~10 AWG 4~6 mm²	REFVDDM 5.5-250	6,3x0,8	6,3	7,6	24,0	13,0	6,3	3,4	10 x 100	✓
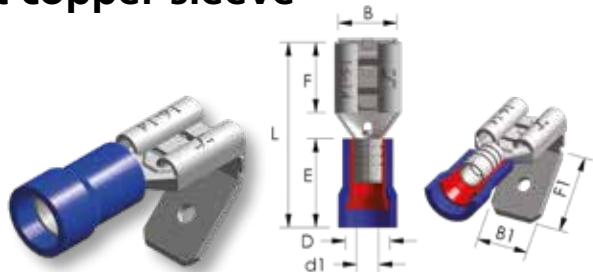
PVC piggy back disconnectors - Standard
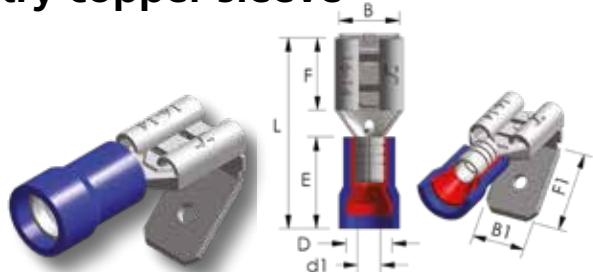
Wire range	Part nr.	tab	B	B1	F	F1	L	E	D	d1	Packed	UL
22~16 AWG 0,5~1,5 mm²	RBFVDFM 1.25-250A	6,3x0,8	6,7	6,4	8,0	8,2	21,0	10,0	3,3	1,7	10 x 100	
16~14 AWG 1,5~2,5 mm²	RBFVDFM 2-250B	6,3x0,8	6,7	6,4	8,0	8,2	21,0	10,0	4,1	2,3	10 x 100	
12~10 AWG 4~6 mm²	RBFVDFM 5.5-250A	6,3x0,8	6,7	6,4	8,0	8,2	24,5	13,0	5,6	3,4	10 x 100	

INSULATED TERMINALS

PVC piggy back disconnectors - Straight copper sleeve

vinyl (PVC) · electro tin plated · brass · operating temperature -10°C~75°C · 300V max · red: 10A blue: 15A yell.: 24A max · RoHS compliant

Wire range	Part nr.	tab	B	B1	F	F1	L	E	D	d1	Packed	UL
22~16 AWG 0,5~1,5 mm²	RBFVDDFM 1.25-250A	6,3x0,8	6,7	6,4	8,0	8,2	21,0	10,0	3,8	1,7	10 x 100	✓
16~14 AWG 1,5~2,5 mm²	RBFVDDFM 2-250B	6,3x0,8	6,7	6,4	8,0	8,2	21,0	10,0	4,7	2,3	10 x 100	✓
12~10 AWG 4~6 mm²	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

vinyl (PVC) · electro tin plated · brass · operating temperature -10°C~75°C · 300V max · red: 10A blue: 15A yell.: 24A max · RoHS compliant
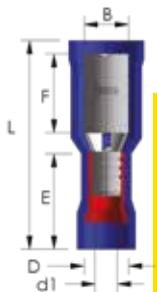
Wire range	Part nr.	tab	B	B1	F	F1	L	E	D	d1	Packed	UL
22~16 AWG 0,5~1,5 mm²	REFVDDFM 1.25-250A	6,3x0,8	6,7	6,4	8,0	8,2	21,0	10,0	3,8	1,7	10 x 100	✓
16~14 AWG 1,5~2,5 mm²	REFVDDFM 2-250B	6,3x0,8	6,7	6,4	8,0	8,2	21,0	10,0	4,7	2,3	10 x 100	✓
12~10 AWG 4~6 mm²	REFVDDFM 5.5-250A	6,3x0,8	6,7	6,4	8,0	8,2	24,5	13,0	6,2	3,4	10 x 100	✓

PVC female bullet disconnectors - Standard

Wire range	Part nr.	B	F	L	E	D	d1	Packed	UL
22~16 AWG 0,5~1,5 mm²	RBCVGF 1.25-5	3,9	7,3	24,5	10,5	3,4	1,7	10 x 100	
16~14 AWG 1,5~2,5 mm²	RBCVGF 2-5	3,9	7,3	24,5	10,5	4,1	2,3	10 x 100	
	RBCVGF 2-7	4,9	7,3	25,5	10,5	4,1	2,3	10 x 100	
12~10 AWG 4~6 mm²	RBCVGF 5.5-7	4,9	7,3	28,0	13,7	5,6	3,4	10 x 100	
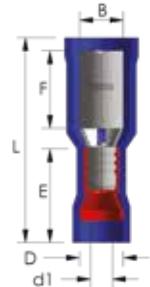
PVC female bullet disconnectors - Straight copper sleeve
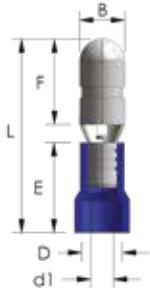
Wire range	Part nr.	B	F	L	E	D	d1	Packed	UL
22~16 AWG 0,5~1,5 mm²	RBCVDGF 1.25-5	3,9	7,3	24,5	10,5	3,9	1,7	10 x 100	✓
16~14 AWG 1,5~2,5 mm²	RBCVDGF 2-5	3,9	7,3	24,5	10,5	4,7	2,3	10 x 100	✓
	RBCVDGF 2-7	4,9	7,3	24,5	10,5	4,7	2,3	10 x 100	✓
12~10 AWG 4~6 mm²	RBCVDGF 5.5-7	4,9	7,3	28,5	13,7	6,3	3,4	10 x 100	✓

INSULATED TERMINALS

PVC female bullet disconnectors - Easy Entry copper sleeve
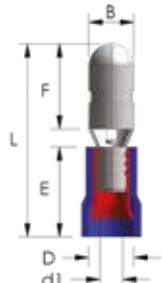
Wire range	Part nr.	B	F	L	E	D	d1	Packed	UL
22~16 AWG 0,5~1,5 mm²	RECVDGF 1.25-5	3,9	7,3	24,5	10,5	3,9	1,7	10 x 100	✓
16~14 AWG 1,5~2,5 mm²	RECVDGF 2-5	3,9	7,3	24,5	10,5	4,7	2,3	10 x 100	✓
	RECVDGF 2-7	4,9	7,3	24,5	10,5	4,7	2,3	10 x 100	✓
12~10 AWG 4~6 mm²	RECVDGF 5.5-7	4,9	7,3	28,5	13,7	6,3	3,4	10 x 100	✓

PVC male bullet disconnectors - Standard
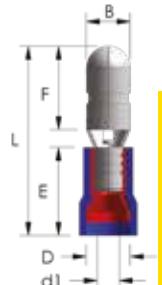
Wire range	Part nr.	B	F	L	E	D	d1	Packed	UL
22~16 AWG 0,5~1,5 mm²	RBFVGM 1.25-5	4,0	9,0	21,5	10,0	3,3	1,7	10 x 100	
16~14 AWG 1,5~2,5 mm²	RBFVGM 2-5	4,0	9,0	21,5	10,0	4,1	2,3	10 x 100	
	RBFVGM 2-7	5,0	9,0	22,5	10,0	4,1	2,3	10 x 100	
12~10 AWG 4~6 mm²	RBFVGM 5.5-7	5,0	9,0	25,0	13,0	5,6	3,4	10 x 100	

PVC male bullet disconnectors - Straight copper sleeve

Wire range	Part nr.	B	F	L	E	D	d1	Packed	UL
22~16 AWG 0,5~1,5 mm²	RBFVDGM 1.25-5	4,0	9,0	21,5	10,0	3,9	1,7	10 x 100	✓
16~14 AWG 1,5~2,5 mm²	RBFVDGM 2-5	4,0	9,0	21,5	10,0	4,7	2,3	10 x 100	✓
	RBFVDGM 2-7	5,0	9,0	22,5	10,0	4,7	2,3	10 x 100	✓
12~10 AWG 4~6 mm²	RBFVDGM 5.5-7	5,0	9,0	25,0	13,0	6,3	3,4	10 x 100	✓

PVC male bullet disconnectors - Easy Entry copper sleeve

Wire range	Part nr.	B	F	L	E	D	d1	Packed	UL
22~16 AWG 0,5~1,5 mm²	REFVDGM 1.25-5	4,0	9,0	21,2	10,0	3,9	1,7	10 x 100	✓
16~14 AWG 1,5~2,5 mm²	REFVDGM 2-5	4,0	9,0	21,5	10,0	4,7	2,3	10 x 100	✓
	REFVDGM 2-7	5,0	9,0	22,5	10,0	4,7	2,3	10 x 100	✓
12~10 AWG 4~6 mm²	REFVDGM 5.5-7	5,0	9,0	25,0	13,0	6,3	3,4	10 x 100	✓

INSULATED TERMINALS

PVC insulated assortments

HI310552BC
552 pcs incl. tool & die set

Professional kit

1 x 10" ratchet crimper HJ56I	25 x REFVDDF 1.25-250A
1 x die set DSQIA	25 x RELVDDF 1.25-250A
1 x insulation tape	25 x REFVDDM 1.25-250
50 x cable tie (2,5 x 100 mm)	25 x REFVDDF 2-250A
	25 x RELVDDF 2-250A
14 x REFVD 1.25-M3DIN	25 x REFVDDM 2-250
13 x REFVD 1.25-4DIN	12 x REFVDDF 5.5-250A
13 x REFVD 1.25-5DIN	12 x REFVDDM 5.5-250
12 x REFVD 2-S3DIN	
12 x REFVD 2-4DIN	25 x RECVDGF 1.25-5
12 x REFVD 2-5DIN	25 x REFVDGM 1.25-5
25 x REFVD 2-6DIN	25 x RECVDGF 2-5
13 x REFVD 5.5-4DIN	25 x REFVDGM 2-5
12 x REFVD 5.5-5DIN	
	25 x REFVDDFM 1.25-250A
25 x REFVDC 1.25	25 x REFVDDFM 2-250B
25 x REFVDC 2	

Also available without terminals

HI310052BC
52 pcs

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

AD-101
61 pcs 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	2 x BFVDF 1.25-250A
10 x BFV 2-3	2 x BFVDM 1.25-250
4 x BFV 2-4	2 x BFVDF 2-250A
	2 x BFVDM 2-250
10 x BFV 1.25-3A	
10 x BFV 2-3A	

AD-002
307 pcs incl. tool

1 x multi-tool	10 x BFVC 1.25
	10 x BFVC 2
20 x BFV 1.25-4	6 x BFVC 5.5
20 x BFV 1.25-5	
20 x BFV 2-4	20 x BFVDF 1.25-110A8
20 x BFV 2-5	20 x BFVDM 1.25-110A8
20 x BFV 2-6	20 x BFVDF 1.25-250A
10 x BFV 5.5-8	20 x BFVDM 1.25-250
	20 x BFVDF 2-187A8
20 x BFV 1.25-B3A	20 x BFVDM 2-187A8
20 x BFV 2-YS4A	10 x BFVDF 5.5-250A

AE INDUSTRIES

AD-006
541 pcs 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-S3.3	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	

AD-008
361 pcs 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	

HP250098D
98 pcs incl. tools

1 x multi-tool	5 x butt connector red
1 x box cutter	5 x butt connector blue
1 x insulated flat screw driver	10 x closed end connector
1 x insulated cross screw driver	0,5~1,5 mm²
1 x voltage tester	10 x cord end terminal
1 x insulation tape 19 mm x 10 m	0,5 mm², L 8 mm, orange
2 x terminal block 0,75~2,5 mm²	10 x cord end terminal
	0,75 mm², L 10 mm, white
5 x ring terminal red M6	10 x cord end terminal
5 x ring terminal blue M6	1 mm², L 10 mm, yellow
5 x spade terminal red M6	20 x cord end terminal
5 x spade terminal blue M6	1,5 mm², L 10 mm, red

AD-009
1000 pcs

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
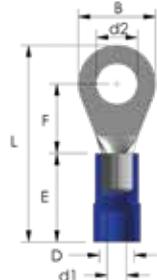
WS-00004
100 pcs

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	6 x RBCVDGF 2-7
	6 x RBFVDGM 2-7
7 x RBFVC 1.25	
7 x RBFVC 2	
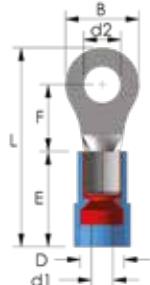
Nylon ring terminals - DIN 46237 Brazed Seam
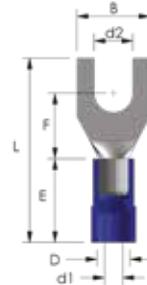
Wire range	Part nr.	d2	B	F	L	E	D	d1	Packed	UL
22~16 AWG **0,5~1,5 mm²**	EFN 1.25-3DINBS	3,2	6,0	6,3	19,7	10,7	3,9	1,7	10 x 100	✓
	EFN 1.25-M3DINBS	3,7	6,0	6,3	19,7	10,7	3,9	1,7	10 x 100	✓
	EFN 1.25-4DINBS	4,3	8,0	7,3	21,7	10,7	3,9	1,7	10 x 100	✓
	EFN 1.25-5DINBS	5,3	10,0	8,3	23,7	10,7	3,9	1,7	10 x 100	✓
	EFN 1.25-6DINBS	6,5	11,0	10,3	26,2	10,7	3,9	1,7	10 x 100	✓
	EFN 1.25-8DINBS	8,4	14,0	12,3	29,7	10,7	3,9	1,7	10 x 100	✓
	EFN 1.25-10DINBS	10,5	18,0	14,3	33,7	10,7	3,9	1,7	10 x 100	✓
16~14 AWG **1,5~2,5 mm²**	EFN 2-S3.3DINBS	3,2	6,0	6,3	19,7	10,7	4,5	2,3	10 x 100	✓
	EFN 2-S3DINBS	3,7	6,0	6,3	19,7	10,7	4,5	2,3	10 x 100	✓
	EFN 2-4DINBS	4,3	8,0	7,3	21,7	10,7	4,5	2,3	10 x 100	✓
	EFN 2-5DINBS	5,3	10,0	8,8	24,7	10,7	4,5	2,3	10 x 100	✓
	EFN 2-6DINBS	6,5	11,0	11,3	27,2	10,7	4,5	2,3	10 x 100	✓
	EFN 2-8DINBS	8,4	14,0	12,3	29,7	10,7	4,5	2,3	10 x 100	✓
	EFN 2-10DINBS	10,5	18,0	13,8	33,2	10,7	4,5	2,3	10 x 100	✓
	EFN 2-12DINBS	13,0	18,0	15,3	34,7	10,7	4,5	2,3	10 x 100	✓
12~10 AWG **4~6 mm²**	EFN 5.5-4DINBS	4,3	8,0	8,3	25,0	12,7	6,4	3,4	10 x 100	✓
	EFN 5.5-5DINBS	5,3	10,0	9,3	26,7	12,7	6,4	3,4	10 x 100	✓
	EFN 5.5-6DINBS	6,5	11,0	10,3	27,7	12,7	6,4	3,4	10 x 100	✓
	EFN 5.5-8DINBS	8,4	14,0	13,3	32,7	12,7	6,4	3,4	10 x 100	✓
	EFN 5.5-10DINBS	10,5	18,0	15,3	36,7	12,7	6,4	3,4	10 x 100	✓
	EFN 5.5-12DINBS	13,0	18,0	15,3	36,7	12,7	6,4	3,4	10 x 100	✓

Nylon ring terminals - Easy Entry copper sleeve
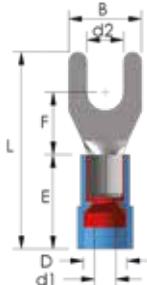
Wire range	Part nr.	d2	B	F	L	E	D	d1	Packed	UL
22~16 AWG **0,5~1,5 mm²**	EFND 1.25-3	3,2	5,5	4,8	18,2	10,7	4,4	1,7	10 x 100	
	EFND 1.25-M3	3,7	6,6	6,3	20,1	10,7	4,4	1,7	10 x 100	
	EFND 1.25-4	4,3	6,6	6,3	20,1	10,7	4,4	1,7	10 x 100	
	EFND 1.25-5	5,3	8,0	7,0	21,5	10,7	4,4	1,7	10 x 100	
	EFND 1.25-6	6,4	11,8	11,0	27,4	10,7	4,4	1,7	10 x 100	
	EFND 1.25-8	8,4	11,8	11,0	27,4	10,7	4,4	1,7	10 x 100	
	EFND 1.25-10	10,5	13,6	13,9	31,2	10,7	4,4	1,7	10 x 100	
16~14 AWG **1,5~2,5 mm²**	EFND 2-S3.3	3,2	6,6	4,7	18,5	10,7	5,0	2,3	10 x 100	
	EFND 2-S3	3,7	6,6	6,3	20,2	10,7	5,0	2,3	10 x 100	
	EFND 2-4	4,3	8,5	7,8	22,5	10,7	5,0	2,3	10 x 100	
	EFND 2-5	5,3	9,6	7,3	22,7	10,7	5,0	2,3	10 x 100	
	EFND 2-6	6,4	12,0	11,0	27,6	10,7	5,0	2,3	10 x 100	
	EFND 2-8	8,4	12,0	11,0	27,6	10,7	5,0	2,3	10 x 100	
	EFND 2-10	10,5	13,6	13,6	31,2	10,7	5,0	2,3	10 x 100	
12~10 AWG **4~6 mm²**	EFND 5.5-4	4,3	8,0	8,3	25,0	12,7	7,0	3,4	10 x 100	
	EFND 5.5-5	5,3	9,5	8,3	26,0	13,0	7,0	3,4	10 x 100	
	EFND 5.5-6	6,4	12,0	10,5	29,5	13,0	7,0	3,4	10 x 100	
	EFND 5.5-8	8,4	15,0	13,5	34,0	13,0	7,0	3,4	10 x 100	
	EFND 5.5-10	10,5	15,0	13,5	34,0	13,0	7,0	3,4	10 x 100	
	EFND 5.5-12	13,0	19,2	16,0	38,6	13,0	7,0	3,4	10 x 100	

INSULATED TERMINALS

Nylon spade terminals - DIN 46237 Brazed Seam

nylon | electro tin plated | copper | operating temperature -40°C~105°C | 600V max | red: 19A blue: 27A yell.: 48A max | RoHS compliant | halogen free
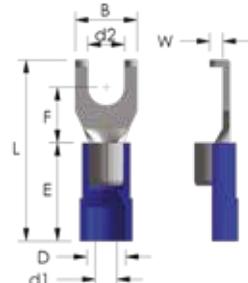
Wire range	Part nr.	d2	B	F	L	E	D	d1	Packed	UL
22~16 AWG 0,5~1,5 mm²	EFN 1.25-B3ADINBS	3,2	6,0	5,3	19,3	10,7	3,9	1,7	10 x 100	✔
	EFN 1.25-YS3ADINBS	3,7	6,0	5,3	19,3	10,7	3,9	1,7	10 x 100	✔
	EFN 1.25-YS4ADINBS	4,3	8,0	6,3	21,3	10,7	3,9	1,7	10 x 100	✔
	EFN 1.25-5ADINBS	5,3	10,0	7,3	23,3	10,7	3,9	1,7	10 x 100	✔
	EFN 1.25-6ADINBS	6,5	11,0	9,3	25,9	10,7	3,9	1,7	10 x 100	✔
16~14 AWG 1,5~2,5 mm²	EFN 2-B3ADINBS	3,2	6,0	6,3	19,6	10,7	4,5	2,3	10 x 100	✔
	EFN 2-YS3ADINBS	3,7	6,0	5,3	19,6	10,7	4,5	2,3	10 x 100	✔
	EFN 2-YS4ADINBS	4,3	8,0	6,3	21,6	10,7	4,5	2,3	10 x 100	✔
	EFN 2-5ADINBS	5,3	10,0	8,3	24,6	10,7	4,5	2,3	10 x 100	✔
	EFN 2-6ADINBS	6,5	11,0	10,3	27,1	10,7	4,5	2,3	10 x 100	✔
12~10 AWG 4~6 mm²	EFN 5.5-S4ADINBS	4,3	8,0	8,3	23,9	12,7	6,4	3,4	10 x 100	✔
	EFN 5.5-5ADINBS	5,3	10,0	9,3	26,1	12,7	6,4	3,4	10 x 100	✔
	EFN 5.5-6ADINBS	6,5	11,0	10,5	27,9	12,7	6,4	3,4	10 x 100	✔
	EFN 5.5-8ADINBS	8,4	14,0	13,3	32,3	12,7	6,4	3,4	10 x 100	✔

Nylon spade terminals - Easy Entry copper sleeve

nylon | electro tin plated | copper | operating temperature -40°C~105°C | 600V max | red: 19A blue: 27A yell.: 48A max | RoHS compliant | halogen free

Wire range	Part nr.	d2	B	F	L	E	D	d1	Packed	UL
22~16 AWG 0,5~1,5 mm²	EFND 1.25-B3A	3,3	5,7	6,5	21,7	10,7	4,4	1,7	10 x 100	
	EFND 1.25-YS3A	3,8	6,4	6,5	21,7	10,7	4,4	1,7	10 x 100	
	EFND 1.25-YS4A	4,4	6,4	6,5	21,7	10,7	4,4	1,7	10 x 100	
	EFND 1.25-S4A	4,4	7,2	6,5	21,7	10,7	4,4	1,7	10 x 100	
	EFND 1.25-5A	5,4	9,5	6,5	21,7	10,7	4,4	1,7	10 x 100	
	EFND 1.25-6A	6,6	12,0	11,0	27,7	10,7	4,4	1,7	10 x 100	
16~14 AWG 1,5~2,5 mm²	EFND 2-YS3A	3,8	5,7	6,5	21,7	10,7	5,0	2,3	10 x 100	
	EFND 2-YS4A	4,4	6,4	6,5	21,7	10,7	5,0	2,3	10 x 100	
	EFND 2-5A	5,4	9,3	6,5	21,7	10,7	5,0	2,3	10 x 100	
	EFND 2-6A	6,6	12,0	11,0	27,7	10,7	5,0	2,3	10 x 100	
12~10 AWG 4~6 mm²	EFND 5.5-3A	3,8	8,3	7,0	25,2	12,7	7,0	3,4	10 x 100	
	EFND 5.5-S4A	4,4	8,3	7,0	25,2	12,7	7,0	3,4	10 x 100	
	EFND 5.5-5A	5,4	9,0	7,0	25,2	12,7	7,0	3,4	10 x 100	
	EFND 5.5-6A	6,6	12,0	12,0	31,2	12,7	7,0	3,4	10 x 100	
	EFND 5.5-8A	8,5	14,0	11,5	30,2	12,7	7,0	3,4	10 x 100	

Nylon flange terminals - Standard

Wire range	Part nr.	d2	B	F	L	E	D	d1	W	Packed	UL
16~14 AWG	EFN 2-4B	4,3	7,2	6,5	20,7	11,0	4,5	2,3	1,5	10 x 100	✓
1,5~2,5 mm²	EFN 2-5B	5,3	8,5	7,3	21,5	11,0	4,5	2,3	1,5	10 x 100	✓
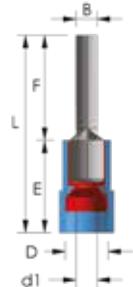
Nylon pin terminals - DIN 46231 Brazed Seam

Wire range	Part nr.	B	F	L	E	D	d1	Packed	UL
22~16 AWG	EFNPC 1.25-F10DINBS	1,9	10,0	20,7	10,7	3,9	1,7	10 x 100	✓
0,5~1,5 mm²	EFNPC 1.25DINBS	1,9	12,0	22,7	10,7	3,9	1,7	10 x 100	✓
16~14 AWG	EFNPC 2-F9DINBS	1,9	9,0	19,7	10,7	4,5	2,3	10 x 100	✓
	EFNPC 2-F10DINBS	1,9	10,0	20,7	10,7	4,5	2,3	10 x 100	✓
1,5~2,5 mm²	EFNPC 2DINBS	1,9	12,0	22,7	10,7	4,5	2,3	10 x 100	✓
	EFNPC 2-F13DINBS	1,9	13,0	23,7	10,7	4,5	2,3	10 x 100	✓
12~10 AWG	EFNPC 5.5-F10DINBS	2,8	10,0	22,7	12,7	6,4	3,4	10 x 100	✓
4~6 mm²	EFNPC 5.5DINBS	2,8	12,0	24,7	12,7	6,4	3,4	10 x 100	✓
	EFNPC 5.5-F13DINBS	2,8	14,0	26,7	12,7	6,4	3,4	10 x 100	✓

Nylon pin terminals - Easy Entry copper sleeve

nylon | electro tin plated | copper | operating temperature -40°C~105°C | 600V max | red: 19A blue: 27A yell.: 48A max | RoHS compliant | halogen free

| Wire range	Part nr.	B	F	L	E	D	d1	Packed	UL
22~16 AWG 0,5~1,5 mm²	EFNDPC 1.25-F9	1,9	9,0	18,8	10,7	4,3	1,7	10 x 100	
	EFNDPC 1.25-F10	1,9	10,0	19,8	10,7	4,3	1,7	10 x 100	
	EFNDPC 1.25	1,9	12,0	21,8	10,7	4,3	1,7	10 x 100	
16~14 AWG 1,5~2,5 mm²	EFNDPC 2-F9	1,9	9,0	18,8	10,7	4,8	2,3	10 x 100	
	EFNDPC 2-F10	1,9	10,0	19,8	10,7	4,8	2,3	10 x 100	
	EFNDPC 2	1,9	12,0	21,8	10,7	4,8	2,3	10 x 100	
	EFNDPC 2-F13	1,9	13,0	22,8	10,7	4,8	2,3	10 x 100	
12~10 AWG 4~6 mm²	EFNDPC 5.5	2,8	14,0	26,0	13,0	6,7	3,4	10 x 100	

Nylon blade terminals - Standard

nylon | electro tin plated | copper | operating temperature -40°C~105°C | 600V max | red: 19A blue: 27A yell.: 48A max | RoHS compliant | halogen free
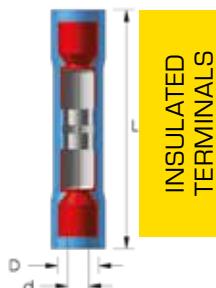
Wire range	Part nr.	B	F	L	E	D	d1	Packed	UL
22~16 AWG 0,5~1,5 mm²	EFNPC 1.25-PF10	2,3	10,0	20,5	10,7	3,9	1,7	10 x 100	✓
	EFNPC 1.25-PF11	3,0	11,0	21,5	10,7	3,9	1,7	10 x 100	✓
	EFNPC 1.25-PF14	2,4	14,0	24,5	10,7	3,9	1,7	10 x 100	✓
	EFNPC 1.25-P	2,2	18,0	28,5	10,7	3,9	1,7	10 x 100	✓
16~14 AWG 1,5~2,5 mm²	EFNPC 2-PF9	2,8	9,0	19,5	10,7	4,5	2,3	10 x 100	✓
	EFNPC 2-PF10	2,3	10,0	20,5	10,7	4,5	2,3	10 x 100	✓
	EFNPC 2-PF13	2,4	13,0	23,5	10,7	4,5	2,3	10 x 100	✓
	EFNPC 2-P	2,2	18,0	28,5	10,7	4,5	2,3	10 x 100	✓
12~10 AWG 4~6 mm²	EFNPC 5.5-PF10	2,8	10,0	22,7	12,7	6,3	3,4	10 x 100	✓
	EFNPC 5.5-P	4,5	18,0	30,7	12,7	6,3	3,4	10 x 100	✓

Nylon butt connectors - Standard
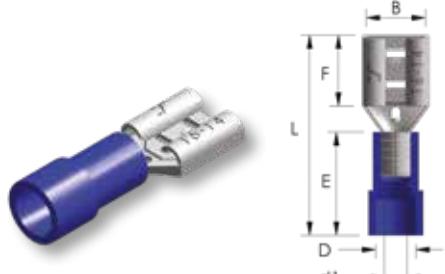
Wire range	Part nr.	L	D	d	Packed	UL
26~22AWG 0,2~0,5 mm²	BFNC 0.5	20,0	2,3	1,2	10 x 100	
22~16 AWG 0,5~1,5 mm²	BFNC 1.25	25,2	4,1	1,7	10 x 100	
16~14 AWG 1,5~2,5 mm²	BFNC 2	25,2	4,7	2,3	10 x 100	
12~10 AWG 4~6 mm²	BFNC 5.5	28,2	6,4	3,4	10 x 100	

Nylon butt connectors - Window type
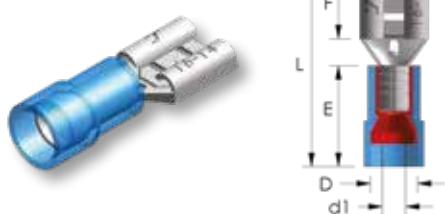
Wire range	Part nr.	L	D	d	Packed	UL
22~16 AWG 0,5~1,5 mm²	EFVDWSCW 1.25	30,0	4,1	1,7	10 x 100	
16~14 AWG 1,5~2,5 mm²	EFVDWSCW 2	30,0	4,8	2,3	10 x 100	
12~10 AWG 4~6 mm²	EFVDWSCW 5.5	35,0	6,5	3,4	10 x 100	

INSULATED TERMINALS

Nylon female disconnectors - Standard

Wire range	Part nr.	tab	B	F	L	E	D	d1	Packed	UL
22~16 AWG 0,5~1,5 mm²	EFNDF 1.25-110A5	2,8x0,5	3,2	6,5	19,0	10,7	3,9	1,7	10 x 100	
	EFNDF 1.25-110A8	2,8x0,8	3,2	6,5	19,0	10,7	3,9	1,7	10 x 100	
	EFNDF 1.25-187A5	4,8x0,5	5,0	6,4	19,2	10,7	3,9	1,7	10 x 100	
	EFNDF 1.25-187A8	4,8x0,8	5,0	6,4	19,2	10,7	3,9	1,7	10 x 100	
	EFNDF 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 mm²	EFNDF 2-110A5	2,8x0,5	3,2	6,5	19,0	10,7	4,5	2,3	10 x 100	
	EFNDF 2-110A8	2,8x0,8	3,2	6,5	19,0	10,7	4,5	2,3	10 x 100	
	EFNDF 2-187A5	4,8x0,5	5,0	6,4	19,2	10,7	4,5	2,3	10 x 100	
	EFNDF 2-187A8	4,8x0,8	5,0	6,4	19,2	10,7	4,5	2,3	10 x 100	
	EFNDF 2-250A	6,3x0,8	6,6	7,2	20,8	10,7	4,5	2,3	10 x 100	
	EFNDF 2-312A	8,0x0,8	8,2	10,2	24,5	10,7	4,5	2,3	10 x 100	
12~10 AWG 4~6 mm²	EFNDF 5.5-250A	6,3x0,8	6,6	7,2	23,8	12,0	6,4	3,4	10 x 100	
	EFNDF 5.5-375A	9,4x1,2	9,8	12,0	28,6	12,0	6,4	3,4	10 x 100	

