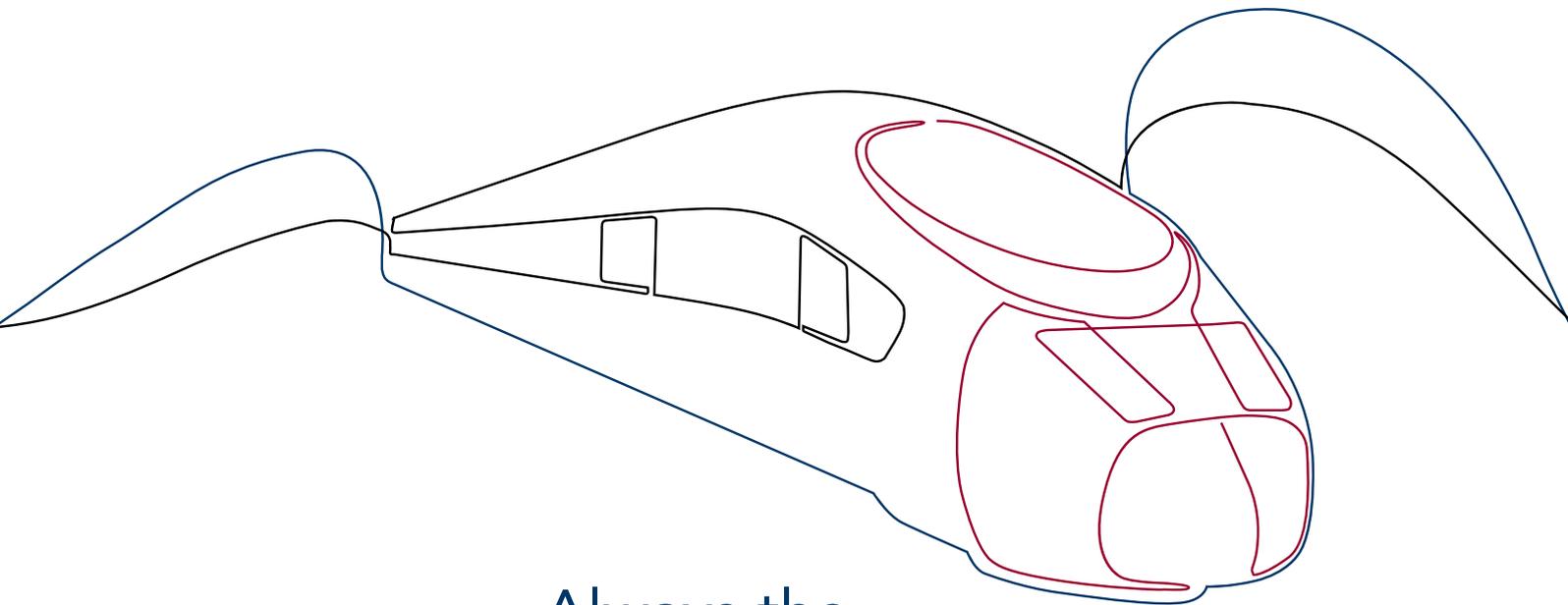


UIC 541



Always the  
right connection



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**Quality Standard:** All products are subject to an extensive quality test in the final inspection phase. Of course, we are certified according to current industry-specific standards.

## UIC 541 Connectors



### PRODUCT INFO

The rail connector is used in international traffic for traction units, passenger coaches and in freight traffic.

The connector systems meet the requirements of UIC 541-5 VE and UIC 541-6 VE.

The receptacle and the plug can be customized with a UIC-conform cable on request.

### APPLICATION AREA

- The UIC 541 VE is used in traction units and passenger coaches for power and signal transmission of the electro pneumatic brake and the emergency brake override/emergency power request.
- In freight cars, UIC 541 VE is used for the power and signal transmission of the electro pneumatic brake.

### FUNCTIONS

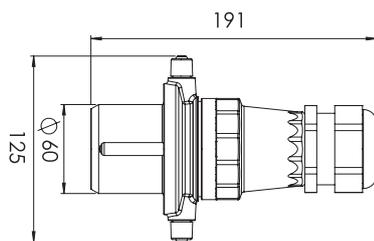
- High-quality components in robust design
- State-of-the-art technology in an innovative design
- Feedback regarding presence of the plug (optionally via snap-action switch)
- Feedback regarding end of the train (optionally via pilot contact in the dummy receptacle)
- High quality cables with class 6 cores for higher protection against cable breakage

