### miniCON plug connector



#### 8595/1-PP1-S-P25-012 Art. No. 286555



- · 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	
Scope of validity	European Union (ATEX)
o o po o o o o o o o o o o o o o o o o	IECEx
Application range (zones)	1
	2
	21
	22
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 explosion protection	
ATEX gas explosion protection 2	⑤ II 1 G Ex ia IIC T6 Ga
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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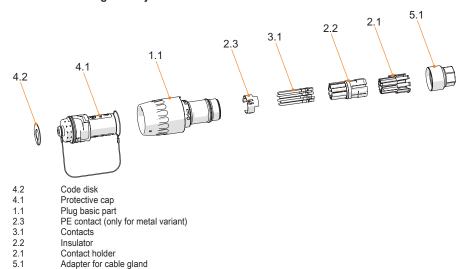
Rated operational voltage DC  Voltage tolerance  Rated insulation voltage  Rated operational current for AC  Rated operational current for DC  Rated operational current for DC 2  No. of poles  No. of poles  AC frequency range  Device Specific Data  Back-up fuse without thermal protection  Rated operational current for DC 2  16  17  18  18  19  19  10  10  10  10  10  10  10  10	max. 110 V  +10%  690 V  16 A  3 A  16 A  7 P + PE / 8 P  Eight contacts are included in the delivery as standard. One to eight contacts can be used.  60 – 60 Hz
Voltage tolerance + Rated insulation voltage 69 Rated operational current for AC 10 Rated operational current for DC 8 Rated operational current for DC 2 10 No. of poles 7 No. of poles note E AC frequency range 50 Device Specific Data Back-up fuse with thermal protection 29 Back-up fuse without thermal protection 10	F10% 690 V 16 A 3 A 16 A 7 P + PE / 8 P Eight contacts are included in the delivery as standard. One to eight contacts can be used. 60 – 60 Hz
Rated insulation voltage  Rated operational current for AC  Rated operational current for DC  Rated operational current for DC 2  No. of poles  No. of poles note  AC frequency range  Device Specific Data  Back-up fuse with out thermal protection  16	690 V 16 A 3 A 16 A 7 P + PE / 8 P Eight contacts are included in the delivery as standard. One to eight contacts can be used. 50 – 60 Hz
Rated operational current for AC Rated operational current for DC Rated operational current for DC 2 No. of poles No. of poles 7 No. of poles note AC frequency range  Device Specific Data  Back-up fuse with thermal protection  Back-up fuse without thermal protection	16 A 3 A 16 A 7 P + PE / 8 P Eight contacts are included in the delivery as standard. One to eight contacts can be used. 50 – 60 Hz
Rated operational current for DC 8 Rated operational current for DC 2 16 No. of poles 7 No. of poles note E AC frequency range 56 Device Specific Data Back-up fuse with thermal protection 25 Back-up fuse without thermal protection 16	3 A 16 A 7 P + PE / 8 P Eight contacts are included in the delivery as standard. One to eight contacts can be used. 50 – 60 Hz
Rated operational current for DC 2  No. of poles  7  No. of poles note  AC frequency range  Device Specific Data  Back-up fuse with thermal protection  Back-up fuse without thermal protection	16 A 7 P + PE / 8 P Eight contacts are included in the delivery as standard. One to eight contacts can be used. 50 – 60 Hz
No. of poles 7  No. of poles note E  AC frequency range 56  Device Specific Data  Back-up fuse with thermal protection 28  Back-up fuse without thermal protection 16	7 P + PE / 8 P Eight contacts are included in the delivery as standard. One to eight contacts can be used. 50 – 60 Hz
No. of poles note E AC frequency range 56  Device Specific Data  Back-up fuse with thermal protection 29  Back-up fuse without thermal protection 16	Eight contacts are included in the delivery as standard. One to eight contacts can be used.  50 – 60 Hz  25 A GL
AC frequency range 50  Device Specific Data  Back-up fuse with thermal protection 29  Back-up fuse without thermal protection 10	50 – 60 Hz 25 A GL
Device Specific Data  Back-up fuse with thermal protection 29  Back-up fuse without thermal protection 16	25 A GL
Back-up fuse with thermal protection 29  Back-up fuse without thermal protection 10	
Back-up fuse without thermal protection 16	
· · · · · · · · · · · · · · · · · · ·	16 A GL
Ambient Conditions	
Ambient temperature -6	60 °C +75 °C
Ambient temperature -7	76 °F +167 °F
Mechanical Data	
Version P	Plug
3 - 7	P66 P67
IP degree of protection (IEC 60079)	P64
Base part P	Plug
Enclosure material P	Plastic
Contact type P	Pin contact
Connection cross-section 2.	2.5 mm <sup>2</sup>
Connection cross-section 2 1.	1.5 mm²
Connection cross-section AWG A	AWG14
Connection cross-section AWG2 A	AWG16
Clamping range 13	13 17 mm
Connection thread M	M25 x 1.5
Impact strength (IEC 60079) 7	7 J
Coding 1-	1-3, arbitrary
Seal S	Silicone
Weight 17	174 g
Weight 0.	0.38 lb
Mounting / Installation	
Connection type cr	crimp
Connection type 2 so	solder
Cable gland S	
Components	Series 8161/7 made of plastic
Protective cap available Y	Series 8161/7 made of plastic

