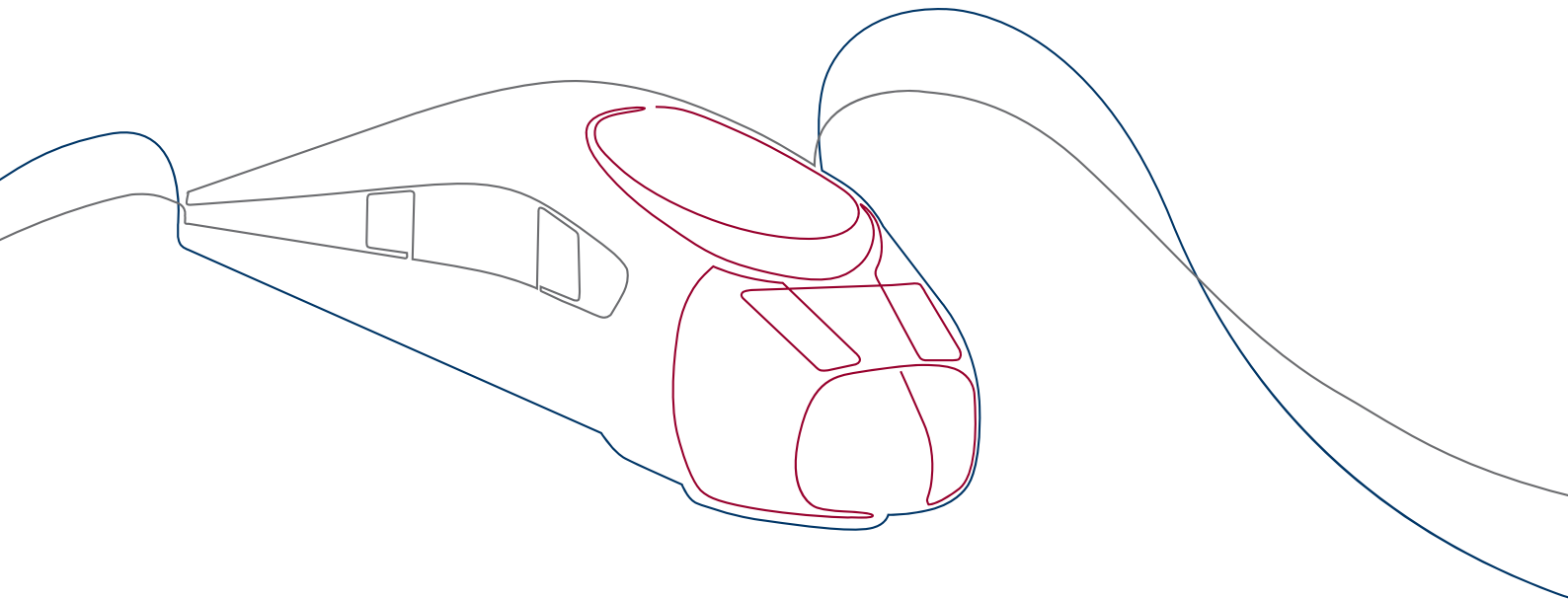
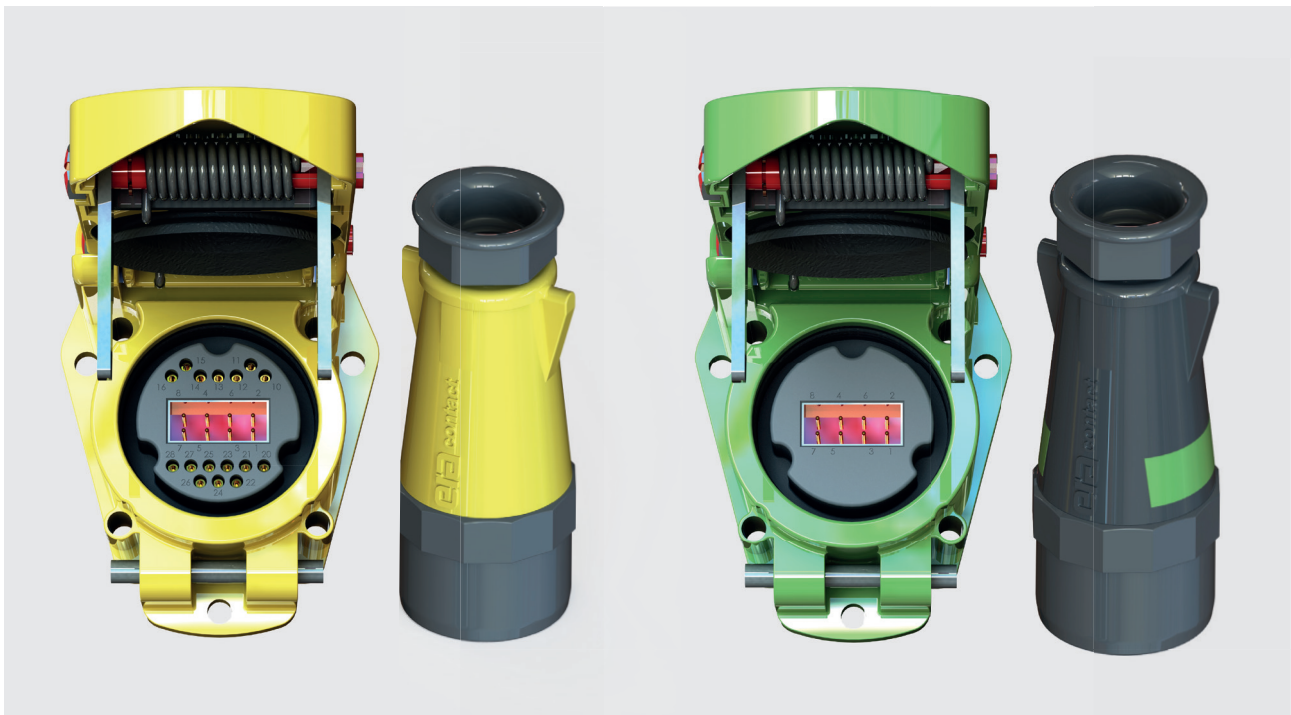


