Installation equipment
miniCON plug connector

8595/1-PB1-S-P15-001 Art. No. 298969

- 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 **8595B**

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	II 2 G Ex db eb IIC T6 / T5 Gb
ATEX gas explosion protection 2	II 1 G Ex ia IIC T6 Ga
ATEX dust certificate	EPS 20 ATEX 1075 X
ATEX dust explosion protection	II 2 D Ex tb IIIC T80 °C / T95 °C Db
ATEX dust explosion protection 2	II 1 D Ex ia IIIC T80 °C Da
Certificates	ATEX (EPS), IECEx (EPS)
Declaration of conformity	ATEX (EUK)

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Electrical Data	
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 AC	16 A
Rated operational current for DC	8 A
Rated operational current for DC 2	16 A
No. of poles	7
No. of poles	7 P + PE / 8 P
No. of poles note	Eight contacts are included in the delivery as standard. One to eight contacts can be used.
AC frequency range	50 – 60 Hz
Device Specific Data	
Back-up fuse with thermal protection	25 A GL
Back-up fuse without thermal protection	16 A GL
Ambient Conditions	
Ambient temperature	-60 °C ... 75 °C
Ambient temperature	-76 °F ... +167 °F
Mechanical Data	
Version	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	1.5 mm²
Connection cross-section 2	0.75 – 1 mm²
Connection cross-section AWG	16 AWG
Connection cross-section AWG	18 AWG
Connection cross-section 2 min.	0.75 mm²
Connection cross-section 2 max.	1 mm²
Connection cross-section 2 AWG min.	18 AWG
Connection cross-section 2 AWG max.	18 AWG
Connection thread	M20 x 1.5
Impact strength (IEC 60079)	7 J
Coding	1-3, arbitrary
Seal	Silicone
Weight	491 g
Weight	1.08 lb
Mounting / Installation	
Connection type	crimp
Connection type 2	solder
Components	
Protective cap available	Yes

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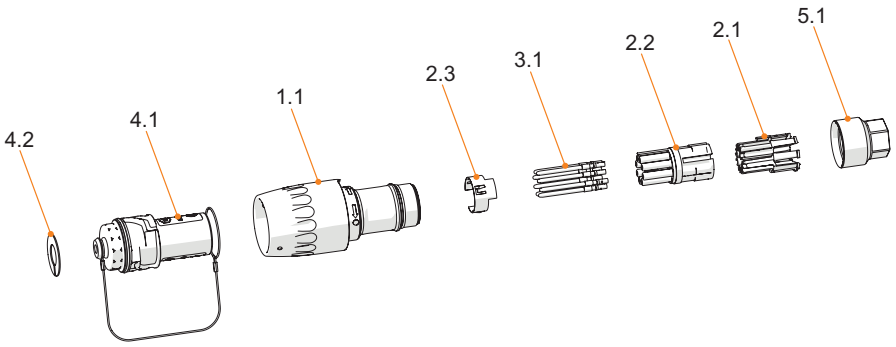
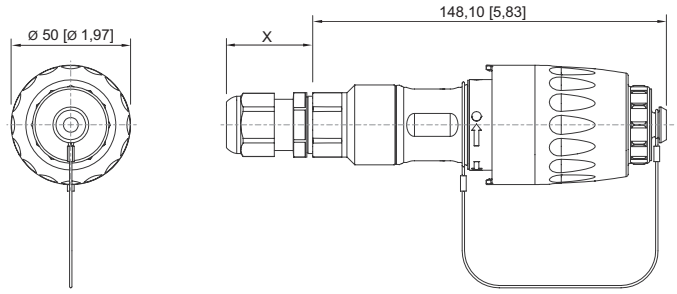
Technical Drawings – Subject to Alterations



4.2	Code disk
4.1	Protective cap
1.1	Plug basic part
2.3	PE contact (only for metal variant)
3.1	Contacts
2.2	Insulator
2.1	Contact holder
5.1	Adapter for cable gland

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



8595/1 plug
X = depending on the cable gland used

Accessories

Coupling		Art. No.
	Enclosure material: Nickel-plated brass Contact type: Socket contact Connection cross-section: 1.5 mm² Number of poles: 7 P + PE/8 P Connection type: Crimping	298981
	Enclosure material: Plastic Contact type: Socket contact Connection cross-section: 1.5 mm² Number of poles: 7 P + PE/8 P Connection type: Crimping	286560

Ex e flange socket		Art. No.
	Enclosure material: Nickel-plated brass Contact type: Socket contact Connection cross-section: 1.5 mm² Number of poles: 7 P + PE/8 P Connection type: Crimping	298983

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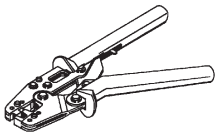
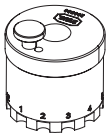
Crimping tool		Art. No.
	For all versions with crimp connection of 0.14 to 6 mm²	295689

Contact mounts/positioners 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

2-ear clamps		Art. No.
	KIT 8595 2-ear clamps, small Strain relief depending on the cable gland used Cable outer diameter 5 to 13 mm	286168

Adapters		Art. No.
	8595 nickel-plated brass adapter for cable gland, M16 x 1.5	314522

Adaptor		Art. No.
	KIT 8595 nickel-plated brass adaptor for cable gland, M20 x 1.5	296752

Pin contact		Art. No.
	KIT 8595 pin contacts (1.5 mm²), 8 pieces	286157

Code disks		Art. No.
	KIT coding plate 8595, four colours, without labelling Customer-specific labelling available on request	289939

Metal cable gland		Art. No.
	CMP type 20C2K, Ex e Nickel-plated brass, M20 x 1.5, for armoured cables, thread length 10 mm Cable outer diameter 12.5 to 20.9 mm	309134
	CMP type 20s/16C2K, Ex e Nickel-plated brass, M20 x 1.5, for armoured cables, thread length 10 mm Cable outer diameter 9.5 to 15.9 mm	309133
	CMP type 20sC2K, Ex e Nickel-plated brass, M20 x 1.5, for armoured cables, thread length 10 mm Cable outer diameter 9.5 to 15.9 mm	313014

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	CMP type 20A2e100, Ex e Nickel-plated brass, M20 x 1.5, for unarmoured cables Cable outer diameter 7 to 13.5 mm	309137
	CMP type 20s/16A2e100, Ex e Nickel-plated brass, M20 x 1.5, for unarmoured cables Cable outer diameter 3.2 to 8 mm	309136

Spare Parts

Jam nut, nickel-plated brass		**Art. No.**
	Material: Nickel-plated brass One piece Thread size: M32	110869

Contact holder for pin contact		**Art. No.**
	KIT 8595 pin contact insert + PE	286148

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