Installation equipment

miniCON plug connector

8595/1-CB1-S-P15-00E Art. No. 298995



· 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 hazard-ous 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	😡 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	ᡚ 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

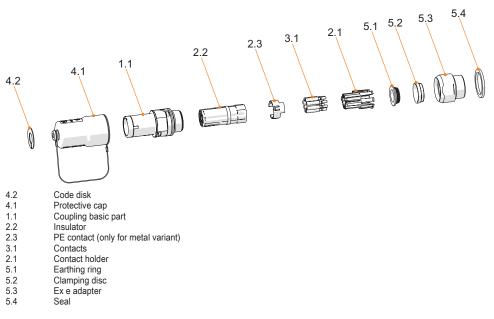
Rated operational voltage AC 500 V Rated operational voltage DC max. 110 V Voltage tolerance 10% Rated operational current for AC 16 A Rated operational current for DC 8 A Rated operational current for DC 8 A Rated operational current for DC 16 A No. of poles 7 No. of poles 7 P + PE / 8 P Frequency range 50 - 60 Hz Device Specific Data Device Specific Data Back-up fuse with thermal protection 15 A GL Back-up fuse with thermal protection 15 A GL Ambient Conditions - Ambient temperature -60 °C + 75 °C Ambient temperature -76 °E + 167 °F Mechanical Data - Version Ex e flange socket, reverse Degree of protection (IP) (IEC 60529) IP66 IP67 IP64 Base part Coupling Connection cross-section 2 0. 75 - mm² Connection cross-section 2 0. 75 - mm² Connection cross-section 2 0. 75 -	Electrical Data	
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 Frequency range 50 - 60Hz AC frequency range 50 - 60Hz Device Specific Data 25 A GL Back-up fuse with utermal protection 125 A GL Back-up fuse with utermal protection 125 A GL Back-up fuse without thermal protection 125 A GL Back-up fuse without thermal protection 126 A GL Ambient Conditions	Rated operational voltage AC	500 V
Rated insulation voltage 660 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 Frequency range 50 - 60 Hz Device Specific Data Eack-up fuse with thermal protection Back-up fuse with uthermal protection 16 A GL Ambient temperature -60 °C +75 °C Ambient temperature -76 °F +167 °F Mechanical Data Ex en fuse poschet, reverse Degree of protection (IP) (IEC 60529) IP66 IP degree of protection (IP) (IEC 60579) IP64 Base part Coupling Connection cross-section 1.5 mm² Connection cross-section 1.5 mm² Connection cross-section AWG 16 AWG Connection cross-section 2 max. 1 mm² Connection cross-section 2 Max 1 mm² Connection cross-section 2 Max 1 AWG Connection cross-section 2 AWG min. 18 AWG Connection cross-section 2 AWG min. 18 AWG	Rated operational voltage DC	max. 110 110 V
Rated operational current for DC 8 A Rated operational current for DC 2 16 A Rated operational current for DC 2 16 A No. of poles 7 No. of poles 7 No. of poles 7 State operational current for DC 2 16 A No. of poles 7 Requency range 50 - 60 Hz AC frequency range 50 - 60 Hz Device Specific Data Back-up fuse without thermal protection Back-up fuse without thermal protection 16 A GL Ambient Conditions -60 *C +75 *C Ambient temperature -60 *C +75 *C Ambient temperature -76 *F +167 *F Mechanical Data -1664 Version Ex e flange socket, reverse Degree of protection (IP) (IEC 60529) IP66 IP degree of protection (IP) (IEC 60529) IP67 IP degree of protection (IPC 60529) IP64 Base part Coupling Contact type Pin contact Connection cross-section 2 0.75 - 1 mm² Connection cross-section 2 AWG min.<	Voltage tolerance	+10%
