miniCON plug connector



8595/1-CS1-S-P15-00E Art. No. 286616



- · 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 8595F



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 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)
Electrical Data	
Rated operational voltage AC	500 V
Rated operational voltage DC	max. 110 V

miniCON plug connector



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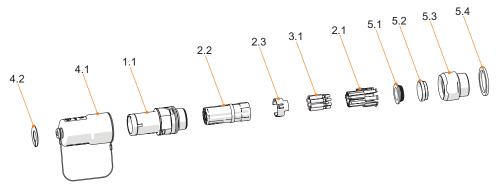
Voltage tolerance +10% Rated insulation voltage 690 V Rated operational current for AC 16 A Rated operational current for DC 8 A Rated operational current for DC 2 16 A No. of poles 7 AC frequency range 50 – 60 Hz Device Specific Data Back-up fuse with thermal protection 25 A GL Back-up fuse without thermal protection 16 A GL Ambient Conditions Ambient temperature -60 °C 75 °C Ambient temperature -76 °F +167 °F Mechanical Data	Electrical Data	
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Enclosure material Stainless steel 1.4404 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 thread M32 x 1.5 Impact strength (IEC 60079) 7 J Coding 1-3, arbitrary Seal Silicone Weight 400 g Weight 0.88 lb Mounting / Installation Connection type crimp Connection type 2 solder Components	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 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 400 g Weight 0.88 lb Mounting / Installation Connection type crimp Connection type 2 solder Components	Base part	Coupling
Connection cross-section 1.5 mm²	Enclosure material	Stainless steel 1.4404
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 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 400 g Weight 0.88 lb Mounting / Installation Connection type crimp Connection type 2 solder Components	Contact type	Pin contact
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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 Weight 400 g Weight 400 g Weight 0.88 lb Mounting / Installation Connection type Connection type 2 Components	Connection cross-section AWG	16 AWG
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 400 g Weight 0.88 lb Mounting / Installation Connection type crimp Connection type 2 solder Components	Connection cross-section AWG	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 400 g Weight 0.88 lb Mounting / Installation Connection type crimp Connection type 2 solder Components	Connection cross-section 2 min.	0.75 mm²
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 400 g Weight 400 g Weight 0.88 lb Mounting / Installation Connection type crimp Connection type 2 solder Components	Connection cross-section 2 max.	1 mm²
Connection thread M32 x 1.5 Impact strength (IEC 60079) 7 J Coding 1-3, arbitrary Seal Silicone Weight 400 g Weight 0.88 lb Mounting / Installation Connection type crimp Connection type 2 solder Components	Connection cross-section 2 AWG min.	18 AWG
Impact strength (IEC 60079) 7 J Coding 1-3, arbitrary Seal Silicone Weight 400 g Weight 0.88 lb Mounting / Installation Connection type crimp Connection type 2 solder Components	Connection cross-section 2 AWG max.	18 AWG
Coding 1-3, arbitrary Seal Silicone Weight 400 g Weight 0.88 lb Mounting / Installation Connection type crimp Connection type 2 solder Components	Connection thread	M32 x 1.5
Seal Silicone Weight 400 g Weight 0.88 lb Mounting / Installation Connection type crimp Connection type 2 solder Components	Impact strength (IEC 60079)	7 J
Weight 400 g Weight 0.88 lb Mounting / Installation Connection type crimp Connection type 2 solder Components	Coding	1-3, arbitrary
Weight 0.88 lb Mounting / Installation Connection type crimp Connection type 2 solder Components	Seal	Silicone
Mounting / Installation Connection type crimp Connection type 2 solder Components	Weight	400 g
Mounting / Installation Connection type crimp Connection type 2 solder Components	Weight	0.88 lb
Connection type 2 solder Components	Mounting / Installation	
Components	Connection type	crimp
	Connection type 2	solder
	Components	
	Protective cap fitted	Yes

miniCON plug connector



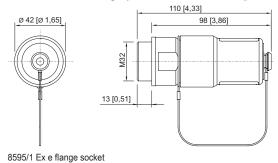
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Technical Drawings – Subject to Alterations



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

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



Accessories

EMC/shielding		Art. No.	
00	To create an EMC-compliant connection of braided, shielded or reinforced conductors.	307512	
Ex e device plug, re	everse	Art. No.	
	Enclosure material: Stainless steel 1.4404 Contact type: Socket contact Connection cross-section: 1.5 mm² Number of poles: 7 P + PE/8 P Connection type: Crimping	286580	
Crimping tool		Art. No.	
	For all versions with crimp connection of 0.14 to 6 mm ²	295689	

miniCON plug connector



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Contact mounts/po	ontact mounts/positioners for rotated industrial contacts	
	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
daptor		Art. No.
0000	KIT 8595 stainless steel adaptor, M20 x 1.5, for installation in Ex e enclosure	304565
	KIT 8595 stainless steel adaptor, M25 x 1.5, for installation in Ex e enclosure	304567
	KIT 8595 stainless steel adaptor, M32 x 1.5, for installation in Ex e enclosure	286166
in contact		Art. No.
	KIT 8595 pin contacts (1.5 mm²), 8 pieces	286157
Code disks		Art. No.
000	KIT coding plate 8595, four colours, without labelling Customer-specific labelling available on request	289939
Reducer		Art. No.
	CMP-737DR Reducer M32 x 1.5 - M20 x 1.5 Stainless steel	281583
	CMP-737DR Reducer M32 x 1.5 - M25 x 1.5 Stainless steel	281586

Spare Parts

lam nut, nickel-pl	am nut, nickel-plated brass		
	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 coupling protective cap (pin) Incl. KIT 8595 coding plates, four colours, without labelling	286160	

miniCON plug connector



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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.