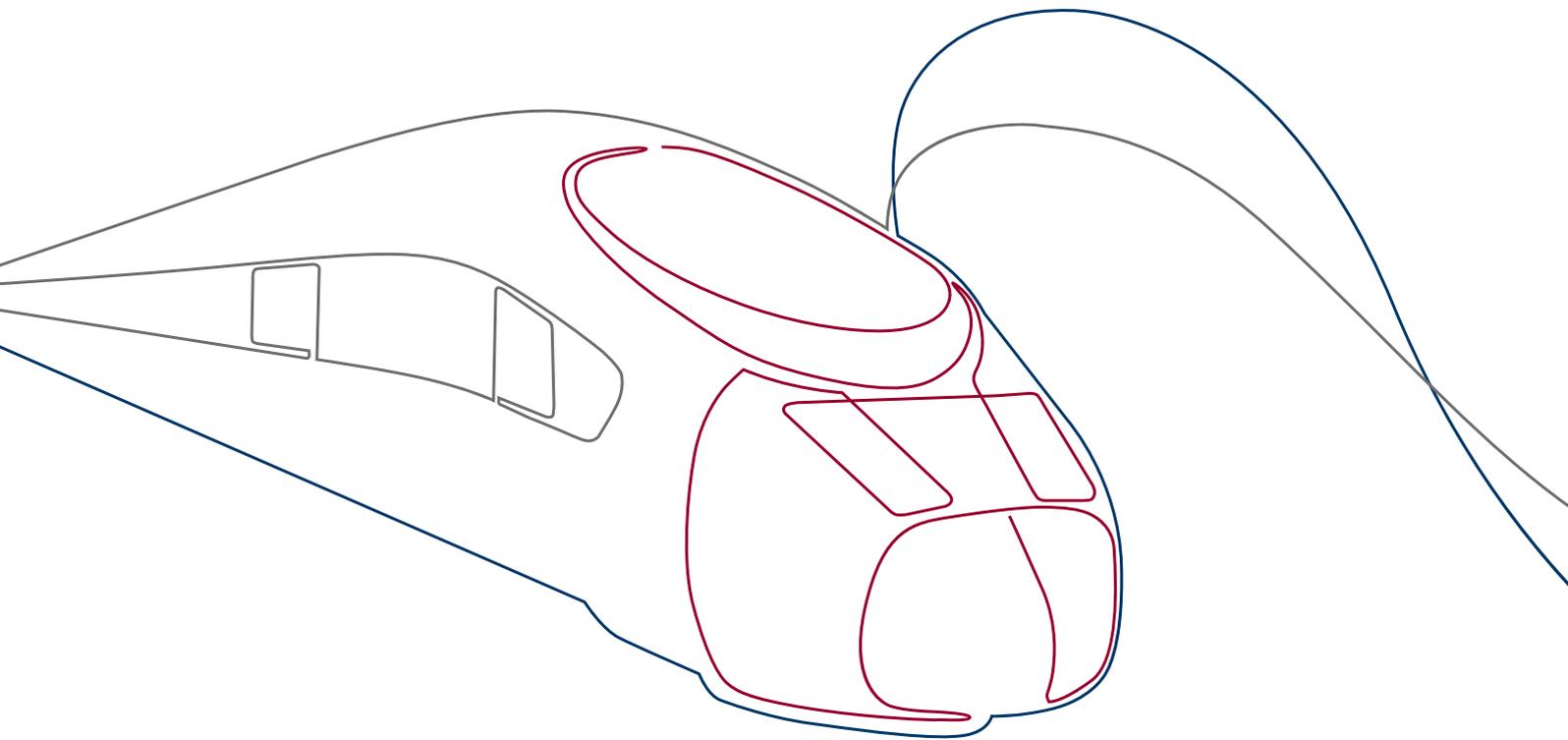


## PRODUCTS ACCORDING TO UIC 558 VE



## CONNECTORS ACCORDING TO UIC 558 VE



### PRODUCT INFORMATION

The connector is used in international transport for vehicles, including locomotives, and connects lines for remote switching, remote control and public address. Installation guarantees a non-destructive disconnection of plug and socket in the case of separation of two vehicles that have not been electrically decoupled. The connection corresponds to the regulations subject to UIC 558 VE (until 1994: UIC 568 VE).