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 Frequency range 50 – 60 Hz Device Specific Data 50 – 60 Hz Back-up fuse with thermal protection 25 A GL Back-up fuse with thermal protection 16 A GL Ambient Conditions - Ambient temperature -60 °C +75 °C Ambient temperature -60 °C +75 °C Ambient temperature -76 °F +167 °F Mechanical Data - Version Ex e flange socket, reverse Degree of protection (IFC 60529) IP66 IP67 IP64 Base part Coupling Enclosure material Nickel-plated brass Connection cross-section 2 0.75 – 1 mm² Connection cross-section 2 0.75 – 1 mm² Connection cross-section 2 Wind 16 AWG Connection cross-section 2 Min. 0.75 m² Connection cross-section 2 Min. 10 m² Connection cross-section 2 Min.	Rated insulation voltage	690 V
Rated operational current for DC 2 16 A No. of poles 7 No. of poles 7 P + PE / 8 P Frequency range 50 - 60 Hz Device Specific Data Back-up fuse with thermal protection Back-up fuse with thermal protection 25 A GL Back-up fuse without themal protection 16 A GL Ambient Conditions -60 °C +75 °C Ambient temperature -60 °C +75 °C Ambient temperature -76 °F +167 °F Mechanical Data - Version Ex e flange socket, reverse Degree of protection (IP) (IEC 60529) IP66 IP67 IP64 Base part Coupling Enclosure material Nickel-plated brass Connection cross-section 2 0.75 - 1 nm² Connection cross-section 2 0.75 - 1 nm² Connection cross-section 2 max 1 mm² Connection cross-section 2 max 1 mm² Connection cross-section 2 MuG min. 18 AWG Connection c	Rated operational current for AC	16 A
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Device Specific Data Back-up fuse with thermal protection 25 A GL Back-up fuse with uthermal protection 16 A GL Ambient Conditions -60 °C +75 °C Ambient temperature -60 °C +75 °C Ambient temperature -76 °F +167 °F Mechanical Data Version Version Ex e flange socket, reverse Degree of protection (IP) (IEC 60529) IP66 IP67 IP64 Base part Coupling Enclosure material Nickel-plated brass Connection cross-section 1.5 mm² Connection cross-section AWG 16 AWG Connection cross-section AWG 18 AWG Connection cross-section 2 max. 1 mm² Connection cross-section 2 max. 18 AWG Connection cross-section 2 AWG max. 18 AWG Connection cross-section 2 max. 1 mm² Connection cross-section 2 max. 1 8 AWG Connection cross-section 2 max. 18 AWG Connection cross-section 2 max. 1 mm² Connection cross-section 2 max. 1 Silcone We	Frequency range	50 – 60Hz
Back-up fuse with thermal protection 25 A GL Back-up fuse without thermal protection 16 A GL Ambient temperature -60 °C +75 °C Ambient temperature -76 °F +167 °F Mechanical Data Version Version Ex e flange socket, reverse Degree of protection (IP) (IEC 60529) IP66 IP67 IP64 Base part Coupling Enclosure material Nickel-plated brass Connection cross-section 1.5 mm² Connection cross-section 2 0.75 - 1 mm² Connection cross-section 2 0.75 - 1 mm² Connection cross-section 2 0.75 m² Connection cross-section 2 0.75 m² Connection cross-section 2 min. 0.75 m² Connection cross-section 2 max. 1 mm² Connection cross-section 2 max. 1 mm² Connection cross-section 2 max. 1 ms² Connection cross-section 2 AWG min. 18 AWG Connection cross-section 2 max. 1 ms² Connection thread M32 x 1.5 Impact strength (IEC 60079) 7 J Coding 1-3, arbitrary <t< td=""><td>AC frequency range</td><td>50 – 60 Hz</td></t<>	AC frequency range	50 – 60 Hz
Back-up fuse without thermal protection 16 A GL Ambient Conditions -60 °C +75 °C Ambient temperature -60 °C +75 °C Ambient temperature -76 °F +167 °F Mechanical Data Version Version Ex e flange socket, reverse Degree of protection (IP) (IEC 60529) IP66 IP degree of protection (IEC 60079) IP64 Base part Coupling Enclosure material Nickel-plated brass Connection cross-section 1.5 mm² Connection cross-section AWG 16 AWG Connection cross-section AWG 16 AWG Connection cross-section AWG 18 AWG Connection cross-section AWG 18 AWG Connection cross-section AWG 18 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 tros	Device Specific Data	
