Lighting
Installation material, lights and reflectors
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TITGEMEYER GmbH & Co. KG
Osnabrück
Over 100 years of tradition and expertise

At the turn of the century, an ironware wholesale business was established by the two Titgemeyer brothers, Adolf and Fritz, in their hometown of Melle. A few years later, offices were opened in the neighbouring town of Osnabrück. Since then, the business enterprise group Titgemeyer has continuously developed and is today a leader in the fields of fastening technology and commercial vehicle equipment. The medium sized family organization is now led by the third generation - always with the aim of supplying the optimum solution for the customer - from single fixings, right up to complex vehicle systems.

Vehicle components with style

The ideas and wishes of our customers are our benchmark. That is why we carefully develop approved products and systems for the manufacture of modern commercial vehicles. Safety, cost effectiveness and the environment - these requirements are all satisfied by our product range. The original and innovative body kit system, GETO Van®, is only one of many system solutions available from TITGEMEYER today.

Fastening Technology

The more varied the requirements, the more individual our solution is. The result: an extensive product range of fastening technology systems and solutions. New products are constantly being developed, as the manufacturing industry demands specially designed solutions. TITGEMEYER introduced the POP® blind rivet to the German market. Its application revolutionised traditional fastening technology.

The TITGEMEYER fastening technology product range

- Blind Rivets
- Threaded Inserts
- Assembly Systems
- Installation Tools
- Sealants and Adhesives

The TITGEMEYER commercial vehicle product range

- Body Kits
- Chassis Technology
- Bodywork Components
- Bodywork Systems

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</table>

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Vehicle wiring

Vehicle wiring type FLLK

**Construction:**
- Bright fine wire copper conductor with plastic insulation
- Single cores to DIN 72 551, form B
- Additional plastic outer sheath, black

<table>
<thead>
<tr>
<th>No. of cores</th>
<th>Nominal cross-section [mm²]</th>
<th>Copper No.</th>
<th>Wire-Strands</th>
<th>Ø [mm]</th>
<th>Cross-section, flat [mm]</th>
<th>Weight approx. [kg/m]</th>
<th>Article No.</th>
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<tr>
<td>7</td>
<td>1.5</td>
<td>29.0</td>
<td>21</td>
<td>0.3</td>
<td>3.9 x 6.6 mm.</td>
<td>0.054</td>
<td>670 209 000</td>
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</table>

Plastic cable type NYMHY - Medium duty plastic sleeved cable to VDE standard

**Nominal voltage:** 500 volts (permitted operating voltage in d.c. circuits: 440 volts in respect to earthed conductor).

**Construction:** Copper conductor bright, fine wire, plastic insulation
- Cores stranded, in 7 colours
- Plastic outer sheath black

<table>
<thead>
<tr>
<th>No. of cores</th>
<th>Outer Ø [mm]</th>
<th>Nominal cross-section [mm²]</th>
<th>Copper No.</th>
<th>Weight approx. [kg/m]</th>
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<tbody>
<tr>
<td>7</td>
<td>10.8</td>
<td>101</td>
<td>0.220</td>
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<td>670 229 000</td>
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</table>
Cable and chassis clips

Chassis clips

For chassis thicknesses up to approx. 5 mm

**Material:** Spring steel, burnished

<table>
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<tr>
<th>For outer cable ø [mm]</th>
<th>External dimensions [mm]</th>
<th>Weight approx. [kg/100 each]</th>
<th>Article No.</th>
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<tr>
<td>8</td>
<td>43 x 12 x 13</td>
<td>0.550</td>
<td>670 303 000</td>
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Plugs and sockets

Plug, 7 pin, metal with screw connection

- To B7 DIN 72 577
- Plug Socket ø 36 mm
- Load capacity 7 x 22 amper, up to 12 volts

| Overall length: | 96 mm |
| Max. ø: | 56 mm |
| Material: | Casing non-ferrous metal, solid, bright metal finish |
| Weight: | approx. 0.125 kg/each |
| Article No. | 670 515 000 |

Sockets, 7 contacts, metal

To A7 DIN 72 577

| Max. ø: | 70 mm |
| Height: | 49 mm |
| Material: | Casing non-ferrous, solid, bright metal finish |

<table>
<thead>
<tr>
<th>Type of connections</th>
<th>Loading capacity up to 12 volts</th>
<th>Weight approx. [kg/m]</th>
<th>Article No.</th>
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<tr>
<td>screw connection</td>
<td>7x22 Amp.</td>
<td>0.140</td>
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</table>

Socket base

- Suitable for all 5 and 7 contact sockets to DIN 72 576 (superseded) and DIN 72 577 (not suitable for version 670 545 000)
- This base increases the cavity for connection of the socket and provides a water-tight seal
- Cable entry ferrule (projects into mounting face), ø 18 x 12 mm depth

| Outer ø: | 77 mm |
| Internal ø: | 70 mm |
| Height: | 385 mm |
| Material: | Rubber, black |
| Weight: | approx. 0.120 kg/each |
| Article No. | 670 549 000 |
Plugs and sockets