### APPLICATION AREAS

- For remote control and information lines
- For remote switching of lighting, control of doors, transmission of acoustic information and binary data
- The socket and the plug can be equipped on request with special contact inserts according to the customer's requirements
- For refurbishments of rail vehicles
- For use as spare parts

### FUNCTION

- Standard versions: 13-pole and 18-pole plug connections. The 18-pole socket is compatible with the 13-pole plug
- A coding option is provided
- Current transmission of up to 10 A
- Protection against dust and water according to protective class IP54
- Protection against unintended decoupling
- Short maintenance times with interchangeable insert (optional)

Commitment to quality: We supply this product in accordance with our tested and certified quality standard



**DIN EN ISO 9001:2015**  
Certified  
Quality Management System



**DIN EN 15085-2 CL1**  
International welding  
certification for railway  
vehicles

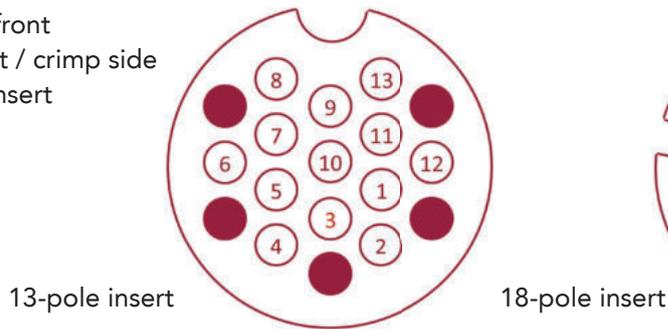


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Quality management standard  
for the railway industry

## TECHNICAL DATA

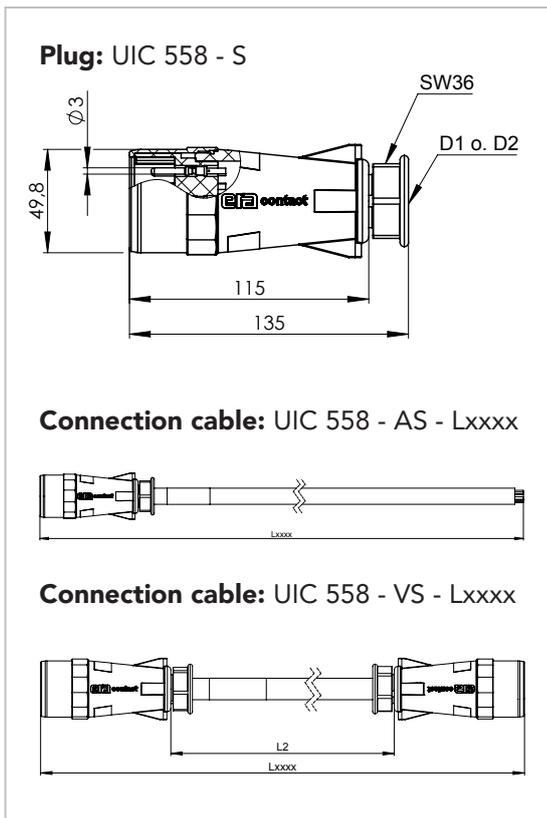
### Pole arrangement and connection diagram

Looking from the front at the socket insert / crimp side of the connector insert



SPECIFICATION	DESCRIPTION	VALUES AND DATA
Standards	UIC 558 VE Protective type (EN 60529) Fire protection	IP54 when not connected EN 45545
Connection type	Number of poles Cable cross section Connection to socket contact Connection to pin contact	13-pole / 18-pole 0.75 ... 1.00 mm <sup>2</sup> crimp crimp
Electrical data	Rated voltage Rated current Volume resistance Insulation resistance	25 V 10 A ≤ 2 mΩ > 3 GΩ
Mechanical data	Contact diameter Mechanical service life	3 mm > 10,000 plug cycles
Application conditions	Temperature range	-40 °C ... +90 °C
Materials	Plug housing Receptacle housing Contact insert Seals in the housing Contacts	Thermoplastic, glass-fibre reinforced Cast aluminium Thermoplastic, glass-fibre reinforced Elastomers Copper alloy, coated
Weights	Plug (without cable) Receptacle housing Receptacle housing with interchangeable insert	ca. 200 g ca. 650 g ca. 750 g

## PLUG, CONNECTION CABLE



### Product information

Our connectors are equipped with high-grade components for signal and energy transmission. This product for remote control and information lines will thus fulfil high functional and safety requirements for a long time.



