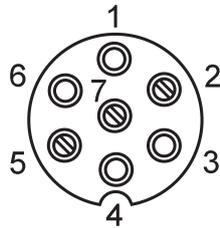


Contact allocation for 7 - 13 and 14 - Pin Sockets

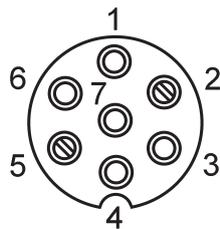
7-PIN plugs / sockets 12 V ISO 1724, DIN 72577 (12N)



- 1/L) Left-hand direction indicator lamp.
- 2/54G) Rear fog lamp.
- 3/31) Common return.
- 4/R) Right-hand direction indicator lamp.
- 5/58L) Right-hand rear position and end-outline marker lamp, and rear-registration plate illumination device. 1)
- 6/54) Stop lamp.
- 7/58L) Left-hand rear position and end-outline marker lamp, and rear-registration plate illumination device. 1)

1) The rear registration plate illumination device shall be connected in such a manner that no lamp of such a device has a common connection with both contacts 5 and 7.

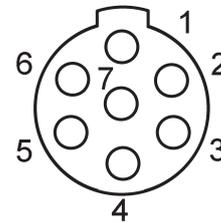
7-PIN plugs / sockets 12 V ISO 3732 (12S)



- 1/L) R Reversing lamp. 2)
- 2/54G) Coding for coupled trailer (within the plug pin no. 2 shall be connected to pin no. 3 to signal to the towing vehicle when a trailer is connected).
- 3/31) Common return (for contact no. 4-5).
- 4/R) Continuous power supply.
- 5/58L) Sensing device.
- 6/54) Power supply (controlled by ignition switch).
- 7/58L) Common return (for contact no. 6).

2) The common return for the circuit of this contact will normally be by contact no. 3/31 of the 12N connector according to ISO 1724.

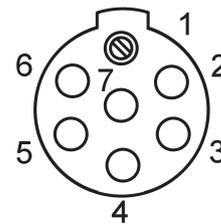
7-PIN plugs / sockets 24 V ISO 1185, DIN 72579 (24N)



- 1/31) Common return.
- 2/58L) Left-hand rear position and end-outline marker lamp, and rear-registration plate illumination device. 3)
- 3/L) Left-hand direction indicator lamp.
- 4/54) Stop lamp.
- 5/R) Right-hand direction indicator lamp.
- 6/58R) Right-hand rear position and end-outline marker lamp, and rear-registration plate illumination device. 3)
- 7/54G) Braking control for trailers.

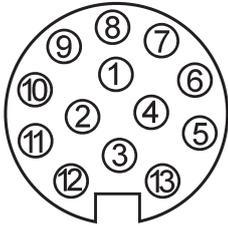
3) The rear registration plate illumination device shall be connected in such a manner that no lamp of such a device has a common connection with both contacts 2 and 6.

7-PIN plugs / sockets 24 V ISO 3731 (24S)



- 1/31) Common return.
- 2/58L) No allocation.
- 3/L) Reversing lamp.
- 4/54) Continuous power supply.
- 5/R) Control via common return.
- 6/58R) Power supply (controlled by ignition switch).
- 7/54G) Rear fog lamp.

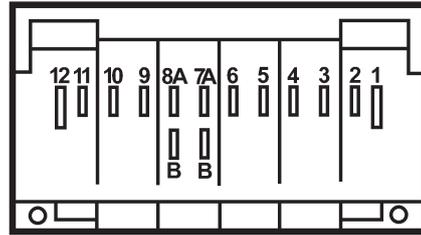
**13-PIN plugs / sockets
ISO 11446, DIN 72570
and 13-PIN Multicon**



- 1) Left-hand direction indicator lamp.
- 2) Rear fog lamp.
- 3) Common return for contacts nos. 1 to 8. **1)**
- 4) Right-hand direction indicator lamp.
- 5) Right-hand rear position and end-outline marker lamp, and rear-registration plate illumination device. **2)**
- 6) Stop lamp.
- 7) Left-hand rear position and end-outline marker lamp, and rear-registration plate illumination device. **2)**
- 8) Reversing lamp.
- 9) Continuous power supply.
- 10) Power supply (controlled by ignition switch).
- 11) Earth (for contact no. 10). **1)**
- 12) Coding for coupled trailer (on the plug, pin no. 12 shall be bridged to pin no. 3 to return to the towing vehicle the information whether a trailer is coupled or not).
- 13) Common return (for contact no. 9). **1)**