Plug, 13 pin, 12 V, plastic with screw connection, bayonet type fastening

– To DIN ISO 11446

Overall length: 96 mm
Max. ø: 56 mm
Material: Casing plastic, black
Weight: approx. 0.150 kg/each
Accessory: Parking socket Article No. 670 619 000
Article No. 670 610 000

Sockets with disconnect contact for NES, 13 contacts, 12 V, plastic with screw connection

– To DIN ISO 11446

Overall-ø: 77 mm
Height: 60 mm
Material: Casing plastic, black
Weight: approx. 0.140 kg/each
Article No. 670 617 000

Short adapter, 13/7 contacts, 12 V, plastic

– 13 pin plug and 7 contact socket to DIN ISO 11446 to ISO 1724

Overall length: 104 mm
Max. ø: 56 mm
Material: Casing plastic, black
Weight: approx. 0.210 kg/each
Article No. 670 625 000

Short mini-adapter, 13/7-pin, 12V, plastic

– 13-pin plug and 7-pin socket ISO 11446 to ISO 1724

Total length: 52.8 mm
Total-ø: 68 mm
Material: Casing plastic, black
Weight: approx. 0.08 kg/each
Article No. 670 624 000
Plugs and sockets

Short mini-adapter, 7/13-pin, 12 V, plastic

- 7-pin plug and 13-pin socket ISO 1724 to ISO 11446

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<th>Details</th>
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<tr>
<td>Total ø</td>
<td>58 mm</td>
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<tr>
<td>Material</td>
<td>Casing, plastic, black</td>
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<tr>
<td>Weight</td>
<td>approx. 0.150 kg/each</td>
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<tr>
<td>Article No.</td>
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Plug, 7-pin, metal, 24 V, conforming to ISO 1185, contact 31 with contact sleeve

- Solid metal construction with screw-in terminals
- Load capacity 7 x 20 amper at 24 volts, total length 115 mm

<table>
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<td>Article No.</td>
<td>670 710 000</td>
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Plug socket, 7-pin, metal, 24 V, conforming to ISO 1185, contact 31 with contact pin

- Solid metal construction with screw-in terminals, rubber gasket
- In sealing cap, including cable-protection bush
- Load capacity 7 x 20 amper at 24 volts, total length 52 mm

<table>
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<td>Material</td>
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<td>Weight</td>
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Plug, 7-pin, metal, 24 V, conforming to ISO 3731, contact 1 with contact pin

- Solid metal construction with screw-in terminals
- Load capacity 7 x 20 amper at 24 volts, total length 115 mm

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<td>Bright metal housing</td>
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<td>Weight</td>
<td>approx. 0.150 kg/each</td>
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<td>Article No.</td>
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</table>

Short mini-adapter, 7/13-pin, 12 V, plastic

- 7-pin plug and 13-pin socket ISO 1724 to ISO 11446

<table>
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<tr>
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<td>Weight</td>
<td>approx. 0.150 kg/each</td>
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<tr>
<td>Article No.</td>
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</table>

Plug, 7-pin, metal, 24 V, conforming to ISO 1185, contact 31 with contact sleeve

- Solid metal construction with screw-in terminals
- Load capacity 7 x 20 amper at 24 volts, total length 115 mm

<table>
<thead>
<tr>
<th>Specification</th>
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</thead>
<tbody>
<tr>
<td>Material</td>
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<td>approx. 0.150 kg/each</td>
</tr>
<tr>
<td>Article No.</td>
<td>670 710 000</td>
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</tbody>
</table>

Plug socket, 7-pin, metal, 24 V, conforming to ISO 1185, contact 31 with contact pin

- Solid metal construction with screw-in terminals, rubber gasket
- In sealing cap, including cable-protection bush
- Load capacity 7 x 20 amper at 24 volts, total length 52 mm

<table>
<thead>
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<th>Details</th>
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<tr>
<td>Weight</td>
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<tr>
<td>Article No.</td>
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</table>

Plug, 7-pin, metal, 24 V, conforming to ISO 3731, contact 1 with contact pin

- Solid metal construction with screw-in terminals
- Load capacity 7 x 20 amper at 24 volts, total length 115 mm

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
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<tbody>
<tr>
<td>Material</td>
<td>Bright metal housing</td>
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<tr>
<td>Weight</td>
<td>approx. 0.150 kg/each</td>
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<td>Article No.</td>
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</table>
Plugs and sockets

Plug socket, 7-pin, metal, 24 Volts, conforming to ISO 3731, contact 1 with contact sleeve

- Solid metal construction with screw-in terminals, rubber gasket
- In sealing cap, including cable-protection bush
- Load capacity 7 x 20 amper at 24 volts

Total length: 52 mm
Material: Bright metal housing
Weight: approx. 0.170 kg/each
Article No. 670 725 000

Plug, 15-pin, ADR/GGVS, 24 V, conforming to ISO 12098, plastic, with crimp connectors

