miniCON plug connector



8595/1-PB1-S-P10-00E Art. No. 298968



- · 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

European Union (ATEX)
IECEx
1, 2, 21, 22
IECEx EPS 20.0035X
IECEx EPS 20.0035X
Ex db eb IIC T6 / T5 Gb
Ex ia IIC T6 Ga
IECEx EPS 20.0035X
Ex tb IIIC T80 °C / T95 °C Db
Ex ia IIIC T80 °C Da
EPS 20 ATEX 1075 X
EPS 20 ATEX 1075 X
EPS 20 ATEX 1075 X
ATEX (EPS), IECEx (EPS)
ATEX (EUK)

miniCON plug connector



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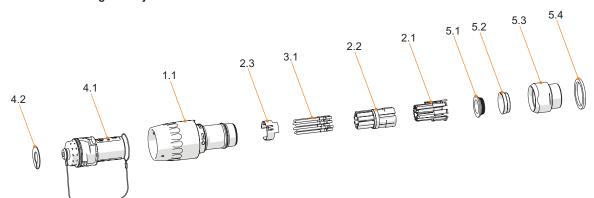
Rated operational voltage AC 500 V Rated operational voltage DC max. 110 V Voltage tolerance +10% Rated insulation voltage 690 V Rated operational current for DC 16 A Rated operational current for DC 2 16 A No. of poles 7 P+ PE / 8 P No. of poles 7 P+ PE / 8 P AC frequency range 50 – 60 Hz Device Specific Data 55 A GL Back-up fuse with thermal protection 16 A GL Ambient temperature -60 °C +75 °C Annient temperature -76 °F +167 °F Mechanical Data Ex a device plug Version Ex a device plug Degree of protection (IP) (IEC 60079) IP64 Base part Plug Enclosure material Nickel-plated brass Contact type Pin contact Connection cross-section 2 0.34 – 0.5 mm² Connection cross-section 2 min. 0.34 mm² Connection cross-section 2 min. 0.5 mm² Connection cross-section 2 min. 0.5 mm² Connection thread </th <th>Electrical Data</th> <th></th>	Electrical Data	
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Ambient temperature -76 °F +167 °F Mechanical Data Version Ex e device plug Degree of protection (IP) (IEC 60529) IP66 IP67 IP degree of protection (IEC 60079) IP64 Base part Plug Enclosure material Nickel-plated brass Contact type Pin contact Connection cross-section 0.75 - 1 mm² Connection cross-section 2 0.34 - 0.5 mm² Connection cross-section AWG 18 AWG Connection cross-section 2 min. 0.34 mm² Connection cross-section 2 max. 0.5 mm² Connection cross-section 2 max. 0.5 mm² Connection cross-section 2 AWG min. 22 AWG Connection thread M32 x 1.5 Impact strength (IEC 60079) 7 J Coding 1-3, arbitrary Seal Silicone Weight 567 g Weight (Installation) 1.25 lb Mounting / Installation crimp Connection type 2 solder Components		
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Degree of protection (IP) (IEC 60529)	Version	Ex e device plug
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Connection cross-section 0.75 – 1 mm² Connection cross-section 2 0.34 – 0.5 mm² Connection cross-section AWG 18 AWG Connection cross-section AWG 22 AWG – 20 AWG Connection cross-section 2 min. 0.34 mm² Connection cross-section 2 max. 0.5 mm² Connection cross-section 2 AWG min. 22 AWG Connection cross-section 2 AWG min. 22 AWG Connection cross-section 2 AWG max. 20 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 crimp Connection type 2 solder Components	Enclosure material	Nickel-plated brass
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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 crimp Connection type 2 solder Components	Connection cross-section 2 AWG min.	22 AWG
Impact strength (IEC 60079) 7 J Coding 1-3, arbitrary Seal Silicone Weight 567 g Weight 1.25 lb Mounting / Installation Connection type crimp Connection type 2 solder Components	Connection cross-section 2 AWG max.	20 AWG
Coding 1-3, arbitrary Seal Silicone Weight 567 g Weight 1.25 lb Mounting / Installation crimp 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



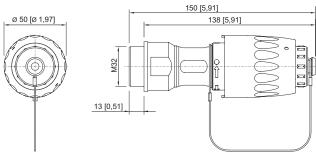
8595/1-PB1-S-P10-00E Art. No. 298968

Technical Drawings – Subject to Alterations



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

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



8595/1 Ex e device plug

Accessories

Coupling		Art. No.
EE AFF	Enclosure material: Nickel-plated brass Contact type: Socket contact	298978
	Connection cross-section: 0.75 to 1 mm²	
	Number of poles: 7 P + PE/8 P	
	Connection type: Crimping	
An .	Enclosure material: Nickel-plated brass	298979
The same	Contact type: Socket contact	
	Connection cross-section: 0.75 to 1 mm²	
	Number of poles: 7 P + PE/8 P	
	Connection type: Crimping	
EMC/shielding		Art. No.
00	To create an EMC-compliant connection of braided, shielded or reinforced conductors.	307512

miniCON plug connector



8595/1-PB1-S-P10-00E Art. No. 298968

rimping tool		Art. No.
	For all versions with crimp connection of 0.14 to 6 mm ²	295689
ontact 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
laptor		Art. No.
2	KIT 8595 nickel-plated brass adaptor, M20 x 1.5, for installation in Ex e enclosure	304566
000	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
n contact		Art. No.
	KIT 8595 pin contacts (0.75 to 1 mm²), 8 pieces	286156
ode disks		Art. No.
000	KIT coding plate 8595, four colours, without labelling Customer-specific labelling available on request	289939
educer		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
pare Parts		
am nut, nickel-pla	ated brass	Art. No
	Material: Nickel-plated brass One piece Thread size: M32	110869

Contact holder for pin contact

KIT 8595 pin contact insert + PE

Art. No. 286148

miniCON plug connector



8595/1-PB1-S-P10-00E Art. No. 298968

Protective cap		Art. No.
0	KIT 8595 plug protective cap (pin/socket) Incl. KIT 8595 coding plates, four colours, without labelling	286161

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.