## PRODUCTS ACCORDING TO UIC IT



## PRODUCTS ACCORDING TO UIC IT



### PRODUCT

#### Components:

- Receptacle
- Plug connector

UIC IT is a standard-compliant series in accordance with IRS 50558 with 8-pole gigabit module.

#### Optional versions:

- Magnetic closure: Clear reduction in mechanical wear
- Additional 16 signal contacts: Enable system applications to be controlled

### AREA OF USE

- High-speed Ethernet solution which can be used for all railway vehicles, regardless of operator
- Robust and cost-effective solution for universal use in data communication
- The UIC IT can be installed as an upgrade in existing receptacles and plug connectors from the UIC 558 VE series
- The dimensions are identical to those of the UIC-558 VE series

### FUNCTION

- The UIC IT enables data to be transmitted for infotainment and entertainment applications up to 10 Gbit/s via a corresponding module (4x 2 contacts)
- Ensuring network availability in the rail sector

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



**IATF 16949**  
Quality management standard  
for the automotive industry



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



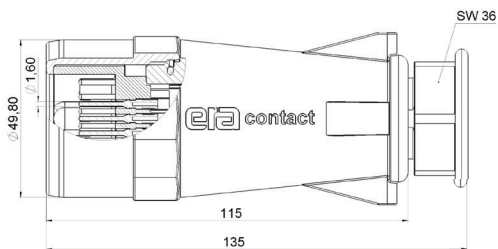
**IRIS Certification™ based  
on ISO/TS 22163:2017**  
Quality management  
standard for the railway  
industry

## TECHNICAL DATA OF THE UIC IT

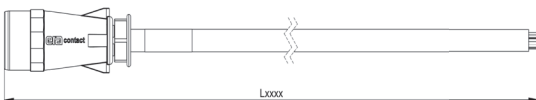
SPECIFICATIONS	DESCRIPTION	VALUES AND DATA	
Standards	Design Degree of protection Fire protection	UIC IT in accordance with IRS 50558 IP 56 in accordance with EN 60529 EN 45545-2	
Connection type	Number of poles	<b>24-pole (16+8)</b>	<b>8-pole</b>
	Connection cross-section	(16x) 0,75 - 1,00 mm <sup>2</sup> (8x) AWG 24	(8x) AWG 24
	Connection to female contact	Crimp	Crimp
	Connection to male contact	Crimp	Crimp
Gigabit module	Number of contacts	8 (4x2)	8 (4x2)
	Data transmission rate	up to 10 GBit/s	up to 10 GBit/s
	Rated current per contact	5 A	5 A
	Rated voltage	50 V	50 V
	Rated impulse voltage strength	800 V	800 V
	Contamination class	3	3
Signal contacts	Number of contacts	16	
	Rated current per contact	10 A	
	Rated voltage	80 V	omitted
	Rated impulse voltage strength	800 V	
	Contamination class	3	
Electrical characteristics	Volume resistance	≤ 10 mΩ	≤ 4 mΩ
	Insulation resistance	> 100 MΩ	> 100 MΩ
Mechanical characteristics	Contact diameter	1,6 mm / 1,04 mm	1,04 mm
	Mechanical service life/ plug cycles	> 10.000	> 10.000
Operating conditions	Temperature range	-40 °C ... +85 °C	-40 °C ... +85 °C
Materials	Plug shell	Thermoplastic, fiberglass-reinforced	
	Receptacle shell	Cast aluminum	
	Contact carrier	Thermoplastic, fiberglass-reinforced	
	Sealing parts	Elastomers, silicones	
	Contact material	Copper alloy, coated	
	Contact surface:		
Signal contacts	Gold		
Gigabit module	Gold		
Weights	Plug (excluding cable)	Approx. 220 g	
	Receptacle shell (assembled)	Approx. 670 g	