- For standard cable and PUR cable (ADR/GGVS) 3 x 2.5; 10 x 1.5 and 2 x 1.0 mm²
- Securely fixed by means of a metal clip.
- Load capacity 20 amper at 24 volts

Total length: 115 mm
Material: Plastic housing, Metal clip
Weight: approx. 0.230 kg/each
Article No. 670 740 000

Plug socket, 15-pin, ADR/GGVS, 24 V, conforming to ISO 12098, plastic, with crimp connectors

- For standard cable and PUR cable (ADR/GGVS) 3 x 2.5; 10 x 1.5 and 2 x 1.0 mm²
- Rubber gasket in sealing cap
- Load capacity 20 amper at 24 volts

Total length: 115 mm
Material: Plastic housing
Weight: approx. 0.200 kg/each
Article No. 670 745 000
Plugs and sockets

Spiral cable, 15-core, ADR/GGVS, 24 V, conforming to ISO 12098, PUR cable with 2 x plastic plugs

- Configuration 12 x 1.5 and 3 x 2.5 mm²
- Length when stretched 4000 mm
- Securely fixed by means of a metal clip, diameter of spiral 60 mm

Material: PUR cable
Plastic plug
Metal clip

Weight: approx. 2.300 kg/each
Article No. 670 747 000

Spiral cable, 15-core to 2 x 7-core, 24 V, ISO 12098 to ISO 1185/3731

- 1 x 15-pin plug and 2 x 7-pin plugs, for connection of tractor vehicle with 15-pin socket to trailer with two 7-pin plug sockets
- Length when stretched 4000 mm
- Securely fixed by means of a metal clip
- Diameter of spiral 60 mm.

Material: PVC cable
Plastic/metal plugs
Metal clip

Weight: approx. 1.810 kg/each
Article No. 670 748 000

All technical specifications contained in this brochure are approximate and no guarantee is given as to their accuracy. Designs are subject to change.
Switches

Rocker switch

With 2 x 6.3 mm blade terminals

2 switch settings:  
0 = OFF  
1 = ON

External dimensions:  
Length: 30.5 mm  
Width: 11.4 mm

Suitable for aperture:  
Length: 30 mm  
Width: 11.9 mm

Material:  
Rocker switch plastic, black

Weight:  
approx. 0.04 kg/each

Article No.  
670 557 001
Rear markings

Reflecting and yellow/red fluorescent rear marking

- For identification of trailers / semi-trailers with a load capacity of more than 3.5 t, in accordance with ECE European standard - 70
- 1 set right / left for attachment to double rear doors

Format: 565 x 195 x 1.0 mm (semi marking)
Material: Aluminium panel
Single part:
  - Right bearing – Article No. 670 816 000
  - Left bearing – Article No. 670 817 000

Article No. 670 815 000

Reflecting and yellow/red fluorescent rear marking

- For identification of trailers / semi-trailers with a load capacity of more than 3.5 t, in accordance with ECE European standard - 70
- 1 set right / left bearing for attachment to double rear doors

Format: 565 x 130 x 1.0 mm (semi marking)
Material: Aluminium panel
Single part:
  - Right bearing – Article No. 670 816 000
  - Left bearing – Article No. 670 817 000

Article No. 670 825 000

Attachment of rear markings see catalogue page 67.01.05.2
Rear markings

Attachment layout for rear markings for trucks / tractor units and trailers / semi trailers

A = max. 400 mm
B = min. 350 mm
C = max. 1700 mm
D = max. 2200 mm

ADR warning sign, rigid, horizontally folding

To indicate the transport of hazardous goods (e.g. petrol, diesel, heating oil, etc.)

Format: 400 x 300 mm
Material: Sheet steel
Article No. 670 882 000
Rear markings

Motor vehicle warning markings on roll

- For vehicles with special rights in compliance with Sect.
  35 German Highway Code [StVZO] (may stop on any
  road side)
- Safety markings on vehicles in compliance with DIN 30
  710, high-reflective PVC honeycomb film, self-adhesive
  and adjustable (can be repositioned or removed within
  around 20 seconds of being applied) in compliance with
  DIN 67520 Part 2, white/red in compliance with DIN
  6171

Width: 141 mm
Material: PVC film
Article No. 670 830 000 right bearing,
roll length 9 metres
670 831 000 left bearing,
roll length 9 metres

Container warning markings

- In accordance with DIN 67520 Section 2, flexible, self
  adhesive
- Honeycomb film, white/red in accordance with DIN 6171
- 1 set consisting of 8 each
- 4 off right and 4 off left, self adhesive film

Material: PVC film
Dimension: 141 x 705 mm
Single par: Right bearing –
Article No. 670 842 000
Left bearing –
Article No. 670 843 000
Article No. 670 840 000
Rear markings

Retro-reflective warning marking

- Conforming to ECE R 104, for the warning illumination of commercial vehicles
- High-quality design with secure all-round seal
- Without exposed sharp edges. Easy handling and straightforward fitting
- Roll length 50 m

Self-adhesive, microprismatic, reflective foil for fixed bodies / rigid surfaces / width 55 mm:

<table>
<thead>
<tr>
<th>Article No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>670 860 000</td>
<td>White for front/side</td>
</tr>
<tr>
<td>670 862 000</td>
<td>Yellow for rear/side</td>
</tr>
<tr>
<td>670 864 000</td>
<td>Red for rear</td>
</tr>
</tbody>
</table>

Eight-year warranty, subject to observance of fitting and cleaning instructions

Self-adhesive, segmented, microprismatic, reflective foil for curtainsider bodies / width 51 mm:

<table>
<thead>
<tr>
<th>Article No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>670 861 000</td>
<td>White for front/side</td>
</tr>
<tr>
<td>670 863 000</td>
<td>Yellow for rear/side</td>
</tr>
<tr>
<td>670 865 000</td>
<td>Red for rear</td>
</tr>
</tbody>
</table>

Three-year warranty, subject to observance of fitting and cleaning instructions

Retro-reflective warning marking

- Conforming to ECE R 104, for the warning illumination of commercial Vehicles
- Easy handling and straightforward fitting.
- Width 50 mm, roll length 50 m

Self-adhesive, single-layer, prismatic foil for fixed bodies / rigid surfaces:

<table>
<thead>
<tr>
<th>Article No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>670 870 000</td>
<td>White for front/side</td>
</tr>
<tr>
<td>670 872 000</td>
<td>Yellow for rear/side</td>
</tr>
<tr>
<td>670 874 000</td>
<td>Red for rear</td>
</tr>
</tbody>
</table>

Ten-year warranty, subject to observance of fitting and cleaning instructions

Self-adhesive, single-layer, prismatic foil for curtainsider bodies:

<table>
<thead>
<tr>
<th>Article No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>670 871 001</td>
<td>White for front/side</td>
</tr>
<tr>
<td>670 873 001</td>
<td>Yellow for rear/side</td>
</tr>
<tr>
<td>670 875 001</td>
<td>Red for rear</td>
</tr>
</tbody>
</table>

Three-year warranty, subject to observance of fitting and cleaning instructions

Contour markings designed to increase the visibility of trucks and trailers

Obligatory equipment for all new registrations issued in accordance with European law, effective as of 10.07.2011 (for trucks with a total weight of > 7.5 t and trailers weighing > 3.5 t).
Rear markings

Parking warning board in accordance with § 17 StVO

– (German Road Traffic Regulations), homologated in accordance with § 22a StVZO
– Attachment note in accordance with § 51c (6) StVZO for parked vehicles greater than 2.8 t and all trailers in built-up areas
– Reflectors and licence number may not be covered up!

Foldable park warning board with 8 prism reflectors, white-red complete with fastening holes and revolving lock

Format: 285 x 285 mm
Weight: approx. 0.850 kg
Article No. 670 880 000 – left bearing, front
Article No. 670 881 000 – right bearing, rear

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Tail lights

Tail, brake and indicator light (SBBL)

– Compact twin-chamber light (three functions)
– Cable connection via flat pin plug

Type test
conformity ref.: E1 43 370
Dimensions: 122 x 122 mm, depth 56 mm
Fixing: 2 fixing holes for M6 screw
hole pitch 45 mm
Colour of casing: grey
Material: Casing and lens - plastic
Weight: approx. 0.210 kg/each
Bulb: not included in supply
Article No. 671 345 000

Tail, brake and indicator light

Brake light and indicator, light with reflectors.
Type test conformity ref.: E1 153 329

Dimensions: 158 x 64 mm, height 56 mm
Material: Baseplate aluminium
Baseplate plastic
Weight: approx. 0.160 kg/each
Article No. 671 348 000 / 671 349 000
Tail lights

**JOKON 12-volt multi-purpose light for car trailers**

- Horizontal light
- With built-in triangular rear lamp
- Supplied complete with bulbs
- Watertight 5-pole bayonet connector fitted to cable and lamp for easy installation
- With connecting cable for the towing vehicle. Connects to a 13-pole connector
- Cable with two auxiliary connectors for side marker, position and other lamps
- Two M6 mounting bolts, spaced 152 mm apart
- Type test conformity ref. E2 06061

---

**JOKON Multi-purpose light**

<table>
<thead>
<tr>
<th>Type</th>
<th>Installs in direction of vehicle</th>
<th>Dimensions</th>
<th>Material</th>
<th>Surface</th>
<th>Weight approx. [kg/each]</th>
<th>Article No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>SBBLNESDR</td>
<td>left</td>
<td>200</td>
<td>130</td>
<td>Plastic</td>
<td>smooth</td>
<td>0.5</td>
</tr>
<tr>
<td>SBBLRLDR</td>
<td>right</td>
<td>200</td>
<td>130</td>
<td>Plastic</td>
<td>smooth</td>
<td>0.5</td>
</tr>
<tr>
<td>SBBLDR</td>
<td>right</td>
<td>200</td>
<td>130</td>
<td>Plastic</td>
<td>smooth</td>
<td>0.5</td>
</tr>
</tbody>
</table>

