miniCON plug connector



8595/1-PB1-S-S25-00E Art. No. 298962



- · Simple handling using hot swap technology
- · Versatile application possibilities thanks to modular structure
- Most extreme operating conditions in hazardous areas
- Reliable data and signal connections or power supplies
- Simple connection and disconnection thanks to one-handed operation

MY R. STAHL 8595D



R. STAHL's Series 8595/1 explosion-protected miniCON plug connectors with up to eight poles keep you safely connected. The high-quality plastic or stainless steel plug connectors have impressed many customers with their reliability and versatility in application. Their hot swap disconnecting capacity means that intrinsically safe signal supplies and power supplies up to 500 V/16 A can be connected and disconnected reliably and safely without the need for a hot work permit or other hot work authorisation. The miniCON connectors designed for conductor cross-sections of 0.25 mm² to 2.5 mm² are available for directly connecting electrical lines or for device installation in the device plug and flange socket types of construction. The new plug connectors for hazardous areas in Zones 1 and 21 stand out from the competition thanks to their modular structure and logically arranged components, which enable quick, easy mounting. Our patented single-handed operation means that matching plug connectors, which can be defined by the installer using internal coding for up to three applications, can be connected in no time.

Technical Data

Explosion Protection	
Area of application	European Union (ATEX) IECEx
Application range (zones)	1, 2, 21, 22
IECEx gas certificate	IECEx EPS 20.0035X
IECEX gas certificate	IECEx EPS 20.0035X
IECEx gas explosion protection	Ex db eb IIC T6 / T5 Gb
IECEx gas explosion protection 2	Ex ia IIC T6 Ga
IECEx dust certificate	IECEx EPS 20.0035X
IECEx dust explosion protection	Ex tb IIIC T80 °C / T95 °C Db
IECEx dust explosion protection 2	Ex ia IIIC T80 °C Da
ATEX gas certificate	EPS 20 ATEX 1075 X
ATEX gas certificate	EPS 20 ATEX 1075 X
ATEX gas explosion protection	
ATEX gas explosion protection 2	
ATEX dust certificate	EPS 20 ATEX 1075 X
ATEX dust explosion protection	
ATEX dust explosion protection 2	
Certificates	ATEX (EPS), IECEx (EPS)
Declaration of Conformity	ATEX (EUK)

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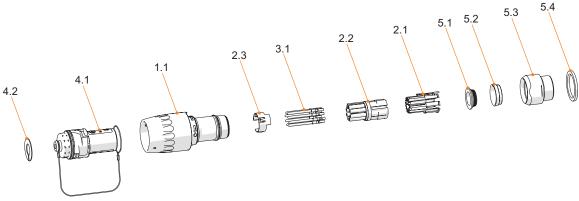
Rated operational voltage AC 500 V Rated operational voltage DC max. 110 V Voltage tolerance ±10% Rated insulation voltage 690 V Rated operational current for DC 16 A Rated operational current for DC 8 A Rated operational current for DC 2 16 A No. of poles 7 P+ PE / 8 P No. of poles 7 P+ PE / 8 P AC frequency range 50 – 60 Hz Device Specific Data Back-up fuse with thermal protection Back-up fuse without thermal protection 16 A GL Ambient temperature 460 °C +75 °C Ambient temperature 76 °F +167 °F Mechanical Data Ex e device plug, reverse Degree of protection (IP) (IEC 60529) IP66 IP67 IP69 Base part Plug Enclosure material Nickel-plated brass Contact type Socket contact Connection cross-section 2 1.5 mm² Connection cross-section 2 1.5 mm² Connection cross-section 2 min. 1.5 mm² Connect	Electrical Data	
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Connection cross-section AWG Connection cross-section AWG Connection cross-section 2 min. 1.5 mm² Connection cross-section 2 max. 1.5 mm² Connection cross-section 2 AWG min. 16 AWG Connection cross-section 2 AWG min. 16 AWG Connection thread M32 x 1.5 Impact strength (IEC 60079) 7 J Coding 1-3, arbitrary Seal Silicone Weight 567 g Weight 1.25 lb Mounting / Installation Connection type Connection type 2 Components	Connection cross-section	2.5 mm²
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Coding 1-3, arbitrary Seal Silicone Weight 567 g Weight 1.25 lb Mounting / Installation Connection type crimp Connection type 2 solder Components	Connection thread	M32 x 1.5
Seal Silicone Weight 567 g Weight 1.25 lb Mounting / Installation Connection type crimp Connection type 2 solder Components	Impact strength (IEC 60079)	7 J
Weight 567 g Weight 1.25 lb Mounting / Installation Connection type crimp Connection type 2 solder Components	Coding	1-3, arbitrary
Weight 1.25 lb Mounting / Installation Connection type crimp Connection type 2 solder Components	Seal	Silicone
Mounting / Installation Connection type crimp Connection type 2 solder Components	Weight	567 g
Connection type crimp Connection type 2 solder Components	Weight	1.25 lb
Connection type 2 solder Components	Mounting / Installation	
Components	Connection type	crimp
	Connection type 2	solder
Protective cap available Yes	Components	
	Protective cap available	Yes