Nylon female disconnectors - Easy Entry copper sleeve
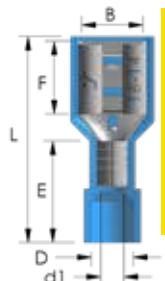
Wire range	Part nr.	tab	B	F	L	E	D	d1	Packed	UL
22~16 AWG 0,5~1,5 mm²	EFNDDF 1.25-110A5	2,8x0,5	3,2	6,5	19,0	10,7	3,9	1,7	10 x 100	✓
	EFNDDF 1.25-110A8	2,8x0,8	3,2	6,5	19,0	10,7	3,9	1,7	10 x 100	✓
	EFNDDF 1.25-187A5	4,8x0,5	5,0	6,4	19,2	10,7	3,9	1,7	10 x 100	✓
	EFNDDF 1.25-187A8	4,8x0,8	5,0	6,4	19,2	10,7	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 mm²	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	✓
	EFNDDF 2-312A	8,0x0,8	8,2	10,2	24,5	10,7	4,7	2,3	10 x 100	
12~10 AWG 4~6 mm²	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	9,8	12,0	28,6	12,7	6,3	3,4	10 x 100	

Nylon female disconnectors - Standard

Wire range	Part nr.	tab	B	F	L	E	D	d1	Packed	UL
22~16 AWG	ELNDF 1.25-187A5	4,8x0,5	5,0	6,4	20,0	10,5	4,2	1,7	10 x 100	✓
0,5~1,5 mm²	ELNDF 1.25-187A8	4,8x0,8	5,0	6,4	20,0	10,5	4,2	1,7	10 x 100	✓
16~14 AWG	ELNDF 2-187A5	4,8x0,5	5,0	6,4	20,0	10,5	4,9	2,3	10 x 100	✓
1,5~2,5 mm²	ELNDF 2-187A8	4,8x0,8	5,0	6,4	20,0	10,5	4,9	2,3	10 x 100	✓
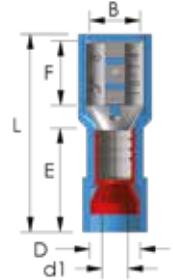
Nylon female disconnectors - Standard
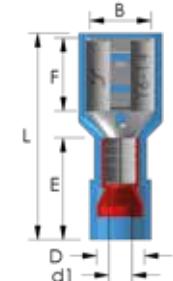
Wire range	Part nr.	tab	B	F	L	E	D	d1	Packed	UL
22~16 AWG	ELNDF 1.25-110A5	2,8x0,5	3,2	6,4	19,5	10,5	4,2	1,7	10 x 100	✓
0,5~1,5 mm²	ELNDF 1.25-110A8	2,8x0,8	3,2	6,4	19,5	10,5	4,2	1,7	10 x 100	✓

Nylon female disconnectors - Easy Entry copper sleeve

nylon | electro tin plated | brass | operating temperature -40°C~105°C | 300V max | red: 10A blue: 15A yell.: 24A max | RoHS compliant | halogen free

Wire range	Part nr.	tab	B	F	L	E	D	d1	Packed	UL
22~16 AWG	ELNDDF 1.25-187A5	4,8x0,5	5,0	6,4	20,0	10,5	4,2	1,7	10 x 100	✓
0,5~1,5 mm²	ELNDDF 1.25-187A8	4,8x0,8	5,0	6,4	20,0	10,5	4,2	1,7	10 x 100	✓
16~14 AWG	ELNDDF 2-187A5	4,8x0,5	5,0	6,4	20,0	10,5	4,9	2,3	10 x 100	✓
1,5~2,5 mm²	ELNDDF 2-187A8	4,8x0,8	5,0	6,4	20,0	10,5	4,9	2,3	10 x 100	✓

Nylon female disconnectors - Easy Entry copper sleeve

nylon | electro tin plated | brass | operating temperature -40°C~105°C | 300V max | red: 10A blue: 15A yell.: 24A max | RoHS compliant | halogen free

Wire range	Part nr.	tab	B	F	L	E	D	d1	Packed	UL
22~16 AWG	ELNDDF 1.25-110A5	2,8x0,5	3,2	6,4	19,5	10,5	4,2	1,7	10 x 100	✓
0,5~1,5 mm²	ELNDDF 1.25-110A8	2,8x0,8	3,2	6,4	19,5	10,5	4,2	1,7	10 x 100	✓
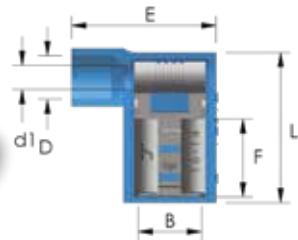
Nylon Flag Terminals - Standard

Wire range	Part nr.	tab	B	F	L	D	d1	Packed	UL
22~16 AWG 0,5~1,5 mm²	ELNDFF 1.25-187A5	4,8x0,5	5,0	7,0	15,0	4,5	1,6	10 x 100	
	ELNDFF 1.25-187A8	4,8x0,8	5,0	7,0	15,0	4,5	1,6	10 x 100	
	ELNDFF 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 mm²	ELNDFF 2-187A8	4,8x0,8	5,0	7,0	15,2	5,0	2,1	10 x 100	
	ELNDFF 2-250A	6,3x0,8	6,6	7,2	16,0	5,0	2,3	10 x 100	

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

Tools for insulated flag terminals

Die set
For quick interchangeable ratchet tools MHQIBE, HJ56I or HJ43I (separately available)
See our Tools section (page 306-311) for the complete program

DSQIA4
For insulated flag terminals
0,5-1,0/1,5-2,5 mm²

MHQIBE
(separetely available)
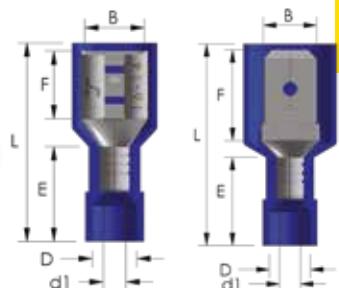
Nylon female & male disconnectors - Standard
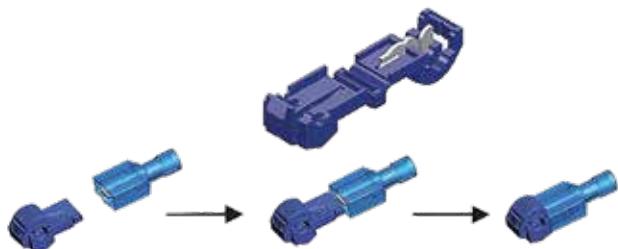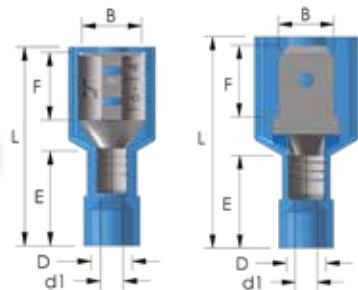
| Wire range	Part nr.	tab	B	F	L	E	D	d1	Packed	UL
22~16 AWG 0,5~1,5 mm²	ELNDF 1.25-250A	6,3x0,8	6,6	7,2	21,6	10,3	4,0	1,7	10 x 100	
16~14 AWG 1,5~2,5 mm²	ELNDF 2-250A	6,3x0,8	6,6	7,2	21,6	10,6	4,5	2,3	10 x 100	
12~10 AWG 4~6 mm²	ELNDF 5.5-250A	6,3x0,8	6,6	7,2	22,3	12,1	6,3	3,4	10 x 100	
22~16 AWG 0,5~1,5 mm²	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 mm²	ELNDM 2-250	6,3x0,8	6,3	7,6	23,5	10,5	4,5	2,3	10 x 100	
12~10 AWG 4~6 mm²	ELNDM 5.5-250	6,3x0,8	6,3	7,6	26,0	12,8	6,5	3,4	10 x 100	

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Nylon female & male disconnectors - Standard

nylon | electro tin plated | brass | operating temperature -40°C~105°C | 300V max | red: 10A blue: 15A yell.: 24A max | RoHS compliant | halogen free
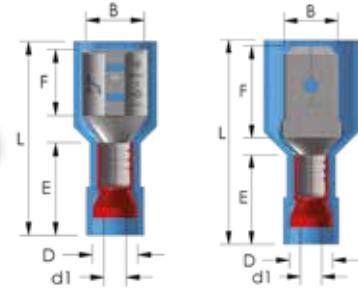
• Male is counterpart for: 999-1 / 999-5 / 999-3
on page 208
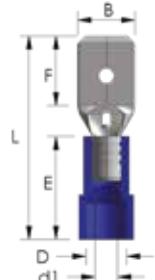
Wire range	Part nr.	tab	B	F	L	E	D	d1	Packed	UL
22~16 AWG 0,5~1,5 mm²	481638 (female)	6,3x0,8	6,6	7,9	22,0	11,5	4,0	1,7	10 x 100	✓
16~14 AWG 1,5~2,5 mm²	485638 (female)	6,3x0,8	6,6	7,9	22,0	11,5	4,5	2,3	10 x 100	✓
12~10 AWG 4~6 mm²	489638 (female)	6,3x0,8	6,6	7,9	24,0	12,5	6,5	3,4	10 x 100	✓
22~16 AWG 0,5~1,5 mm²	281638 (male)	6,3x0,8	6,3	7,9	24,0	10,5	4,0	1,7	10 x 100	✓
16~14 AWG 1,5~2,5 mm²	285638 (male)	6,3x0,8	6,3	7,9	24,0	10,5	4,5	2,3	10 x 100	✓
12~10 AWG 4~6 mm²	289638 (male)	6,3x0,8	6,3	7,9	26,5	12,5	6,5	3,4	10 x 100	✓

# Nylon female & male disconnectors - Easy Entry copper sleeve

nylon | electro tin plated | brass | operating temperature -40°C~105°C | 300V max | red: 10A blue: 15A yell.: 24A max | RoHS compliant | halogen free
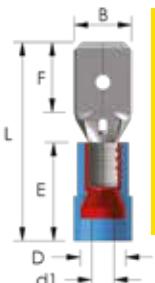
Wire range	Part nr.	tab	B	F	L	E	D	d1	Packed	UL
22~16 AWG 0,5~1,5 mm²	ELNDDF 1.25-250A	6,3x0,8	6,6	7,2	21,2	11,0	4,0	1,7	10 x 100	
16~14 AWG 1,5~2,5 mm²	ELNDDF 2-250A	6,3x0,8	6,6	7,2	21,5	11,0	5,0	2,3	10 x 100	
12~10 AWG 4~6 mm²	ELNDDF 5.5-250A	6,3x0,8	6,6	7,2	24,2	13,0	6,5	3,4	10 x 100	
22~16 AWG 0,5~1,5 mm²	ELNDDM 1.25-250A	6,3x0,8	6,4	7,9	23,5	10,5	4,2	1,7	10 x 100	✓
16~14 AWG 1,5~2,5 mm²	ELNDDM 2-250	6,3x0,8	6,4	7,9	23,5	10,5	4,9	2,3	10 x 100	✓
12~10 AWG 4~6 mm²	ELNDDM 5.5-250A	6,3x0,8	6,4	7,9	27,0	13,0	6,5	3,4	10 x 100	✓

Nylon male disconnectors - Standard

Wire range	Part nr.	tab	B	F	L	E	D	d1	Packed	UL
22~16 AWG 0,5~1,5 mm²	EFNDM 1.25-110A5	2,8x0,5	2,8	7,6	19,4	10,7	3,9	1,7	10 x 100	
	EFNDM 1.25-110A8	2,8x0,8	2,8	6,6	19,4	10,7	3,9	1,7	10 x 100	
	EFNDM 1.25-187A5	4,8x0,5	4,8	7,6	19,9	10,7	3,9	1,7	10 x 100	
	EFNDM 1.25-187A8	4,8x0,8	4,8	6,6	19,9	10,7	3,9	1,7	10 x 100	
	EFNDM 125-250	6,3x0,8	6,3	7,6	21,7	10,7	3,9	1,7	10 x 100	
16~14 AWG 1,5~2,5 mm²	EFNDM 2-110A5	2,8x0,5	2,8	7,6	19,4	10,7	4,5	2,3	10 x 100	
	EFNDM 2-110A8	2,8x0,8	2,8	6,6	19,4	10,7	4,5	2,3	10 x 100	
	EFNDM 2-187A5	4,8x0,5	4,8	7,6	19,9	10,7	4,5	2,3	10 x 100	
	EFNDM 2-187A8	4,8x0,8	4,8	6,6	19,9	10,7	4,5	2,3	10 x 100	
	EFNDM 2-250	6,3x0,8	6,3	7,6	21,7	10,7	4,5	2,3	10 x 100	
12~10 AWG 4~6 mm²	EFNDM 5.5-250	6,3x0,8	6,3	7,6	24,0	12,7	6,4	3,4	10 x 100	
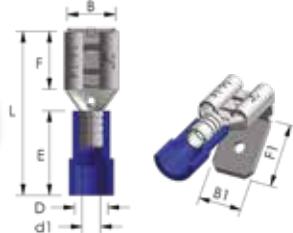
Nylon male disconnectors - Easy Entry copper sleeve

Wire range	Part nr.	tab	B	F	L	E	D	d1	Packed	UL
22~16 AWG 0,5~1,5 mm²	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 mm²	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 4~6 mm²	EFNDDM 5.5-250	6,3x0,8	6,3	7,6	24,0	12,7	6,2	3,4	10 x 100	✓
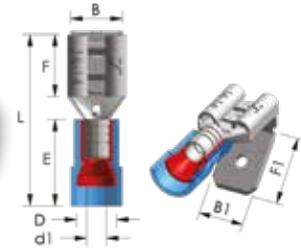
INSULATED TERMINALS

Nylon piggy back disconnectors - Standard
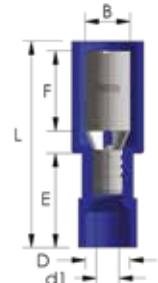
Wire range	Part nr.	tab	B	B1	F	F1	L	E	D	d1	Packed	UL
22~16 AWG 0,5~1,5 mm²	EFNDFM 1.25-250A	6,3x0,8	6,7	6,4	8,0	8,2	22,0	10,7	3,9	1,7	10 x 100	
16~14 AWG 1,5~2,5 mm²	EFNDFM 2-250B	6,3x0,8	6,7	6,4	8,0	8,2	22,0	10,7	4,5	2,3	10 x 100	
12~10 AWG 4~6 mm²	EFNDFM 5.5-250A	6,3x0,8	6,7	6,4	8,0	8,2	25,2	12,7	6,4	3,4	10 x 100	

Nylon piggy back disconnectors - Easy Entry copper sleeve
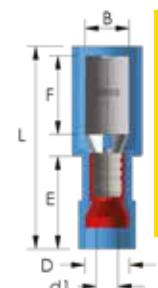
Wire range	Part nr.	tab	B	B1	F	F1	L	E	D	d1	Packed	UL
22~16 AWG 0,5~1,5 mm²	EFNDDFM 1.25-250A	6,3x0,8	6,6	6,4	8,0	8,2	22,0	10,7	3,8	1,7	10 x 100	✓
16~14 AWG 1,5~2,5 mm²	EFNDDFM 2-250B	6,3x0,8	6,6	6,4	8,0	8,2	22,0	10,7	4,7	2,3	10 x 100	✓
12~10 AWG 4~6 mm²	EFNDDFM 5.5-250A	6,3x0,8	6,6	6,4	8,0	8,2	25,2	12,7	6,2	3,4	10 x 100	✓

Nylon female bullet disconnectors - Standard

Wire range	Part nr.	B	F	L	E	D	d1	Packed	UL
22~16 AWG 0,5~1,5 mm²	ECNGF 1.25-5	4,0	9,0	25,2	11,0	4,2	1,7	10 x 100	
16~14 AWG	ECNGF 2-5	4,0	9,0	25,2	11,0	4,9	2,3	10 x 100	
1,5~2,5 mm²	ECNGF 2-7	5,0	9,0	23,0	10,5	4,9	2,3	10 x 100	
12~10 AWG 4~6 mm²	ECNGF 5.5-7	5,0	9,0	25,5	13,0	6,5	3,4	10 x 100	
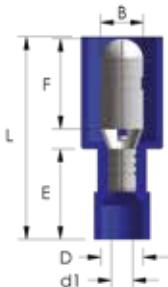
Nylon female bullet disconnectors - Easy Entry copper sleeve
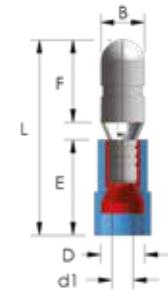
Wire range	Part nr.	B	F	L	E	D	d1	Packed	UL
22~16 AWG 0,5~1,5 mm²	ECNDGF 1.25-5	3,9	7,3	23,3	9,6	3,8	1,7	10 x 100	
16~14 AWG	ECNDGF 2-5	3,9	7,3	23,3	9,6	4,7	2,3	10 x 100	
1,5~2,5 mm²	ECNDGF 2-7	5,0	9,0	23,0	10,5	4,9	2,3	10 x 100	✔
12~10 AWG 4~6 mm²	ECNDGF 5.5-7	5,0	9,0	25,2	13,0	6,5	3,4	10 x 100	✔

Nylon male bullet disconnectors - Standard

nylon | electro tin plated | brass | operating temperature -40°C~105°C | 300V max | red: 10A blue: 15A yell.: 24A max | RoHS compliant | halogen free
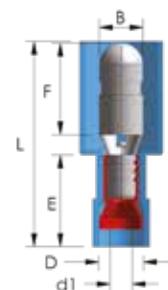
Wire range	Part nr.	B	F	L	E	D	d1	Packed	UL
22~16 AWG 0,5~1,5 mm²	ELNGM 1.25-5	4,0	10,5	26,5	10,0	4,2	1,7	10 x 100	
16~14 AWG	ELNGM 2-5	4,0	10,5	26,5	10,0	4,9	2,3	10 x 100	
1,5~2,5 mm²	ELNGM 2-7	5,0	10,0	23,5	10,5	4,9	2,3	10 x 100	
12~10 AWG 4~6 mm²	ELNGM 5.5-7	5,0	10,0	26,0	13,0	6,5	3,4	10 x 100	

Nylon male bullet disconnectors - Easy Entry copper sleeve

nylon | electro tin plated | brass | operating temperature -40°C~105°C | 300V max | red: 10A blue: 15A yell.: 24A max | RoHS compliant | halogen free

Wire range	Part nr.	B	F	L	E	D	d1	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	10 x 100	✔
16~14 AWG	EFNDGM 2-5	4,0	9,0	22,0	10,7	4,7	2,3	10 x 100	✔
1,5~2,5 mm²	EFNDGM 2-7	5,0	9,0	22,0	10,7	4,7	2,3	10 x 100	✔
12~10 AWG 4~6 mm²	EFNDGM 5.5-7	5,0	9,0	25,2	12,7	6,2	3,4	10 x 100	✔
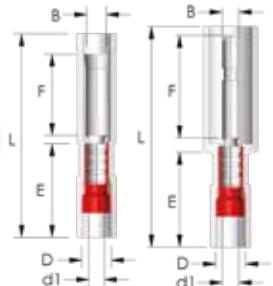
Nylon male bullet disconnectors - Easy Entry copper sleeve

nylon | electro tin plated | brass | operating temperature -40°C~105°C | 300V max | red: 10A blue: 15A yell.: 24A max | RoHS compliant | halogen free

Wire range	Part nr.	B	F	L	E	D	d1	Packed	UL
22~16 AWG 0,5~1,5 mm²	ELNDGM 1.25-5	4,0	9,0	26,2	10,7	3,8	1,7	10 x 100	
16~14 AWG	ELNDGM 2-5	4,0	9,0	26,2	10,7	4,7	2,3	10 x 100	
1,5~2,5 mm²	ELNDGM 2-7	5,0	10,0	23,5	10,5	4,9	2,3	10 x 100	✔
12~10 AWG 4~6 mm²	ELNDGM 5.5-7	5,0	10,0	26,0	13,0	6,5	3,4	10 x 100	✔

Nylon female & male bullet disconnectors - Straight copper sleeve

Wire range	Part nr.	B	F	L	E	D	d1	Packed	UL
22~18 AWG	BCNDGF 0.5-2	2,0	10,0	24,0	11,0	3,5	1,6	10 x 100	✓
0,5~0,75 mm²	BLNDGM 0.5-2	2,0	12,3	26,5	11,0	3,5	1,6	10 x 100	✓

Nylon closed end connectors

Wire range	Part nr.	B	F	L	d	Packed	UL
22~16 AWG 0,5~1,5 mm²	RB 1-SD	4,8	6,9	19,3	2,8	10 x 100	
16~14 AWG 1,5~2,5 mm²	RB 2-SD	5,5	6,9	19,8	3,3	10 x 100	
12~10 AWG 4~6 mm²	RB 5.5-SD	7,5	7,5	25,5	4,5	10 x 100	
8 AWG 8 mm²	B 8-SD	9,3	8,5	27,8	5,3	10 x 100	

INSULATED TERMINALS

Die set
For quick interchangeable ratchet tools MHQIBE, HJ56I or HJ43I (separately available)
See our Tools section (page 306-311) for the complete program

DSQIA5
For heat shrink & closed end terminals
0,5-1,0/1,5-2,5/4,0-6,0 mm²

MHQIBE
(separetely available)

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

Tools for closed end terminals

Tools for PVC and nylon insulated terminals

BN-03C
Crimping tool for insulated terminals
0,5~6,0 mm²

KH-502
Multi-tool for insulated terminals
0,5~6,0 mm²
Stripping 0,75~6,0 mm²

KH-507
Multi-tool for insulated and
non-insulated terminals
0,5~6,0 mm²
Stripping 0,75~6,0 mm²

MEB-700C
Multi-tool for insulated and
open barrel terminals
0,5~6,0 mm²
Stripping 0,75~6,0 mm²
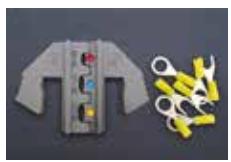
DSQIA
For insulated terminals
0,5~6,0 mm²

DSQIA2
For fully insulated female
disconnectors
0,5~6,0 mm²
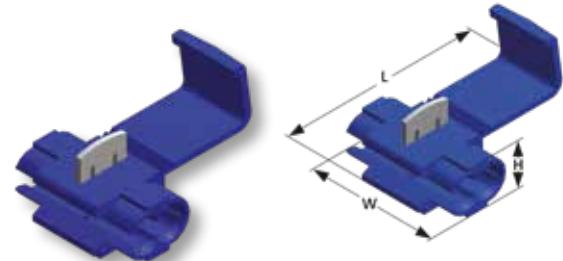
DSQIA3
For miniature insulated
terminals
0,1~1,5 mm²

MHQIBE
(separetely available)

INSULATED
TERMINALS

Quick splice connectors - Single tab

Wire range	Part nr.		W	H	L	Packed	UL
22~18 AWG 0,5~1,0 mm²	CL 1.0-TA		20,0	8,0	26,8	100	✔
18~14 AWG 1,0~2,5 mm²	CL 2.5-TALB		20,0	8,0	26,8	100	✔
18~14 AWG 1,0~2,5 mm²	CL 2.5-TAW		20,0	8,0	26,8	100	✔
12~10 AWG 4~6 mm²	CL 5.5-TA		20,0	11,0	35,0	50	✔
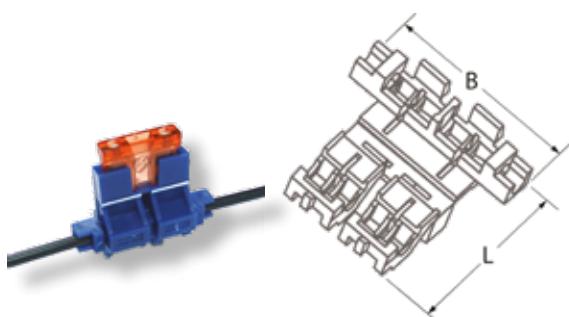
Quick splice connectors - Double tab

Wire range	Part nr.		W	L	Packed	UL
22~18 AWG 0,5~1,0 mm²	OWE 1.25		19,4	33,0	100	
18~16 AWG 0,75~1,5 mm²	OWE 1.5		19,4	33,0	100	
18~14 AWG 1,0~2,5 mm²	OWE 2		19,4	33,0	100	
18~14/12~10 AWG 0,75~2,5/4~6 mm²	OWE 4.0		21,1	33,5	100	

Quick splice connectors - Fuse holder

poly-propylene (PP) · electro tin plated · brass · 105°C max · 600V max · RoHS compliant
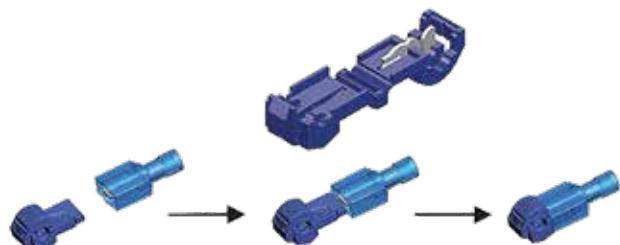
Wire range	Part nr.	B	L	Packed	UL
22~18 AWG 0,5~1,0 mm^2	CL 1.0-FUSE	36	31	100	
18~14 AWG 0,75~2,5 mm^2	CL 2.5-FUSE	35,0	34,0	200	

Quick splice connectors - T-tap

nylon · electro tin plated · brass · 105°C max · 300V max · RoHS compliant

• Counterpart for:
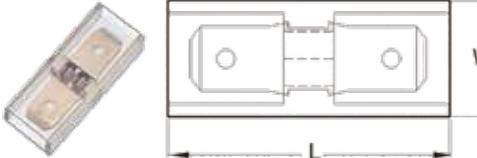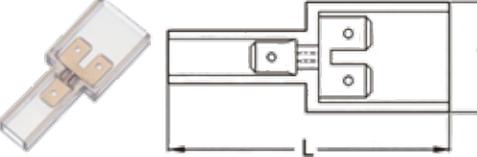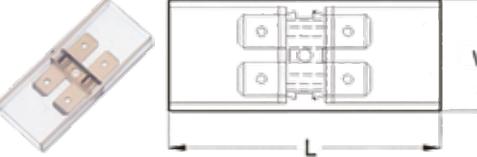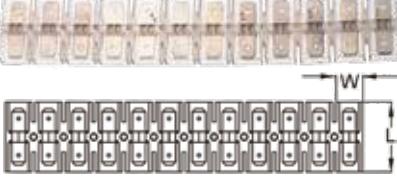
Wire range	Part nr.		W	L	Packed	UL
22~18 AWG 0,5~1,0 mm^2	999-1		9,5	38,0	10 x 100	✓
18~14 AWG 1,0~2,5 mm^2	999-5		9,5	38,0	10 x 100	✓
12 AWG 4 mm^2	999-3		9,5	38,0	10 x 100	✓

Line splice connectors

• RoHS and REACH compliant
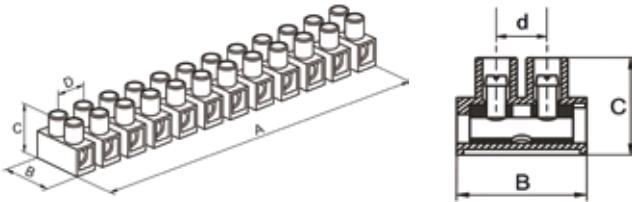
Part nr.	tab	W	L		Packed	UL
401/1	6,3	11,5	27,8		500	
405/3	6,3	21,0	54,0		100	
405/4	6,3	20,5	50,0		100	
401/12*	6,3	11,8	25,8		20	

* Part nr. 401/12:
Insulation material polypropylene (PP)
Max. temperature 105 °C

INSULATED TERMINALS

Terminal blocks - 12 Poles

• Material: Nylon
• Insert: Brass
• Screws: Galvanized iron
• Color: Natural or black (standard)
• Quality assurance: CE/96/EC
• Applicable standard: EN 60998-1: 2004 & EN 60988-2-1: 2004
• PA 6.6:   Flame retardant to UL 94 Class V-2, solvent resistant, good bounce impact force
• Operating temperature: -35 °C ~ 120 °C

Part nr.	Wire range mm²	Color	Screw	A	B	C	D	d	Rating	Packed
KSPA-3WH	2,5~4,0	white	M2,5	95,3	17,5	13,0	8,0	6,0	3A / 380V	10
KSPA-3BL	2,5~4,0	black	M2,5	95,3	17,5	13,0	8,0	6,0	3A / 380V	10
KSPA-4WH	4,0~6,0	white	M3,0	117,4	19,0	15,5	10,0	6,3	6A / 380V	10
KSPA-4BL	4,0~6,0	black	M3,0	117,4	19,0	15,5	10,0	6,3	6A / 380V	10
KSPA-5WH	6,0~10,0	white	M3,0	132,6	21,2	16,6	11,0	7,0	10A / 380V	10
KSPA-5BL	6,0~10,0	black	M3,0	132,6	21,2	16,6	11,0	7,0	10A / 380V	10
KSPA-6WH	10,0~12,0	white	M3,5	142,0	23,2	19,0	11,8	8,5	15A / 380V	10
KSPA-6BL	10,0~12,0	black	M3,5	142,0	23,2	19,0	11,8	8,5	15A / 380V	10
KSPA-8WH	12,0~14,0	white	M4,0	141,5	23,4	20,4	12,2	9,4	20A / 380V	10
KSPA-8BL	12,0~14,0	black	M4,0	141,5	23,4	20,4	12,2	9,4	20A / 380V	10
KSPA-9WH	16,0	white	M4,0	169,0	26,1	20,5	14,2	9,3	30A / 380V	10
KSPA-9BL	16,0	black	M4,0	169,0	26,1	20,5	14,2	9,3	30A / 380V	10
KSPA-10WH	25,0	white	M4,0	192,0	30,0	26,0	16,2	11,0	60A / 380V	10
KSPA-10BL	25,0	black	M4,0	192,0	30,0	26,0	16,2	11,0	60A / 380V	10
KSPA-12WH	35,0	white	M5,0	233,5	37,0	29,8	20,0	13,8	80A / 400V	10
KSPA-12BL	35,0	black	M5,0	233,5	37,0	29,8	20,0	13,8	80A / 400V	10
KSPA-15WH	40,0	white	M6,0	262,0	46,1	35,7	22,5	20,5	100A / 450V	10
KSPA-15BL	40,0	black	M6,0	262,0	46,1	35,7	22,5	20,5	100A / 450V	10

Waterproof - Heat shrink terminals

Our industrial grade heat shrink terminals are produced with a highly transparant nylon tubing, with adhesive lining for protecttion of splices from water and corrosion.