1. Rear, brake, indicator, registration plate and rear fog lamp
2. Rear, brake, indicator, registration plate and reversing lamp
3. Rear, brake, indicator, registration plate lamp

**Connecting cable set**

<table>
<thead>
<tr>
<th>Article No.</th>
<th>Length [mm]</th>
</tr>
</thead>
<tbody>
<tr>
<td>671 470 000</td>
<td>7000</td>
</tr>
<tr>
<td>671 471 000</td>
<td>10000</td>
</tr>
</tbody>
</table>
Tail lights

Tail, brake, indicator and rear fog lights-lamp SBBLNES

Dimensions: 236 x 154.5 x 60 mm (L x W x H)
Fixing: With quick-mounting plate and fixing screws for horizontal or vertical mounting
Type test conformity ref.: E4 10162
Weight: approx. 0.630 kg/each
Accessory: Light cover – Article No. 671 483 000
Article No. 671 465 000 – left

Tail, brake and indicator lamps SBBL

Dimensions: 236 x 154.5 x 60 mm (L x W x H)
Fixing: With quick-mounting plate and fixing screws for horizontal or vertical mounting
Type test conformity ref.: E4 10162
Weight: approx. 0.630 kg/each
Accessory: Light cover – Article No. 671 482 000
Article No. 671 464 000 – right

Tail, brake, indicator and rear fog lights-lamp SBBLR

Dimensions: 236 x 154.5 x 60 mm (L x W x H)
Fixing: With quick-mounting plate and fixing screws for horizontal or vertical mounting
Type test conformity ref.: E4 10162
Weight: approx. 0.630 kg/each
Accessory: Light cover – Article No. 671 482 000
Article No. 671 466 000 – right

All lamps are supplied with their corresponding 12-volt bulb

For vertical configuration (Article No. 671464 000-466 000)

Tail light: Festoon bulb
Brake light: Spherical bulb, 21 W
Yellow indicator light: Spherical bulb, 21 W
Rear fog light: Spherical bulb, 21 W
Reversing light: Spherical bulb, 21 W
Tail lights

3rd LED safety brake light

As of 1.11.2013, a 3rd brake light is required for trucks with a gross vehicle weight of up to 3.5t (EC vehicle category N1).

- 3rd brake light with 6 LEDs
- Can be fitted horizontally or vertically

Fixing: 2 holes for fixing screws ø 4.2 mm
Hole spacing: approx. 212 mm

Installation height: max. 150 mm below the rear window or min. 850 mm off the ground

Input voltage: 12 - 24 volt

Power consumption: 1.3 watts at 12 volts; 2.6 watts at 24 volts

Protection class: IP68

Cable cross section: 2 x 0.75 mm²

Material: Light cover plastic red

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Cable length</th>
<th>Weight approx.</th>
<th>Article No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>L1 [mm]</td>
<td>L2 [mm]</td>
<td>L3 [mm]</td>
<td>B [mm]</td>
</tr>
<tr>
<td>237</td>
<td>212</td>
<td>22</td>
<td>20.5</td>
</tr>
</tbody>
</table>

Notes:

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Tail lights

Connecting cable set

Plug: Completely mounted with a 13-pin synthetic material plug ISO 11446
Connector: 2 off 5-pin central plug with waterproof bayonet connection and double shroud
Note: From the bayonet connection, each cable has a 500 mm, approx. 2-core auxiliary connection for connecting additional position or side marker lamps.
Side designation: green = right yellow = left
Weight: 671 470 000 - approx. 1.3 kg 671 471 000 - approx. 1.6 kg
Replacement part: Plug set 13-pin in yellow/green
Article No. 671 470 000 - 7000 mm 671 471 000 - 10000 mm

Core colours

<table>
<thead>
<tr>
<th>Designation</th>
<th>left</th>
<th>right</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rear light</td>
<td>black</td>
<td>brown</td>
</tr>
<tr>
<td>Brake light</td>
<td>red</td>
<td>red</td>
</tr>
<tr>
<td>Indicator light</td>
<td>yellow</td>
<td>green</td>
</tr>
<tr>
<td>Chassis</td>
<td>white</td>
<td>white</td>
</tr>
<tr>
<td>Rear fog light</td>
<td>blue</td>
<td></td>
</tr>
<tr>
<td>Reversing light</td>
<td></td>
<td>blue</td>
</tr>
<tr>
<td>Registration plate light</td>
<td>black</td>
<td>brown</td>
</tr>
</tbody>
</table>
Registration plate lights

Registration plate light KL

- Light with integrated block for mounting on flat surfaces
  right hand and left hand registration plate lights
- Cover sealed by rubber gasket against casing
- Cable connection via flat pin plug

Type test
conformity ref.: E1 22 813
Dimensions: 105 x 55 mm, height 65 mm
Fixing: 2 M4 fixing screws with spring washers and nuts, pitch of screws 72 mm
Material: Cover with lens and casing made of plastic, reflector made of metal
Casing colour: black
Weight: approx. 0.08 kg/each
Bulb: not included in supply
Article No. 671 635 000