miniCON plug connector



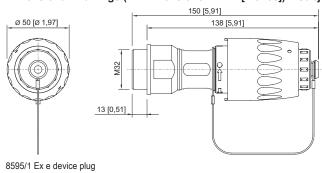
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Technical Drawings – Subject to Alterations



- Code disk
- Protective cap
- Plug basic part
- PE contact (only for metal variant)
- Contacts
- Insulator
- Contact holder
- Earthing ring Clamping disc
- 4.2 4.1 1.1 2.3 3.1 2.2 2.1 5.1 5.2 5.3
- Ex e adapter Seal

Dimensional Drawings (All Dimensions in mm [inches]) - Subject to Alterations



Accessories

EMC/shielding		Art. No.	
00	To create an EMC-compliant connection of braided, shielded or reinforced conductors.	307512	
x e flange socket,	reverse	Art. No.	
	Enclosure material: Nickel-plated brass	298998	
	Contact type: Pin contact		
	Connection cross-section: 2.5 mm²		
	Number of poles: 7 P + PE/8 P		
	Connection type: Crimping		
Crimping tool		Art. No.	
	For all versions with crimp connection of 0.14 to 6 mm ²	295689	

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Contact mounts/po	ositioners for rotated industrial contacts	Art. No.
	The selection of the contact mount is based on the crimp contacts to be processed. - Exact positioning of the crimp contact during the crimping process - Reliable, reproducible crimping result - Adapted for miniCON contacts	299586
daptor		Art. No.
0000	KIT 8595 nickel-plated brass adaptor, M20 x 1.5, for installation in Ex e enclosure	304566
	KIT 8595 nickel-plated brass adaptor, M25 x 1.5, for installation in Ex e enclosure	304568
	KIT 8595 nickel-plated brass adaptor, M32 x 1.5, for installation in Ex e enclosure	296754
ocket contact		Art. No.
000	KIT 8595 socket contacts (2.5 mm²), 8 pieces	286154
Code disks		Art. No.
000	KIT coding plate 8595, four colours, without labelling Customer-specific labelling available on request	289939
Reducer		Art. No.
	CMP-737DR Reducer M32 x 1.5 - M20 x 1.5 Brass	281582
	CMP-737DR Reducer M32 x 1.5 - M25 x 1.5 Brass	281584

Spare Parts

Jam nut, nickel	Jam nut, nickel-plated brass	
	Material: Nickel-plated brass One piece Thread size: M32	110869
Contact holder	for socket contact	Art. No.
3 9 3	KIT 8595 socket contact insert + PE	286146
Protective cap		Art. No.
0	KIT 8595 plug protective cap (pin/socket) Incl. KIT 8595 coding plates, four colours, without labelling	286161

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We reserve the right to make alterations to the technical data, dimensions, weights, designs and products available without notice. The illustrations cannot be considered binding.