Heat shrink ring terminals

polyamide adhesive · electro tin plated · copper · operating temperature -55°C~125°C · min. shrink temperature 180° C · 600V max · RoHS compliant · waterproof

Wire range	Part nr.	d2	B	L	E	D	d1	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	✔
	HS 2-12	12,5	19,2	38,0	21,0	5,8	2,3	100	✔
12~10 AWG 4~6 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

polyamide adhesive · electro tin plated · copper · operating temperature -55°C~125°C · min. shrink temperature 180° C · 600V max · RoHS compliant · waterproof

Wire range	Part nr.	d2	B	L	E	D	d1	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	
	HS 2-12DIN	13,0	18,0	42,0	21,0	5,8	2,3	100	
12~10 AWG 4~6 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	

INSULATED TERMINALS

Heat shrink spade terminals
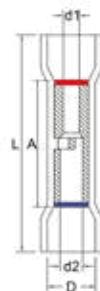
polyamide adhesive · electro tin plated · copper · operating temperature -55°C~125°C · min. shrink temperature 180° C · 600V max · RoHS compliant · waterproof

Wire range	Part nr.	d2	B	L	E	D	d1	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	✔
4~6 mm²	HS 5.5-5A	5,3	9,0	34,0	25,0	6,8	3,4	100	✔

Heat shrink butt connectors

polyamide adhesive · electro tin plated · copper · operating temperature -55°C~125°C · min. shrink temperature 180° C · 600V max · RoHS compliant · waterproof

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

Heat shrink step down butt connectors

polyamide adhesive · electro tin plated · copper · operating temperature -55°C~125°C · min. shrink temperature 180° C · 600V max · RoHS compliant · waterproof

Wire range	Part nr.	Color code	L	A	D	d1	d2	Packed	UL
26~24 to 22~18 AWG 0,25~0,5 to 0,5~1,5 mm²	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 mm²	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 4~6 mm²	SDC 1.5-6.0	blue to yellow	45	21	9,0	2,3	3,4	100	✔
12~10 to 8 AWG 4~6 to 10 mm²	SDC 6.0-10	yellow to red	45	21	11,6	3,4	4,5	100	✔

Heat shrink female disconnectors

polyamide adhesive · electro tin plated · brass · operating temperature -55°C~125°C · min. shrink temperature 180° C · 600V max · RoHS compliant · waterproof
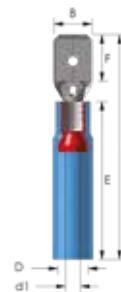
Wire range	Part nr.	tab	B	L	E	D	d1	Packed	UL
22~18 AWG	HSFH 1.25-187A8	4,8x0,8	5,2	30,0	21,0	4,8	1,7	100	✓
0,5~1,5 mm²	HSFH 1.25-250A	6,3x0,8	6,6	30,0	21,0	4,8	1,7	100	✓
16~14 AWG	HSFH 2-187A8	4,8x0,8	5,2	30,0	21,0	5,8	2,3	100	✓
1,5~2,5 mm²	HSFH 2-250A	6,3x0,8	6,6	30,0	21,0	5,8	2,3	100	✓
12~10 AWG 4~6 mm²	HSFH 5.5-250A	6,3x0,8	6,6	32,0	25,0	6,8	3,4	100	✓

Heat shrink female disconnectors

polyamide adhesive · electro tin plated · brass · operating temperature -55°C~125°C · min. shrink temperature 180° C · 600V max · RoHS compliant · waterproof

Wire range	Part nr.	tab	B	L	E	D	d1	Packed	UL
22~18 AWG	HSF 1.25-187A8	4,8x0,8	5,2	30,0	21,0	4,8	1,7	100	✓
0,5~1,5 mm²	HSF 1.25-250A	6,3x0,8	6,6	30,0	21,0	7,0	1,7	100	✓
16~14 AWG	HSF 2-187A8	4,8x0,8	5,2	30,0	21,0	5,8	2,3	100	✓
1,5~2,5 mm²	HSF 2-250A	6,3x0,8	6,6	30,0	21,0	7,0	2,3	100	✓
12-10 AWG 4-6 mm²	HSF 5.5-250A	6,3x0,8	6,6	32,0	25,0	7,0	3,4	100	✓
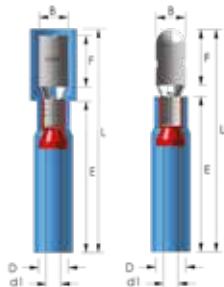
Heat shrink male disconnectors

polyamide adhesive · electro tin plated · brass · operating temperature -55°C~125°C · shrink temperature 60°C~100°C · 600V max · RoHS compliant · waterproof

Wire range	Part nr.	tab	B	L	E	D	d1	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 4~6 mm²	HSM 5.5-250	6,3x0,8	6,3	35,0	25,0	6,8	3,4	100	✓

INSULATED TERMINALS

Heat shrink female & male bullet disconnectors

polyamide adhesive | electro tin plated | brass | operating temperature -55°C~125°C | min. shrink temperature 180° C | 600V max | RoHS compliant | waterproof

Wire range	Part nr.	B	L	E	D	d1	Packed	UL
22~16 AWG	HSCF 1.25-5	4,0	32,0	21,0	4,8	1,7	100	✓
0,5~1,5 mm²	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 mm²	HSGM 2-5	4,0	31,0	21,0	5,8	2,3	100	✓

HJ600135BC-A1
398 pcs heat shrink terminals incl. tool and 2 die sets

Professional kit

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

Heat shrink terminals assortment

Heat shrink terminals/solder sleeves assortment

AD-015
120 pcs heat shrink terminals/ 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

Heat shrink butt connectors - Duraseal

polyamide adhesive | electro tin plated | copper | operating temperature -55°C~125°C | shrink temp. > 150°C | 600V max | RoHS compliant | waterproof

Wire range	Part nr.	F	L	D	d	Packed	UL
20~18 AWG 1,0~1,5 mm²	D406-0001	15,0	31,5	3,7	1,5	100	✓
16~14 AWG 1,5~2,5 mm²	D406-0002	15,0	31,5	4,6	2,3	100	✓
12~10 AWG 4~6 mm²	D406-0003	15,0	37,5	6,5	3,5	100	✓

Tools for heat shrink terminals

MJ-600
Flameless heatgun*

MJ-300
Heatgun*
with micro-flame

90-51773
Universal lighter gas (butane)
200 ml

* Heatguns are supplied
with **empty** lighter

INSULATED TERMINALS

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

Die sets
For quick interchangeable ratchet tools MHQIBE, HJ56I or HJ43I (separately available)
See our Tools section (page 306-311) for the complete program

DSQIA1
For heat shrink butt connectors
0,5~6,0 mm2
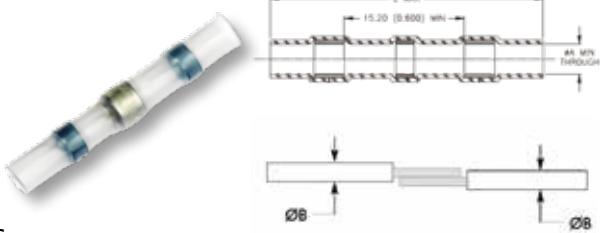
DSQIA5
For heat shrink and closed end terminals
0,5~6,0 mm²

MHQIBE
(separetely available)

205
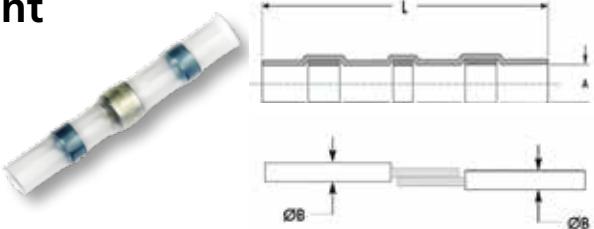
Solder butt connectors

- For tin plated or bare copper stranded wires, rated for at least 85 °C
- Material: Polyolefin tubing with thermoplastic, color coded, adhesive rings
- Shrink ratio: 3:1
- Solder preform: With Flux
- Volume resistivity: < equal length of wire
- Dielectric strength (kV/mm): 20
- Voltage drop: 2mV

Wire range	Part nr.	L	Ø A	Ø B min	Ø B max	Packed	UL
22~18 AWG 0,3~0,8 mm²	CWT-9001	26	1,7	0,4	1,7	100	✓
18~14 AWG 0,8~2,0 mm²	CWT-9002	42	2,7	1,3	2,7	100	✓
14~12 AWG 2,0~4,0 mm²	CWT-9003	42	4,5	1,8	4,5	100	✓
12~10 AWG 4~6 mm²	CWT-9004	42	6,0	2,8	6,0	100	✓
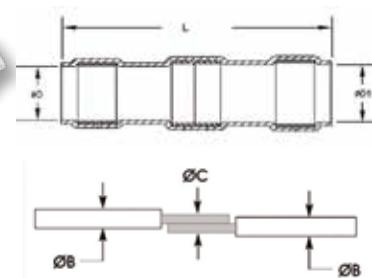
Solder Butt Connectors - RoHS compliant

- For tin plated or bare copper stranded wires, rated for at least 85 °C
- Material: Polyolefin tubing with thermoplastic, color coded, adhesive rings
- Shrink ratio: 3:1
- Solder preform: With Flux
- Volume resistivity: < equal length of wire
- Dielectric strength (kV/mm): 20
- Voltage drop: 2mV
- Lead free, RoHS compliant

Wire range	Part nr.	L	Ø A	Ø B min	Ø B max	Packed	UL
22~18 AWG 0,3~0,8 mm²	ROHSWT-9001	26	1,7	0,4	1,7	100	
18~14 AWG 0,8~2,0 mm²	ROHSWT-9002	42	2,7	1,3	2,7	100	
14~12 AWG 2,0~4,0 mm²	ROHSWT-9003	42	4,5	1,8	4,5	100	
12~10 AWG 4~6 mm²	ROHSWT-9004	42	6,0	2,8	6,0	100	
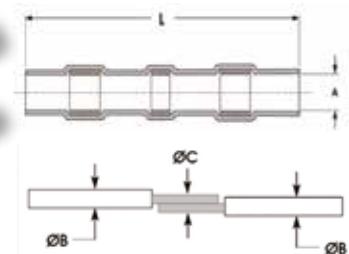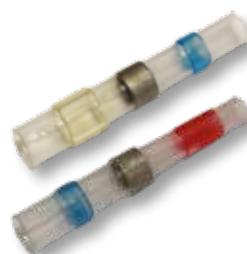
Solder butt connectors - Duo flux

- For tin plated or bare copper stranded wires, rated for at least 85 °C
- Material: Polylefin tubing with thermoplastic, color coded, adhesive rings
- Shrink ratio: 3:1
- Solder preform: With Flux
- Volume resistivity: < equal length of wire
- Dielectric strength (kV/mm): > 20
- Voltage resistant: < 2mV

Wire range	Part nr.	L	Ø A	Ø B min	Ø B max Ø C max	Ø C min	Packed	UL
21~17 AWG 0,4~1,0 mm²	DCWT-9002	31	2,3	1,5	2,3	1,8	50	
17~14 AWG 1,0~2,5 mm²	DCWT-9003	36	4,3	2,0	4,3	2,3	50	
12~10 AWG 3~5 mm²	DCWT-9004	42	6,8	3,4	6,8	3,7	50	

Solder butt connectors - Step down

- Material: Heat shrinkable polyolefin
                               tubing with thermoplastic, color coded, adhesive rings
- Solder preform: With Flux
- Volume resistivity (Ω/cm):   ≥ 10^{15}
- Dielectric strength (kV/mm): ≥ 25
- Voltage resistant: > 600V
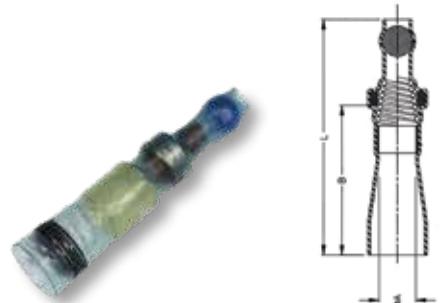
Wire range	Part nr.	Color code	L	Ø A	Ø B min	Ø B max Ø C max	Ø C min	Packed	UL
22~14 AWG 0,5~2,5 mm²	CWT-9003 SD-2	blue to red	40	4,5	1,3	4,5	1,2	100	
22~14 AWG 0,5~2,5 mm²	CWT-9003 SD	yellow to blue	40	4,5	1,3	4,5	1,2	100	

INSULATED TERMINALS

Solder grip end connectors

- Material: Heat shrinkable thermoplastic (PVDF) tubing
- Shrink ratio 3:1
- 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
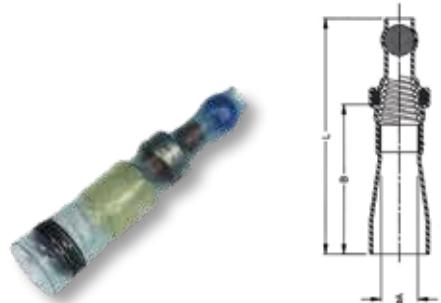
Wire range	Part nr.	L	Ø A	B	Max bundle Ø	Packed	UL
19~13 AWG 0,7~2,4 mm	SGRS-1	38,3	3,6	26,0	3,3	100	
14~12 AWG 2,0~4,0 mm	SGRS-2	37,7	5,0	23,5	4,5	100	
12~8 AWG 3,5~8,0 mm	SGRS-3	45,5	7,5	26,5	7,0	100	
8~6 AWG 7,5~12,0 mm	SGRS-4	45,0	9,4	25,5	9,0	100	

Solder grip end connectors - RoHS compliant

- Material: Heat shrinkable, thermoplastic (PVDF) tubing
- Shrink ratio 3:1
- 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
- Lead free, RoHS compliant

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

AE INDUSTRIES

Heat shrink terminals/solder sleeves assortments

AD-015
**120 pcs heat shrink terminals/
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-050
200 pcs solder sleeves

50 x CWT-9001
50 x CWT-9002
50 x CWT-9003
50 x CWT-9004

AD-051
400 pcs solder sleeves

100 x CWT-9001
100 x CWT-9002
100 x CWT-9003
100 x CWT-9004

INSULATED
TERMINALS

Tools for solder sleeves

MJ-600
Flameless heatgun*

90-51773
Universal lighter gas (butane)
200 ml
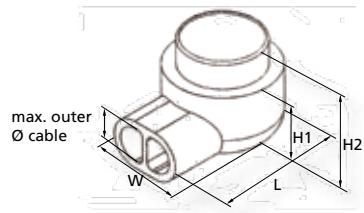
MJ-300
Heatgun*
with micro-flame

* Heatguns are supplied
with **empty** lighter

Waterproof - Gel-filled splice connectors

• **Suitable for 2,5~7,5V AC or DC**
• **EU approved**
• **Silicone gel RoHS compliant**

max. outer Ø cable

Wire range	Part nr.	Description	W	L	H1	H2	Packed	UL
26~21 AWG 0,4~0,7 mm²	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 mm²	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 mm²	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 mm²	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 mm²	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 mm²	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	

INSULATED TERMINALS

Plugs & Sockets

Lighting

Vehicle Markers

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
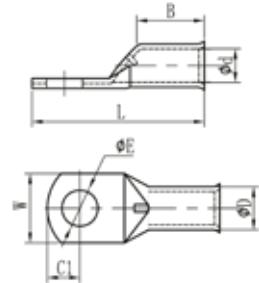
Tools

Assortment Kits

Non-insulated GC tube terminals

electro tin plated | copper | operating temperature -50°C~150°C | RoHS compliant

• With inspection hole
• RoHS compliant

Wire size	Part nr.	Ø E	W	L	B	D	d1	Packed	UL
22~16 AWG 0,5~1,5 mm²	GC 1.5-3*	3,2	8,0	16,0	6,0	3,7	1,8	100	✓
	GC 1.5-4*	4,3	8,0	17,0	6,0	3,7	1,8	100	✓
	GC 1.5-5*	5,3	10,0	19,0	7,0	3,7	1,8	100	✓
	GC 1.5-6*	6,5	10,0	20,0	7,0	3,7	1,8	100	✓
16~14 AWG 1,5~2,5 mm²	GC 2.5-3*	3,2	8,0	17,0	7,0	3,9	2,3	100	✓
	GC 2.5-4*	4,3	8,0	18,0	7,0	3,9	2,3	100	✓
	GC 2.5-5*	5,3	10,0	20,0	7,0	3,9	2,3	100	✓
	GC 2.5-6*	6,5	10,0	20,0	7,0	3,9	2,3	100	✓
	GC 2.5-8*	8,3	12,5	22,5	7,0	4,3	2,3	100	✓
12 AWG 4 mm²	GC 4-4*	4,3	10,0	21,0	8,0	4,7	3,0	100	✓
	GC 4-5*	5,3	10,0	22,0	8,0	4,7	3,0	100	✓
	GC 4-6*	6,5	10,0	23,0	8,0	4,7	3,0	100	✓
	GC 4-8*	8,3	12,5	24,0	8,0	4,7	3,0	100	✓
10 AWG 6 mm²	GC 6-4*	4,3	10,0	24,6	9,5	5,9	4,0	100	✓
	GC 6-5*	5,3	10,0	24,6	9,5	5,9	4,0	100	✓
	GC 6-6*	6,5	11,0	24,6	9,5	5,9	4,0	100	✓
	GC 6-8*	8,3	12,5	27,3	9,5	5,9	4,0	100	✓
	GC 6-10*	10,3	15,0	28,3	9,5	6,2	4,0	100	✓
8 AWG 10 mm²	GC 10-4	4,3	11,0	30,0	13,0	6,6	4,5	100	✓
	GC 10-5	5,3	11,0	30,0	13,0	6,6	4,5	100	✓
	GC 10-6	6,5	11,0	30,0	13,0	6,6	4,5	100	✓
	GC 10-8	8,3	12,5	30,0	13,0	6,6	4,5	100	✓
	GC 10-10	10,3	16,0	34,1	13,0	6,9	4,5	100	✓
	GC 10-12	12,7	18,0	34,1	12,0	6,9	4,5	100	✓
6 AWG 16 mm²	GC 16-5	5,3	11,0	30,7	14,0	7,5	5,5	100	✓
	GC 16-6	6,5	11,0	30,7	14,0	7,5	5,5	100	✓
	GC 16-8	8,3	12,5	30,7	13,0	7,5	5,5	100	✓
	GC 16-10	10,3	16,0	35,9	14,0	7,5	5,5	100	✓
	GC 16-12	12,7	18,0	35,9	13,0	8,1	5,5	100	✓
4 AWG 25 mm²	GC 25-5	5,3	13,0	32,2	13,0	9,1	6,7	100	✓
	GC 25-6	6,5	13,0	32,2	13,0	9,1	6,7	100	✓
	GC 25-8	8,3	13,0	32,2	13,0	9,1	6,7	100	✓
	GC 25-10	10,3	16,0	36,9	14,0	9,1	6,7	100	✓
	GC 25-12	12,7	18,0	36,9	13,0	9,1	6,7	100	✓
	GC 25-14	14,8	20,0	38,9	13,0	9,1	6,7	100	✓
2 AWG 35 mm²	GC 35-5	5,3	16,0	37,6	16,0	11,0	8,6	100	✓
	GC 35-6	6,5	16,0	37,6	16,0	11,0	8,6	100	✓
	GC 35-8	8,3	16,0	37,6	16,0	11,0	8,6	100	✓
	GC 35-10	10,3	16,7	41,5	16,0	11,0	8,6	100	✓
	GC 35-12	12,7	18,0	41,5	16,0	11,0	8,6	100	✓
	GC 35-14	14,8	20,0	43,5	16,0	11,0	8,6	100	✓
	GC 35-16	16,5	23,0	45,5	16,0	11,0	8,6	100	✓

* Not available with bell mouth, only with straight barrel
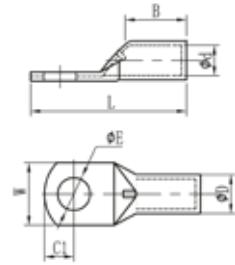
Wire size	Part nr.	Ø E	W	L	B	D	d1	Packed	UL
1/0 AWG 50 mm²	GC 50-5	5,3	18,0	41,0	17,0	12,4	9,5	100	✓
	GC 50-6	6,5	18,0	41,0	17,0	12,4	9,5	100	✓
	GC 50-8	8,3	18,0	41,0	17,0	12,4	9,5	100	✓
	GC 50-10	10,3	18,0	44,0	17,0	12,4	9,5	100	✓
	GC 50-12	12,7	19,0	44,0	17,0	12,4	9,5	100	✓
	GC 50-14	14,8	21,0	52,8	19,0	12,4	9,5	100	✓
	GC 50-16	16,5	23,0	52,8	19,0	12,4	9,5	100	✓
2/0 AWG 70 mm²	GC 70-5	5,3	22,5	52,4	21,5	15,0	12,0	50	✓
	GC 70-6	6,3	22,5	52,4	21,5	15,0	12,0	50	✓
	GC 70-8	8,3	22,5	52,4	21,5	15,0	12,0	50	✓
	GC 70-10	10,3	22,5	52,4	21,5	15,0	12,0	50	✓
	GC 70-12	12,7	22,5	52,4	21,5	15,0	12,0	50	✓
	GC 70-14	14,8	22,5	55,0	21,5	15,0	12,0	50	✓
	GC 70-16	16,5	24,0	55,0	20,0	15,0	12,0	50	✓
	GC 70-20	21,0	30,0	70,5	20,0	15,0	12,0	50	✓
3/0 AWG 95 mm²	GC 95-6	6,5	25,0	54,7	22,5	17,0	13,4	50	✓
	GC 95-8	8,3	25,0	54,7	22,5	17,0	13,4	50	✓
	GC 95-10	10,3	25,0	54,7	22,5	17,0	13,4	50	✓
	GC 95-12	12,7	25,0	54,7	22,5	17,0	13,4	50	✓
	GC 95-14	14,8	25,0	58,3	22,5	17,0	13,4	50	✓
	GC 95-16	16,8	25,0	58,3	22,5	17,0	13,4	50	✓
4/0 AWG 120 mm²	GC 120-8	8,3	27,0	60,0	23,0	19,0	15,0	30	✓
	GC 120-10	10,3	27,0	60,0	23,0	19,0	15,0	30	✓
	GC 120-12	12,7	27,0	60,0	23,0	19,0	15,0	30	✓
	GC 120-14	14,8	27,0	64,0	23,0	19,0	15,0	30	✓
	GC 120-16	16,5	27,0	64,0	23,0	19,0	15,0	30	✓
250/300 kcmil 150 mm²	GC 150-8	8,3	30,0	67,0	27,0	21,1	16,5	10	✓
	GC 150-10	10,3	30,0	67,0	27,0	21,2	16,5	10	✓
	GC 150-12	12,7	30,0	67,0	27,0	21,2	16,5	10	✓
	GC 150-14	14,8	30,0	67,0	27,0	21,2	16,5	10	✓
	GC 150-16	16,5	30,0	71,4	27,0	21,2	16,5	10	✓
	GC 150-20	20,9	30,0	71,4	27,0	21,2	16,5	10	✓
300/350 kcmil 185 mm²	GC 185-10	10,3	34,0	73,0	30,0	23,0	19,0	6	✓
	GC 185-12	12,7	34,0	73,0	30,0	23,0	19,0	6	✓
	GC 185-14	14,8	34,0	73,0	30,0	23,0	19,0	6	✓
	GC 185-16	16,5	34,0	76,2	30,0	23,0	19,0	6	✓
	GC 185-20	20,9	34,0	76,2	30,0	23,0	19,0	6	✓
400/450 kcmil 240 mm²	GC 240-10	10,3	38,0	91,4	38,0	26,5	21,0	5	✓
	GC 240-12	12,7	38,0	91,4	38,0	26,5	21,0	5	✓
	GC 240-14	14,8	38,0	91,4	38,0	26,5	21,0	5	✓
	GC 240-16	16,5	38,0	91,4	38,0	26,5	21,0	5	✓
	GC 240-20	20,9	38,0	91,4	38,0	26,5	21,0	5	✓
300 mm²	GC 300-12	12,7	43,0	98,0	42,0	30,0	24,5	4	✓
	GC 300-14	14,8	43,0	98,0	42,0	30,0	24,5	4	✓
	GC 300-16	16,5	43,0	98,0	42,0	30,0	24,5	4	✓
	GC 300-20	20,9	43,0	98,0	42,0	30,0	24,5	4	✓
400 mm²	GC 400-12	12,7	49,0	104,0	44,0	35,0	27,0	1	✓
	GC 400-14	14,8	49,0	104,0	44,0	35,0	27,0	1	✓
	GC 400-16	16,5	49,0	104,0	44,0	35,0	27,0	1	✓
	GC 400-20	20,9	49,0	104,0	44,0	35,0	27,0	1	✓

NON-INSULATED TERMINALS

Non-insulated GT tube terminals

• electro tin plated • copper • operating temperature -55°C~150°C • RoHS compliant

• With inspection hole
• RoHS compliant

Wire size	Part nr.	Ø E	W	L	B	D	d	Packed	UL
22~16 AWG 0,5~1,5 mm²	GT 1.5-3	3,2	8,7	19,0	7,0	4,0	2,4	100	
	GT 1.5-4	4,3	8,7	19,0	7,0	4,0	2,4	100	
	GT 1.5-5	5,3	8,7	19,0	7,0	4,0	2,4	100	
	GT 1.5-6	6,4	10,0	20,0	7,0	4,0	2,4	100	
16~14 AWG 1,5~2,5 mm²	GT 2.5-4	4,3	8,7	19,0	7,0	4,3	2,7	100	
	GT 2.5-5	5,3	8,7	19,0	7,0	4,3	2,7	100	
	GT 2.5-6	6,4	10,3	21,0	7,0	4,3	2,7	100	
	GT 2.5-8	8,3	12,0	23,0	7,0	4,3	2,7	100	
12 AWG 4 mm²	GT 4-4	4,3	8,7	21,5	9,5	4,8	3,1	100	
	GT 4-5	5,3	8,7	21,5	9,5	4,8	3,1	100	
	GT 4-6	6,4	10,3	23,5	9,5	4,8	3,1	100	
	GT 4-8	8,3	12,5	28,5	9,5	4,8	3,1	100	
10 AWG 6 mm²	GT 6-4	4,3	10,3	26,0	10,0	5,5	3,8	100	
	GT 6-5	5,3	10,3	26,0	10,0	5,5	3,8	100	
	GT 6-6	6,4	10,3	26,0	10,0	5,5	3,8	100	
	GT 6-8	8,3	13,9	29,0	10,0	5,5	3,8	100	
	GT 6-10	10,5	13,9	29,0	10,0	5,5	3,8	100	
8 AWG 10 mm²	GT 10-4	4,3	11,9	27,5	11,5	6,9	4,7	100	
	GT 10-5	5,3	11,9	27,5	11,5	6,9	4,7	100	
	GT 10-6	6,4	11,9	27,5	11,5	6,9	4,7	100	
	GT 10-8	8,3	13,5	30,5	11,5	6,9	4,7	100	
	GT 10-10	10,5	15,0	30,5	11,5	6,9	4,7	100	
	GT 10-12	13,2	17,0	34,0	11,5	6,9	4,7	100	
6 AWG 16 mm²	GT 16-5	5,3	12,0	27,5	12,0	7,8	5,6	100	
	GT 16-6	6,4	12,0	27,5	12,0	7,8	5,6	100	
	GT 16-8	8,3	13,5	31,0	12,0	7,8	5,6	100	
	GT 16-10	10,5	16,0	32,0	12,0	7,8	5,6	100	
	GT 16-12	13,2	17,0	37,5	12,0	7,8	5,6	100	
4 AWG 25 mm²	GT 25-5	5,3	14,0	34,0	13,5	9,5	7,1	50	
	GT 25-6	6,4	14,0	34,0	13,5	9,5	7,1	50	
	GT 25-8	8,3	14,0	34,0	13,5	9,5	7,1	50	
	GT 25-10	10,5	16,0	37,0	13,5	9,5	7,1	50	
	GT 25-12	13,2	18,0	40,0	13,5	9,5	7,1	50	
	GT 25-14	14,5	21,0	42,0	13,5	9,5	7,1	50	
2 AWG 35 mm²	GT 35-6	6,4	16,5	39,0	16,0	11,0	8,2	50	
	GT 35-8	8,3	16,5	39,0	16,0	11,0	8,2	50	
	GT 35-10	10,5	16,5	43,0	16,0	11,0	8,2	50	
	GT 35-12	13,2	18,0	43,0	16,0	11,0	8,2	50	
	GT 35-14	14,5	20,0	48,0	16,0	11,0	8,2	50	
	GT 35-16	16,5	23,0	48,0	16,0	11,0	8,2	50	
1 AWG 40 mm²	GT 40-6	6,4	17,0	44,0	17,0	11,2	9,0	20	
	GT 40-8	8,3	17,0	44,0	17,0	11,2	9,0	20	
	GT 40-10	10,5	17,0	44,0	17,0	11,2	9,0	20	
	GT 40-12	13,2	18,0	44,0	17,0	11,2	9,0	20	
1/0 AWG 50 mm²	GT 50-6	6,4	18,0	45,0	20,0	12,5	9,5	20	
	GT 50-8	8,3	18,0	45,0	20,0	12,5	9,5	20	
	GT 50-10	10,5	18,0	49,0	20,0	12,5	9,5	20	
	GT 50-12	13,2	18,0	49,0	20,0	12,5	9,5	20	
	GT 50-14	14,5	22,0	54,0	20,0	12,5	9,5	20	
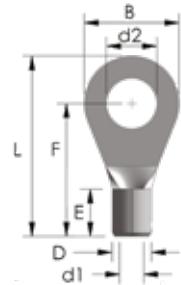
Wire size	Part nr.	Ø E	W	L	B	D	d	Packed	UL
1/0 AWG 50 mm²	GT 50-16	16,5	25,0	62,0	20,0	12,5	9,5	20	
	GT 50-20	21,0	30,0	68,0	20,0	12,5	9,5	20	
2/0 AWG 70 mm²	GT 70-8	8,3	22,0	47,6	20,0	15,0	11,5	20	
	GT 70-10	10,5	22,0	51,6	20,0	15,0	11,5	20	
	GT 70-12	13,2	22,0	51,6	20,0	15,0	11,5	20	
	GT 70-14	14,5	22,0	62,6	20,0	15,0	11,5	20	
	GT 70-16	16,5	22,0	62,6	20,0	15,0	11,5	20	
	GT 70-20	21,0	30,0	62,6	20,0	15,0	11,5	20	
3/0 AWG 95 mm²	GT 95-8	8,3	25,0	55,8	22,0	17,0	13,5	20	
	GT 95-10	10,5	25,0	55,8	22,0	17,0	13,5	20	
	GT 95-12	13,2	25,0	55,8	22,0	17,0	13,5	20	
	GT 95-14	14,5	25,0	66,8	22,0	17,0	13,5	20	
	GT 95-16	16,5	25,0	66,8	22,0	17,0	13,5	20	
	GT 95-20	21,0	30,0	66,8	22,0	17,0	13,5	20	
4/0 AWG 120 mm²	GT 120-8	8,3	29,0	71,5	27,0	20,0	15,6	10	
	GT 120-10	10,5	29,0	71,5	27,0	20,0	15,6	10	
	GT 120-12	13,2	29,0	71,5	27,0	20,0	15,6	10	
	GT 120-14	14,5	29,0	71,5	27,0	20,0	15,6	10	
	GT 120-16	16,5	29,0	71,5	27,0	20,0	15,6	10	
	GT 120-20	21,0	29,0	71,5	27,0	20,0	15,6	10	
250/300 kcmil 150 mm²	GT 150-8	8,3	30,6	78,0	32,0	21,0	16,5	10	
	GT 150-10	10,5	30,6	78,0	32,0	21,0	16,5	10	
	GT 150-12	13,2	30,6	78,0	32,0	21,0	16,5	10	
	GT 150-14	14,5	30,6	78,0	32,0	21,0	16,5	10	
	GT 150-16	16,5	30,6	78,0	32,0	21,0	16,5	10	
	GT 150-20	21,0	30,6	78,0	32,0	21,0	16,5	10	
300/350 kcmil 185 mm²	GT 185-10	10,5	34,0	84,0	34,0	23,6	18,4	10	
	GT 185-12	13,2	34,0	84,0	34,0	23,6	18,4	10	
	GT 185-14	14,5	34,0	84,0	34,0	23,6	18,4	10	
	GT 185-16	16,5	34,0	84,0	34,0	23,6	18,4	10	
	GT 185-20	21,0	34,0	84,0	34,0	23,6	18,4	10	
400/450 kcmil 240 mm²	GT 240-10	10,5	38,5	90,0	37,0	26,4	21,2	5	
	GT 240-12	13,2	38,5	90,0	37,0	26,4	21,2	5	
	GT 240-14	14,5	38,5	90,0	37,0	26,4	21,2	5	
	GT 240-16	16,5	38,5	90,0	37,0	26,4	21,2	5	
	GT 240-18	19,0	38,5	90,0	37,0	26,4	21,2	5	
	GT 240-20	21,0	38,5	90,0	37,0	26,4	21,2	5	
300 mm²	GT 300-10	10,5	42,0	96,0	40,0	28,6	23,4	1	
	GT 300-12	13,2	42,0	96,0	40,0	28,6	23,4	1	
	GT 300-14	14,5	42,0	96,0	40,0	28,6	23,4	1	
	GT 300-16	16,5	42,0	96,0	40,0	28,6	23,4	1	
	GT 300-20	21,0	42,0	96,0	40,0	28,6	23,4	1	
400 mm²	GT 400-10	10,5	48,0	104,7	37,0	32,8	26,8	1	
	GT 400-12	13,2	48,0	104,7	37,0	32,8	26,8	1	
	GT 400-14	14,5	48,0	104,7	37,0	32,8	26,8	1	
	GT 400-16	16,5	48,0	104,7	37,0	32,8	26,8	1	
	GT 400-18	18,5	48,0	104,7	37,0	32,8	26,8	1	
	GT 400-20	21,0	48,0	104,7	37,0	32,8	26,8	1	
500 mm²	GT 500-10	10,5	55,0	115,5	46,5	38,4	29,8	1	
	GT 500-12	13,2	55,0	115,5	46,5	38,4	29,8	1	
	GT 500-14	14,5	55,0	115,5	46,5	38,4	29,8	1	
	GT 500-16	16,5	55,0	115,5	46,5	38,4	29,8	1	
	GT 500-18	18,5	55,0	115,5	46,5	38,4	29,8	1	
	GT 500-20	21,0	55,0	115,5	46,5	38,4	29,8	1	
630 mm²	GT 630-10	10,5	64,0	133,1	50,0	44,7	34,5	1	
	GT 630-12	13,2	64,0	133,1	50,0	44,7	34,5	1	
	GT 630-14	15,5	64,0	133,1	50,0	44,7	34,5	1	
	GT 630-16	16,5	64,0	133,1	50,0	44,7	34,5	1	
	GT 630-18	18,5	64,0	133,1	50,0	44,7	34,5	1	
	GT 630-20	21,0	64,0	133,1	50,0	44,7	34,5	1	