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# Position and marker lights

**Marker light red-white**

- Suspended from rubber strap
- Reinforcing plate made of galvanised sheet steel
- Used for right and left hand side of the vehicle by rotating the cover to the right or left
- Light shines with white beam forwards red beam shining rearwards
- Cable connection by means of a flat pin plug connections

**Type test conformity ref.:** E1 11599

**Dimensions:** 114 x 43, depth 43 mm

**Fixing:**
- 2 holes for M6 fixing screws,
- hole pitch in rubber strap 15 mm

**Material:**
- Lens cover plastic
- strap rubber
- Reinforcing plate galvanised sheet steel

**Weight:** approx. 0.08 kg/each

**Bulb:** not included in supply

**Article No.** 671 848 000
Position and marker lights

**LED marker light, red**

- With 5000 mm cable, with open end
- Right and left facing direction of travel, incl. TPE seal, light for use on GETO Van body kit
- EMC-approved (electromagnetic compatibility)
- With 3 LEDs
- 0.3 watts at 12 volts
- 0.7 watts at 24 volts
- Version: multi-volt 12-24 volts
- IP code: IP 68
- ECE-approved

**LED marker light, white**

- With 5000 mm cable, with open end
- Right and left facing direction of travel, incl. TPE seal
- Light for use on GETO Van body kit
- EMC-approved (electromagnetic compatibility)
- With 3 LEDs
- 0.3 watts at 12 volts
- 0.7 watts at 24 volts
- Version: multi-volt 12-24 volts
- IP code: IP 68
- ECE-approved

**Article No.** 671 888 000

**Article No.** 671 889 000
Position and marker lights

LED marker light, yellow

- With 5000 mm cable, with open end
- Right and left facing direction of travel, incl. TPE seal
- Light for use on GETO Van body kit
- EMC-approved (electromagnetic compatibility)
- With 3 LEDs
- 0.2 watts at 12 volts
- 0.5 watts at 24 volts
- Version: multi-volt 12-24 volts
- IP code: IP 68
- ECE-approved

Article No. 671 887 000
Roof lights

**LED recessed ceiling light**

- Interior light with 4 x white power LEDs
  - Multiple-voltage configuration, 10-31 volts
- Power consumption 6 watts
- With 580 mm of moulded-in cable with
- Insulated terminals ADR/GGVS, IP69-tested

**Temperature range:** -40°C to +60°C

**Power consumption:**
- 12 volts = approx. 0.46 A at 6 watts
- 24 volts = approx. 0.22 A at 6 watts

**Weight:** approx. 0.26 kg

**Article No.** 672 078 000

**LED ceiling light**

- Interior light with 4 x LEDs, extremely flat profile, cable terminals
- Fitted with press-on sleeve connectors, securely sealed all round

**Power consumption:** 28 volts at 1.4 watts

**Dimensions:** 110 x 50 mm, unit height 12 mm

**Fixing:**
- 2 x holes for M5 fixing screws;
  - hole distance 97 mm

**Material:**
- Housing light-grey polycarbonate
- Lamp lens clear PMMA (clear acrylic)

**Operating temperature:** -40 °C to +40 °C

**IP protection rating:** IPX9K, IPX4K

**Service life:** 30000 hours, depending on ambient temperature

**Cable length:** 4900 mm

**Weight:** approx. 0.330 kg

**Article No.** 672 080 000
Roof lights

**Recessed LED roof light LD 110-E**

- Interior light with 12 LEDs
- Multiple-voltage version: Connection voltage 12 – 30 volts
- Power consumption 4 watts
- Protection rating IP 68
- Luminous intensity 460 lumens
- Current consumption (depending on voltage) 0.15 – 0.35 amper
- Service life approx. 50000 hrs.
- Screw fitting
- Withstands temperatures down to -25°C to +80 °C

**Housing material:** Aluminium, powder coated in white RAL 9010

**Lens material:** PC (polycarbonate), single-sided structure, high impact resistance

**Wiring configuration:** Length 1300 mm, colour white

**Weight:** 0.140 kg

**Article No.** 672 082 000 – aluminium, white

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**Surface-mounted LED roof light LD 110-A**

- Interior light with 12 LEDs
- Multiple-voltage version: Connection voltage 12 – 30 volts
- Power consumption 4 watts
- Protection rating IP 68
- Luminous intensity 460 lumens
- Current consumption (depending on voltage) 0.15 - 0.35 amper
- Service life approx. 50000 hrs.
- Adhesive fitting
- Withstands temperatures down to -25°C to +80 °C

**Housing material:** Aluminium, powder coated in white RAL 9010

**Lens material:** PC (polycarbonate), single-sided structure, high impact resistance

**Wiring configuration:** Length 1300 mm, colour white

**Weight:** 0.140 kg

**Dimensions:** External ø 150 mm, Installation height 20 mm

**Article No.** 672 084 000 – aluminium, white

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**Fitting recommendation for the surface-mounted version**

Adhesive attachment with 3-point iSR 70-05 AP (Article No. 816 852 000) and preliminary fixing with Fixpoints (Article No. 860 201 000).

