



## BRIEF INFORMATION

### ABS/EBS plug system in accordance with ISO 7638

- The system meets the strict requirements for modern, trailer plug connectors in accordance with ISO 4091
- Simple assembly
- Crimp connection for OE applications
- Screw-type connection for spare part applications
- Plug system available in 12 V and 24 V variants

## PRODUCT FEATURES

#### Application

The plug systems in accordance with ISO 7638-1 / ISO 7638-2 are used in almost all commercial vehicles with ABS / EBS systems. The plug connectors are suitable for ADR / GGVS applications.

#### Load-carrying capacity

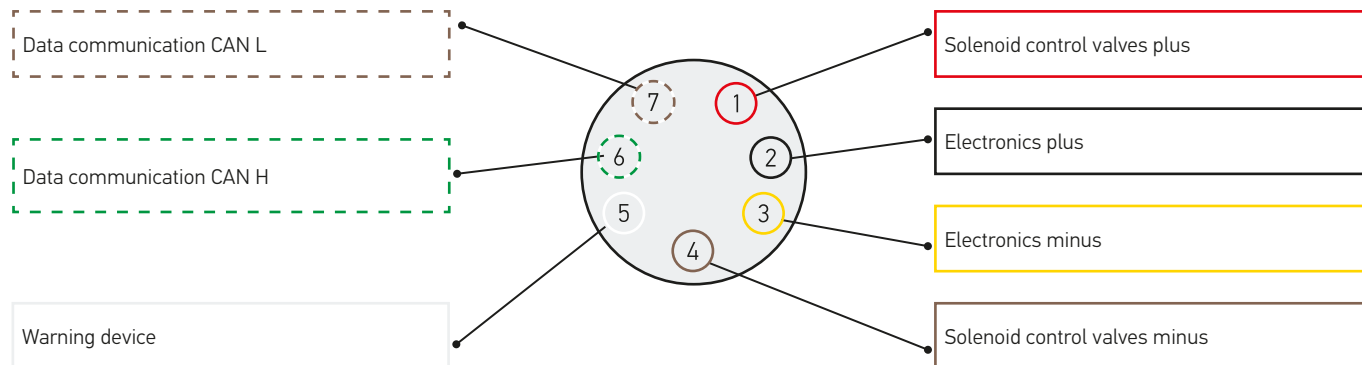
- Max. 16 A at 24 V (cable cross-section 1.5 mm<sup>2</sup>)
- Max. 25 A at 24 V (cable cross-section 2.5 mm<sup>2</sup>)
- Max. 30 A at 24 V (cable cross-section 4.0–6.0 mm<sup>2</sup>)

# RANGE OVERVIEW

Product Image	Description	Connection	Part number	PU
<b>ABS/EBS plug system 24 V/ISO 7638-1 and 12 V/ISO 7638-2</b>				
	<p><b>Socket</b> With cover, ADR/GGVS tested, with rubber seals and nickel-plated contact pins, made of glass-fibre reinforced polyamide, high-strength cable gland for the cable outlet</p> <p>Installation opening: Ø 54 mm For cable diameters: 9–16 mm Contact pins: 5 x 1.5 mm<sup>2</sup> + 2 x 4 mm<sup>2</sup> + 2 x 6 mm<sup>2</sup> and 2 blind plugs</p>			
	Folding box	Screw connections	<b>8JB 007 645-031</b>	1
	Folding box	Crimp/solder connections	<b>8JB 007 645-031</b>	1
	<b>12 V variant</b> With screw connections according to ISO 7638-2	Screw connections	<b>8JB 011 895-001</b>	1
	<p><b>Connector</b> ADR / GGVS tested, with rubber seals and nickel-plated contact bushings, made of glass-fibre reinforced polyamide, mechanical strain relief, safe latching in place through non-rusting metal hoop</p> <p>For cable diameters: 11–13 mm Contact bushings: 5 x 1.5 mm<sup>2</sup> + 2 x 4 mm<sup>2</sup> + 2 x 6 mm<sup>2</sup> and 2 blind plugs</p>			
	Folding box	Screw connections	<b>8JA 007 644-051</b>	1
	Folding box	Crimp/solder connections	<b>8JA 007 644-041</b>	1
	<b>12 V variant</b> With screw connections according to ISO 7638-2	Screw connections	<b>8JA 011 896-001</b>	1
	<p><b>Park socket</b> For ABS/EBS 24 V connectors 8JA 007 644-041 and -051</p> <p>Installation opening: Ø 54 mm, made of glass-fibre reinforced polyamide</p>			
	Folding box		<b>8HG 007 647-001</b>	1
<b>ABS/EBS plug system in accordance with ISO 7638</b>				
	<b>Crimped/solder contact pin set</b> (5 x 1.5 mm <sup>2</sup> + 2 x 4 mm <sup>2</sup> + 2 x 6 mm <sup>2</sup> and 2 blind plugs) for socket 8JB 007 645-021		<b>9MK 726 762-831</b>	1
	<b>Crimped/solder contact bushings set</b> (5 x 1.5 mm <sup>2</sup> + 2 x 4 mm <sup>2</sup> + 2 x 6 mm <sup>2</sup> and 2 blind plugs) for connector 8JA 007 644-041		<b>9MK 726 759-831</b>	1

# WIRING DIAGRAM

Trailer plug fitting, ABS/EBS, 24 V/5/7-pin, ISO 7638-1



Contact assignment for plug connectors according to ISO 7638-1, ABS/EBS 24 V

Contact no.	Function	Cable cross-section	Colour of wire insulation
1	Solenoid valve plus	4 mm <sup>2</sup>	■
2	Electronics plus	1,5 mm <sup>2</sup>	■
3	Electronics minus	1,5 mm <sup>2</sup>	■
4	Solenoid valve minus	4 mm <sup>2</sup>	■
5	Warning device <sup>1)</sup>	1,5 mm <sup>2</sup>	□
6	CAN H <sup>2)</sup>	1,5 mm <sup>2</sup>	□ ■
7	CAN L <sup>2)</sup>	1,5 mm <sup>2</sup>	□ ■

<sup>1)</sup> The warning device is triggered via contact no. 5. Under normal operating conditions, this contact's circuit in the trailer is open.

<sup>2)</sup> According to ISO 11992-1 and ISO 11992-2.

# RANGE OVERVIEW: "HEAVY DUTY" TOOL SYSTEM








Assembly suggestion

The modular case concept of the HELLA "Heavy Duty" tool system allows you to store all your crimping and extraction applications neatly and tidily. The front holds a complete set of pliers (handle and head), and up to four other tool heads. The rear offers enough space for a variety of extraction blades and their basic handles.

The linear crimping technology of the HELLA "Heavy Duty" tool system offers maximum precision. Unlike traditional, radial pliers, this concept is notable for its even distribution of force during crimping, which allows it to produce consistently high-quality work results. The modular system structure allows users to build the system entirely according to their individual needs, and enables separate replacement of basic handles and crimping/extraction inserts.

- High-quality, modular tool concept
- Linear/parallel crimping technology allows maximum precision
- Ergonomic, soft handle with slip guard
- Optimised mechanical power transmission facilitates long-term, unfatiguing use
- Made of hardened tool steel with special surface finish on elements subject to particularly high loads

Product Image	Part number	Description
	8PE 863 807-051	Tool handle for crimping pliers
	8PE 863 807-071	Tool head ABS-G
	8PE 863 807-301	Basic grip for extraction
	8PE 863 807-361	Extraction blade
	8PE 863 807-041	Case

More information on the full range of our "Heavy Duty" systems is available in our main "Electrical vehicle installation" brochure, or on request.