NON-INSULATED TERMINALS

AE INDUSTRIES

12. NON-INSULATED TERMINALS

Non-insulated DIN 46234 Brazed Seam terminals

electro tin plated · copper · RoHS compliant

• Brazed seam
• RoHS compliant

Wire size	Part nr.	d2	B	F	L	E	D	d1	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 4~6 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 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 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 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	✓
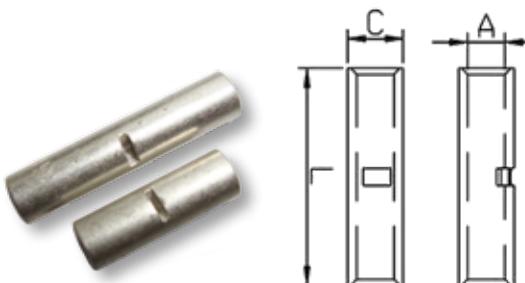
Wire size	Part nr.	d2	B	F	L	E	D	d1	Packed	UL
2 AWG 35 mm²	DIN 6-35B	6,5	15,0	26,0	33,5	12,0	12,6	9,0	50	✔
	DIN 8-35B	8,4	16,0	26,0	34,0	12,0	12,6	9,0	50	✔
	DIN 10-35B	10,5	18,0	27,0	36,0	12,0	12,6	9,0	50	✔
	DIN 12-35B	13,0	22,0	31,0	42,0	12,0	12,6	9,0	50	✔
	DIN 16-35B	17,0	28,0	36,0	50,0	12,0	12,6	9,0	50	✔
1/0 AWG 50 mm²	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 mm²	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	50	✔
3/0 AWG 95 mm²	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 mm²	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 mm²	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 mm²	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 mm²	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 TERMINALS

Non-insulated butt connectors

electro tin plated · copper · 600V max · RoHS compliant
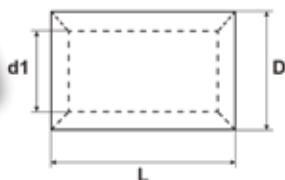
• RoHS compliant

Shorter models

Wire range	Part nr.	L	A	C	Packed	UL
22~16 AWG 0,5~1,5 mm²	BC 1.25	15,0	1,9	3,3	100	
16~14 AWG 1,5~2,5 mm²	BC 2	15,0	2,3	4,0	100	
12~10 AWG 4~6 mm²	BC 5.5	15,0	3,6	5,5	100	
8 AWG 8 mm²	C 8	22,5	5,1	7,1	100	
6 AWG 14 mm²	C 14	27,5	6,4	9,0	100	
4 AWG 22 mm²	C 22	30,5	8,2	11,4	100	
2 AWG 38 mm²	C 38	33,5	10,1	13,3	100	
1/0 AWG 60 mm²	C 60	36,0	12,0	15,4	50	
2/0 AWG 70 mm²	C 70	37,8	14,0	17,4	50	
3/0 AWG 80 mm²	C 80	39,5	15,4	19,4	50	
4/0 AWG 100 mm²	C 100	39,5	17,6	22,0	40	
250 kcmil 125 mm²	C 125	43,4	19,2	24,1	25	
250/300 kcmil 150 mm²	C 150	55,5	20,9	26,0	5	
300/350 kcmil 180 mm²	C 180	58,5	22,0	28,6	4	
400 kcmil 200 mm²	C 200	64,5	25,7	32,5	5	
400/450 kcmil 250 mm²	C 250	64,5	25,7	32,5	5	
325 mm²	C 325	73,5	29,0	37,0	5	

Longer models

Wire range	Part nr.	L	A	C	Packed	UL
22~16 AWG 0,5~1,5 mm²	GT 1.5	16,5	1,9	3,3	100	
16~14 AWG 1,5~2,5 mm²	GT 2.5	22,0	2,6	4,0	100	
12 AWG 4 mm²	GT 4	25,2	3,5	4,8	100	
10 AWG 6 mm²	GT 6	25,2	3,8	5,5	100	
12~10 AWG 4~6 mm²	GT 4/6	25,5	3,5	5,2	100	
8 AWG 10 mm²	GT 10	30,0	4,5	6,5	100	
6 AWG 16 mm²	GT 16	32,5	5,5	7,5	100	
4 AWG 25 mm²	GT 25	35,5	7,0	9,5	100	
2 AWG 35 mm²	GT 35	40,5	8,5	11,0	100	
1/0 AWG 50 mm²	GT 50	40,5	10,0	13,0	25	
2/0 AWG 70 mm²	GT 70	45,5	11,5	15,0	25	
3/0 AWG 95 mm²	GT 95	50,5	13,5	18,0	25	
4/0 AWG 120 mm²	GT 120	65,5	15,0	19,5	25	
250/300 kcmil 150 mm²	GT 150	70,5	16,5	22,0	25	
300/350 kcmil 185 mm²	GT 185	75,5	19,0	25,0	12	
400/450 kcmil 240 mm²	GT 240	80,5	21,0	27,5	6	
300 mm²	GT 300	90,5	23,5	30,5	5	
400 mm²	GT 400	100,0	27,0	34,0	5	

NON-INSULATED TERMINALS

Non-insulated parallel connectors

• RoHS compliant

Wire range	Part nr.	d1	D	L	Packed	UL
22~16 AWG 0,5~1,5 mm²	P 1.25-L5.0	1,6	3,3	5,0	1000	
22~16 AWG 0,5~1,5 mm²	P 1.25-1.95L5.0	1,95	3,3	5,0	1000	
16~14 AWG 1,5~2,5 mm²	DP2N-5	2,3	4,0	5,0	1000	
16~14 AWG 1,5~2,5 mm²	P 2	2,3	4,0	7,0	1000	
12 AWG 4 mm²	P3-5N	2,8	4,2	4,8	1000	
12~10 AWG 4~6 mm²	P 5.5	3,6	5,6	7,0	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 section (page 306-311) for the complete program

DSQIB
For non-insulated (brazed seam only) terminals
1,5/2,5/6,0/10,0 mm²

MHQIBE
(separetely available)

BN-10
Crimping tool for non-insulated
(brazed seam only) terminals
1,5~10,0 mm²

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

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

KH-22
Crimping tool for non-insulated
terminals
6,0~25,0 mm²

KH-38
Crimping tool for non-insulated
terminals
6,0~35,0 mm²

KHB-70
Crimping tool for non-insulated
terminals
6,0~70,0 mm²
HEXAGONAL crimp

KH-120
Crimping tool for non-insulated
terminals
10,0~120,0 mm²

KHB-120
Crimping tool for non-insulated
terminals
10,0~120,0 mm²
HEXAGONAL crimp

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

KH-507
Multi-tool for insulated and
non-insulated (brazed seam only)
terminals
0,5~6,0 mm²
Stripping 0,75~6,0 mm²

MEB-900C
Multi-tool for non-insulated (brazed
seam only) and open barrel terminals
0,5~6,0 mm²
Stripping 0,75~6,0 mm²

ST062
Multi-tool for
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
Stripping 0,25~4,0 mm²

220

Non-insulated open barrel terminals - Strip

Wire range	Part nr. natural	Part nr. tin plated	Tabsize/ Ø	L	B	Dimple/ locking tab	Pcs/roll	UL
0,5~1,0	01-001-MS-ZA	01-001-MS-TA	6,3x0,8	28,0	15,8	dimple hole/ locking tab	6.000	
1,0~2,5	01-002-MS-ZA	01-002-MS-TA					5.000	✓
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	3,8	dimple	15.000	✓
	02-011-MS-ZA	02-011-MS-TA	2,8x0,8					✓
	02-012-MS-ZA	02-012-MS-TA	4,8x0,5	15,5	5,7		10.000	✓
	02-013-MS-ZA	02-013-MS-TA	4,8x0,8					✓
	02-001-MS-ZA	02-001-MS-TA	6,3x0,8	19,0	7,6		8.000	✓
1,0~2,5	02-002-MS-ZA	02-002-MS-TA					7.000	✓
2,5~6,0	02-003-MS-ZA	02-003-MS-TA					5.000	✓
0,5~1,0	02-005-MS-ZA	02-005-MS-TA	6,3x0,8	19,0	7,6	dimple/ locking tab	8.000	✓
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	7,6	dimple/ dimple hole	1.500	
0,75~2,0	07-002-MS-ZA	07-002-MS-TA		19,2	7,6			
0,5~1,0	10-001-MS-ZA	10-001-MS-TA	6,3x0,8	16,0	7,6	dimple	5.000	✓
1,0~2,5	10-002-MS-ZA	10-002-MS-TA		15,5			4.000	✓
0,5~1,0	03-002-MS-ZA	03-002-MS-TA	Ø 4,3	22,0	9,5	-	6.000	✓
	03-003-MS-ZA	03-003-MS-TA	Ø 5,3					✓
	03-004-MS-ZA	03-004-MS-TA	Ø 6,4					✓
	03-005-MS-ZA	03-005-MS-TA	Ø 3,2		8,0			✓
	03-006-MS-ZA	03-006-MS-TA	Ø 4,3		9,5			✓
1,0~2,5	03-007-MS-ZA	03-007-MS-TA	Ø 5,3					✓
	03-008-MS-ZA	03-008-MS-TA	Ø 6,4					✓
	03-009-MS-ZA	03-009-MS-TA	Ø 8,5	28,0	14,0		2.500	
0,5~0,75	09-001-MS-ZA	09-001-MS-TA	-	6,0	-	-	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 4,0	17,5	7,1	-	5.000	
	06-002-MS-ZA	06-002-MS-TA	Ø 4,7	17,2	7,0			

NON-INSULATED TERMINALS

Non-insulated open barrel terminals - Loose piece

Wire range	Part nr. natural	Part nr. tin plated	Tabsize/Ø	L	B	Dimple/locking tab	Packed	UL
0,5~1,0	01-008-ML-ZA	01-008-ML-TA	2,8x0,8	22,5	12,5	dimple hole/ locking tab		
	01-006-ML-ZA	01-006-ML-TA	4,8x0,5	21,5	12,0			
	01-001-ML-ZA	01-001-ML-TA	6,3x0,8	28,0	15,8			✓
1,0~2,5	01-002-ML-ZA	01-002-ML-TA	6,3x0,8	28,0	15,8			✓
2,5~6,0	01-003-ML-ZA	01-003-ML-TA	6,3x0,8	28,0	15,8			✓
0,5~1,0	01-007-ML-ZA	01-007-ML-TA	2,8x0,8	12,6	5,6	dimple hole		
	01-004-ML-ZA	01-004-ML-TA	4,8x0,5	17,5	6,4			✓
0,75~2,0	01-005-ML-ZA	01-005-ML-TA	4,8x0,5	17,5	6,4			✓
0,5~1,0	02-010-ML-ZA	02-010-ML-TA	2,8x0,5	14,4	3,8	dimple	1.000	✓
	02-011-ML-ZA	02-011-ML-TA	2,8x0,8	14,4	3,8			✓
	02-012-ML-ZA	02-012-ML-TA	4,8x0,5	15,5	5,7			✓
	02-013-ML-ZA	02-013-ML-TA	4,8x0,8	15,5	5,7			✓
	02-001-ML-ZA*	02-001-ML-TA*	6,3x0,8	19,0	7,6			✓
1,0~2,5	02-112-ML-ZA	02-112-ML-TA	4,8x0,5	15,5	5,7			✓
	02-113-ML-ZA	02-113-ML-TA	4,8x0,8	15,5	5,7			✓
	02-002-ML-ZA*	02-002-ML-TA*	6,3x0,8	19,0	7,6			✓
	02-953-ML-ZA	02-953-ML-TA	9,5x1,2	27,0	10,8			
2,5~6,0	02-003-ML-ZA*	02-003-ML-TA*	6,3x0,8	19,0	7,6			✓
0,5~1,0	02-285-ML-ZA	02-285-ML-TA	2,8x0,5	14,4	3,8	locking tab		
	02-288-ML-ZA	02-288-ML-TA	2,8x0,8	14,4	3,8			
	02-485-ML-ZA	02-485-ML-TA	4,8x0,5	15,6	5,7			
	02-488-ML-ZA	02-488-ML-TA	4,8x0,8	15,6	5,7			
	02-005-ML-ZA*	02-005-ML-TA*	6,3x0,8	19,0	7,6	dimple/ locking tab		✓
1,0~2,5	02-486-ML-ZA	02-486-ML-TA	4,8x0,5	15,6	5,7	locking tab		
	02-489-ML-ZA	02-489-ML-TA	4,8x0,8	15,6	5,7			
	02-007-ML-ZA*	02-007-ML-TA*	6,3x0,8	19,0	7,6	dimple/ locking tab		✓
	02-107-ML-ZA		8,0x0,8	8,9	20,1	locking tab		
	02-954-ML-ZA	02-954-ML-TA	9,5x1,2	27,0	10,8	locking tab		
2,5~6,0	02-009-ML-ZA*	02-009-ML-TA*	6,3x0,8	19,0	7,6	dimple/ locking tab		✓

* Pre-rolled

NON-INSULATED TERMINALS

	Wire range	Part nr. natural	Part nr. tin plated	Tabsize/ 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		
	0,75~2,0	07-002-ML-ZA	07-002-ML-TA		19,2	7,6			
	0,5~1,0	10-001-ML-ZA	10-001-ML-TA	6,3x0,8	16,0	7,6	dimple		✔
	1,0~2,5	10-002-ML-ZA	10-002-ML-TA		15,5				✔
	1,5~2,5		10-102-ML-TA		14,0	6,6	dimple		
	0,5~1,0	03-002-ML-ZA	03-002-ML-TA	Ø 4,3	22,0	9,5	-	1.000	✔
		03-003-ML-ZA	03-003-ML-TA	Ø 5,3					✔
		03-004-ML-ZA	03-004-ML-TA	Ø 6,4					✔
	1,0~2,5	03-005-ML-ZA	03-005-ML-TA	Ø 3,2		8,0			✔
		03-006-ML-ZA	03-006-ML-TA	Ø 4,3		9,5			✔
		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	14,0			
		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
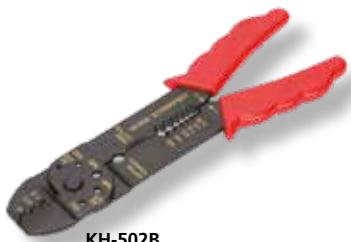
BN-02B
Crimping tool for open
barrel terminals
0,1-1,0 mm²

BN-03B
Crimping tool for open
barrel terminals
0,5 - 6,0 mm²

BN-06FL
Crimping tool for open
barrel 90° flag terminals
0,5 - 2,5 mm²
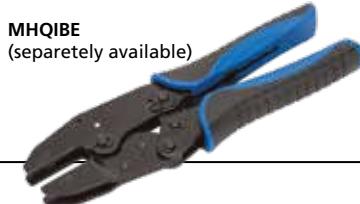
KH-502B
Multi-tool for open barrel terminals
0,5 - 6,0 mm²
Stripping 0,75 - 6,0 mm²

MEB-700C
Muli-tool for insulated & open
barrel terminals
0,5 - 6,0 mm²
Stripping 0,75 - 6,0 mm²

NON-INSULATED TERMINALS

223

MHQIBE
(separetely available)

MEB-900C
Multi-tool for non-insulated (brazed seam only) & open barrel terminals
0,5 - 6,0 mm²
Stripping 0,75 - 6,0 mm²

Die sets

For quick interchangeable ratchet tools MHQIBE, HJ56I or HJ43I (separately available)
See our Tools section (page 306-311) for the complete program

DSQIC
For open barrel terminals
0.5-1.0/1.5-2.5/4.0-6.0 mm²

DSQICQ (MIM procedure)
For open barrel terminals
0.5-1.0/1.5-2.5/4.0-6.0 mm²
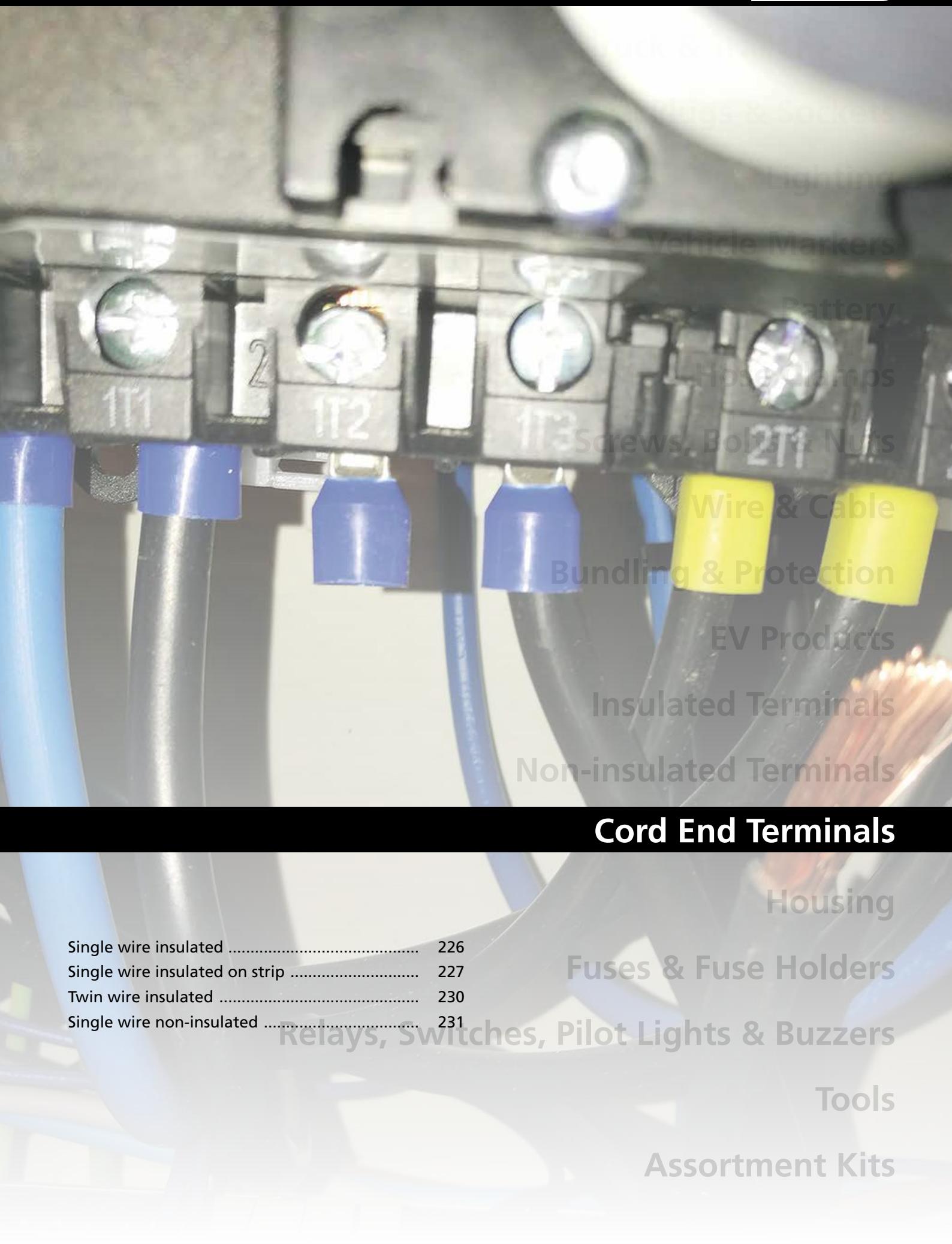
DSQIC3
For open barrel flag terminals
0.5-1.5/0.5-2.5 mm²

ST062
Multi-tool for
Non-insulated (brazed seam only)
terminals (0,5~2,5 mm²),
Open barrel terminals (0,25~1,5 mm²) and
Coaxial cable connectors 6,0 mm
Stripping 0,25~4,0 mm²

Non-insulated quick connect

electro tin plated | copper | operating temperature 10°C~105°C

NON-INSULATED TERMINALS

Stud hole	Part nr. natural	Part nr. tin plated	Tabsize	L	B	Dimple/ angle	Packed	UL
brass	50-001-MB-ZA	50-001-MB-TA	6,3 x 0,8	18,0	11,4	dimple holes	1000	
brass	50-002-MB-ZA	50-002-MB-TA		20,5	9,6	dimple holes		✔
Ø 2,2		08-101-MB-TA	2,8 x 0,5	5,0	4,45	dimple hole 45°		✔
Ø 4,2	08-001-MB-ZA	08-001-MB-TA		8,5	8,0			
Ø 5,2	08-110-MB-ZA	08-110-MB-TA						
Ø 4,2	08-100-MB-ZA		6,3 x 0,8	8,5	8,0	dimple hole 90°		
Ø 5,2	90-011-MB-ZA							
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	8,0	dimple hole		
Ø 5,2	08-310-MB-ZA							

Vehicle Markers

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

PP cord end terminals DIN 46228/4 - Single wire

poly-propylene (PP) • electro tin plated • copper alloy • operating temperature -40°C~105°C • RoHS compliant

- 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

CORD END TERMINALS

Cut-strips
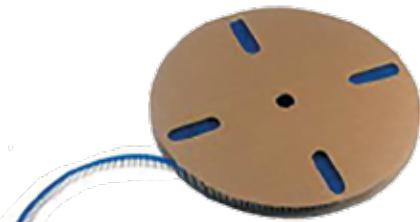
Wire range	C	Part nr. "T"	UL	C	Part nr. "W"	UL	C	Part nr. DIN	UL	F	L	C	W	Packed
0,50 mm² / 20 AWG		AHW 0.50N STRIP	✓		AHO 0.50N STRIP	✓		AHW 0.50N STRIP	✓	8,0	14,0	1,0	2,6	10 x 50 pcs
0,75 mm² / 19 AWG		AHB 0.75N STRIP	✓		AHW 0.75N STRIP	✓		AHGRS 0.75N STRIP	✓	8,0	14,0	1,2	2,8	10 x 50 pcs
1,00 mm² / 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 mm² / 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 mm² / 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

Small reel
Outer Ø 180 mm, core Ø 13 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 mm² / 20 AWG		AHW 0.50N REEL	✓		AHO 0.50N REEL	✓		AHW 0.50N REEL	✓	8,0	14,0	1,0	2,6	1100
0,75 mm² / 19 AWG		AHB 0.75N REEL	✓		AHW 0.75N REEL	✓		AHGRS 0.75N REEL	✓	8,0	14,0	1,2	2,8	1100
1,00 mm² / 18 AWG		AHR 1.00N REEL	✓		AHG 1.00N REEL	✓		AHR 1.00N REEL	✓	8,0	14,0	1,4	3,0	800
1,50 mm² / 16 AWG		AHZ 1.50N REEL	✓		AHR 1.50N REEL	✓		AHZ 1.50N REEL	✓	8,0	14,0	1,7	3,5	800
2,50 mm² / 14 AWG		AHGRS 2.50N REEL	✓		AHB 2.50N REEL	✓		AHB 2.50N REEL	✓	8,0	14,0	2,2	4,2	500

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 mm² / 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 mm² / 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 mm² / 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 mm² / 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 mm² / 14 AWG		AHGRS 2.50N CSR	✓		AHB 2.50N CSR	✓		AHB 2.50N CSR	✓	8,0	14,0	2,2	4,2	2500

CORD END TERMINALS

Middle reel
Outer Ø 450 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 mm² / 20 AWG		AHW 0.50N MRL	✓		AHO 0.50N MRL	✓		AHW 0.50N MRL	✓	8,0	14,0	1,0	2,6	10000
0,75 mm² / 19 AWG		AHB 0.75N MRL	✓		AHW 0.75N MRL	✓		AHGRS 0.75N MRL	✓	8,0	14,0	1,2	2,8	10000
1,00 mm² / 18 AWG		AHR 1.00N MRL	✓		AHG 1.00N MRL	✓		AHR 1.00N MRL	✓	8,0	14,0	1,4	3,0	7500
1,50 mm² / 16 AWG		AHZ 1.50N MRL	✓		AHR 1.50N MRL	✓		AHZ 1.50N MRL	✓	8,0	14,0	1,7	3,5	7500
2,50 mm² / 14 AWG		AHGRS 2.50N MRL	✓		AHB 2.50N MRL	✓		AHB 2.50N MRL	✓	8,0	14,0	2,2	4,2	5000

HJ601633BC
1663 pcs insulated single wire cord end terminals
incl. tool

Professional kit

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

150 x AHW 0.50HL	75 x AHB 2.50L
200 x AHW 0.50N	60 x AHGRS 4.00N
200 x AHGRS 0.75N	40 x AHGRS 4.00L
150 x AHGRS 0.75L	50 x AHG 6.00N
200 x AHR 1.00N	30 x AHG 6.00L
150 x AHR 1.00L	25 x AHR 10.00N
100 x AHZ 1.50N	15 x AHR 10.00L
75 x AHZ 1.50L	25 x AHB 16.00N
100 x AHB 2.50N	15 x AHB 16.00L

Single wire insulated assortments

HJ603713BC
3713 pcs insulated and non-insulated single wire cord end terminals
incl. tool

Professional kit

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

	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

ASSAHI-401
100 pcs

50 x AHGRS 4.00N
20 x AHG 6.00N
20 x AHR 12.00N
10 x AHB 16.00N

ASSAHI-501
400 pcs

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

MHQIBE
(separetely available)

Die sets
For quick interchangeable ratchet tools MHQIBE, HJ56I or HJ43I (separately available)
See our Tools section (page 306-311) for the complete program

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

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

92146
Crimping tool for cord
end terminals
0,08~6,0 / 10~16mm²
HEXAGONAL crimp

BN-06WF
Crimping tool for cord
end terminals
0,5~4,0 mm²
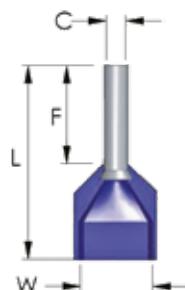
MH-2P
Crimping tool for cord
end terminals
6,0~16,0 mm²

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

229

PP cord end terminals DIN 46228/4 - Twin wire

poly-propylene (PP) ｜ electro tin plated ｜ copper alloy ｜ operating temperature -40°C - 105°C ｜ RoHS compliant

• 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 mm² 2 x 24 AWG		TAHV 0.25N*			TAHB 0.25N*					8,0	15,0	1,15	3,4	500
2 x 0,34 mm² 2 x 22 AWG					TAHT 0.34N*					8,0	15,0	1,15	3,5	500
2 x 0,50 mm² 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 mm² 2 x 19 AWG		TAHB 0.75N*	✓		TAHW 0.75N*	✓		TAHGRS 0.75N*	✓	8,0	15,0	1,7	5,0	500
2 x 1,00 mm² 2 x 18 AWG		TAHR 1.00N*	✓		TAHG 1.00N*	✓		TAHR 1.00N*	✓	8,0	15,0	1,95	5,4	500
2 x 1,50 mm² 2 x 16 AWG		TAHZ 1.50N*	✓		TAHR 1.50N*	✓		TAHZ 1.50N*	✓	8,0	16,0	2,2	6,6	500
2 x 2,50 mm² 2 x 14 AWG		TAHGRS 2.50N*	✓		TAHB 2.50N*	✓		TAHB 2.50N*	✓	10,0	18,5	2,8	7,8	250
2 x 4,00 mm² 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 mm² 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 mm² 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 mm² 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