Pre-cleaning with PrepM (Article No. 816 890 000)
Roof lights

Surface-mounted LED roof light LED-S-100

- Interior light with 6 high-performance white LEDs
- Even, full-surface coverage of light with built-in motion sensor with a radius of up to 5 metres
- Diffusion 120°
- Luminosity 300 lumen
- Power consumption 0.6 amper at 12 volts
- Screw-fitted
- Withstands temperatures of between -20 and +50 °C

Housing material: PC (polycarbonate), white, enhanced impact resistance
Lens material: PC (polycarbonate), enhanced impact resistance
Cable connector: 2-wire with bare end
Cable length: approx. 200 mm
Weight: 0.154 kg
Dimensions: Exterior ø 165 mm
Installation height ø 15 mm
Article No. 672 090 000 - 12V, with motion sensor
          672 092 000 - 12V, without motion sensor
          672 094 000 - 12V, with motion sensor

Recess type roof light

- Area of emitted light approx. 73 x 332 mm.
- The casing for inserting into an opening in the roof of the vehicle has a recess depth of 35 mm, is silver in colour and therefore highly light-reflecting, which contributes to providing optimal lighting of the vehicle.
- Lens is hinged and can be opened by way of a rotary lock.

Dimensions: Overall size 106 x 360 mm
            Height 43.5 mm
            Recess depth 35 mm
            Cutout 73 x 332 mm
Fixing: 4 fixing holes ø 4 mm
Material: Acrylic plastic
Weight: approx. 0.35 kg/each
Bulb: not included in supply
Recommended bulbs: Options
          3 festoon lamps 15W/12V
          3 festoon lamps 15W/24V
Article No. 672 221 000
Roof lights

LED-Stripes interior light

- Flexible interior lights for body kits
- 30 LED / metre
- Diffusion 120°
- Luminosity 480 lumen / metre
- Complies to DIN EN 60598-1
- Service life approx. 20.000 hrs at an ambient temperature of 25°C
- Colour temperature: white (6500K)
- Voltage: 12V or 24V
- Can be shortened as required and extended at marked positions
- 2 end caps / rolls are included
- Fixation with full-surface adhesive tape by 3M on the back
- Withstands temperatures of between -30 and +40 °C

IP-protection rating: IP67
Cable length: ca. 200 mm
Roll length 12V 5.000 mm
Roll length 24V 5.000 mm or 10.000 mm
Article No. 672 110 050 -
12V, Length: 5.000 mm
Article No. 672 112 050 -
24V, Length: 5.000 mm
Article No. 672 112 100 -
24V, Length: 10.000 mm

Fitting recommendation
For optimum cleaning of the substrate we recommend the use of Körasolv WL (1.000 ml / can), Article No. 870 810 000

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Reversing lights

Additional ULTRA Beam H 3 reversing lamp

- The use of halogen lamp technology combined with "H3" lighting, 24 volts, 70 watts, provides extremely high and intense illumination of the rear area when reversing and parking
- Its compactness keeps it well-protected when installed in the underrun protection system
- Vertical tilt: 12°
- ADR/GGVS-approved

Included with delivery: all mounting components, easy installation

Approval: E12 23005

Cable length: 1000 mm with fitted 2-pole EC NG right-angle connector to connect to the EC NG rear light on the right or left-hand side facing the direction of travel

Light bulbs: H3, 24 volts, 70 watts

Weight: approx. 0.7 kg/each

Material: Reversing lamp housing made of synthetic material. All metal parts galvanised

Colour: black

Article No. 675 614 010

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Reversing lights

LED reversing and flood light – 12 or 20 watts

- LED light in a die cast aluminium housing for maximum heat conduction, with ribbed rear housing
- 4 white light LEDs
- Adjustable bracket fixture for perfect angling. Swivel base with M 10 fixing screw
- Polycarbonate lens
- Low power consumption
- Approved for use as reversing light
- Complies with ECE-R-23, ECE-R-10 guidelines
- 2-core 1,000 mm connecting cable with bare end
- ADR- / GGVS approved
- Can be combined with EasyConn lighting system

Input voltage: 10 – 48 volts
Current consumption
(12V, 12 watts): 0.91 amperes
Current consumption
(12V, 20 watts): 1.70 amperes
Wattage: 12 watts or 20 watts
Operating temperature: -40 °C – 80 °C
Rating: IP69K
Lumens (12 watts): 1000 lm
Lumens (20 watts): 1600 lm
Housing colour: black
Vibration strength: 15 G
Angle of radiation: 60°
LED service life: approx. 50000 hours
Mark of conformity: E9 11104
Weight: 0.61 kg
Article No. 672 760 000 – 12 watts
672 761 000 – 20 watts
Reversing lights