## UIC 541 TECHNICAL DATA

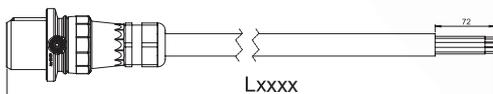
SPECIFICATION	DESCRIPTION	VALUES & DATA
Standards	Type Protection class  Fire protection	UIC 541 VE IP69 (without drainage) or IP 56 (with drainage) according to EN 60529, in the plugged or unplugged state with closed receptacle (other versions on request) EN 45545-2 HL3
Connection type	Number of poles  Connection to female contact Connection to male contact	9-pole  Crimp Crimp
Electrical characteristics	Rated voltage Rated current: · Contact 1, 2, 3, 4 · Contact A, B · Contact C, E · Contact D  Contact resistance	250 V  35 A 25 A 6 A 12 A  ≤ 1 mΩ (new condition)
Mechanical characteristics	· Contact 1, 2, 3, 4 · Contact A, B · Contact C, E · Contact D  Mechanical life/ plugging cycles	Cable cross section:    Contact diameter: 10 mm <sup>2</sup> 7 mm 6 mm <sup>2</sup> 4 mm 0.75-1 mm <sup>2</sup> 3 mm 2.5 mm <sup>2</sup> 3 mm  > 10,000
Operating conditions	Temperature range	-50°C ... +85°C
Materials	Housing plug Housing receptacle Contact block Sealing parts Contact material Contact surface: · Contact 1, 2, 3, 4 · Contact A, B · Contact C, E · Contact D	Thermoplastic, PA-based Cast aluminum Thermoplastic, PA-based Elastomers, silicones Wrought copper alloy  Silver Silver Gold Gold
Weights	Plug (without cable) Receptacle Dummy receptacle	approx. 0.5 kg approx. 1.7 kg approx. 1.4 kg

# UIC 541 PLUG (S), CONNECTOR CABLE (AS), JUMPER CABLE (VS)

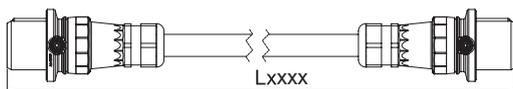
## Plug: UIC541-S



## Connector cable: UIC541-AS-Lxxxx



## Jumper cable: UIC541-VS-Lxxxx



## Product info

Our plugs are equipped with high-quality components for signal and power transmission. This product has been designed for remote control and information cables and therefore meets high functionality and safety requirements in rail transportation on a permanent basis.



UIC 541 plug housing, deep black RAL 9005

## Order options and key

### Example:

UIC 541 connector cable, plug one-sided, with a total length of 1.5 m

Type	UIC 541	_____	UIC541-AS-L1500
Product	S	plug (without cable)	_____
	AS	Connector cable with 1 plug	_____
	VS	Jumper cable with 2 plugs	_____
Total length	Lxxxx	Length in mm	_____
		(Standard and desired lengths on request)	

# UIC 541 RECEPTACLE (KDO), DUMMY RECEPTACLE (BDO) RECEPTACLE WITH CABLE (KDK)

## Product info

With its robust construction, our receptacle housing features increased resistance to chemical influences. This ensures permanent use under harsh conditions.

### Versions:

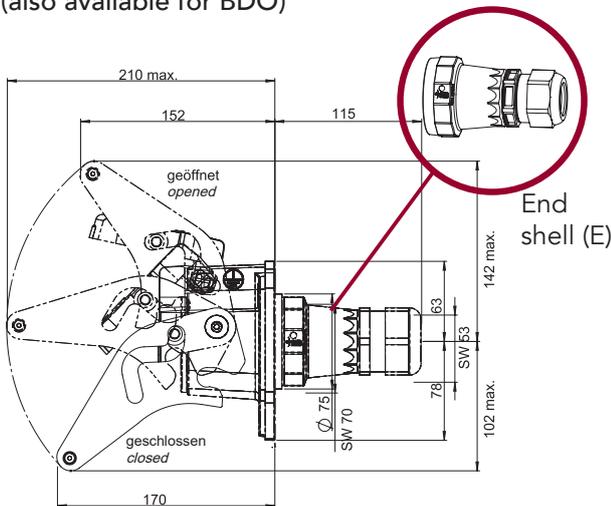
With end shell (E1) or without end shell(E0)  
With microswitch (S1) or without microswitch (S0)  
With drainage (W1) or without drainage (W0)

Additional version for dummy receptacle:  
With pilot contact (P1) or without pilot contact (P0)

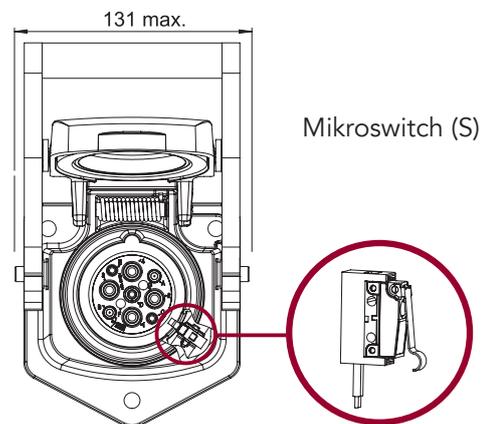


UIC 541 receptacle with drainage (E1),  
Deep Black RAL 9005

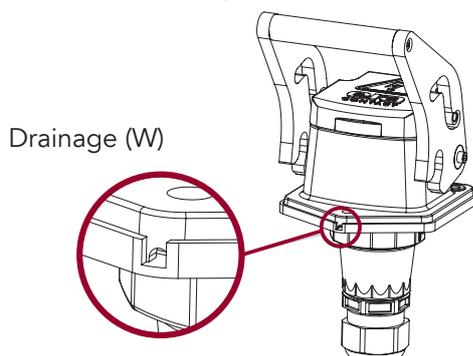
### Receptacle: UIC541-KDO-E1 (also available for BDO)