ASSAHI-402
45 pcs

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

ASSAHI-502
200 pcs

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

Twin wire tools

92145
Crimping tool for cord end terminals
Twin wire 2x0,25 - 2x4,0 mm²
SQUARE crimp

92146
Crimping tool for cord end terminals
Twin wire 2x0,25 - 2x6,0 mm²
HEXAGONAL crimp

CORD END TERMINALS

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 mm²	AH 0.14*	7,0	0,65	1,6	1000	
0,25 mm²	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	
0,34 mm²	AH 0.34K*	5,0	0,85	1,8	1000	
	AH 0.34*	7,0	0,85	1,8	1000	
0,5 mm²	AH 0.50KK*	6,0	1,0	2,1	1000	✓
	AH 0.50K*	8,0	1,0	2,1	1000	✓
	AH 0.50*	10,0	1,0	2,1	1000	✓
0,75 mm²	AH 0.75KK*	6,0	1,2	2,3	1000	✓
	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	✓
1 mm²	AH 1.00KK*	6,0	1,4	2,5	1000	✓
	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	✓
1,5 mm²	AH 1.50KK*	7,0	1,7	2,8	1000	✓
	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	✓
2,5 mm²	AH 2.50KK*	7,0	2,2	3,4	1000	✓
	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	✓
4,0 mm²	AH 4.00K*	9,0	2,8	4,0	1000	✓
	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	✓

Wire range	Part nr.	L	C	W	Packed	UL
6 mm²	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 mm²	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 mm²	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 mm²	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	✓
	AH 25.00L*	32,0	7,3	9,5	250	✓
35 mm²	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	✓
	AH 35.00L	25,0	8,3	11,0	100	✓
50 mm²	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	✓
	AH 50.00L	32,0	10,3	13,0	100	✓
70 mm²	AH 70.00HL	25,0	12,5	15,0	100	
	AH 70.00L	32,0	12,5	15,0	100	
95 mm²	AH 95.00HL	25,0	14,5	17,0	50	
	AH 95.00L	32,0	14,5	17,0	50	
120 mm²	AH 120.00HL	32,0	16,5	19,0	50	
150 mm²	AH 150.00HL	32,0	18,5	21,0	50	
	AH 150.00L	38,0	18,5	21,0	50	

* Also available in 100 pcs bags

HJ602318BC
2318 pcs incl. tool

Professional kit

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

Non-insulated assortments

ASSAH-502
1900 pcs

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-500
2500 pcs

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
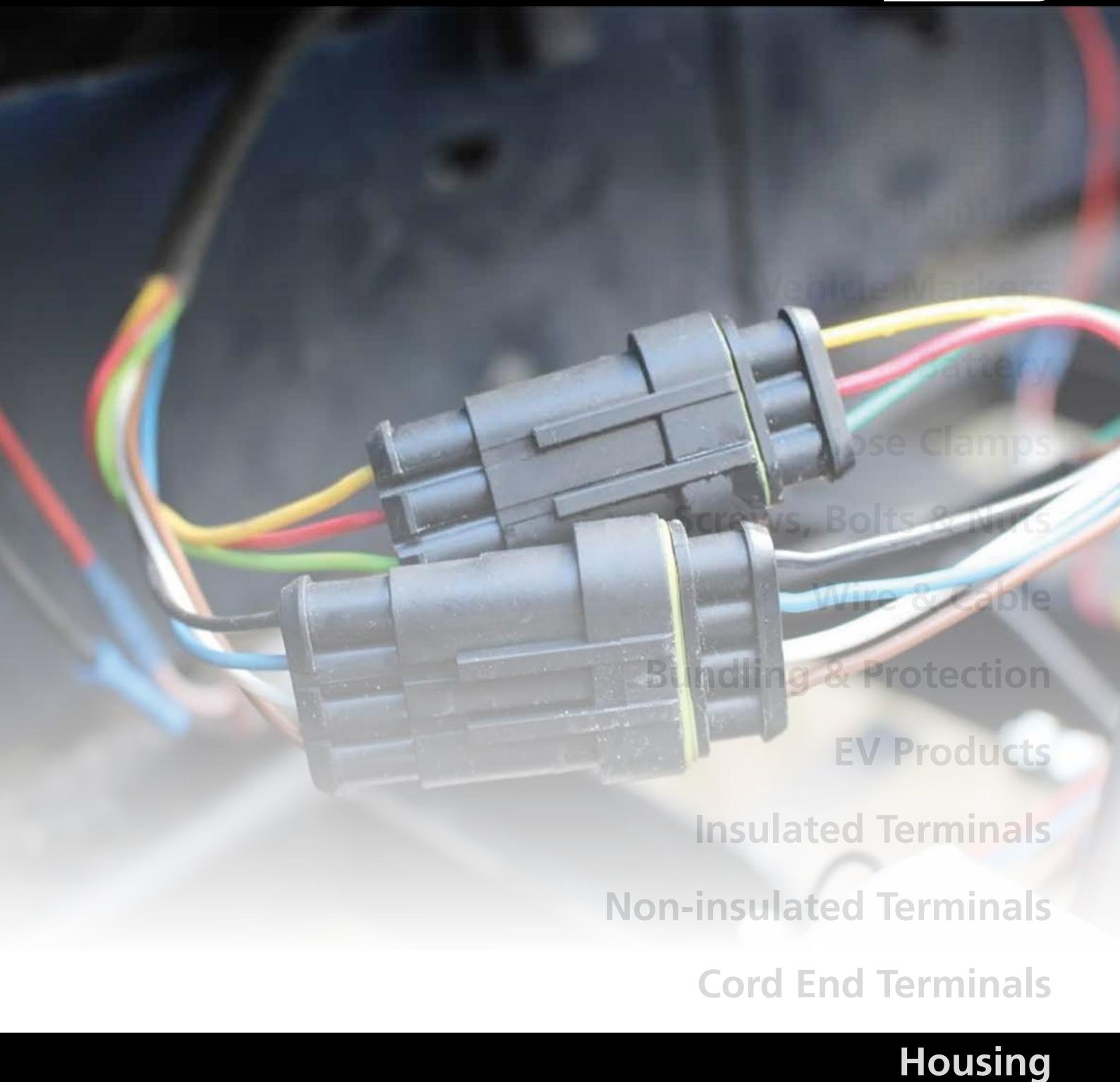
ASSAH-504
350 pcs

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

CORD END TERMINALS

Lights

Vehicle Markers

Battery

Hose Clamps

Screws, Bolts & Nuts

Wire & Cable

Bundling & Protection

EV Products

Insulated Terminals

Non-insulated Terminals

Cord End Terminals

Housing

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	Wire range mm^2	Wire Ø mm	Color	MOQ
Housing for male terminals	H282103-1	1				100
	H282104-1	2				100
	H282105-1	3				100
	H282106-1	4				100
	H282107-1	5				100
	H282108-1	6				100
Housing for female terminals	H282079-2	1				100
	H282080-1	2				100
	H282087-1	3				100
	H282088-1	4				100
	H282089-1	5				100
	H282090-1	6				100
Male terminal	H282109-1		0,75 - 1,5			100
Female terminal	H282110-1		0,75 - 1,5			100
Wire seals	H281934-4			1,2 - 1,6 mm	green	100
	H281934-2			1,7 - 2,4 mm	yellow	100
	H281934-3			2,5 - 3,3 mm	red	100
Cavity plug	H282081-1			cavity plug	red	100

Also available

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

HOUSING

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Pre-wired, wire size 0,75 mm²

Part nr.	Poles	Description
WH2820801	2	Female housing, pre-wired 200 mm, 0,75 mm², black
WH2820871	3	Female housing, pre-wired 200 mm, 0,75 mm², black
WH2820881	4	Female housing, pre-wired 200 mm, 0,75 mm², black
WH2821041	2	Male housing, pre-wired 200 mm, 0,75 mm², black
WH2821051	3	Male housing, pre-wired 200 mm, 0,75 mm², black
WH2821061	4	Male housing, pre-wired 200 mm, 0,75 mm², black

Pre-wired, wire size 1,0 mm²

Part nr.	Poles	Description
WH28210312	1	Male housing, pre-wired 200 mm, 1,0 mm², black
WH28210412	2	Male housing, pre-wired 200 mm, 1,0 mm², black
WH28210512	3	Male housing, pre-wired 200 mm, 1,0 mm², black
WH28210612	4	Male housing, pre-wired 200 mm, 1,0 mm², black
WH28210712	5	Male housing, pre-wired 200 mm, 1,0 mm², black
WH28210812	6	Male housing, pre-wired 200 mm, 1,0 mm², black
WH28207922	1	Female housing, pre-wired 200 mm, 1,0 mm², black
WH28208012	2	Female housing, pre-wired 200 mm, 1,0 mm², black
WH28208712	3	Female housing, pre-wired 200 mm, 1,0 mm², black
WH28208812	4	Female housing, pre-wired 200 mm, 1,0 mm², black
WH28208912	5	Female housing, pre-wired 200 mm, 1,0 mm², black
WH28209012	6	Female housing, pre-wired 200 mm, 1,0 mm², black
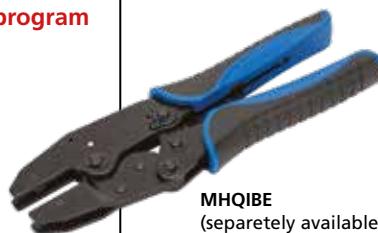
Die sets
For quick interchangeable ratchet tools MHQIBE, HJ56I or HJ43I (separately available)
See our Tools section (page 306-311) for the complete program

DSQIH2
For open-barrel AMP Super-seal terminals
DIN 0,35-0,5/1,5 mm²

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

MHQIBE
(separetely available)

Tools for Superseal

HJ410339BC-H2H3
339 pcs incl. tool

Professional kit

1 x 9" aluminum ratchet
    crimper
1 x die set DSQIH2
1 x die set DSQIH3

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

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

Superseal assortments

Also available without tool

Empty case with tool

HJ410006BC-H2H3 (3 pcs)

1 x 9" aluminum ratchet
    crimper
1 x die set DSQIH2
1 x die set DSQIH3

HE300350HC (350 pcs)

50 x wire seal 1,2~1,8 mm
50 x wire seal 1,6~2,4 mm

Terminals:
50 x male terminal
   0,3~0,5 mm²
50 x female terminal
   0,3~0,5 mm²
50 x male terminal
   0,85~1,25 mm²
50 x female terminal
   0,85~1,25 mm²

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

HOUSING

Delphi Weatherpack connectors

• Sealed system specifically designed to withstand exposure to extreme
  temperatures, chemicals and fluids
• Pin and sleeve configuration to alleviate stress relaxation
• Secondary lock and Connector Position Assurance (CPA) for improved
  system design
• Dual-locking tangs on terminals help prevent backing out
• Terminal plugging requires no orientation
• Positive locking indexing prevents mismating of connectors
• Low energy, low voltage capability for vehicle electronics
• Current range: 0 – 20 amps
• Temperature range: -40 °C to 125 °C
• Resistance: < 10mΩ @ 50mV
• Voltage drop: < 3,0mV/amp
• Centerline spacing: 7,7 mm
• Blade width: Pin and sleeve

	Part nr.	Poles	Wire range mm²	Wire Ø mm	Color	MOQ
Housing for male terminals	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
Housing for female terminals	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
Male terminals	958-6879307BS7		0,50 - 0,85			100
	958-6879306BS7		1,25 - 2,0			100
	958-6879356BS7		3,0			100
Female terminals	958-6879207BS7		0,50 - 0,85			100
	958-6879206BS7		1,25 - 2,0			100
	958-6879256BS7		3,0			100
Wire seals	1440-1240			1,4 - 1,9	green	100
	1440-1143			2,5 - 3,4	green	100
	1440-1144			2,9 - 3,8	blue	100
Cavity plug	12010300					

HJ410220BC-H6H7
220 pcs incl. tool

1 x 9" aluminum ratchet
    crimper
1 x die set DSQIH6
1 x die set DSQIH7
1 x extraction tool UT012
    (also available sepa-
    rately)

25 x wire seal 1,4~1,9 mm
30 x wire seal 2,5~3,4 mm
25 x wire seal 2,9~3,8 mm

Terminals:
20 x male 0,5~0,85 mm^2
20 x fem. 0,5~0,85 mm^2
20 x male 1,25~2,00 mm^2
20 x fem. 1,25~2,00 mm^2
20 x male 3 mm^2
20 x fem. 3 mm^2

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

Professional kit

Delphi Weatherpack assortments

Also available without tools

HE290232HC (232 pcs)

25 x wire seal 1,4~1,9 mm
30 x wire seal 2,5~3,4 mm
25 x wire 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
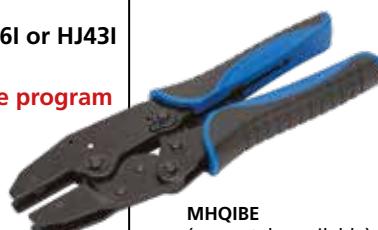
Housing:
5 x 1 pole rec. type male
5 x 1 pole rec. type female
3 x 2 pole rec. type male
3 x 2 pole rec. type female
4 x 3 pole rec. type male
4 x 3 pole rec. type female
2 x 4 pole pin type male
2 x 4 pole pin type female
2 x 4 pole rec. type male
2 x 4 pole rec. type female

Tools for Delphi Weatherpack

Die sets
For quick interchangeable ratchet tools MHQIBE, HJ56I or HJ43I (separately available)
**See our Tools section (page 306-311) for the complete program**

DSQIH6
For open-barrel Delphi
Weatherpack terminals
0,35/0,5-0,8 mm²
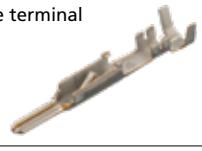
DSQIH7
For open-barrel Delphi Weather-
pack terminals
1,0-2,0/3,0 mm²

MHQIBE
(separetely available)

UT012
Terminal release tool for Delphi
Weatherpack

Metri-Pack 280 connectors
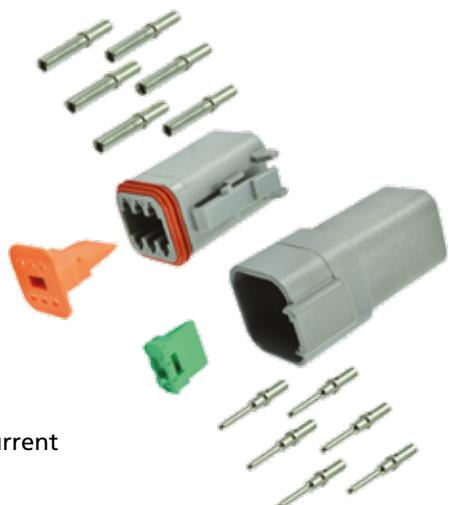
- Waterproofness: Exceeds IEC 529 and DIN 40050 IP67 standards
- Rated to: maximum 30A continuous
- Temperature range: -40 °C ~ 125 °C
- Low energy, low voltage capability
- Small overall dimensions
- Excellent chemical and abrasion resistance
- Standard ISO 2.8 mm configuration

	Part nr.	Poles	Wire range mm^2	Wire Ø mm	Color	MOQ
Housing for male terminals	HMM12811	1				100
	HMM22811	2				100
	HMM32811	3				100
Housing for female terminals	HFM12821	1				100
	HFM22821	2				100
	HFM32821	3				100
Male terminal	99-002-ML-TA		1,5 - 2,5			100
Female terminal	98-002-ML-TA		1,5 - 2,5			100
Wire seal	H38409-1			1,29 - 1,70	red	100
Cavity plug	12010300					

Deutsch connectors - DT series

- Accepts contact size 16 (13A)
- 20-14 AWG
- 2, 3, 4, 6, 8, and 12 cavity arrangements
- In-line, flange, or PCB mount
- Rectangular, thermoplastic housing.
- Grommets and interfacial seals: silicone rubber
- Integrated latch for mating
- Wedgelocks assure contact alignment and retention
- Resistant to most fluids used in industrial applications
- Temperature range: -55 °C to 125 °C continuous at rated current
- Insulation resistance: 1000 megohms minimum at 25 °C
- Dielectric withstanding voltage: current leakage < 2 mA at 1500 V AC

	Part nr.	Poles	Wire range	MOQ
Housing for male terminals	DT04-2P	2		100
	DT04-3P	3		100
	DT04-4P	4		100
	DT04-6P	6		100
	DT04-08PA	8		100
	DT04-12P	12		100
Housing for female terminals	DT06-2S	2		100
	DT06-3S	3		100
	DT06-4S	4		100
	DT06-6S	6		100
	DT06-08SA	8		100
	DT06-12S	12		100
Male terminal Open-barrel	1060-20-0122		0,75-2,0 mm² 18~14 AWG	100
Female terminal Open-barrel	1062-20-0222		0,75-2,0 mm² 18~14 AWG	100
Male terminal Solid	0460-202-16141		0,5-1,5 mm² 20~16 AWG	100
	0460-215-16141 (green stripe)		2,0 mm² 14 AWG	100
Female terminal Solid	0462-201-16141		0,5-1,5 mm² 20~16 AWG	100
	0462-209-16141 (green stripe)		2,0 mm² 14 AWG	100
Cavity plug	DTSEAL		Cavity plug	100

HOUSING

Also available

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

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

HOUSING

Pre-wired, wire size 0,75 mm²

Part nr.	Poles	Description
WHDT062S1	2	Female housing, pre-wired 0,5 mtr, 0,75 mm², black, open-barrel terminals
WHDT062S2	2	Female housing, pre-wired 3 mtrs, 0,75 mm², black, open-barrel terminals
WHDT062S3	2	Female housing, pre-wired 3 mtrs, 0,75 mm², black, solid terminals

Pre-wired, wire size 1,0 mm²

Part nr.	Poles	Description
WHDT062S50	2	2P female housing, pre-wired 50 cm
WHDT062S300	2	2P female housing, pre-wired 300 cm
WHDT062SADR	2	2P female housing, pre-wired 300 cm ADR
WHDT042P	2	2P male housing, pre-wired 200 mm, 1,0 mm², black
WHDT043P	3	3P male housing, pre-wired 200 mm, 1,0 mm², black
WHDT044P	4	4P male housing, pre-wired 200 mm, 1,0 mm², black
WHDT046P	6	6P male housing, pre-wired 200 mm, 1,0 mm², black
WHDT048PA	8	8P male housing, pre-wired 200 mm, 1,0 mm², black
WHDT0412P	12	12P male housing, pre-wired 200 mm, 1,0 mm², black
WHDT062S	2	2P female housing, pre-wired 200 mm, 1,0 mm², black
WHDT063S	3	3P female housing, pre-wired 200 mm, 1,0 mm², black
WHDT064S	4	4P female housing, pre-wired 200 mm, 1,0 mm², black
WHDT066S	6	6P female housing, pre-wired 200 mm, 1,0 mm², black
WHDT068SA	8	8P female housing, pre-wired 200 mm, 1,0 mm², black
WHDT0612S	12	12P female housing, pre-wired 200 mm, 1,0 mm², black

HOUSING

243

HJ888090BC-K3K4
92 pcs incl. tool

Professional kit

1 x 10" carbon steel
      ratchet crimper
1 x die set DSQIK3
1 x die set DSQIK4
1 x UT011 extraction tool

Terminals:
30 x male 0,5~1,5 mm²
30 x fem. 0,5~1,5 mm²

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

Deutsch DT assortment

Tools for Deutsch DT
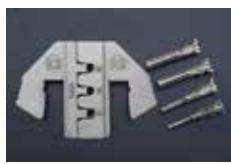
MHQIBE
(separetely available)

Die sets
For quick interchangeable ratchet tools MHQIBE, HJ56I or HJ43I (separately available)
See our Tools section (page 306-311) for the complete program

DSQIK3*
For open-barrel Deutsch
terminals (DT series)
1,0/1,5/2,5 mm²

DSQIK4*
For open-barrel Deutsch
terminals (DT series)
0,5/1,0/1,5 mm²

DSQIK6*
For open-barrel Deutsch
terminals (DT series)
1,5/2,5/4,0 mm²

DSQIKQ8**
For solid Deutch terminals
0.5/1.5/4.0 mm²
MIM procedure

G

Deutsch connectors - DTP series

- Accepts contact size 12 (25A)
- 14-10 AWG
- 2 and 4 cavity arrangements
- In-line, flange, or PCB mount
- Rectangular, thermoplastic housing.
- Grommets and interfacial seals: silicone rubber
- Integrated latch for mating
- Wedgelocks assure contact alignment and retention
- Resistant to most fluids used in industrial applications
- Temperature range: -55 °C to 125 °C continuous at rated current
- Insulation resistance: 1000 megohms minimum at 25 °C
- Dielectric withstanding voltage: current leakage < 2 mA at 1500 V AC

	Part nr.	Poles	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		4,0-6,0 mm² 12~10 AWG	100
Female terminal Open-barrel	1062-40-0222		4,0-6,0 mm² 12~10 AWG	100
Male terminal Solid	0460-204-12141		2,0-3,0 mm² 14~12 AWG	100
Female terminal Solid	0462-203-12141		2,0-3,0 mm² 14-12 AWG	100
Cavity plug	DTSEAL		Cavity plug	100

Tools for Deutsch DTP

Die sets

For quick interchangeable ratchet tools MHQIBE, HJ56I or HJ43I (separately available)

See our Tools section (page 306-311) for the complete program
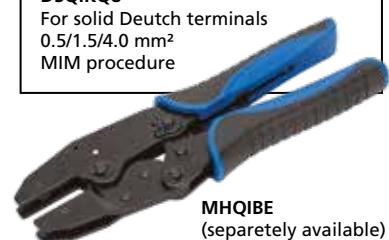
DSQIK1*
For open-barrel Deutsch terminals (DTP series)
2,5/4,0 mm²

DSQIK2*
For open-barrel Deutsch terminals (DTP series)
5,0/6,0 mm²

DSQIKQ8**
For solid Deutch terminals
0.5/1.5/4.0 mm²
MIM procedure

MHQIBE
(separetely available)

Junior Power Timer connectors

- PA66 housing
- 14-20 AWG (0,5~2,5 mm²)
- 2, 3, 4, 5, 6, and 7 cavity arrangements
- Resistant to most fluids used in industrial applications
- Current range: 24V DC maximum operating voltage
- Temperature range: -30 °C to 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 DC
- Dielectric withstanding voltage: ≥ 1000V AC
- Voltage drop: ≤ 3,0mV/amp

	Part nr.	Poles	Wire range mm²	Wire Ø mm	Color	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 sec. locking)	100
Housing for female terminals	8275781	3			black (w/o sec. locking)	100
	5251912	4			black	100
	8275791	5			black	100
	5251913	6			black	100
	5251914	7			black (w/o sec. locking)	100
Male terminals	Terminal 10B		0,5~1,0			100
	Terminal 8A		1,5~2,5			100
Female terminals	Terminal 11B		0,5~1,0			100
	Terminal 9A		1,5~2,5			100
Wire seals	8289041			1,2~2,1	blue	100
	8289051			2,2~3,0	white	100
	8289221		cavity plug		natural	100
Covers	5251160	2			black	100
	8808112	3			black	100
	8808141	4			black	100
	8808142	5			black	100
	8808143	6			black	100

MHQIBE
(separetely available)
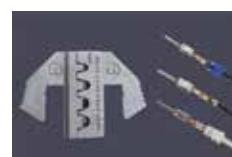
Die sets
For quick interchangeable ratchet tools MHQIBE, HJ56I or HJ43I (separately available)
See our Tools section (page 306-311) for the complete program

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

Tools for Junior Power Timer

HOUSING

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	Wire range mm²	Wire Ø mm	Color	MOQ
Housing for male terminals	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
Housing for female terminals	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
Male terminal	DJ615B-1.5*0.8A		0,5~1,0			100
Female terminal	DJ623-E1.5A		0,5~1,0			100
Wire seal	HDX023			1,4~1,9	grey	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	Wire range mm²	Color	MOQ
Housing for male terminals	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
Housing for female terminals	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
Male terminal	DJ615B-2.8*0.8B		1,5~2,5		100
Female terminal	DJ623-E3.5B		1,5~2,5		100
Wire seal	HDX001			blue	100

Tools for VAG

Die sets
For quick interchangeable ratchet tools MHQIBE, HJ56I or HJ43I (separately available)
See our Tools section (page 306-311) for the complete program

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
(separetely available)

VAG015/1
115 pcs

25 x wire seal

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

1.5 Series assortment

VAG035/1
95 pcs

25 x wire seal

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

3.5 Series assortment

HOUSING

Multi-connectors - Female, for tabsize 6,3 x 0,8 mm

nylon

• Matching terminals:
02-005-ML-TA (tin plated)   02-005-ML-ZA (natural)   0,5 - 1,0 mm²
02-007-ML-TA (tin plated)   02-007-ML-ZA (natural)   1,0 - 2,5 mm²
02-009-ML-TA (tin plated)   02-009-ML-ZA (natural)   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

nylon

• Matching terminals:	01-001-ML-TA (tin plated)	01-001-ML-ZA (natural)	0,5 - 1,0 mm²
	01-002-ML-TA (tin plated)	01-002-ML-ZA (natural)	1,0 - 2,5 mm²
	01-003-ML-TA (tin plated)	01-003-ML-ZA (natural)	2,5 - 6,0 mm²

HM-1*
1 pole

HM-3*
3 pole

HM-8*
8 pole

HM-1Z*
1 pole

HM-3Z*
3 pole

HM-8Z*
8 pole

HM-2*
2 pole

HM-4*
4 pole

HM-11*
11 pole

HM-2Z*
2 pole

HM-4Z*
4 pole

HM-11Z*
11 pole

HM-2T*
2 pole

HM-6*
6 pole

HM-2TZ*
2 pole

HM-6Z*
6 pole

* MOQ 100 pcs

AE
INDUSTRIES

Multi-connectors - Female and male for tabsize 2,8 x 0,8 mm

nylon

6040-2111*
2 poles

6040-6111*
6 poles

6040-3111*
3 poles

6040-9111*
9 poles

Matching terminal:

L8240-4050 (natural)

6040-4111*
4 poles

6030-4991*
4 poles

6030-2981*
2 poles

6030-6991*
6 poles

Matching terminal:

L1800-2097 (natural)

6030-3991*
3 poles

6030-9991*
9 poles

* MOQ 100 pcs

Insulation sleeves - For open-barrel terminals

020.010.660*
(counterpart: 021.010.660)
Tabsize 6,3 x 0,8 mm

021.010.660*
(counterpart for 020.010.660)
Tabsize 6,3 x 0,8 mm

606202-VL*
Ø 3,5/4,0 mm

606302-VL*
Ø 3,5/4,0 mm

011.101.663*
Tabsize 6,3 x 0,8 mm

PH-1051*
(counterpart: 010.101.660)
Length 18,5 mm
Width 13,8 mm
Tabsize 6,3 x 0,8 mm

PH-1023*
Length 25,2 mm
Width 9,2 mm
Tabsize 6,3 x 0,8 mm

PH-1052*
(counterpart: 010.101.660)
Length 18,6 mm
Width 12,6
Tabsize 6,3 x 0,8 mm

PH-1026*
Length 25,2 mm
Width 9,2 mm
Tabsize 6,3 x 0,8 mm

011.101.660*
(counterpart: 010.101.660)
Tabsize 6,3 x 0,8 mm

PH-1060*
Length 22,5 mm
Width 10,5 mm
Tabsize 6,3 x 0,8 mm

010.101.660*
(counterpart for PH-1051,
PH-1052 and 011.101.660)
Tabsize 6,3 x 0,8 mm

PH-1061*
Length 22,5 mm
Width 10,5 mm
Tabsize 6,3 x 0,8 mm

PH-1062*
Length 22,5 mm
Width 10,5 mm
Tabsize 6,3 x 0,8 mm

HFK-1*
Length 22,4 mm
Width 9,0 mm
Tabsize 6,3 x 0,8 mm

HOUSING

* MOQ 100 pcs

Plugs & Sockets

Lighting

Vehicle Markers

Hose clamps

Wire & Cable

Bundling & Protection

EV Products

Insulated Terminals

Non-insulated Terminals

Cord End Terminals

Housing

Fuses & Fuse Holders

Blade fuses - normOTO SBF1500 series

RoHS compliant   REACH compliant

- Meets international specs. complies to RoHS, DIN ISO 8820-3, JASO D612, SAE J1284 and other standards
- Check fuse in fuse block using test points at top of the fuse
- Element visibility from sides, transparent fuse bodies
- Blade rigidity through robust/sturdy body construction
- Safe and highly reliable/consistent operation with a single piece construction
- Self extinguishing transparent, color coded body materials
- High temperature resistive plastics used for fuse body materials
- Secure and reliable functioning with purpose designed S + Ω element shapes
- 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

RoHS compliant   REACH compliant

- Housing material PA 6.6 GF25
- Blade material copper, tin plated
- Application specific, EU developed melting wire
- Suitable for use in low voltage applications up to 80V DC
- Breaking capacity 1000A at 80V DC
- Color coded body materials, rating marked on top using OCR font
- Blade rigidity through robust/sturdy body construction

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

RoHS compliant   REACH compliant

- Complies with SAE J1284 and general standards
- The built-in miniature LED lights up after the fusing element has interrupted (show-blow)
- Element visibility from sides, transparent fuse bodies
- Blade rigidity through robust/sturdy body construction
- Safe and highly reliable/consistent operation with a single piece construction
- Self extinguishing transparent, color coded temperature resistive body materials

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

B1-F1000
10 pcs normOTO fuses

1 x SBF1505   2 x SBF1520
1 x SBF1575   1 x SBF1525
2 x SBF1510   1 x SBF1530
2 x SBF1515

HF020096HA
80 pcs normOTO fuses

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

B3-BF1000
7 pcs normOTO fuses

1 x SBF1505
1 x SBF1575
1 x SBF1510
1 x SBF1515
1 x SBF1520
1 x SBF1525
1 x SBF1530

FUSES & HOLDERS

normOTO fuse holders - Opposed tabs

FH1120
FH1020
FH1180

- 6,3 mm in-line horizontal tab connects
- Open (FH1020 and FH1120) or enclosed (FH1180) tab connects
- Robust bakelite (FH1020) or standard PA 6.6 (FH1120 and FH1180) body material
- Stackable, to create multi-position holder

Part nr.	Description
FH1020	Holder bakelite with horizontal open tabs for SBF1500 and SBF1900 series (1 position)
FH1120	Holder PA 6.6 with horizontal open tabs for SBF1500 and SBF1900 series (1 position)
FH1180	Holder PA 6.6 with horizontal enclosed tabs and mounting brackets for SBF1500 and SBF1900 series (1 position)

normOTO fuse holder - Parallel tabs

- 6,3 mm parallel vertical tab connects
- Robust standard PA 6.6 GF30 body material
- Clear cover optional
- Mounting bracket optional
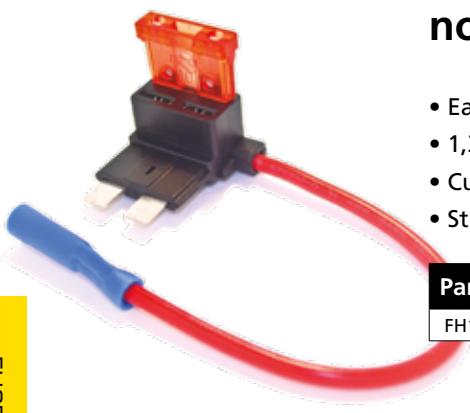
Part nr.	Description
FH1110	Holder with vertical tabs for SBF1500, SBF1800 and SBF1900 series up to 30A (1 position)
FH1105	Cover for fuse holder FH1110
FH1101	Body for fuse holder FH1110
CCX130FL	CuZn30, Sn plated contact for fuse holder FH1110
FH1154L	Mounting bracket

normOTO fuse holder - Circuit+

- Easily add a protected circuit without splicing
- 1,3 mm² (AWG 16) red cable, 120 mm length, with blue butt connector
- CuZn fuse receptacles, Sn plated
- Sturdy body construction, PA 6.6 UL 94 V-0 material
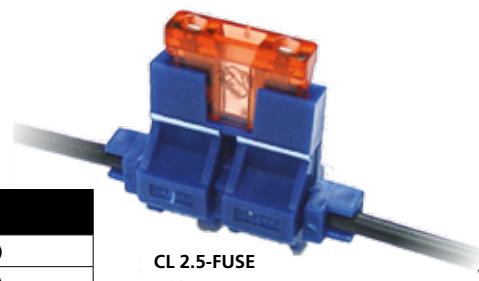
Part nr.	Description
FH1400	Circuit+ holder for SBF1500 and SBF1900 series (2 positions), 1,3 mm² red cable

normOTO fuse holder - Quick splice

- Economic, easy installation
- No special tools required
- Suits 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, direct crimp (1 position)
CL 2.5-FUSE	Holder scotch lock type for SBF1500 and SBF1900 series, direct crimp (1 position)