Red colour markings in the 18-pole version

### Order code / article no.:

Model	UIC 558	
Type	S	plug (without cable)
	AS	connection cable with 1 plug
	VS	connection cable with 2 plugs
Cable length	Lxxxx	cable length in mm Other lengths on request
Contacts	P13	13 pins / poles
	P18	18 pins / poles
		Other inserts on request
Kink protection	D1	for cable diameter 12.5 to 15.5 mm
	D2	for cable diameter 16.5 to 18.5 mm

### Product designation      Article no.

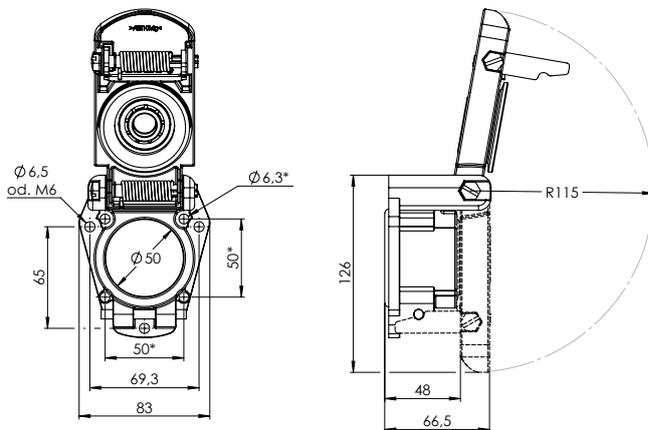
UIC 558 - S - P18 - D2	122051
UIC 558 - VS - L1500 - P18 - D2	072567
UIC 558 - AS - L2500 - P18 - D2	072585

Example: 072585 is a plug with connection cable and a total length of 2,5 m.

**INSTALLATION:** The contact insert is coded according to the number of poles. The 18-pole socket is compatible with the 13-pole plug.

## COUPLING BOX, DUMMY & EMPTY RECEPTACLE

### Receptacle: UIC 558 - KDO (identical to KDK, BDO, LDO)



\* Installation option with alternative hole pattern

### Product information

With its robust construction our socket housing is highly resistant to chemical influences. This means that it is suitable for long-term use in rough conditions.



Red colour marking on the cap in the 18-pole version.

### Order code / article no.:

Model	UIC 558	
Type	KDO	receptacle with insert and sockets
	KDK	receptacle with insert, sockets and cables
	BDO	dummy receptacle with insert but without contacts
	LDO	empty receptacle without insert, without sockets
	KDO-W	Receptacle with interchangeable insert, crimp adapter and bushings
KDK-W	Receptacle with interchangeable insert, crimp adapter, bushings and cable	
Cable length (for KDK)	Lxxxx	cable length [mm] Other lengths on request
Contacts	P13	13 pins and cable screw connection
	P18	18 pins and screw connection
Colour option	26	agate grey, RAL 7038
	62	traffic red, RAL 3020
		Other colours on request

### Product designation

### Article no.

UIC 558 - KDO - P18 - 26	072544 - 26
UIC 558 - KDK - L2500 - P18 - 26	072586 - 26
UIC 558 - BDO - P18 - 26	122389 - 26

Example: 072586 - 26 is an 18-pole, agate grey receptacle with a 2,5m connection cable.

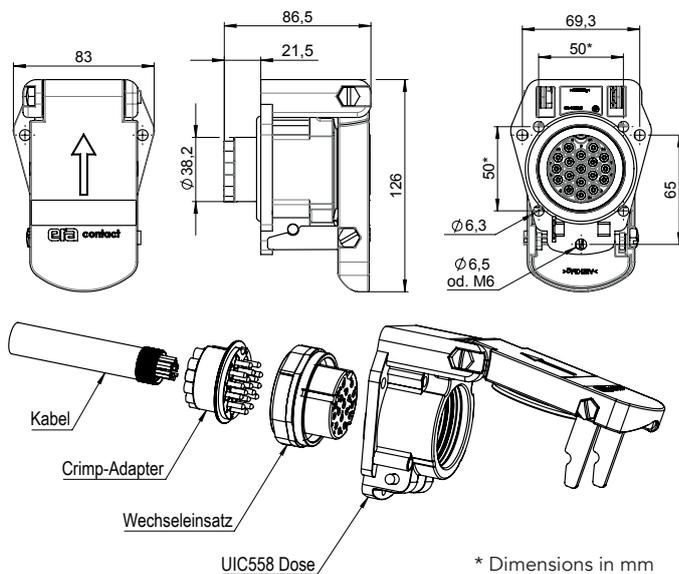
**INSTALLATION:** The emergency unlocking device guarantees non-destructive disconnection of plug and socket. To ensure this function, the receptacle must be mounted vertically at the ends of the vehicles with the cap opening upwards. It can be mounted with 3 or 4 bolts (see above).

