miniCON plug connector



8595/1-PB1-S-P15-00E Art. No. 298971



- · 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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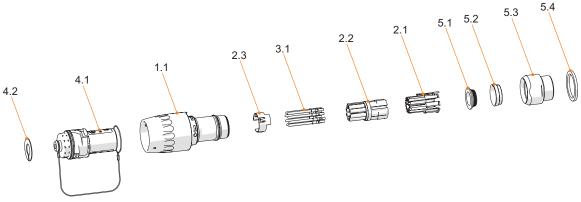
Ambient temperature -60 °C +75 °C Ambient temperature -76 °F +167 °F Mechanical Data Version Ex e device plug Degree of protection (IP) (IEC 60529) IP66 IP67 IP degree of protection (IEC 60079) IP64 Base part Plug Enclosure material Nickel-plated brass Contact type Pin contact Connection cross-section 1.5 mm² Connection cross-section 2 0.75 - 1 mm² Connection cross-section AWG 16 AWG Connection cross-section 2 min. 0.75 mm² Connection cross-section 2 min. 0.75 mm² Connection cross-section 2 AWG min. 18 AWG Connection cross-section 2 AWG min. 18 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 2 solder	Electrical Data	
Rated operational voltage DC		500 V
Voltage tolerance +10% Rated insulation voltage 680 V Rated operational current for DC 8 A Rated operational current for DC 2 16 A No. of poles 7 No. of poles 7 P + P E / 8 P AC frequency range 50 - 60 Hz Device Specific Data Back-up fuse with unternal protection Back-up fuse with unternal protection 16 A GL Ambient Conditions Ambient Conditions Ambient temperature -60 °C +75 °C Ambient temperature -76 °F +167 °F Mechanical Data Version Version Ex e device plug Degree of protection (IP) (IEC 60529) IP66 IP67 IP68 Personal Plant Nickel-plated brass Contact type Pinocitated type Connection cross-section 1.5 mm² Connection cross-section AWG 18 AWG Connection cross-section 2 max 0.75 mm² Connection cross-section 2 AWG mix 18 AWG Connection thread M32 x 1.5 Impact strength (IEC 60079)		
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 AC frequency range 50 – 60 Hz Device Specific Data Back-up fuse with out thernal protection 25 A GL Back-up fuse with out thernal protection 16 A GL Ambient Conditions Ambient temperature Ambient temperature -76 °F +167 °F Mochanical Data Version Version Ex e device plug Degree of protection (IP) (IEC 60529) IP68 IP69 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 AWG 16 AWG Connection cross-section 2 min. 0.75 - 1 mm² Connection cross-section 2 min. 18 AWG Connection cross-section 2 min. </td <td></td> <td></td>		
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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 Sack-up fuse with thermal protection Back-up fuse with thermal protection 16 A GL Ambient Conditions		
Rated operational current for DC 2	<u> </u>	
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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 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 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 min. 0,75 mm² Connection cross-section 2 AWG min. 18 AWG Connection cross-section 2 AWG min. 18 AWG Connection tross-section 19 AWG 18 AWG Connection tross-section 19 AWG 18 AWG Connection cross-section 2 AWG min. 18 AWG Connection cross-section 19 AWG 18 AWG Connection tross-section 19 AWG min. 18 AWG Connection tross-section 2 AWG min. 18 AWG Connection tross-section 19 AWG min. 18 AWG Connection tross-section 2 SAWG min. 18 AWG Connection tross-section 19 AWG min. 18 AWG Connection tross-section 19 AWG min. 18 AWG Connection tross-section 19 AWG min. 19 AWG Connection tross-section 19 AWG Connection tros		
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Back-up fuse without thermal protection 16 A GL Ambient Conditions -60 °C +75 °C Ambient temperature -60 °C +76 °F Mechanical Data -76 °F +167 °F 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 1.5 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 MWG 18 AWG Connection cross-section 2 Paw. 1 mm² Connection cross-section 2 AWG min. 18 AWG Connection thread M32 x 1.5 Impact strength (IEC 60079) 7 J Coding 1-3, arbitrary Seal Silicone Weight 567 g Weight 567 g Weight 567 g		25 A GL
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Ambient temperature -60 °C +75 °C 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 1.5 mm² Connection cross-section 2 0.75 - 1 mm² Connection cross-section AWG 16 AWG Connection cross-section 2 min. 0.75 mm² Connection cross-section 2 min. 0.75 mm² Connection cross-section 2 MWG min. 18 AWG Connection cross-section 2 AWG min. 18 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 2 solder	Ambient Conditions	
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Degree of protection (IP) (IEC 60529) IP66 IP67 P degree of protection (IEC 60079) IP64 Base part	Version	Ex e device plug
IP67 IP degree of protection (IEC 60079) IP64 IP64	Degree of protection (IP) (IEC 60529)	
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 min. 18 AWG Connection cross-section 2 AWG max. 18 AWG Connection tread 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		IP67
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 min. 18 AWG Connection cross-section 2 AWG min. 18 AWG Connection tross-section 2 AWG min. 18 AWG Connection tread 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	IP degree of protection (IEC 60079)	IP64
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 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	Base part	Plug
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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 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	Contact type	Pin contact
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Connection cross-section AWG Connection cross-section 2 min. Connection cross-section 2 max. 1 mm² Connection cross-section 2 AWG min. 18 AWG Connection cross-section 2 AWG min. 18 AWG Connection cross-section 2 AWG max. 18 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	Connection cross-section 2	0.75 – 1 mm ²
Connection cross-section 2 min. 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 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 solder	Connection cross-section AWG	16 AWG
Connection cross-section 2 max. 1 mm² Connection cross-section 2 AWG min. 18 AWG Connection tross-section 2 AWG max. 18 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	Connection cross-section AWG	18 AWG
Connection cross-section 2 AWG min. Connection cross-section 2 AWG max. 18 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 solder	Connection cross-section 2 min.	0.75 mm ²
Connection cross-section 2 AWG max. 18 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	Connection cross-section 2 max.	1 mm ²
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	Connection cross-section 2 AWG min.	18 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	Connection cross-section 2 AWG max.	18 AWG
Coding 1-3, arbitrary Seal Silicone Weight 567 g Weight 1.25 lb Mounting / Installation Connection type crimp Connection type 2 solder	Connection thread	M32 x 1.5
Seal Silicone Weight 567 g Weight 1.25 lb Mounting / Installation Connection type crimp Connection type 2 solder	Impact strength (IEC 60079)	7 J
Weight 567 g Weight 1.25 lb Mounting / Installation Connection type crimp Connection type 2 solder	Coding	1-3, arbitrary
Weight 1.25 lb Mounting / Installation Connection type crimp Connection type 2 solder	Seal	Silicone
Mounting / Installation Connection type crimp Connection type 2 solder	Weight	567 g
Connection type crimp Connection type 2 solder	Weight	1.25 lb
Connection type 2 solder	Mounting / Installation	
	Connection type	crimp
Components	Connection type 2	solder
•	Components	
Protective cap available Yes	Protective cap available	Yes