CL 2.5-FUSE

FUSES & HOLDERS

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FH1325

normOTO fuse holders - Cable ends

- 1,5 mm² black or 2,5 mm² red cable, 235 mm each side
- Box-type phosphor bronze CuSn fuse receptacles
- Splash waterproof with cover (IP56)
- Self-extinguishing body and cover materials
- Cap included
- Mounting bracket optional

FH1335

Part nr.	Description
FH1325	Holder for SBF1500 and SBF1900 series up to 20A (1 position), 1,5 mm² black cable
FH1335	Holder for SBF1500 and SBF1900 series up to 30A (1 position), 2,5 mm² red cable
FH1307	Mounting bracket for FH1325 and FH1335, stackable, supplied without holder

FH1307

FH1810-2x1

normOTO fuse holders - PCB

- 2x1 (2-pin) KPH102, Sn plated fuse receptacles (FH1810-2x1)
- 2x4 (8-pin) KPH102, Sn plated fuse receptacles (FH1810-2x4)
- Standard PA 6.6 GF15 UL 94 Class V-0 body material
- Guiding and Locking pin to stabilize and fix mounting on PCB
- Market conform and compatible PCB hole pattern

Part nr.	Description
FH1810-2x1	Circuit board holder 2x1 pin for SBF1500, SBF1800 and SBF1900 series (1 position)
FH1810-2x4	Circuit board holder 2x4 pin for SBF1500, SBF1800 and SBF1900 series (1 position)

FH1810-2x4

normOTO fuse holder - With clear cover

- Sn plated receptacles, reeled or loose
- Stackable, to create multi-position holder
- Secondary locking of receptacles, using clear cover
- Horizontal insertion of fuse receptacles

Part nr.	Description
FH1130	Holder with clear cover for SBF1500 and SBF1900 series (1 position)

Normal blade fuse holder - LED indicator
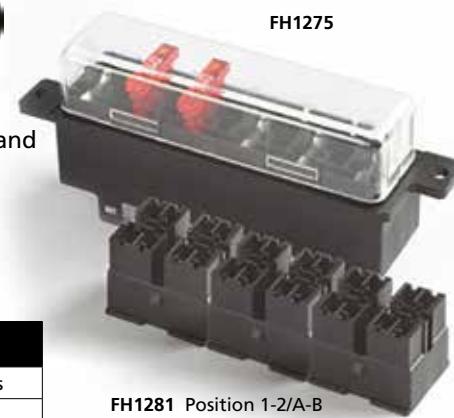
- With LED indicator
- 2,5 mm² red cable, 110 mm each side
- With protective cap
- Max. electrical rating 30A - 32V

Part nr.	Description
FH365035	Holder for 32V normal blade fuses (1 position) up to 30A, LED indicator, 2,5 mm² red cable

FUSES & HOLDERS

normOTO fuse holders - Multi-position

FH1275 and FH1295

- 6,3 mm vertical tabs, 2-in, 2-out per fuse position
- Robust 6 and 8 position holder with clear cover and cover O-ring seal
- Keyed and marked, FH1275: 1 through 6 and A through F and FH1295: 1 through 8 and A through H, connector set for professional wiring interface (use with 6,3 mm faston terminals)
- Secondary lock for the posiitve lock terminals (optional for use with FH1295)
- Jumper option on component side for easy bus-bar interconnects

RoHS compliant **REACH compliant**

FH1275

Part nr.	Description
FH1275	Six-position holder with clear cover and O-ring seal for SBF1500, SBF1800 and SBF1900 series
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	Eight-position holder with clear cover and O-ring seal for SBF1500, SBF1800 and SBF1900 series
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
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

FH1291

FH1292

FH1295

FH1281PL Position 1-2/A-B
FH1282PL Position 3-4/C-D
FH1283PL Position 5-6/E-F
FH1284PL Position 7-8/G-H

K324 and K326

- 6,3 mm horizontal tabs, 1-in, 1-out per fuse position
- Lockable cover with screw closure

K326

Part nr.	Description
K324	Four-position holder with clear cover for 32V normal blade fuses up to 40A
K326	Six-position holder with clear cover for 32V normal blade fuses up to 40A
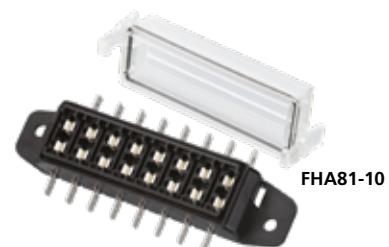
FHA40-10, FHA610-10, FHA60-10, FHA600-10 and FHA81-10

- FHA40-10 and FHA60-10 with 6,3 mm vertical tabs
- FHA610-10, FAH600-10 and FHA81-10 with 6,3 mm horizontal tabs and lockable cover with rubber sealer

FHA60-10

Part nr.	Description
FHA40-10	Four-position holder with clear cover for 32V normal blade fuses
FHA610-10	Four-position holder with clear cover for 32V normal blade fuses
FHA60-10	Six-position holder with clear cover for 32V normal blade fuses
FHA600-10	Six-position holder with clear cover for 32V normal blade fuses
FHA81-10	Eight-position holder with clear cover for 32V normal blade fuses

FHA81-10

Blade fuses - miniOTO BF7000 series

• Meets international specs, complies to DIN ISO 8820-3, JASO D612, AE J2077 and other standards
• Check fuse in fuse block using test points at top of the fuse
• Element visibility from sides, transparent fuse bodies
• Blade rigidity through robust/sturdy body construction
• Safe and highly reliable/consistent operation with a single piece construction
• Self extinguishing transparent, color coded body materials
• High temperature resistive plastics used for fuse body materials
• Secure and reliable functioning with purpose designed S + Ω element shapes
• 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

• Complies with SAE J2077 and general standards
• The built-in miniature LED lights up after the fusing element has interrupted (show-blow)
• Element visibility from sides, transparent fuse bodies
• Blade rigidity through robust/sturdy body construction
• Safe and highly reliable/consistent operation with a single piece construction
• Self extinguishing transparent, color coded temperature resistive body materials

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

FUSES & HOLDERS

miniOTO assortments

HF030096HA
200 pcs miniOTO fuses

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 miniOTO fuses

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 miniOTO fuses

1 x BF7005
1 x BF7075
1 x BF7010
1 x BF7015
1 x BF7020
1 x BF7025
1 x BF7030

miniOTO fuse holder - Four-position

RoHS compliant **REACH** compliant

• Robust 4 position holder, mounting bracket integrated
• Fuse receptacles Lear and/or Tyco compatible (contacts not included)
• Stackable (also to FH7280 micro relay module)
• Optional cover
• Vertical insertion of fuse receptacles
• Combines with micro relay module (3 x 4,8 mm/2 x 6,3 mm), FH7280
• ISO 7588-3 contact layout for FH7280 micro relay module
• Relay receptacles Lear and/or Tyco compatible

FH7280
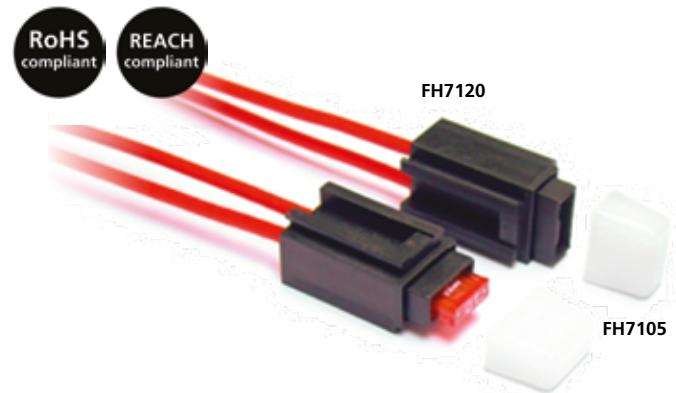
FH7205

FH7210

Part nr.	Description
FH7210	Four-position holder for BF7000 and SBF7900 series
FH7205	black cover for use with FH7210
FH7280	ISO 7588-3 micro relay module (3 x 4,8 mm + 2 x 6,3 mm)

FUSES & HOLDERS

miniOTO fuse holders - Cable ends

RoHS compliant   REACH compliant

FH7120

FH7120

- 2,5 mm² red cable, 130 mm each
- Stackable, to create multi-position holder
- CuSn4 fuse receptacles
- Splash waterproof when used with cover (optional)
- UL 94 Class V-0 body material

FH7105

FH7325

FH7325 and FH7335

- 1,5 mm² black or 2,5 mm² red cable, 130 mm each side
- Spring clamp (CuZn33, Sn plated) fuse receptacles
- Clear cover with integral O-ring seal
- Splash waterproof with cover (IP56)
- Phosphor bronze (CuSn) fuse receptacles

FH7335
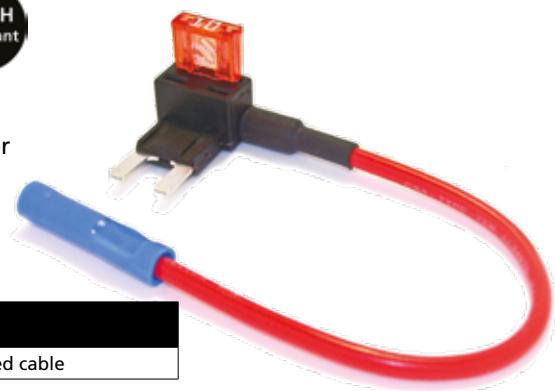
Part nr.	Description
FH7120	Holder for BF7000 and SBF7900 series (1 position), 2,5 mm² red cables
FH7105	Clear cover for FH7120
FH7101	Body for FH7120
FH7325	Holder with cover for BF7000 and SBF7900 series up to 30A (1 position), 1,5 mm² black cable
FH7335	Holder with cover for BF7000 and SBF7900 series up to 30A (1 position), 2,5 mm² red cable
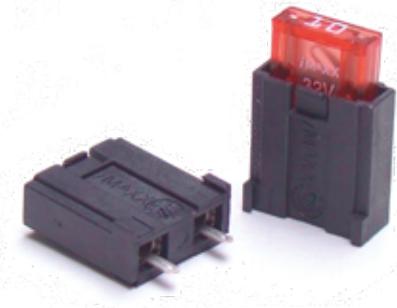
miniOTO fuse holder - Circuit+

RoHS compliant   REACH compliant

- Easily add a protected circuit without splicing
- 1,3 mm² (AWG 16) red cable, 120 mm length, with blue butt connector
- CuZn fuse receptacles, Sn plated
- Sturdy body construction, PA 6.6 UL 94 V-0 material

Part nr.	Description
FH7400	Circuit+ holder for BF7000 and SBF7900 series (2 positions), 1,3 mm² red cable

FUSES & HOLDERS

miniOTO fuse holder - PCB

RoHS compliant REACH compliant

• 2x1 (2-pin) CuSn tinplated fuse receptacles, with integrated contact springs
• Standard PET GF33 UL 94 V-0 body material
• Stackable, to create multi-position holder (pitch 6,0 mm)
• Printed circuit board matching hole 1,5 mm, spacing 8,0 mm

Part nr.	Description
FH7810-2x1	Circuit board holder 2x1 pin for BF7000 and SBF7900 series (1 position)

Mini blade fuse holder - LED indicator

• With LED indicator
• 2,5 mm² red cable, 110 mm each side
• With protective cap
• Max. electrical rating 30A - 32V

Part nr.	Description
FH365025	Holder for 32V mini blade fuses (1 position) up to 30A, LED indicator, 2,5 mm² red cable

Blade fuses - miniOTO Low Profile BFLP7000 series

RoHS compliant REACH compliant

• Meets international specs, complies to JASO and other standards
• Check fuse in fuse block using test points at top of the fuse
• Element visibility from sides, semi transparent fuse bodies
• Blade rigidity through robust/sturdy body construction
• Safe and highly reliable/consistent operation with a single piece construction
• Rated at 58 Volt
• Color coded body materials
• Rating marked on top using OCR font
• Silver plated blades
• Used in Japanese, American, European and Korean designed 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

HF350071HA
186 pcs miniOTO Low Profile fuses

1 x fuse puller

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

B1-FLP7000
10 pcs miniOTO Low Profile fuses

1 x BFLP7005
1 x BFLP7075
2 x BFLP7010
2 x BFLP7015
2 x BFLP7020
1 x BFLP7025
1 x BFLP7030
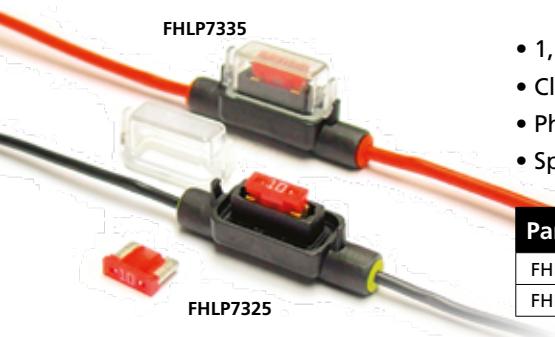
B3-BFLP7000
7 pcs miniOTO Low Profile fuses

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

FHLP7335

FHLP7325

• 1,5 mm² black or 2,5 mm² red cable, 135 mm each side
• Clear cover with integrated O-ring seal
• Phosphor bronze CuSn fuse receptacles
• Splash waterproof with cable seals, O-ring seal and clear cover (IP56)

RoHS compliant   REACH compliant

Part nr.	Description
FHLP7325	Holder with cover for BFLP7000 series (1 position), 1,5 mm² black cable
FHLP7335	Holder with cover for BFLP7000 series (1 position), 2,5 mm² red cable

miniOTO Low Profile fuse holders - Circuit+

• Easily add a protected circuit without splicing
• 1,3 mm² (AWG 16) red cable, 120 mm length, with blue butt connector
• CuZn fuse receptacles, Sn plated
• Sturdy body construction, PA 6.6 UL 94 V-0 material

RoHS compliant   REACH compliant

Part nr.	Description
FHLP7400	Circuit+ holder for BFLP7000 series (2 positions), 1,3 mm² red cable

FUSES & HOLDERS

265

Blade fuses - mikrOTO II BF2000 and mikrOTO III BF3000 series

- Meets international specs, complies to ISO 8820-12 (BF2000 series) and ISO 8820-13 (BF3000 series)
- Check fuse in fuse block using test points at top of the fuse
- Element visibility from sides, semi transparent fuse bodies
- Blade rigidity through robust/sturdy body construction
- Safe and highly reliable/consistent operation with a single piece construction
- Rated at 32 Volt
- Silver plated blades
- Color coded body materials, rating marked on top using OCR font
- Used primarily in North American designed vehicles

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

HF510071HA
76 pcs mikrOTO II fuses

mikrOTO II assortments

B3-BF2000
7 pcs mikrOTO II fuses

1 x BF2005
1 x BF2075
1 x BF2010
1 x BF2015
1 x BF2020
1 x BF2025
1 x BF2030

1 x fuse puller
                15 x BF2015
5 x BF2005   15 x BF2020
5 x BF2075   10 x BF2025
15 x BF2010   10 x BF2030

Box with euroslot hangtab

mikrOTO II fuse holder - Circuit+

RoHS compliant *REACH compliant*

- Easily add a protected circuit without splicing
- 1,3 mm² (AWG 16) red cable, 120 mm length, with blue butt connector
- CuZn fuse receptacles, Sn plated
- Sturdy body construction, PA 6.6 UL 94 V-0 material

Part nr.	Description
FH2400	Circuit+ holder for BF2000 series (2 positions), 1,3 mm² red cable

mikrOTO II fuse holder - Cable ends

RoHS compliant *REACH compliant*

FH2325

- 2,0 mm² black or 3,3 mm² red cable, 135 mm each side
- CuZn fuse receptacles, Sn plated
- Splash waterproof with cover (IP54)
- Self-extinguishing body and cover materials

Part nr.	Description
FH2325	Holder for BF2000 series (1 position), 2,0 mm² black cable, 135 mm each side
FH2335	Holder for BF2000 series (1 position), 3,3 mm² red cable, 135 mm each side

FH2335

mikrOTO III fuse holder - Cable ends

RoHS compliant *REACH compliant*

FH3120

- 1 × 2,5 mm² red cable and 2 × 1,5 mm² black cable, 130mm each
- Stackable, to create multi-position holder
- CuSn4 fuse receptacles
- Splash waterproof when used with cover (optional)
- UL 94 V-0 body material

Part nr.	Description
FH3120	Holder for BF3000 series (1 position), 1 x 2,5 mm² red cable and 2 x 1,5 mm² black cable
FH3105	Cover for FH3120
FH3101	Body for FH3120

FH3105

FUSES & HOLDERS

Blade fuses - maxiOTO BF9000 series

RoHS compliant   REACH compliant

• Meets international specs, complies to DIN ISO 8820-3, SAE J1888 and other standards
• Element visibility from side, clear transparent fuse body
• Check fuse in fuse block using semi-protected test points at top of the fuse
• Blade rigidity through robust/sturdy body construction
• Safe and highly reliable/consistent operation with a single piece construction
• Self extinguishing transparent, color coded body materials
• High temperature resistive plastics used for fuse body materials
• Secure and reliable time-delayed functioning with purpose designed element shapes
• Direction insensitive insertion, rating marked in two directions at top, using OCR font

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

HF040024HA
20 pcs maxiOTO fuses

2 x BF9020
3 x BF9030
3 x BF9040
3 x BF9050
3 x BF9060
2 x BF9070
2 x BF9080
2 x BF9100
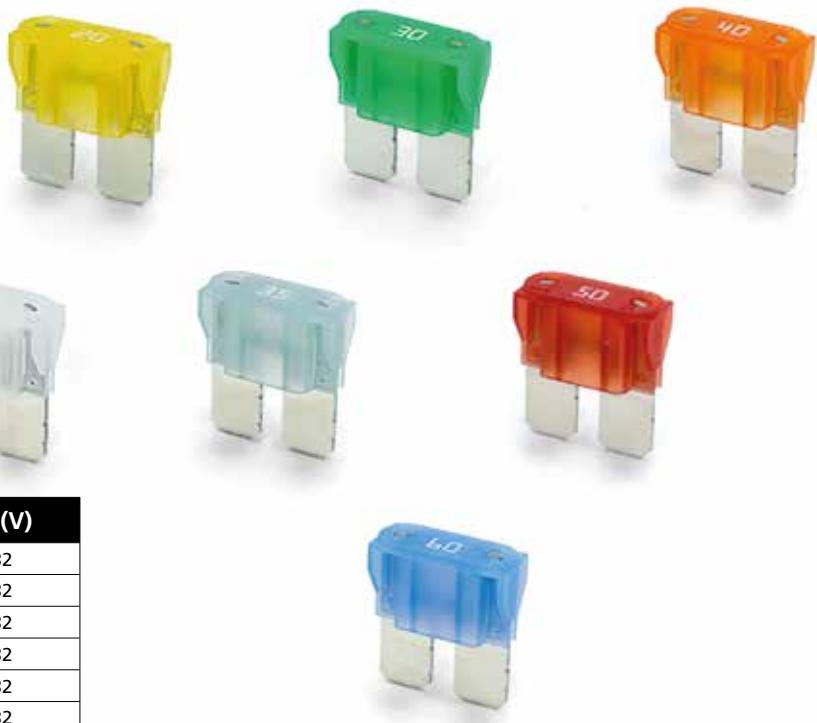
Box with euroslot hangtab

maxiOTO assortment

Blade fuses - maxiOTO compact BF9000-63 series

RoHS compliant   REACH compliant

- Meets international specs, complies to ISO 8820-10
- Element visibility from side, semi-transparent fuse body
- Check fuse in fuse block using test points at top of the fuse
- Safe and highly reliable/consistent operation with a single piece construction
- Color coded body materials with OCR printed rating
- High temperature resistive plastics used for fuse body materials
- Time-delayed functioning with purpose designed element shapes
- Body material PA66 (UL 94 flammability rating V2)
- Element material, zinc alloy, silver plated blades

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

maxiOTO fuse holders - Bolt-on

RoHS compliant   REACH compliant

- Suits 2,5 - 10 mm² cable
- PA 6.6 GF-30 body material
- Robust cable interface, ring terminal screw connections
- Stackable, to create multi-position holder
- Clear cover optional

FH9120

FUSES & HOLDERS

Part nr.	Description
FH9120	Holder for BF9000 series (1 position) PA 6.6 body, screw connect (M5 screws installed)
FH9105	Cover for use with FH9120
FH9100	Holder FH9120 incl. cover FH9105 (packed in bag)

FH9105

maxiOTO fuse holder - Splash waterproof

RoHS compliant REACH compliant

• CiSiNi fuse receptacles, Sn plated 4.0-10 mm² (TE-MPT)

• Mountable and stackable, 2 x Ø 4,3 mm holes, to create multi-position holder

• PA 6.6 GF35 UL 94 Class V-0 self extinguishing body material

• Splash waterproof with cable seals and cover

• Vertical insertion of fuse receptacles

Part nr.	Description
FH93004.0	Holder for BF9000 series, 1 position, wire size 4,0~6,0 mm² (complete set in plastic box)
FH9315-A	Holder for BF9000 series, 1 position, wire size 4,0~6,0 mm² (10 complete sets in plastic bag)
FH93010.0	Holder for BF9000 series, 1 position, wire size 6,0~10,0 mm² (complete set in plastic box)
FH9315-B	Holder for BF9000 series, 1 position, wire size 6,0~10,0 mm² (10 complete sets in plastic bag)
FH9301	Body, 1 position, PA66-GF35, UL94-V0, black
FH9305	Cover with integrated NBR seal, 1 position, clear PC
CCS930FL	Contact 4,0~6,0 mm², nickel plated brass, use with blue seal
CCS931FL	Contact 6,0~10,0 mm², nickel plated brass, use with grey seal
S183548	Blue seal for cable 2,5~6,0 mm², silicone, Ø 3,1 mm
S184862	Grey seal for cable 6,0~10,0 mm², silicone, Ø 4,4 mm

FH9301

FH9305

S183548X

S184862X

CCS930FL 4,0~6,0 mm²
CCS931FL 6,0~10.0 mm²

FH93004.0 1 set
FH9315-A   10 sets

FH93010.0 1 set
FH9315-B   10 sets

AE INDUSTRIES

maxiOTO fuse holders - PCB

RoHS compliant   REACH compliant
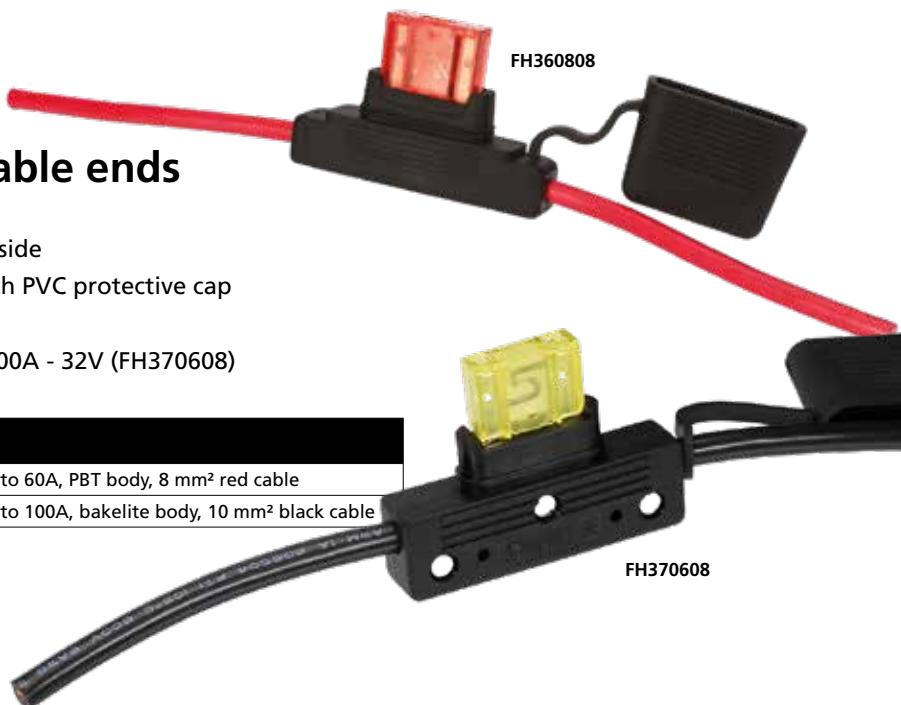
• 2x10 (20-pin) CuZn, Sn plated fuse receptacles
• Standard PA 6.6 UL 94 Class V-0 body material
• Printed circuit board matching hole 1,75 mm

Part nr.	Description
FH9810-2x10	Circuit board holder 2x10 pin for BF9000 series (1 position)

Maxi blade fuse holders - Cable ends

FH360808

• 8 mm² red or 10 mm² black cable, 200 mm each side
• PBT (FH360808) or bakelite (FH370608) body with PVC protective cap
• Water resistant
• Max. electrical rating 60A - 32V (FH360808) or 100A - 32V (FH370608)

Part nr.	Description
FH360808	Holder for 32V maxi blade fuses (1 position) up to 60A, PBT body, 8 mm² red cable
FH370608	Holder for 32V maxi blade fuses (1 position) up to 100A, bakelite body, 10 mm² black cable

FH370608

Maxi blade fuse holder - LED indicator

• With LED indicator
• 8 mm² red cable, 110 mm each side
• With protective cap
• Max. electrical rating 60A - 32V

Part nr.	Description
FH365708	Holder for 32V maxi blade fuses (1 position) up to 60A, LED indicator, 8 mm² red cable

FUSES & HOLDERS

271

HF110278BC
279 pcs fuses and fuse holders

Professional kit

Fuse holders:	MiniOTO blade fuses:
2 x FH1120	8 x BF7075
1 x FH1335	25 x BF7010
1 x FH7315	25 x BF7015
1 x FH9120	25 x BF7020
1 x FH9105	10 x BF7025
NormOTO blade fuses:	10 x BF7030
15 x SBF1575	MaxiOTO blade fuses:
30 x SBF1510	3 x BF9030
30 x SBF1515	3 x BF9040
25 x SBF1520	8 x BF9050
20 x SBF1525	8 x BF9060
25 x SBF1530	3 x BF9070

Blade fuse assortment with holders

Tools for blade fuses

AT1000P

• Twin puller for normOTO and miniOTO blade fuses

• Polypropylene (PP) material, red colored

• Dimensions 45 x 10 mm

AT1000P

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

T9000P

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

HT1000PT

FP003

• 4-in-1 fuse tester and puller for maxi, normal, mini and micro II fuses

• LED lights bright green when fuse is OK

• Dimensions 70 x 32 mm, color orange

FP003
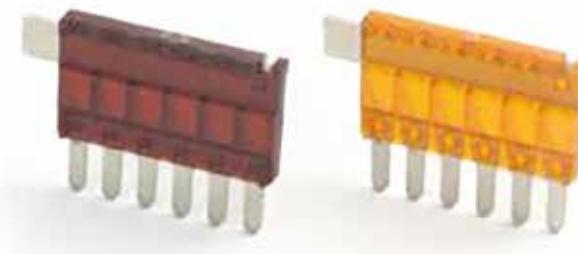
Part nr.	Description
AT1000P	Red fuse puller for normOTO en miniOTO blade fuses, red
T9000P	Grey fuse puller for miniOTO, normOTO en maxiOTO blade fuses
HT1000PT	White fuse puller miniOTO and normOTO blade fuses, tester for normOTO blade fuses
FP003	Adjustable orange fuse puller/tester with LED indicator, for maxi, normal, mini and micro II blade fuses

FUSES & HOLDERS

Special blade fuses - multiOTO BF7600 series

RoHS compliant REACH compliant

• Six fusing elements in one housing
• Ratings clearly marked on top
• High temperature resistive plastics used for fuse body materials
• Complies to MB spec 10430-1
• For use in Daimler - Mercedes Benz vehicles:

MB model	MB type	Year
ML	W166	> 2010
GLE	W167	> 2018
C	W205	> 2014
E	W213	> 2016
S	W222	> 2013
E-Coupe	W238	> 2016
GLC	W253	> 2015
G	W463	> 2012
Sprinter	W907	> 2014
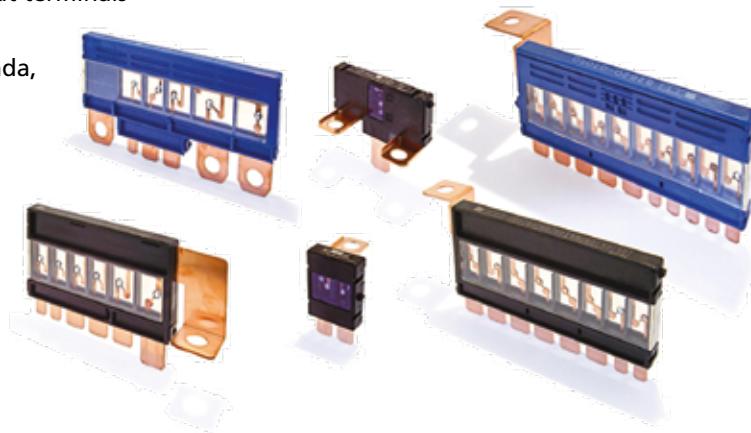
Part nr.	Color	Rating (A)	Rating (V)
BF7605	tan	5	32
BF7675	brown	7,5	32

Special blade fuses - multiOTO SloBlo Bolt-on FMSB series

RoHS compliant REACH compliant

• Meets international specs, complies to Japanese automotive industry standards
• New innovative, cost saving multi element slow blow fuse series
• Element visibility from sides through transparent window
• Robust/sturdy body construction
• Multiple circuits integrated in one housing
• Secure and controlled time-delayed functioning with purpose designed elements
• Integrated, endurable, Cu-alloy blades
• Single component with 1 input and multiple output terminals
• Ratings clearly marked on top
• Used in Asian designed passenger cars such as Honda, Lexus and Toyota

Automotive Circuit Breakers - Mini series

• Plastic cover with color code
• Compatible with mini fuse holders

• Meets SAE J553, ISO 10924-3
• Absolute breaking capacity: 2000A@26Vdc
• Interrupt rating: 150A@14Vdc (for 5-10A)
  225A@14Vdc (for 15A)
  300A@14Vdc (for 20A)
  450A@14Vdc (for 25-30A)
• Operating temperature: -40 °C ~ 85 °C
• Storage temperature: -40 °C ~ 125 °C

Automatic reset*			
Part nr.	Color	Rating (A)	Rating (V)
ACBAT0514V1	tan	5	14
ACBAT7514V1	brown	7,5	14
ACBAT1014V1	red	10	14
ACBAT1514V1	blue	15	14
ACBAT2014V1	yellow	20	14
ACBAT2514V1	natural	25	14
ACBAT3014V1	green	30	14

Manual reset**			
Part nr.	Color	Rating (A)	Rating (V)
ACBMN0528V3	tan	5	28
ACBMN7528V3	brown	7,5	28
ACBMN1028V3	red	10	28
ACBMN1528V3	blue	15	28
ACBMN2028V3	yellow	20	28
ACBMN2528V3	natural	25	28
ACBMN3028V3	green	30	28

Automotive Circuit Breakers - Normal series

• UL 94V-0 thermoplastic body with color code
• Tin plated copper alloy terminals
• Compatible with normal fuse holders

• Meets SAE J553, ISO 10924-4, UL1500, SAE J1171
• Ignition protected
• Interrupt capacity: 2000A@28Vdc
• Operating temperature: -40 °C ~ 85 °C
• Storage temperature: -40 °C ~ 125 °C
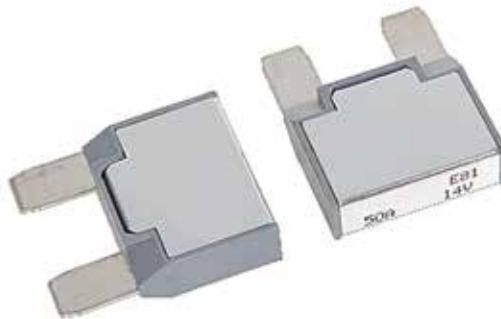
Manual reset**			
Part nr.	Color	Rating (A)	Rating (V)
ACBMN0528V	tan	5	28
ACBMN7528V	brown	7,5	28
ACBMN1028V	red	10	28
ACBMN1528V	blue	15	28
ACBMN2028V	yellow	20	28
ACBMN2528V	natural	25	28
ACBMN3028V	green	30	28

FUSES & HOLDERS

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Automotive Circuit Breakers - Maxi series

• Silver color metal cover
• Compatible with maxi fuse holders

• Meets SAE J553, ISO 10924-4
• Absolute breaking capacity: 2000A@32Vdc
• Interrupt rating: 300A@14Vdc (for 20A)
    450A@14Vdc (for 25-30A)
    600A@14Vdc (for 40A)
    750A@14Vdc (for 50A)
• Operating temperature: -40 °C ~ 85 °C
• Storage temperature: -40 °C ~ 125 °C

Automatic reset*

Part nr.	Color	Rating (A)	Rating (V)
ACBMX2014V1	silver	20	14
ACBMX2514V1	silver	25	14
ACBMX3014V1	silver	30	14
ACBMX4014V1	silver	40	14
ACBMX5014V1	silver	50	14

Manual reset**

Part nr.	Color	Rating (A)	Rating (V)
ACBMX2028V3	silver	20	28
ACBMX2528V3	silver	25	28
ACBMX3028V3	silver	30	28
ACBMX4028V3	silver	40	28
ACBMX5028V3	silver	50	28

* **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.
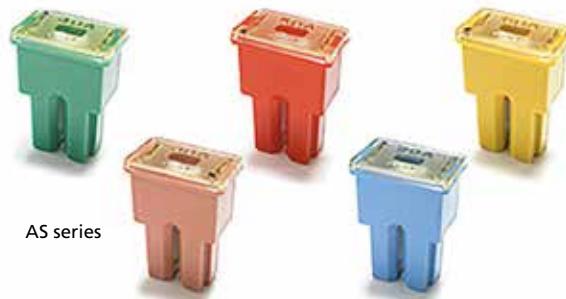
** **Manual reset**
Once the breaker detects overload or short circuit conditions, it will trip to disconnect the circuit. If you want to reset the circuit, you need to push the reset button.