# PLUGS, CONNECTOR & JUMPER LINES

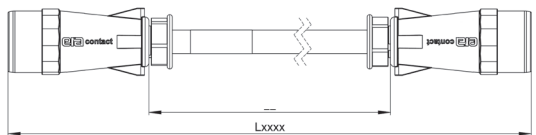
## Plug: UIC IT



## Connector line: UICIT-AS-Lxxxx

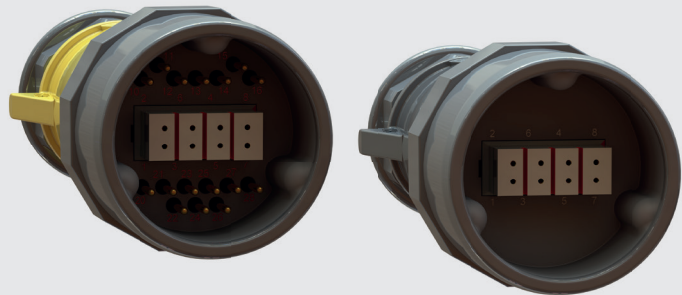


## Jumper line: UICIT-VS-Lxxxx



## Product information

Our plugs are equipped with high-quality components for transmitting data from infotainment and entertainment services; as a result, they meet the high functional and safety requirements for railway transport on a long-term basis.



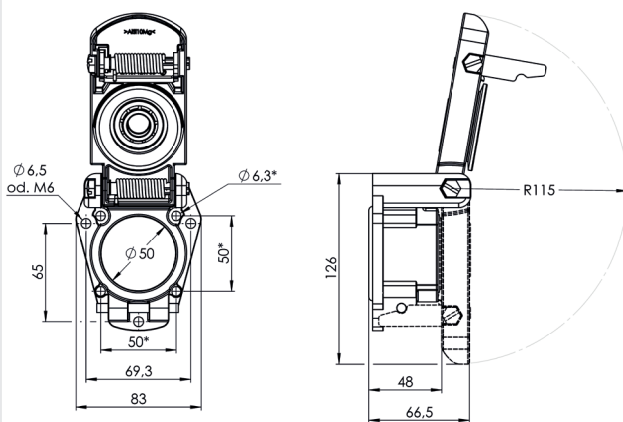
24-pole version (16 + 8)  
Plug shell, sulfur yellow RAL 1016

8-pole version  
Plug shell, black with green-yellow stripe RAL 6018

TYPE	ORDER CODE	DESKRIPTION
DESIGN	UIC IT	Plug and cable in accordance with UIC IT for transmitting data from infotainment and entertainment services in railway transport
PRODUCT	UICIT-AS-LXXXX-P24/P8	UIC IT <b>connector line</b> with cable plug + 8-pole gigabit module + 16 signal contacts; cable length according to customer requirements; color: 24-pole RAL 1016 sulfur yellow/ 8-pole black with green-yellow stripe RAL 6018
	UICIT-VS-LXXXX-P24/P8	UIC IT <b>jumper line</b> with cable plugs on both ends + 8-pole gigabit module + 16 signal contacts; cable length according to customer requirements; color: 24-pole RAL 1016 sulfur yellow/ 8-pole black with green-yellow stripe RAL 6018

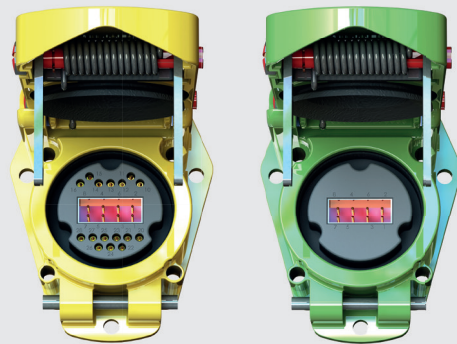
# RECEPTACLE & DUMMY RECEPTACLE

## Receptacle: UIC IT



## Product information

Our receptacle shell boasts increased resistance to mechanical, thermal and chemical influences thanks to its robust design. This ensures that it can be used under challenging conditions on a long-term basis.



24-pole version (16 + 8)  
Receptacle shell, sulfur yellow RAL 1016

8-pole version  
Receptacle shell, green-yellow RAL 6018

TYPE	ORDER CODE	DESCRIPTION
DESIGN	UIC IT	Female insert, empty receptacle and dummy receptacle in accordance with UIC IT for data transmission from infotainment and entertainment services in railway transport
PRODUCT	UIC-IT-BE-LXXXX	UIC IT female insert with <b>connector line</b> + 8-pole gigabit module + 16 signal contacts; cable length according to customer requirements; color: 24-pole RAL 1016 sulfur yellow/8-pole green-yellow RAL 6018
	UICIT-LDO-P24/P8	UIC IT <b>empty receptacle</b> , shell without female insert; color: 24-pole RAL 1016 sulfur yellow/ 8-pole green-yellow RAL 6018
	UICIT-BDO-P24/P8	UIC IT <b>dummy receptacle</b> with female insert, without contacts; color: 16-pole + 8-pole RAL 1016 sulfur yellow/ 8-pole green-yellow RAL 6018



## OUR 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



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