miniCON plug connector



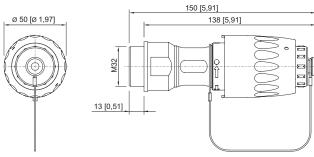
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Technical Drawings – Subject to Alterations



- Code disk
- Protective cap
- Plug basic part
- PE contact (only for metal variant)
- 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.
	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: Nickel-plated brass Contact type: Socket contact Connection cross-section: 1.5 mm² Number of poles: 7 P + PE/8 P Connection type: Crimping	298982
	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

miniCON plug connector



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	Enclosure material: Plastic	286561
	Contact type: Socket contact	280501
	Connection cross-section: 1.5 mm ²	
	Number of poles: 7 P + PE/8 P	
	Connection type: Crimping	
MC/shielding		Art. No.
00	To create an EMC-compliant connection of braided, shielded or reinforced conductors.	307512
rimping tool		Art. No.
	For all versions with crimp connection of 0.14 to 6 mm ²	295689
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.	299586
	- Exact positioning of the crimp contact during the crimping process	
	- Reliable, reproducible crimping result	
3 3 4	- Adapted for miniCON contacts	
Adaptor		Art. No.
0	KIT 8595 nickel-plated brass adaptor, M20 x 1.5,	304566
0000	for installation in Ex e enclosure	
	KIT 8595 nickel-plated brass adaptor, M25 x 1.5,	304568
	for installation in Ex e enclosure	
	KIT 8595 nickel-plated brass adaptor, M32 x 1.5,	296754
	for installation in Ex e enclosure	
in 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	289939
000	Customer-specific labelling available on request	
Reducer		Art. No.
	CMP-737DR Reducer M32 x 1.5 - M20 x 1.5	281582
	Brass	
	CMP-737DR Reducer M32 x 1.5 - M25 x 1.5	281584
	Brass	

Spare Parts

miniCON plug connector



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am nut, nickel-plated brass		Art. No.	
	Material: Nickel-plated brass One piece Thread size: M32	110869	
ontact holder	for pin contact	Art. No.	
	KIT 8595 pin contact insert + PE	286148	
rotective 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.