Cartridge SloBlo fuses - japOTO AS, E, ES and ET series

RoHS compliant **REACH** compliant

• Meets international specs, complies to ISO 8820-4, JASO D612 and other standards
• Element visibility from top through transparent cover
• Robust/sturdy body construction
• Self extinguishing, color coded body materials
• High temperature resistive plastics used for fuse body materials
• Secure and controlled time-delayed functioning with purpose designed elements
• Integrated, endurable, Cu-alloy receptacles
• Used in Japanese, European, American and Korean designed vehicles

AS series

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

E series

ES series

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

ET series

FUSES & HOLDERS

Cartridge SloBlo fuses - japOTO B series

RoHS compliant   REACH compliant

- Meets international specs, complies to ISO 8820-4, JASO D612 and other standards
- Element visibility from top through transparent cover
- Robust/sturdy body construction
- Self extinguishing, color coded body materials
- High temperature resistive plastics used for fuse body materials
- Secure and controlled time-delayed functioning with purpose designed elements
- Integrated, endurable, Cu-alloy blades
- Used in Japanese, European, American and Korean designed vehicles

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 D series

RoHS compliant   REACH compliant

- Meets international specs, complies to JASO D612 and other standards
- Element visibility from top through transparent cover
- Robust/sturdy body construction
- Safe and highly reliable operation through ceramic heat sink construction
- Self extinguishing, color coded body materials
- High temperature resistive plastics used for fuse body materials
- Secure and controlled time-delayed functioning with purpose designed elements
- Integrated, endurable, Cu-alloy receptacles
- Used in Japanese, European, American and Korean designed vehicles

Part nr.	Color	Rating (A)	Rating (V)
CBF025D	brown	25	32
CBF030D	green	30	32

FUSES & HOLDERS
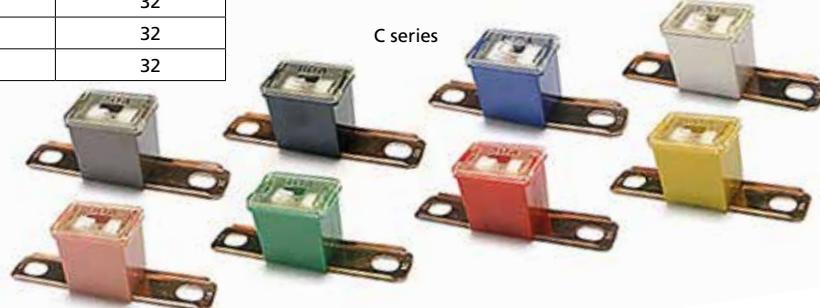
Cartridge SloBlo fuses - japOTO C and CS series

RoHS compliant   REACH compliant

• Meets international specs, complies to ISO 8820-4, JASO D612 and other standards
• Element visibility from top through transparent cover
• Robust/sturdy body construction
• Self extinguishing, color coded body materials
• High temperature resistive plastics used for fuse body materials
• Secure and controlled time-delayed functioning with purpose designed elements
• Integrated, endurable, Cu-alloy blades
• Used in Japanese, European, American and Korean designed vehicles

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

C series

CS series

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

FUSES & HOLDERS

Cartridge SloBlo fuses - japOTO J, JLP, JM and JMS series

RoHS compliant   REACH compliant

• Meets international specs, complies to JASO D612 and other standards
• Element visibility from top through transparent cover
• Robust/sturdy body construction
• Self extinguishing, color coded body materials
• High temperature resistive plastics used for fuse body materials
• Secure and controlled time-delayed functioning with purpose designed elements
• Integrated, endurable, Cu-alloy receptacles
• Used in Japanese, European, American and Korean designed vehicles

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

J series

JLP series

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

JM series

FUSES & HOLDERS

JMS series

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

Bolt-on fuses - midiOTO series OBFMD (32V)

- Meets international specs, complies to ISO 8820-5 standards
- Clear material on one side ensuring element visibility
- PA66 & PSU housing, heat & chemical resistant
- Rigid Sn plated copper alloy blades with amperage indication
- Color coded housing, marked with amperage rating
- M5 connection holes, spaced 30 mm
- Maximum torque 4.5Nm ± 1 Nm
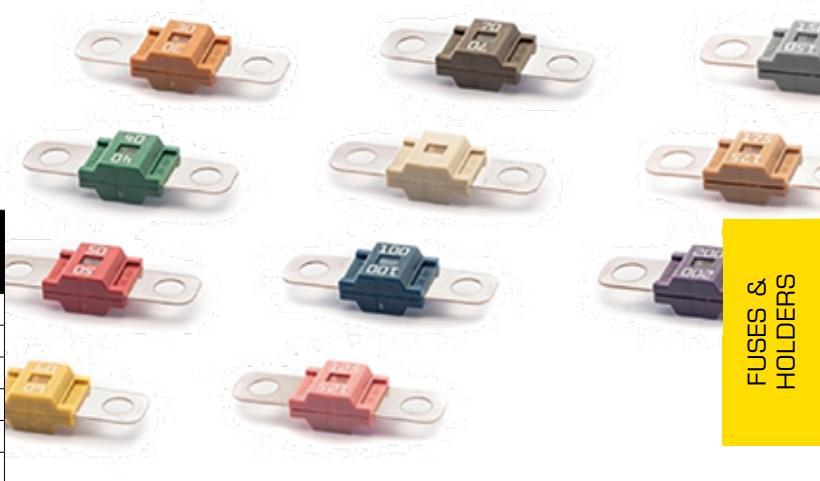
Part nr. M5 holes	Part nr. M6 holes	Color	Rating (A)	Rating (V)
OBFMD025		black	25	32
OBFMD030		orange	30	32
OBFMD040		green	40	32
OBFMD050		red	50	32
OBFMD060		yellow	60	32
OBFMD070		brown	70	32
OBFMD080		white	80	32
OBFMD100		blue	100	32
OBFMD125		pink	125	32
	OBFMD150	grey	150	32
	OBFMD175	tan	175	32
	OBFMD200	violet	200	32

Bolt-on fuses - midiOTO series OBFMDP (58V)

- Meets international specs, complies to ISO 8820-5, JASO D612 and other standards
- Element visibility through viewing window
- PA66 housing, heat & chemical resistant
- Rigid Sn plated copper alloy blades
- Color coded housing, marked with amperage rating
- M6 connection holes, spaced 30 mm
- 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
	OBFMD150M6	grey	150	58
	OBFMD175M6	tan	175	58
	OBFMD200M6	violet	200	58

FUSES & HOLDERS

Bolt-on fuses - megaOTO series OBFMG (32V)

RoHS compliant *REACH compliant*

- Meets international specs, complies to ISO 8820-5, JASO D612 and other standards
- Fusing element with diffusion tin droplet technology
- Element visibility, windows on both sides
- Thermoplastic, heat resistant, color coded housing
- M8 connection holes, spaced 51 mm
- Rating indication in OCR font, both sides
- Breaking capacity of 2000A at 32VDC
- Maximum torque 12 Nm ± 1 Nm

Part nr.	Color	Rating (A)	Rating (V)	Holes
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)

RoHS compliant *REACH compliant*

- Meets international specs, complies to ISO 20934 and other standards
- Rigid tin plated copper blades
- Sturdy riveted thermoplastic color coded housing
- M8 connection holes, spaced 51 mm
- Rating indication in OCR font, both sides
- Breaking capacity of 2500A at 70VDC
- Maximum torque 12 Nm ± 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

FUSES & HOLDERS

midi- and megaOTO fuse holders

RoHS compliant REACH compliant

FHMD1

• M5 threaded studs and hex nuts to secure midiOTO fuse
• PA 6.6 GF30 UL 94 Class V-0 body and cover material
• Standard single position, attached cover
• Stackable, to create multi-position holder
• Overhang in the cover provides improved protection of the terminals

FHMD1

FHMG1

• M8 threaded studs and hex nuts to secure megaOTO fuse
• PA 6.6 GF30 UL 94 Class V-0 body and cover material
• Standard single position, attached cover
• Stackable, to create multi-position holder
• Overhang in the cover provides improved protection of the terminals
• The 20 mm cable-entry allows use of cable diameters up to 120 mm

FHMG1

FHMD4-MG1

• M5 threaded studs and hex nuts to secure 4 midiOTO fuses
• M8 threaded studs and hex nuts to secure 1 megaOTO fuse
• PA 6.6 GF30 UL 94 Class V-0 body and cover material
• Heavy duty copper buss-bars included
• Robust holder with cover attached
• Overhang in the cover provides improved protection of the terminals

FHMD4-MG1

Part nr.	Description
FHMD1	Holder with cover for OBFMD series (1 position)
FHMG1	Holder with cover for OBFMG series (1 position)
FHMD4-MG1	Holder with cover, combi for OBFMD series (4 positions) and OBFMG series (1 position)

FUSES & HOLDERS

Bolt-on fuses - cubeOTO series OBFMC

RoHS compliant **REACH** compliant

- Meets international specs, complies to ISO 8820-6
- Element visibility
- Ceramic body material
- Single bolt fuse type technology, M8 connection
- Integrated, endurable Cu-fusing part
- Use insulating nut or equivalent alternative
- New innovative, space saving slow blow fuse series

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			

CF-M8

cubeOTO fuse holders

RoHS compliant **REACH** compliant

ACPKCUBE101

ACPKCUBE101
- Electrical protection at the most desirable place, on the battery
- Compact design resulting in significant space saving
- Sturdy construction in high quality materials
- Easy assembly
- Designed to provent rotation of the fuse during assembly
- Optional insulating cover for protection
- Cover available in 2 variations, providing the best cable entry option
- Includes application specific insulation washers and self locking nuts

ADKA101L

ADKA101R

ACPKCUBE201
- Could substitute Littelfuse 255.1000.0001
- Electrical protection at the most desirable place, on the battery
- Sturdy construction in high quality materials
- Easy assembly
- Designed to provent rotation of the fuse during assembly
- Use in combination with insulating nut

ACPKCUBE201

CF-M8

Part nr.	Description
ACPKCUBE101	Holder for OBFMC series (1 position), with insulation washer and self locking nut
ADKA101L	Cover left for use with ACPKCUBE101
ADKA101R	Cover right for use with ACPKCUBE101
ACPKCUBE201	Holder for OBFMC series (1 position)
CF-M8	M8 insulation nut for use with ACPKCUBE201

Bolt-on fuses - stripOTO series OMS-P

- Complies with VAG standard
- Element visibility
- M6 connection holes, spaced 30 mm
- Material, pure zinc

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-OMSUP125	125	48	M11
AE-OMSUP160	160	48	M11

M11 holes, spaced 60 mm
Dimensions 81,7 x 20 mm
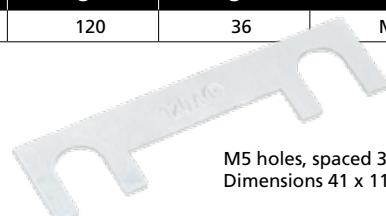
Bolt-on fuses - stripOTO series OMS-U

- DIN 72581-2
- Element visibility
- M5 connection holes, spaced 30 mm
- Easy installation trough U-form connection
- Material, pure zinc

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

FUSES & HOLDERS

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 ± 0.2 Nm
- Breaking capacity: 2.000 A at 450 Vdc

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 53,5 mm
- Maximum torque 4.5Nm ± 1 Nm
- Breaking capacity: 20.000 A at 500 Vdc (450Vdc)

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	450	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 ± 1.0 Nm
- Breaking capacity: 20.000 A at 500 Vdc

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

FUSES & HOLDERS

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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 74,8 mm
• Maximum torque 12Nm ± 1 Nm
• Breaking capacity: 16.000 A at 500 Vdc

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 74,8 mm
• Maximum torque 12Nm ± 1Nm
• Breaking capacity: 30.000 A at 500 Vdc

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 80 mm
• Maximum torque 16Nm ± 1Nm
• Breaking capacity: 30.000 A at 500 Vdc

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

FUSES & HOLDERS
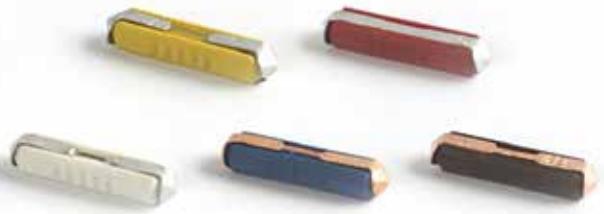
ceramicOTO fuses - CERF2000 series

• 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 ceramicOTO fuses

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 3,0 mm²) screw connects
• High temperature resistive bakelite body material
• Bajonet style closing, includes CERF2000 series 8A fuse

FH2010

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	Holder for CERF2000 series, bakelite screw connect (1 position) incl. 8A fuse
CFB02	Box for ceramic fuses, 2 positions
CFB04	Box for ceramic fuses, 4 positions
CFB06	Box for ceramic fuses, 6 positions
CFB08	Box for ceramic fuses, 8 positions
CFB12	Box for ceramic fuses, 12 positions

CFB06

FUSES & HOLDERS

glassOTO fuses - GLAF4000 (fast acting) and GLAFT4000 (time lag) series 5x20 mm

• Glass tube with copper alloy, nickel plated caps
• IEC 127 Standard sheet II for fast acting fuses, 100mA up to 20A
• Marked with voltage and current rating
• Cap enclosed solder joints

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 fuse holder

• Quick fit in-line, cable (max 3,0 mm²) screw connects
• High temperature resistive bakelite body material
• Bajonet style closing
• Includes GLAF4000 series 2A 5x20 mm glass fuse

Part nr.	Description
FH4010	Holder for GLAF4000 and GLAFT4000 series, bakelite screw connect (1 position), incl. GLAF4000 series 2A fuse

FUSES & HOLDERS

glassOTO fuses - GLAF5000 series 6,3x32 mm

RoHS compliant   REACH compliant

• Glass tube with copper alloy, nickel plated caps
• Marked with voltage and current rating
• Range from 1A up to 50A
• Cap enclosed solder joints

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-GLAF5
5 pcs GLAF5000 series

1 x GLAF5005
1 x GLAF5010
1 x GLAF5015
1 x GLAF5020
1 x GLAF5030

B3-GLAF4
5 pcs GLAF4000 series

1 x GLAF4002
1 x GLAF4003
1 x GLAF4005
1 x GLAF4006
1 x GLAF4010

FUSES & HOLDERS

Plugs & Sockets

Lighting

Vehicle Markers

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

RE686A
High power starter relay
for trucks
12V, 120A
2,4W continuous/4,8W intermittent
46 x 46 x 45 (+18) mm

RE686B
High power starter relay
for trucks
12V, 200A
2,4W continuous/4,8W intermittent
46 x 46 x 45 (+18) mm

RE620A12
Miniature relay
12V, 40A, 1,6W
26,5 x 26,5 x 24,5 mm

RE620A
Miniature relay with
insulation 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
insulation bracket
12V, 40A, 1,6W
26,5 x 26,5 x 24,5 (+16) 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**

RE626HA12
Miniature relay
12V, 80A, 1,6W
26,5 x 26,5 x 23,5 mm

RE626HA12B
Miniature relay with
insulation 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
insulation bracket
12V, 80A, 1,6W
26,5 x 26,5 x 23,5 (+16) mm

RE640A
Miniature relay with
insulation bracket
12V, 80A, 1,6W
29 x 29 x 26,5 (+16) mm

RE629A15
Small size relay with metal
bracket and fuse
12V, 15A, 1,6W
32 x 26,5 x 23,5 (+16,5) mm

1A wiring

RE629A25
Small size relay with metal
bracket and fuse
12V, 25A, 1,6W
32 x 26,5 x 23,5 (+16,5) mm

1A wiring

RE629A
Small size relay with metal
bracket and fuse
12V, 30A, 1,6W
32 x 26,5 x 23,5 (+16,5) mm

1A wiring

Special position
pin30 and pin86

RE630F12A
Miniature relay
12V, 40A, 1,6W
28 x 28 x 25,5 mm

1A wiring
Standard coil

RE630FA12B
Miniature relay with
insulation bracket
12V, 40A, 1,6W
28 x 28 x 25,5 (+16) mm

1A wiring
Standard coil

RE651A
Miniature relay
12V, 30A, 1,6W
20,5 x 15,5 x 22,5 mm

1A wiring
Standard coil

RE651AR
Miniature relay
12V, 30A, 1,6W
20,5 x 15,5 x 22,5 mm

1A wiring
Coil with resistor

RELAYS
SWITCHES

293

Relays - 12V, 5 pins

RE634A
Miniature relay
12V, 40/30A, 1,6W
Ø 40 x 37,5 mm

1C wiring
Standard coil

RE730B*
Small size relay
12V, 40/30A, 1,6W
28 x 28 x 25,5 mm

1C wiring
Coil with resistor

RE732A
Small size relay
12V, 40/30A, 1,6W
35,5 x 35,5 x 45,5 mm

1C wiring
Standard coil

*** RE730B will be replaced by RE734B
after stock runs out**

RE62012C
Miniature relay
12V, 40/30A, 1,6W
26,5 x 26,5 x 24,5 mm

1C wiring
Standard coil

RE620B
Miniature relay with
insulation bracket
12V, 40/30A, 1,6W
26,5 x 26,5 x 24,5 (+16) mm

1C wiring
Standard coil

RE62012CD
Miniature relay
12V, 40/30A, 1,6W
26,5 x 26,5 x 24,5 mm

1C wiring
Coil with diode

RE62012CDGRN
Miniature relay
12V, 40/30A, 1,6W
26,5 x 26,5 x 24,5 mm

1C wiring
Coil with diode

RE62012CBD
Miniature relay with
insulation bracket
12V, 40/30A, 1,6W
26,5 x 26,5 x 24,5 (+16) mm

1C wiring
Coil with diode

RE620Q12C
Miniature relay
12V, 40/30A, 1,6W
35,5 x 35,5 x 45 mm
**Waterproof in combination
with SOCKETS 04 and 04-5**

1C wiring
Standard coil

RE62012CBR
Miniature relay with
insulation bracket
12V, 40/30A, 1,6W
26,5 x 26,5 x 24,5 (+16) mm

1C wiring
Coil with resistor

RE62012CR
Miniature relay
12V, 40/30A, 1,6W
26,5 x 26,5 x 24,5 mm

1C wiring
Coil with resistor

RE630B
Miniature relay with
insulation bracket
12V, 40/30A, 1,6W
28 x 28 x 25,5 (+16) mm

1C wiring
Standard coil

RE630F12CB
Miniature relay with
insulation bracket
12V, 40/30A, 1,6W
28 x 28 x 25,5 (+16) mm

RE630F12CD
Miniature relay
12V, 40/30A, 1,6W
28 x 28 x 25,5 mm

1C wiring
Standard coil

1C wiring
Coil with diode

Special position
pin30 and pin86

RE640B
Miniature relay with
insulation bracket
12V, 80/60A, 1,6W
29 x 29 x 26,5 (+16) mm

1C wiring
Standard coil

RE65012CRS*
Miniature relay
12V, 30/25A, 1,6W
23,5 x 15,5 x 26,5 mm

1C wiring
Coil with resistor

RE652A
Miniature relay
12V, 30/20A, 1,6W
23,2 x 15,5 x 25,5 mm

1C wiring
Standard coil

RE651B
Miniature relay
12V, 30/25A, 1,6W
20,5 x 15,5 x 22,5 mm

1C wiring
Standard coil

RE651D
Miniature relay
12V, 35/25A, 1,6W
20,5 x 15,5 x 22,5 mm

1C wiring
Coil with diode
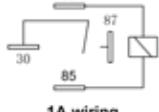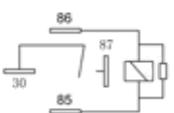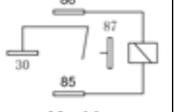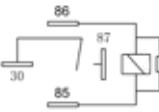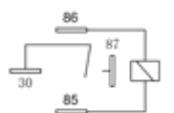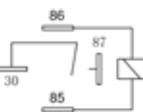
RE62012U
Miniature relay
12V, 2x20A, 1,6W
26,5 x 26,5 x 24,5 mm

1U wiring
Standard coil

RE62012UB
Miniature relay with
insulation bracket
12V, 2x20A, 1,6W
26,5 x 26,5 x 24,5 (+16) mm

1U wiring
Standard coil
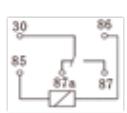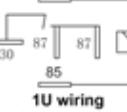
RE62012UBD
Miniature relay with
insulation bracket
12V, 2x20A, 1,6W
26,5 x 26,5 x 24,5 (+16) mm

1U wiring
Coil with diode
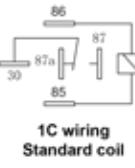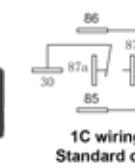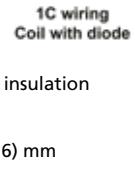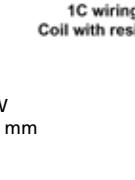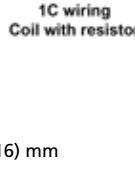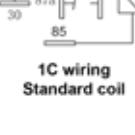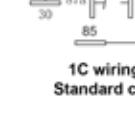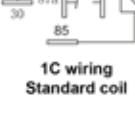
*** RE650 series will be replaced by RE652 series after
stock runs out**

Relays - 24V, 4 pins
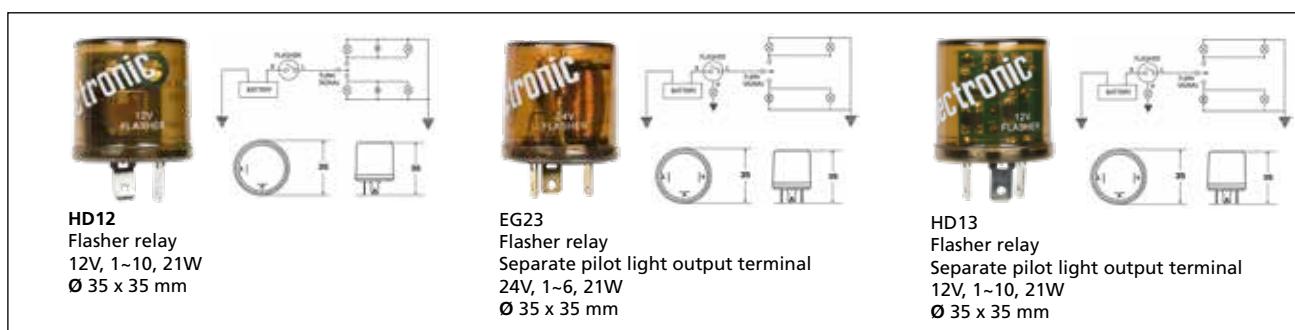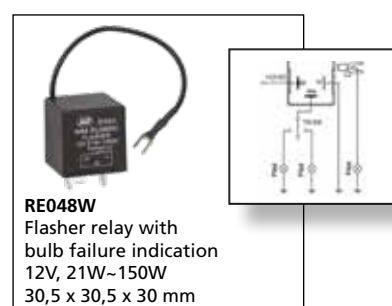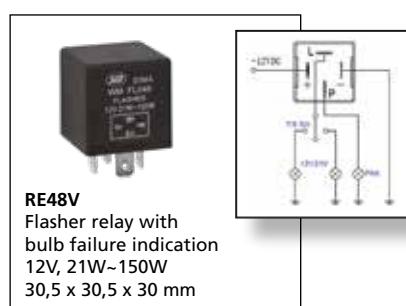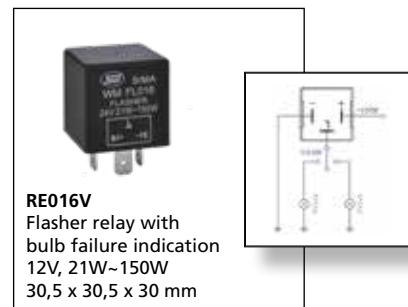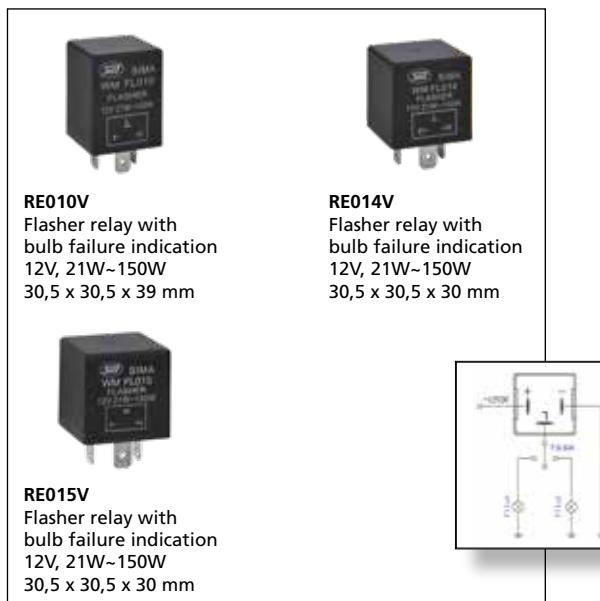
RE62024A
Miniature relay
24V, 20A, 1,6W
26,5 x 26,5 x 24,5 mm

1A wiring
Standard coil

RE62024AR
Miniature relay
24V, 20A, 1,6W
26,5 x 26,5 x 24,5 mm

1A wiring
Coil with resistor

RE620A24BR
Miniature relay with
insulation bracket
24V, 20A, 1,6W
26,5 x 26,5 x 24,5 (+16) mm

1A wiring
Coil with resistor

RE630A
Miniature relay with
insulation bracket
24V, 20A, 1,6W
28 x 28 x 25,5 (+16) mm

1A wiring
Standard coil

RE630FA24B
Miniature relay with
insulation bracket
24V, 20A, 1,6W
28 x 28 x 25,5 (+16) mm

1A wiring
Standard coil

Special position
pin30 and pin86

RE626H24A
Miniature relay
24V, 40A, 1,6W
26,5 x 26,5 x 23,5 mm

1A wiring
Standard coil

RE626HA24B
Miniature relay with
insulation bracket
24V, 40A, 1,6W
26,5 x 26,5 x 23,5 (+16) mm

1A wiring
Standard coil

Relays - 24V, 5 pins
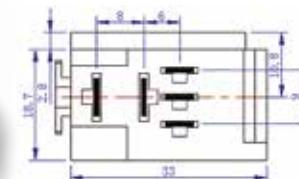
RE734C
Miniature relay
24V, 40/30A, 1,6W
23 x 15,3 x 25,5

1C wiring
Standard coil

RE62024U
Miniature relay
24V, 2x10A, 1,6W
26,5 x 26,5 x 24,5 mm

1U wiring
Standard coil

RE62024UB
Miniature relay with
insulation bracket
24V, 2x10A, 1,6W
26,5 x 26,5 x 24,5 (+16) mm

1U wiring
Standard coil

RE62024C
Miniature relay
24V, 20/15A, 1,6W
26,5 x 26,5 x 24,5 mm

RE62024CB
Miniature relay with
insulation 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 insulation
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
insulation 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
insulation bracket
24V, 60/40A, 1,6W
26,5 x 26,5 x 23,5 (+16) mm