The interchangeable insert is mounted using the additional crimp adapter within the receptacle.

## RECEPTACLE WITH INTERCHANGEABLE INSERT

### Receptacle: UIC 558 - KDO-W

W 122385-26 (constructed in the same way as KDK)



### Product information

Our receptacle with interchangeable insert offers significantly reduced maintenance efforts. Only the interchangeable insert may be replaced on site. New cabling or crimping work is no longer required.



## SPARE PARTS AND ACCESSORIES

NAME	DESCRIPTION	ARTICLE NO.
Interchangeable insert	For KDO-W and KDK-W system	072587
Contact pin incl. spring	Perm. wire cross-sections: 0.75 mm <sup>2</sup> to 1 mm <sup>2</sup>	122033
Double-socket incl. spring	For KDO-W and KDK-W system	122152
Ejector for contacts	Tool for dismantling	072588
Crimping tool DMC FT8		077812



## MORE BENEFITS FOR YOU:

- Strict adherence to delivery dates
- Consistently high quality worldwide
- All-round service worldwide
- Many years of expertise for your product
- International positioning
- Engineering service on site – from prototype to after-sales
- Just-in-time delivery
- Original manufacturer
- A team only for you

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[www.bremi.de](http://www.bremi.de)  
[www.era-contact.de](http://www.era-contact.de)  
[www.streicherplast.de](http://www.streicherplast.de)

aichele GROUP  
GmbH + Co. KG  
Gewerbstraße 44  
75015 Bretten  
Deutschland / Germany  
Phone +49 (0)70 32 - 9 55 30 0  
[info@aichele-group.com](mailto:info@aichele-group.com)

BREMI Fahrzeug-Elektrik  
GmbH + Co. KG  
Grüner Weg 1  
19303 Dömitz  
Deutschland / Germany  
Phone +49 (0)38 758 - 304 0  
[info@bremi.de](mailto:info@bremi.de)

BREMI Fahrzeug-Elektrik  
GmbH + Co. KG  
Vertriebs- und Logistikzentrum  
Einsteinstraße 1  
71083 Herrenberg  
Deutschland / Germany  
Phone +49 (0)70 32 - 955 30 0  
[info@bremi.de](mailto:info@bremi.de)

streicherplast GmbH + Co. KG  
Friedhofstraße 4  
78588 Denkingen  
Deutschland / Germany  
Phone +49 (0)74 24 98 17-0  
[info@streicherplast.de](mailto:info@streicherplast.de)

era-contact GmbH Germany  
Gewerbstraße 44  
75015 Bretten-Gölshausen  
Deutschland / Germany  
Phone +49 (0)72 52 - 971 0  
[info.germany@era-contact.de](mailto:info.germany@era-contact.de)

era-contact Tunisia S.A.R.L.  
Hriza  
7026 El Azib, Bizerte  
Tunesien / Tunisia  
Phone +216 (0)72 - 45 10 10  
[info.tunisia@era-contact.de](mailto:info.tunisia@era-contact.de)

era-contact (Suzhou) Co., Ltd.  
Building P,  
No. 9 Chang Yang Street,  
Suzhou Industrial Park  
Jiangsu, 215024, P.R. China  
Phone +86 (0)5 12 - 6299 1800  
[info.china@era-ct.com](mailto:info.china@era-ct.com)

era-contact Turkey  
Demiryolu Sistemleri San.  
ve Tic. Ltd. Sti.  
Cerklesli OSB Mahallesi,  
Imes-9 Caddesi, No:31,  
41455 Dilovasi, Kocaeli  
Türkei / Turkey  
Phone +90 (0) 532 504 38 09  
[info.turkey@era-contact.com.tr](mailto:info.turkey@era-contact.com.tr)

era-contact USA, LLC  
55 Cabot Court, Ste. B  
Hauppauge, NY 11788, USA  
Phone +1 (864) 777-6060  
[info.usa@era-contact.com](mailto:info.usa@era-contact.com)