LED reversing and flood light – 14.4 watts, multi-volt

- LED light in a PP housing
- 9 white light LEDs
- Perfectly adjustable, galvanised bracket
- Swivel base with M 8 fixing screw
- Polycarbonate lens
- Low power consumption
- Approved for use as a reversing light; complies with ECE-R-23 regulations
- 3-core connection lead, 2500 mm, with open cable end - Cable cross-section 3 x 0.75 mm²
  Connection: MASS - white cable + work light - black cable; reversing light - yellow cable
- Can be combined with GETO EasyConn lighting system (with 2-pole connector set 675 914 000)

Input voltage: 10 ~ 35 volts
Wattage: 14.4 watts
Rating: IP 6 8
Lumens: 1700 lm
Housing colour: black
Weight: 0.62 kg
Article No. 672 764 000

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Reversing lights

LED reversing and flood light –
14 watts, multi-volt

- LED flood light in a die cast aluminium housing
- Very compact, low-diameter design (75 mm)
  for various applications
- 5 white light LEDs
- Polycarbonate lens
- Adjustable stainless steel bracket fixture for perfect
  angling, swivel base with M 8 fixing screw
- 2-core 450 mm connecting cable with bare end

Input voltage: 12 - 36 volts
Wattage: 14 watts
Operating temperature: -40°C until +45°C
Rating: IP67
Lumens: 1240 lm
Housing colour: black, powder-coated
Weight: 0.206 kg
Article No. 672 765 000

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Flood lights

LED flood light - 18 watts, multi-volt

- LED flood light in a die cast aluminium housing
- 6 white light LEDs
- Polycarbonate lens
- Adjustable stainless steel bracket fixture for perfect angling, swivel base with M 10 fixing screw
- 2-core, 450 mm connecting cable with bare end

Input voltage: 9 - 32 volts
Wattage: 18 watts
Operating temperature: -40°C until +50°C
Rating: IP67K
Lumens: 1600 lm
Housing colour: black, powder-coated
Weight: 0.8 kg
Article No. 672 766 000
Flood lights

LED flood light – 17 watts, multi-volt

Slim design

- LED flood light in a die cast aluminium housing
- 6 white light LEDs
- Polycarbonate lens
- Adjustable stainless steel bracket fixture for perfect angling, swivel base with M 8 fixing screw
- 2-core, 450 mm connecting cable with bare end
- Very compact, low-height design

Input voltage: 9 - 32 volts
Wattage: 17 watts
Operating temperature: -40°C until +50°C
Rating: IP67K
Lumens: 1400 lm
Housing colour: black, powder-coated
Weight: 0.7 kg
Article No. 672 768 000
## Reflectors

### Reflector, round

Plastic reflector, air and water-tight with welded plastic protective baseplate

**Height:** 7 mm  
**Fixing:** Central fixing hole ø 6 mm

<table>
<thead>
<tr>
<th>Diameter of reflection [mm]</th>
<th>European type test ref.</th>
<th>Weight approx. [kg/m]</th>
<th>Article No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>60</td>
<td>21 383</td>
<td>0.015</td>
<td>679 014 000</td>
</tr>
</tbody>
</table>

### Reflector, round

Plastic reflector, air and water-tight with welded plastic protective baseplate

**Height:** 8 mm (7 mm)  
**Fixing:** Self-adhering film, heat resistant and resistant to the effects of fuel

<table>
<thead>
<tr>
<th>Diameter of reflection [mm]</th>
<th>European type test ref.</th>
<th>Weight approx. [kg/m]</th>
<th>Article No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>56</td>
<td>22 330</td>
<td>0.013</td>
<td>679 016 000</td>
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</tbody>
</table>

### Reflector, rectangular

Plastic reflector, air and water-tight with welded plastic protective baseplate. Horizontal and vertical mounting possible.

**Height:** 8 mm  
**Fixing:** 2 fixing holes ø 4 mm, pitch 70 mm

<table>
<thead>
<tr>
<th>Diameter of reflection [mm]</th>
<th>European type test ref.</th>
<th>Weight approx. [kg/m]</th>
<th>Article No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>90 x 40</td>
<td>21 396</td>
<td>0.020</td>
<td>679 001 000</td>
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</tbody>
</table>
Reflectors

Reflector, rectangular

Plastic reflector, air and water-tight with welded plastic protective baseplate.

Height: 7 mm
Fixing: self-adhering film, heat resistant and resistant to the effects of fuel

<table>
<thead>
<tr>
<th>Diameter of reflection [mm]</th>
<th>European type test ref.</th>
<th>Weight approx. [kg/m]</th>
<th>Article No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>40 x 90</td>
<td>E1 0231374</td>
<td>0.023</td>
<td>679 007 000</td>
</tr>
</tbody>
</table>

Triangular reflector

- European type test conformity ref. IA E1 02 135
- With bright anti-corrosive metal bezel
- Length of side 159 mm
- Height 138 mm
- Thickness 6 mm
- In conformity with DIN 72 618.2 screw holes ø 6 mm, complete with bushes, pitch 70 mm

Material: Plastic
Weight: approx. 0.065 kg/each
Article No. 679 203 000