RE630C
Miniature relay with
insulation 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
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
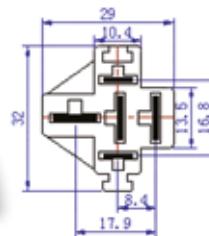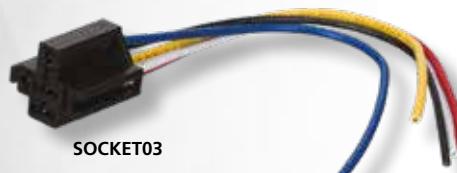
SOCKET01

For 40A automotive relays
Matches RE650, RE651 and RE652 series
Stackable
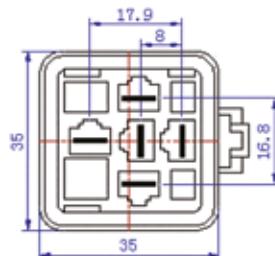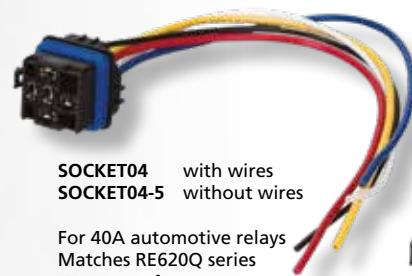
SOCKET02

For 40A automotive relays
Matcges RE620, RE626,
RE630 and RE634 series
Stackable

SOCKET03

For 80A automotive relays
Matches RE626H and RE640 series
Stackable

SOCKET04   with wires
SOCKET04-5 without wires

For 40A automotive relays
Matches RE620Q series
Waterproof

**Sockets 01, 02 and 03 are stackable
through male-female slots**

Switches

AE-ZZ012
Toggle switch

On-Off-On
12V, 10A
3 Screw contacts
Installation dimension Ø 13 mm

AE-ZZ114
Toggle switch

On-Off-On
12V, 25A
3 Screw contacts
Installation dimension Ø 13 mm

AE-ZZ021
Toggle switch

On-Off
12V, 10A
2 Tab contacts
Installation dimension Ø 13 mm

AE-ZZ118
Toggle switch

On-Off-On
12V, 10A
3 Tab contacts
Installation dimension Ø 13 mm

AE-ZZ119
Toggle switch

On-Off-On
12V, 10A
3 Tab contacts
Installation dimension Ø 13 mm

Toggle switch

12V, 25A
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

12V, 25A
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
12V, 20A
3 Tab contacts
Installation dimension Ø 13 mm

AE-ZZ120 blue
AE-ZZ121 red
AE-ZZ122 green

Toggle switch with bulb

On-Off
12V, 10A
3 Tab contacts
Installation dimension Ø 13 mm

AE-ZZ123 amber
AE-ZZ124 blue
AE-ZZ125 green

LED toggle switch

On-Off
20A@12V
3 Tab contacts
Installation dimension Ø 12,2 mm

AE-ZZ130 amber
AE-ZZ131 blue
AE-ZZ132 red
AE-ZZ133 green

AE-ZZ003
Push button switch with rubber cover

(On)-Off
20A@12V
2 Screw contacts
Installation dimension Ø 23 mm

Push button switch

On-Off
12V, 15A
2 Tab contacts
Installation dimension Ø 22,5 mm

AE-ZZ138 without rubber cover
AE-ZZ139 with rubber cover

AE-ZZ107
Push button switch

On-Off
12V, 20A
2 Screw contacts
Installation dimension Ø 22,5 mm

AE-ZZ140
Push button switch with rubber cover

On-Off
60A@12V or 40A@24V
2 Screw contacts
Installation dimension Ø 16,5 mm

AE-ZZ100
Momentary push button switch
(On)-Off
11A@12V or 2,5A@24V
2 Tab contacts
Installation dimension Ø 20 mm

AE-ZZ108
Push button switch

On-Off
10A@12V or 5A@24V
2 Screw contacts
Installation dimension Ø 22,5 mm

AE-ZZ070
Universal push-pull switch

Off-On-On
6V with 30A fuse or 12V with 15A fuse
5 Screw contacts
Installation dimension Ø 11 mm

AE-ZZ116
Push-pull universal head light switch with symbol imprint on the knob

On-Off
12V, 30A
2 Screw contacts
Installation dimension Ø 13 mm

AE-ZZ024
Push-pull switch with small knob

On-Off
12V, 6A
2 Screw contacts
Length mounting stem 19 mm
Installation dimension Ø 9 mm

AE-ZZ117
Push-pull switch with small knob

On-Off
12V, 6A
2 Screw contacts
Length mounting stem13 mm
Installation dimension Ø 9 mm

AE-ZZ025
Push-pull switch with small knob

On-Off
12V, 6A
2 Screw contacts
Length mounting stem 8 mm
Installation dimension Ø 9 mm

AE-ZZ141
Push-pull switch

On-Off
12V, 6A
2 Tab contacts
Installation dimension Ø 9 mm

AE-ZZ032
Push-pull switch with small knob

On-Off
10A@12V or 5A@24V
2 Screw contacts
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
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
Installation dimension Ø 8,5 mm

RELAYS SWITCHES

LED rocker switch

On-Off
12V, 10A
3 Tab contacts 4.8 mm

AE-ZZ215 red
AE-ZZ216 amber
AE-ZZ217 green
AE-ZZ218 blue

Rocker switch panel
combination with bulb

On-Off
12V, 10A
3 Tab contacts

AE-ZZ105 green
AE-ZZ106 amber

LED rocker switch

On-Off
12V, 10A
3 Tab contacts 4.8 mm

AE-ZZ219 red
AE-ZZ220 amber
AE-ZZ221 green
AE-ZZ222 blue

AE-ZZ011
Door contact

(Off)-On
1,5A@12V or 0,75A@24V
2 Screw contacts (M3)
Installation dimension Ø 21 mm

AE-ZZ150
Universal door light switch

(Off)-On
Copper contacts

AE-ZZ018
Brake light switch
(On)-Off
10A@12V
2 Screw contacts

AE-ZZ040
Zener diode

12V
Voltage to 400V
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
23A@12V or 11,5A@24V
5 Tab contacts 6,3 mm
Protection type IP53
Installation dimension Ø 12,5 mm

AE-ZZ145
Burglar alarm switch with 2 keys

With dust shutter
Off-On
2 Screw contacts
Installation dimension Ø 20,5 mm

AE-ZZ007
Ignition/starter switch with 2 keys
AE-ZZ07SL
Set of 2 spare keys

With starter lockout
12V, 2-25A
5 Silver plated tab contacts 6,3 mm
Protection type IP40
Installation dimension Ø 18,5 mm

AE-ZZ007SL

AE-ZZ007

Switch covers

AE-ZZ148
Waterproof rubber cover

For toggle switches with M12 thread
Length 24,5 mm

Security cover for On-Off toggle switches

AE-ZZ146 red
AE-ZZ147 carbon

RELAYS SWITCHES

Pilot lights

LED pilot light
Installation dimension Ø 9 mm
Tab contacts
12V
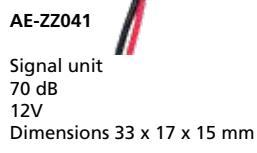
AE-ZZ142 amber
AE-ZZ143 green
AE-ZZ144 red

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

AE-ZZ041

Signal unit
70 dB
12V
Dimensions 33 x 17 x 15 mm

AE-ZZ084

Signal unit
70 dB, tone pulse
12-24V
Dimensions Ø 32 x 30 mm

AE-ZZ053

Signal unit
95 dB, continuous sound
12-24V
Dimensions 40 x 34 mm

AE-ZZ054

Signal unit
102 dB
12-24V
Dimensions 91 x 45 x 54 mm
Protection type IP67

AE-ZZ056

Signal unit
102 dB
12-24V
Dimensions 103 x 41 x 66 mm
Protection type IP67

AE-ZZ057 large (100 x 41 x 67 mm)
AE-ZZ058 small (72 x 38 x 53 mm)

Signal unit
102 dB
12-24V
Protection type IP67

AE-ZZ060

Signal unit
96 dB
12-24V
Dimensions 73 x 76 mm

RELAYS
SWITCHES

Truck & Trailer Parts

Plugs & Sockets

Lighting

Vehicle Markers

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

Quick interchangeable crimping series

No need to use any other tools, simply change the die set. Compose your own tool sets from the following components:

• Choose from 3 different quick change ratchet tools

MHQIBE
9" carbon steel tool

No die-set included

HJ43I
9" aluminum tool

No die-set included
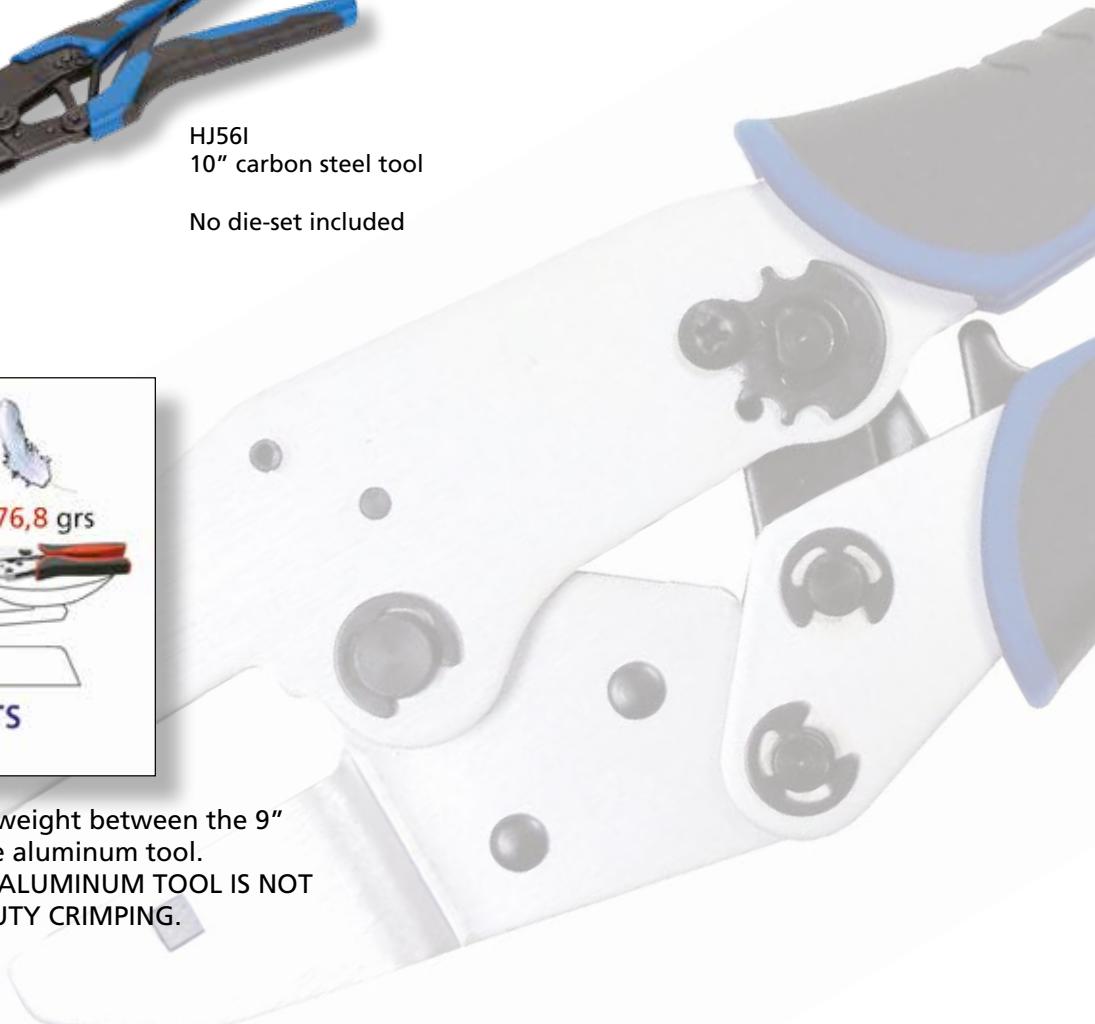
HJ56I
10" carbon steel tool

No die-set included

494 grs   276,8 grs

-217,2 grs

Notice the difference in weight between the 9" carbon steel tool and the aluminum tool.
PLEASE NOTE THAT THE ALUMINUM 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 20-14/20-16 0.5-1.5/0.5-2.5 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 AWG)** AWG 22/20/18/16/14/12 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 22-18/16-14/12-10 0.5-1.0/1.5-2.5/4.0-6.0 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 20-18/16-14/12-10/8 1.5/2.5/6.0/10.0 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

TOOLS

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 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 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 AWG)** AWG 10/8.0/6.0 6.0/10/16 mm²	DSQII2	**For MC4 solar connectors** AWG 14/12/10 2.5/4.0/6.0 mm²
DSQIF1	**For cord-end terminals (large AWG)** 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 14/22/8.0-6.0 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 2.5/4.0 mm²
DSQIH2	**For Superseal terminals** AWG 22-20/16 DIN 0.35-0.5/1.5 mm	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 1.0/1.5/2.5mm²

TOOLS

Part nr.		Description	Part nr.		Description
DSQIK4		**For open barrel Deutsch terminals (DT series)** AWG 20/18/16 0.5/1.0/1.5 mm²	DSQIL1		**For male Junior Power Timer 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 0.5/1.0/1.5 mm²	DSQIL2		**For female Junior Timer (0.12-2.5 mm²) and ST (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 1.5/2.5/4.0 mm²	DSQIL10		**For Standard Power Timer and Multiple Contact Point terminals** AWG 24-20/20-18/16-14/12 0.2-0.5/0.5-1.0/1.5-2.5/4.0 mm² Suitable for insulation-reduced stranded wires
DSQIKQ8		**For solid Deutch terminals (4 indent crimp)** AWG 20/16/12 0.5/1.5/4.0 mm² MIM procedure	DSQIL11		**For female Standard Power Timer terminals with single wire sealing system** AWG 20-18/16-14/15-12 0.5-1.0/1.5-2.5/3.0-4.0 mm²
DSQIL		**For female Junior Power Timer 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			

• Or choose from our pre-filled cases with tool and die sets

ASSAETOOL02

Complete kit, consisting of
9" 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

309

ASSAETOOL03

Complete kit, consisting of
9" carbon steel tool MHQIBE
and 6 die sets for open
barrel Deutsch terminals:

DSQIK1
DSQIK2
DSQIK3
DSQIK4
DSQIK5
DSQIK6

ASSAETOOL04

Complete kit, consisting of
9" carbon steel tool with die set for
0,5/1,5/4,0 mm² solid Deutsch
terminals (2 indents),
extraction 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
9" aluminum tool HJ43I
and 3 die sets for open
barrel terminals:

DSQIC
DSQIC1
DSQIH

ASSAETOOL60*

Complete kit, consisting of 9" carbon steel tool MHQIBE and 2 die sets for insulated terminals:

DSQIA
DSQIA3

OR

ASSAETOOL61*

Complete kit, consisting of 9" carbon steel tool MHQIBE and 2 die sets for open barrel terminals:

DSQIC
DSQIC1

OR

ASSAETOOL62*

Complete kit, consisting of 9" carbon steel tool MHQIBE and 2 die sets for open barrel Deutch DT series terminals:

DSQIK3
DSQIK4

+

9086BB**
Case for a 9" tool and up to 3 die sets

+

MHQIBE
9" carbon steel tool

*   It is possible to choose another combination of die sets (up to 3 die sets)
** This case is also separately available

ASSAETOOL55

Complete kit, consisting of 9" 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 9" tool and 5 die sets

TOOLS

The quick interchangeable ratchet tools are also available in our professional assortment kits on pages 318 - 320

Crimping tools - For insulated terminals

BN-03C
For insulated terminals

0,5 - 6,0 mm²

MH-1DS
For insulated flag terminals

0,5 - 2,5 mm²

KH-13
For heat shrink and
closed end terminals

0,5-6,0 mm²

Crimping tools - For non-insulated open barrel terminals

BN-02B
For non-insulated open barrel
terminals

0.1-1.0 mm²

BN-03B
For non-insulated open barrel
terminals

DOUBLE crimp
0,5 - 6,0 mm²

BN-06FL
For non-insulated open barrel
flag terminals

0,5 - 2,5 mm²

Crimping tools - For non-insulated terminals

BN-10
For non-insulated **(brazed seam only)** terminals

1,5 - 10,0 mm²

KH-9
For non-insulated terminals

1,5 - 10,0 mm²

KH-16
For non-insulated terminals

1,5 - 16,0 mm²

KH-22
For non-insulated terminals

6,0 - 25,0 mm²

KH-38
For non-insulated terminals

6,0 - 35,0 mm²

KHB-70
For non-insulated terminals
HEXAGONAL crimp

6,0 - 70,0 mm²

KHB-120
For non-insulated terminals

HEXAGONAL crimp
10,0 - 120,0 mm²

KH-120
For non-insulated terminals

10,0 - 120,0 mm²

KHB-150
For non-insulated terminals

HEXAGONAL crimp
25,0 - 150,0 mm²

TOOLS

Crimping tools - For cord end terminals

For single wire cord-end terminals

BN-06WF
For cord-end terminals

0,5 - 4,0 mm²

MH-2P
For cord-end terminals

6,0 - 16,0 mm²

MH-3P
For cord-end terminals

25,0 - 35,0 mm²

For single and twin wire cord-end terminals
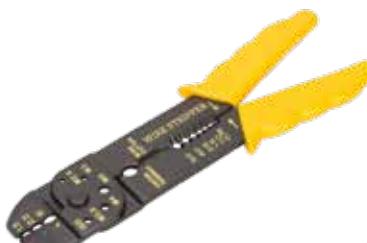
92145
For cord-end terminals

SQUARE crimp
Single wire 0,08 - 10,0 mm²
Twin wire 2x0,25 - 2x4,0 mm²

92146
For cord-end terminals

HEXAGONAL crimp
Single wire 0,08 - 16,0 mm²
Twin wire 2x0,25 - 2x6,0 mm²

TOOLS

Multi-tools - For insulated and non-insulated terminals

KH-502
Crimping:
Insulated terminals
0,5 - 6,0 mm²

Stripping:
0,75 - 6,0 mm²

KH-502B
Crimping:
Open barrel terminals
0,5 - 6,0 mm²

Stripping:
0,75 - 6,0 mm²

KH-507
Crimping:
Insulated & non-insulated **(brazed seam only)** terminals
0,5 - 6,0 mm²

Stripping:
0,75 - 6,0 mm²

MEB-700C
Crimping:
Insulated & open barrel terminals
0,5 - 6,0 mm²

Stripping:
0,75 - 6,0 mm²

MEB-900C
Crimping:
Non-insulated **(brazed seam only)** &
open barrel terminals
0,5 - 6,0 mm²

Stripping:
0,75 - 6,0 mm²

ST062
Crimping:
Non-insulated terminals **(brazed seam only)**: 0,5 - 2,5 mm²
Open barrel terminals:
0,25 - 1,5 mm²
Coaxial cable connectors: 6 mm

Stripping:
0,25 - 4,0 mm²

TOOLS

Wire strippers & cutters

Wire strippers

ST-700
Self-adjusting cutter/stripper

0,25 - 4,0 mm²

ST-731
Wire stripper

0,25 - 6,0 mm²

ST-801
Multifunctional pliers/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 blades and 1 screw

ST-50
Wire stripper

0,5 - 4,0 mm²

ST-800
Multifunctional pliers/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 blades and 1 screw

LY-700E
Wire stripper

0,5 - 10,0 mm²

Wire cutters

LK-22A
Wire cutter for copper and
aluminum wire

Up to 25 mm²

LK-38A
Wire cutter for copper and
aluminum wire

Up to 35 mm²

LK-60A
Wire cutter for copper and
aluminum wire

Up to 50 mm²

LK-38B
Cable scissors for copper and aluminum
wire

Up to 35 mm²

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

TOOLS

Tightening and cutting tools for cable ties

LY-600A
Tightening and cutting cable-ties
2,4 - 4,8 mm width

Thickness up to 1,45 mm

LY-600T
Tightening and cutting cable-ties
2,2 - 4,8 mm width

Thickness up to 1,6 mm

For nylon cable ties

KBT-5A
Tightening and cutting cable-ties
up to 12,0 mm width

Thickness up to 2,3 mm

LY-600L
Tightening and cutting cable-ties
up to 13,0 mm width

Thickness up to 1,5 mm

For stainless steel cable ties

EPCT0017-3
Replaceable ratchet set
Replacement recommended
after 5000 cuts

EPCT0017-2
Replaceable blade
Replacement recommended after
5000 cuts
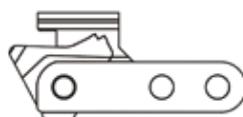
EPCT0017
For stainless steel cable ties
4,5 - 7,9 mm width

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

EPCT0017-1
Replaceable blade seat
Replacement recom-
mended after 10000
cuts

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

TOOLS

317

Terminal release tools

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, WV/Audi

ASSUTRT
12 pcs universal terminal release tool set in blue case

ASSUTRT002
7 pcs Deutsch terminal release tool set in red case

UT012
Terminal release tool for Delphi Weatherpack

Heat guns - For heat shrink sleeve, heat shrink terminals and solder sleeves

MJ-300
Heat gun with micro-flame*

MJ-600
Flameless heat gun*

90-51773
Universal lighter gas (butane) 200 ml

* Heat guns are supplied with **empty** lighter

TOOLS

Assortment Kits

Professional kits - Terminals / fuses

HI310552BC
552 pcs PVC terminals

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

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

HF110278BC
279 pcs Fuses & fuse holders

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

HJ600135BC-A1
398 pcs Heat shrinkable terminals

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

HJ603713BC
3713 pcs Cord end terminals insulated and non-insulated

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

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

HJ601633BC
1663 pcs Cord end terminals insulated

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

150 x AHW 0.50HL	75 x AHB 2.50L
200 x AHW 0.50N	60 x AHGRS 4.00N
200 x AHGRS 0.75N	40 x AHGRS 4.00L
150 x AHGRS 0.75L	50 x AHG 6.00N
200 x AHR 1.00N	30 x AHG 6.00L
150 x AHR 1.00L	25 x AHR 10.00N
100 x AHZ 1.50N	15 x AHR 10.00L
75 x AHZ 1.50L	25 x AHB 16.00N
100 x AHB 2.50N	15 x AHB 16.00L

HJ602318BC
2318 pcs Cord end terminals non-insulated

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

321

Professional kits - Waterproof automotive connectors

HJ410339BC-H2H3
339 pcs Superseal

1 x 9" aluminum ratchet crimper
1 x die set DSQIH2
1 x die set DSQIH3

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

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

HJ410220BC-H6H7
220 pcs Delphi Weatherpack

1 x 9" aluminum ratchet crimper
1 x die set DSQIH6
1 x die set DSQIH7
1 x extraction tool (also available separately)

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

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
1 x 4 pole female housing

HJ888090BC-K3K4
92 pcs Deutsch DT

1 x 10" carbon steel ratchet crimper
1 x die set DSQIK3
1 x die set DSQIK4
1 x UT011 extraction tool

Terminals:
30 x male 0,5~1,5 mm²
30 x fem. 0,5~1,5 mm²

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

HE300350HC
350 pcs Superseal

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

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

HE290232HC
232 pcs Delphi Weatherpack

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

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
2 x 4 pole female housing

VAG015/1
115 pcs

Box with euroslot hangtab

Wire seals:
25 x grey seal

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

VAG035/1
95 pcs

Box with euroslot hangtab

Wire seals:
25 x blue seal

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

AE INDUSTRIES

PVC-insulated terminals

AD-101
61 pcs

1 x multi-tool

10 x BFV 1.25-3
4 x BFV 1.25-4
10 x BFV 2-3
4 x BFV 1.25-4
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

AD-002
307 pcs

1 x multi-tool	10 x BFVC 1.25
	10 x BFVC 2
20 x BFV 1.25-4	6 x BFVC 5.5
20 x BFV 1.25-5	
20 x BFV 2-4	20 x BFVDF 1.25-110A8
20 x BFV 2-5	20 x BFVDM 1.25-110A8
20 x BFV 2-6	20 x BFVDF 1.25-250A
10 x BFV 5.5-8	20 x BFVDM 1.25-250
	20 x BFVDF 2-187A5
20 x BFV 1.25-B3A	20 x BFVDM 2-187A5
20 x BFV 2-YS4A	10 x BFVDF 5.5-250A

AD-006
541 pcs

1 x multi-tool

52 x BFV 1.25-3	30 x B 1-SD
30 x BFV 1.25-5	8 x B 5.5-SD
40 x BFV 2-S3.3	
30 x BFV 2-4	30 x BCVGF 1.25-5
30 x BFV 2-5	30 x BFVGM 1.25-5
40 x BFV 1.25-B3A	30 x BFVDF 1.25-250A
30 x BFV 2-YS4A	30 x BFVDM 1.25-250
	30 x BFVDF 2-187A5
20 x BFVC 1.25	30 x BFVDM 2-187A5
20 x BFVC 2	30 x BFVDF 2-250A

AD-008
361 pcs

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

HP250098D
98 pcs

1 x multi-tool
1 x box cutter
1 x insulated flat screw driver
1 x insulated cross screw driver
1 x voltage tester
1 x insulation tape 19 mm x 10 m
2 x terminal block 0,75~2,5 mm²

5 x ring terminal red M6
5 x ring terminal blue M6
5 x spade terminal red M6
5 x spade terminal blue M6

5 x butt connector red
5 x butt connector blue
10 x closed end connector
    0,5~1,5 mm²
10 x cord end terminal
    0,5 mm², L 8 mm, orange
10 x cord end terminal
    0,75 mm², L 10 mm, white
10 x cord end terminal
    1 mm², L 10 mm, yellow
20 x cord end terminal
    1,5 mm², L 10 mm, red

ASSORTMENT KITS

AD-009
1000 pcs

Without tool

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

Solder sleeves & heat shrink butt connectors

AD-015
120 pcs

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-050
200 pcs

50 x CWT-9001
50 x CWT-9002
50 x CWT-9003
50 x CWT-9004

AD-051
400 pcs

100 x CWT-9001
100 x CWT-9002
100 x CWT-9003
100 x CWT-9004

ASSORTMENT KITS

AE
INDUSTRIES

Cord end terminals

ASSAHI-501
400 pcs

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

Single wire

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

Twin wire

ASSAHI-502
200 pcs

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

ASSAHI-402
45 pcs

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

ASSAH-500
2500 pcs

Non-insulated

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

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

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

ASSORTMENT KITS

Fuses

HF020096HA
80 pcs normOTO
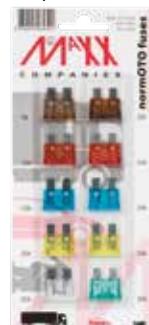
Box with euroslot hangtab

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 normOTO

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 normOTO

1 x SBF1505
1 x SBF1575
2 x SBF1510
2 x SBF1515
2 x SBF1520
1 x SBF1525
1 x SBF1530

HF030096HA
200 pcs miniOTO

Box with euroslot hangtab

miniOTO

10 x BF7003
30 x BF7005
30 x BF7075
30 x BF7010
30 x BF7015
30 x BF7020
20 x BF7025
20 x BF7030

B3-BF7000
7 pcs miniOTO

1 x BF7005
1 x BF7075
1 x BF7010
1 x BF7015
1 x BF7020
1 x BF7025
1 x BF7030

B1-F7000
10 pcs miniOTO

1 x BF7005
1 x BF7075
2 x BF7010
2 x BF7015
2 x BF7020
1 x BF7025
1 x BF7030

miniOTO Low Profile (LP)

B1-FLP7000
10 pcs miniOTO LP

HF350071HA
186 pcs minoOTO LP

1 x fuse puller

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

1 x BFLP7005
1 x BFLP7075
2 x BFLP7010
2 x BFLP7015
2 x BFLP7020
1 x BFLP7025
1 x BFLP7030

B3-BFLP7000
7 pcs miniOTO LP

1 x BFLP7005
1 x BFLP7075
1 x BFLP7010
1 x BFLP7015
1 x BFLP7020
1 x BFLP7025
1 x BFLP7030

mikrOTO II

B3-BF2000
7 pcs mikrOTO II

HF510071HA
76 pcs mikrOTO II

1 x fuse puller

5 x BF2005
5 x BF2075
15 x BF2010
15 x BF2015
15 x BF2020
10 x BF2025
10 x BF2030

Box with euroslot hangtab

1 x BF2005
1 x BF2075
1 x BF2010
1 x BF2015
1 x BF2020
1 x BF2025
1 x BF2030

ASSORTMENT KITS

HF040024HA
20 pcs maxiOTO

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

Box with euroslot hangtab

B3-CERF
5 pcs ceramicOTO

ceramicOTO

1 x CERF2005
1 x CERF2008
1 x CERF2016
1 x CERF2025
1 x CERF2040

glassOTO

B3-GLAF5
5 pcs glassOTO 6,3x32 mm

1 x GLAF5005
1 x GLAF5010
1 x GLAF5015
1 x GLAF5020
1 x GLAF5030

B3-GLAF4
5 pcs glassOTO 5x20 mm

1 x GLAF4002
1 x GLAF4003
1 x GLAF4005
1 x GLAF4006
1 x GLAF4010

ASSORTMENT KITS

Heat shrink sleeve

ADSWB-001
170 pcs 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 euroslot hangtab

ADSWC-005
590 pcs Single wall 2:1
Black, red, white, blue and yellow
Length pcs.: 50, 100, 150 and 200 mm

5 x 20 pcs 1,2 > 0,6 mm
5 x 20 pcs 1,6 > 0,8 mm
5 x 20 pcs 2,4 > 1,2 mm
5 x 20 pcs 3,2 > 1,6 mm
5 x 10 pcs 4,8 > 2,4 mm
5 x 10 pcs 6,4 > 3,2 mm
5 x 6 pcs 9,5 > 4,8 mm
5 x 5 pcs 12,7 > 6,4 mm
5 x 4 pcs 19,1 > 8,5 mm
5 x 3 pcs 25,4 > 12,7 mm

ADDWC-002
87 pcs 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 euroslot hangtab

ADDWB-002
87 pcs 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 euroslot hangtab

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

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

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**

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Cable ties

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**

Grommets

HD190210KC
210 pcs Open grommets

50 x HD190050P18
50 x HD190050P316
35 x HD190025P14
25 x HD190025P516
20 x HD190010P38
10 x HD190010P12
10 x HD190010P2564
5 x HD190005P58
5 x HD190005P1116

HD170120BG
120 pcs Blanking grommets

20 x HD1700BLGP15 10 x HD1700BLGP27
20 x HD1700BLGP17 10 x HD1700BLGP30
15 x HD1700BLGP20 10 x HD1700BLGP32
15 x HD1700BLGP22   5 x HD1700BLGP35
10 x HD1700BLGP25   5 x HD1700BLGP40

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BLOCKS -HOUSING - FUSES - FUSE HOLDERS - RELAYS - SWITCHES - PILOT LIGHTS - BUZZERS - TOOLS - ASSORTMENT KITS