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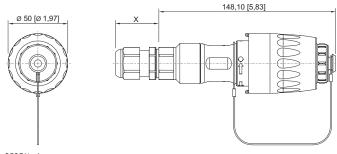


#### 8595/1-PP1-S-P25-012 Art. No. 286555

#### **Technical Drawings – Subject to Alterations**



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



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

Insulator Contact holder Adapter for cable gland

#### **Accessories**

Adaptor		Art. No.
	KIT 8595 plastic adaptor, colour: blue for cable gland, M25 x 1.5	299322
	KIT 8595 plastic adaptor, colour: green for cable gland, M25 x 1.5	299300
	KIT 8595 plastic adaptor, colour: red for cable gland, M25 x 1.5	299321
Coupling		Art. No.
	Enclosure material: Nickel-plated brass Contact type: Socket contact Connection cross-section: 2.5 mm² Number of poles: 7 P + PE/8 P Connection type: Crimping	298985

## miniCON plug connector



### 8595/1-PP1-S-P25-012 Art. No. 286555

	T	
	Enclosure material: Plastic	286563
	Contact type: Socket contact Connection cross-section: 2.5 mm²	
	Number of poles: 7 P + PE/8 P	
	Connection type: Crimping	
la	Enclosure material: Stainless steel 1.4404	286606
The Sale	Contact type: Socket contact	
	Connection cross-section: 2.5 mm²	
	Number of poles: 7 P + PE/8 P	
	Connection type: Crimping	
e flange socket		Art. No.
	Enclosure material: Nickel-plated brass	298986
	Contact type: Socket contact	
•	Connection cross-section: 2.5 mm <sup>2</sup>	
	Number of poles: 7 P + PE/8 P	
	Connection type: Crimping	
	Enclosure material: Stainless steel 1.4404	286607
	Contact type: Socket contact	
	Connection cross-section: 2.5 mm²	
	Number of poles: 7 P + PE/8 P	
	Connection type: Crimping	
imping tool		Art. No.
	For all versions with crimp connection of 0.14 to 6 mm <sup>2</sup>	295689
ontact mounts/po	sitioners for rotated industrial contacts	Art. No.
ontact mounts/po	The selection of the contact mount is based on the crimp contacts to be processed.	<b>Art. No.</b> 299586
ontact mounts/po		1
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ontact mounts/po	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	1
	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	299586
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ear clamps  daptor	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  KIT 8595 2-ear clamps, big Strain relief depending on the cable gland used Cable outer diameter 13 to 17 mm	299586  Art. No. 286169  Art. No.
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### 8595/1-PP1-S-P25-012 Art. No. 286555

Code disks		Art. No.	
000	KIT coding plate 8595, four colours, without labelling Customer-specific labelling available on request	289939	
Cable gland made of plastic		Art. No	
	8161/7-M25-1710-LT, Ex e Plastic, M25 x 1.5, cable outer diameter 10 to 17 mm Lot size 50 pieces	239205	
	8161/8-M25-1710-LT, Ex i Plastic, M25 x 1.5, cable outer diameter 10 to 17 mm Lot size 50 pieces	239213	

#### **Spare Parts**

Jam nut, nickel-plated brass (-60 to +75 °C) To mount the cable entries in the through holes		Art. No.
	Material: Nickel-plated brass One piece Thread size: M32	110869
Contact holde	er for pin contact	Art. No.
<b>&gt;</b> 0	KIT 8595 pin contact insert	286147
Protective ca <sub>l</sub>	p	Art. No.
0	KIT 8595 plug protective cap (pin/socket) Incl. KIT 8595 coding plates, four colours, without labelling	286161

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