*1) The three common return circuits shall not be connected electrically in the trailer.
2) The rear registration plate illumination device shall be connected such that no lamp of the device has a common connection with either contact 5 or 7.*

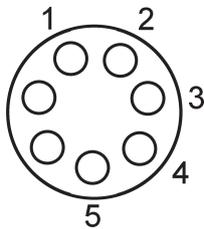
VBG contact 14



- 1) Common return.
- 2) Left hand direction indicator lamp.
- 3) Right hand direction indicator lamp.
- 4) Stop lamp.
- 5) Left-hand rear position and end-outline marker lamp, and rear-registration plate illumination device.
- 6) Right-hand rear position and end-outline marker lamp, and rear-registration plate illumination device.
- 7) a) Reversing b) Rear fog lamp. lamp.
- 8) a) b)
- 9)
- 10)
- 11)
- 12) Charging current.

Contact Allocation for ABS, EBS and ADR Connections

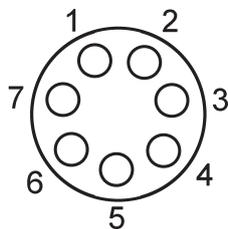
ABS / Plugs & Sockets ISO 7638



Contact allocation w/ electrical features

- | | | |
|----|------------------------------------|-----------------------|
| 1) | Pos. (+) of solenoid valve | 4/6 mm ² . |
| 2) | Pos. (+) of electronic valve | 1.5 mm ² . |
| 3) | Neg. (-) of electronic valve | 1.5 mm ² . |
| 4) | Neg. (-) of solenoid valve | 4/6 mm ² . |
| 5) | Alarm equipment | 1.5 mm ² . |

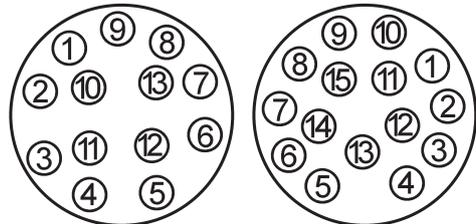
EBS / Plugs & Sockets ISO 7638



Contact allocation w/ electrical features

- | | | |
|----|---------------------------------------|-----------------------|
| 1) | Pos. (+) of solenoid valve | 4/6 mm ² . |
| 2) | Pos. (+) of electronic valve | 1.5 mm ² . |
| 3) | Neg. (-) of electronic valve | 1.5 mm ² . |
| 4) | Neg. (-) of solenoid valve | 4/6 mm ² . |
| 5) | Alarm equipment | 1.5 mm ² . |
| 6) | Reserved for data communication | 1.5 mm ² . |
| 7) | Reserved for data communication | 1.5 mm ² . |

13-PINS and 15-PINS plugs/sockets DIN 40050 ISO 12098



Contacts allocation

- 1) Left-hand direction indicator lamp.
- 2) Right-hand direction indicator lamp.
- 3) Rear fog lamp.
- 4) Common return.
- 5) Left-hand rear position and end-outline marker lamp, and rear registration plate illumination device. **1)**
- 6) Right-hand rear position and end-outline marker lamp, and rear registration plate illumination device. **1)**
- 7) Stop lamp.
- 8) Reversing lamp.
- 9) Power supply (+24V).
- 10) Worn brake lining sensor.
- 11) Pressure sensor for brakes.
- 12) Axle lifting device.
- 13) Common return for contacts 14 and 15.
- 14) Reserved for data communication. **2)**
- 15) Reserved for data communication. **2)**

1) The rear registration plate illumination shall be connected in such a manner that no lamp device has a common connection with both contacts 5 and 6.
2) Contacts 14 and 15, which are not used at present, shall be blanked to accept later fitment of pins and sleeves for data transmission functions, which are being designed. These blanks shall permit 13-pole version to mate with 15-pole versions