miniCON plug connector



8595/1-CP1-S-S05-012 Art. No. 286557



- · 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 8595C



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 position and p	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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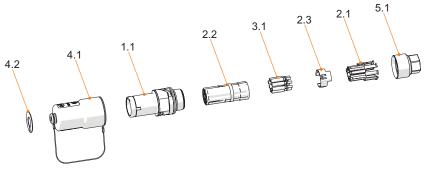
Rated operational voltage AC Rated operational voltage DC max. 110 V Voltage tolerance +10% Rated insulation voltage Refer operational current for AC Rated operational current for DC Refer operational current for DC 2 No. of poles 7 P + PE / 8 P No. of poles note Eight contacts are included in the delivery as standard. One to AC frequency range Device Specific Data Back-up fuse with thermal protection Back-up fuse without thermal protection 16 A GL Ambient Conditions Ambient temperature -60 °C +75 °C Ambient temperature -76 °F +167 °F	
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 P + PE / 8 P No. of poles 60-60 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	
Rated insulation voltage Rated operational current for AC Rated operational current for DC Rated operational current for DC Rated operational current for DC Rated operational current for DC 2 No. of poles 7 P + PE / 8 P No. of poles note Eight contacts are included in the delivery as standard. One to 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 Conditions Ambient temperature -60 °C +75 °C Ambient temperature -76 °F +167 °F	
Rated operational current for AC Rated operational current for DC Rated operational current for DC Rated operational current for DC 2 No. of poles 7 P + PE / 8 P No. of poles note Eight contacts are included in the delivery as standard. One to AC frequency range 50-60 Hz Device Specific Data Back-up fuse with thermal protection Back-up fuse without thermal protection Ambient Conditions Ambient temperature -60 °C +75 °C Ambient temperature -76 °F +167 °F	
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 thermal protection Back-up fuse without thermal protection Ambient Conditions Ambient temperature -60 °C +75 °C Ambient temperature -76 °F +167 °F	
Rated operational current for DC 2 No. of poles 7 P + PE / 8 P No. of poles note Eight contacts are included in the delivery as standard. One to 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 Conditions Ambient temperature -60 °C +75 °C Ambient temperature -76 °F +167 °F	
No. of poles No. of poles note Eight contacts are included in the delivery as standard. One to 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 Conditions Ambient temperature -60 °C +75 °C Ambient temperature -76 °F +167 °F	
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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	eight contacts can be used.
Back-up fuse with thermal protection Back-up fuse without thermal protection 16 A GL Ambient Conditions Ambient temperature -60 °C +75 °C Ambient temperature -76 °F +167 °F	
Back-up fuse without thermal protection Ambient Conditions Ambient temperature -60 °C +75 °C Ambient temperature -76 °F +167 °F	
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Ambient temperature -60 °C +75 °C Ambient temperature -76 °F +167 °F	
Ambient temperature -76 °F +167 °F	
-	
Mechanical Data	
Version Coupling	
Degree of protection (IP) (IEC 60529) IP66 IP67	
IP degree of protection (IEC 60079) IP64	
Base part Coupling	
Enclosure material Plastic	
Contact type Socket contact	
Connection cross-section 0.5 mm ²	
Connection cross-section 2 0.25 mm ²	
Connection cross-section AWG 20 AWG	
Connection cross-section AWG2 24 AWG	
Clamping range 13 17 mm	
Connection thread M25 x 1.5	
Impact strength (IEC 60079) 7 J	
Coding 1-3, arbitrary	
Seal Silicone	
Weight 130 g	
Weight 0.29 lb	
Mounting / Installation	
Connection type crimp	
Connection type 2 solder	
Cable gland Series 8161/7 made of plastic	
Components	
Protective cap available Yes	

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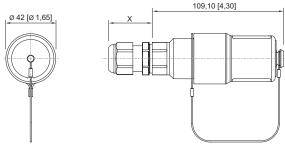
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Technical Drawings – Subject to Alterations



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

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



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

Accessories

Ex e device plug		Art. No.	
	Enclosure material: Nickel-plated brass	298965	
	Contact type: Pin contact		
	Connection cross-section: 0.5 mm²		
	Number of poles: 7 P + PE/8 P		
	Connection type: Crimping		
Ex e device pluç	1	Art. No.	
	Enclosure material: Stainless steel 1.4404	286586	
1	Contact type: Pin contact		
	Connection cross-section: 0.5 mm²		
	Number of poles: 7 P + PE/8 P		
	Connection type: Crimping		
Plug		Art. No.	
Pro	Enclosure material: Nickel-plated brass	298964	
	Contact type: Pin contact		
	Connection cross-section: 0.5 mm²		
	Number of poles: 7 P + PE/8 P		
	Connection type: Crimping		

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	Enclosure material: Plastic Contact type: Pin contact Connection cross-section: 0.5 mm² Number of poles: 7 P + PE/8 P Connection type: Crimping	286549
	Enclosure material: Stainless steel 1.4404 Contact type: Pin contact Connection cross-section: 0.5 mm² Number of poles: 7 P + PE/8 P Connection type: Crimping	286585
rimping tool		Art. No.
	For all versions with crimp connection of 0.14 to 6 mm ²	295689
Contact mounts/pos	sitioners 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
-ear clamps		Art. No.
03	KIT 8595 2-ear clamps, big Strain relief depending on the cable gland used Cable outer diameter 13 to 17 mm	286169
Adaptor		Art. No.
\$0	KIT 8595 plastic adaptor, consisting of: Ex e adaptor and cable gland of Series 8161/7 made of plastic, M25 x 1.5 Cable outer diameter 13 to 17 mm	286163
	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
Socket contact		Art. No.
	KIT 8595 socket contacts (0.25 to 0.5 mm²), 8 pieces	286151

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Code disks		Art. No	
000	KIT coding plate 8595, four colours, without labelling Customer-specific labelling available on request	289939	
Cable gland ma	de 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		Art. No.	
	Material: Nickel-plated brass One piece Thread size: M32	110869	
Contact holder	for socket contact	Art. No.	
≥ 0 €	KIT 8595 socket contact insert	286145	
Protective cap	otective cap		
0	KIT 8595 coupling protective cap (socket) Incl. KIT 8595 coding plates, four colours, without labelling	286159	

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.