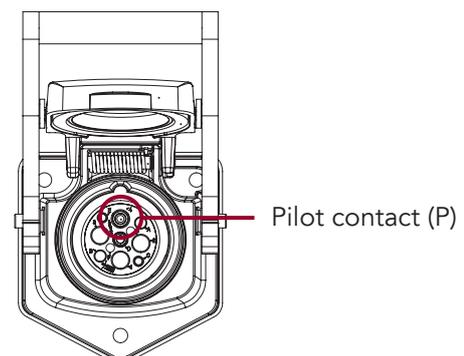
### Receptacle: UIC541-KDO-S1



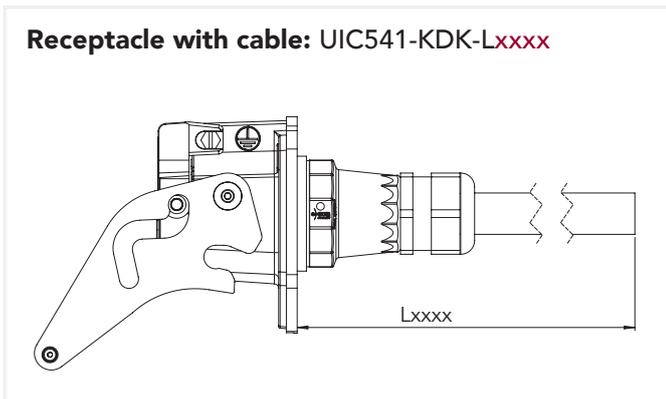
### Receptacle: UIC541-KDO-W1 (also available for BDO)



### Dummy receptacle: UIC541-BDO-P1



# UIC 541 RECEPTACLE (KDO), DUMMY RECEPTACLE (BDO) RECEPTACLE WITH CABLE (KDK)



Specify cable length in mm

## Order options and key

### Example

UIC 541 receptacle with end shell, microswitch and drainage

UIC541-KDO- E1-S1- W1

UIC 541 dummy receptacle with end shell, microswitch, pilot contact and drainage

UIC541-BDO- E1-S1-P1 -W1

UIC 541 receptacle with cable, with a total length of 1,500 mm, with end shell, microswitch and drainage

UIC541-KDK-L1500-E1-S1- W1

<b>Type</b>	UIC 541								
<b>Product</b>	KDO	Receptacle with insert and sockets							
	BDO	Dummy receptacle with insert but without contacts							
	KDK	Receptacle with cable							
<b>Total length</b> (only for KDK)	Lxxxx	Length in mm							
		(Standard and desired lengths on request)							
<b>End shell</b>	E0	Without end shell							
	E1	With end shell							
<b>Mikroswitch</b>	S0	Without microswitch							
	S1	With microswitch							
<b>Pilot contact</b> (only for BDO)	P0	Without pilot contact							
	P1	With pilot contact							
<b>Drainage</b>	W0	Without drainage							
	W1	With drainage							

**Color options** RAL9005 Deep Black  
(Other colors on request)

## UIC 541 SPARE PARTS AND ACCESSORIES

DESIGNATION	DESCRIPTION	ARTICLE NO.
Contact pin	Ø 3 mm (1.0 mm <sup>2</sup> )	131696
Contact pin	Ø 3 mm (2.5 mm <sup>2</sup> )	130760
Contact pin	Ø 4 mm (6.0 mm <sup>2</sup> )	130457
Contact pin	Ø 7 mm (10.0 mm <sup>2</sup> )	130453
Contact socket	Ø 3 mm (1.0 mm <sup>2</sup> )	131687
Contact socket	Ø 3 mm (2.5 mm <sup>2</sup> )	130753
Contact socket	Ø 4 mm (6.0 mm <sup>2</sup> )	130465
Contact socket	Ø 7 mm (10.0 mm <sup>2</sup> )	130474
Contact ejection set	Disassembly tool	072792
Crimping tool	0.75 mm <sup>2</sup> / 1 mm <sup>2</sup>	072755
Crimping tool	2.5 mm <sup>2</sup> / 6 mm <sup>2</sup>	139836
Crimping tool	10 mm <sup>2</sup>	072756



## MORE BENEFITS FOR YOU:

- Punctuality
- Consistently high quality all over the world
- Comprehensive service wherever you are in the world
- Years of expertise for your product
- International presence
- On-site engineering service – from prototyping to after-sales
- Original manufacturer
- A team just for you



A company of



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