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Ambient temperature -60 °C +75 °C Ambient temperature -76 °F +167 °F Mechanical Data	Back-up fuse without thermal protection	16 A GL
Ambient temperature-76 °F +167 °FMechanical DataEx e flange socket, reverseDegree of protection (IP) (IEC 60529)IP66 IP67IP degree of protection (IEC 60079)IP64Base partCouplingEnclosure materialNickel-plated brassContact typePin contactConnection cross-section 20.75 - 1 mm²Connection cross-section 20.75 - 1 mm²Connection cross-section 20.75 mm²Connection cross-section 20.75 mm²Connection cross-section 2 min.0.75 mm²Connection cross-section 2 min.0.75 mm²Connection cross-section 2 min.0.75 mm²Connection cross-section 2 max.1 mm²Connection cross-section 2 max.18 AWGConnection treadM32 x 1.5Impact strength (IEC 60079)7 JCoding1-3, arbitrarySealSiliconeWeight0.88 lbMounting / InstallationConnection typecrimpConnection type 2solder	Ambient Conditions	·
Mechanical Data Version Ex e flange socket, reverse Degree of protection (IP) (IEC 60529) IP66 IP67 IP degree of protection (IEC 60079) IP64 Base part Coupling 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 2 Min. 0.75 mm² Connection cross-section 2 min. 0.75 mm² Connection cross-section 2 min. 0.75 mm² Connection cross-section 2 max. 1 mm² Connection cross-section 2 max. 1 mm² Connection cross-section 2 max. 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 0.88 lb Mounting / Installation Connection type Connection type 2 solder	Ambient temperature	-60 °C +75 °C
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Enclosure materialNickel-plated brassContact typePin contactConnection cross-section1.5 mm²Connection cross-section 20.75 – 1 mm²Connection cross-section AWG16 AWGConnection cross-section AWG18 AWGConnection cross-section 2 min.0.75 mm²Connection cross-section 2 max.1 mm²Connection cross-section 2 AWG min.18 AWGConnection cross-section 2 MWG min.18 AWGConnection cross-section 2 AWG min.18 AWGConnection cross-section 2 AWG max.18 AWGConnection tross-section 2 AWG max.18 AWGConnection tross-section 2 AWG max.18 AWGConnection threadM32 x 1.5Impact strength (IEC 60079)7 JCoding1-3, arbitrarySealSiliconeWeight0.88 lbMounting / InstallationcrimpConnection typecrimpConnection type 2solderComponentscrimp	IP degree of protection (IEC 60079)	IP64
Contact typePin contactConnection cross-section1.5 mm²Connection cross-section 20.75 – 1 mm²Connection cross-section AWG16 AWGConnection cross-section AWG18 AWGConnection cross-section 2 min.0.75 mm²Connection cross-section 2 max.1 mm²Connection cross-section 2 AWG min.18 AWGConnection cross-section 2 AWG min.18 AWGConnection cross-section 2 AWG max.1 mm²Connection tross-section 2 AWG max.18 AWGConnection threadM32 x 1.5Impact strength (IEC 60079)7 JCoding1-3, arbitrarySealSiliconeWeight0.88 lbMounting / InstallationConnection typeConnection type 2solderComponents	Base part	Coupling
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Connection threadM32 x 1.5Impact strength (IEC 60079)7 JCoding1-3, arbitrarySealSiliconeWeight0.88 lbMounting / InstallationConnection typecrimpConnection type 2solderComponents	Connection cross-section 2 AWG min.	18 AWG
Impact strength (IEC 60079)7 JCoding1-3, arbitrarySealSiliconeWeight0.88 lbMounting / InstallationConnection typecrimpConnection type 2solderComponents	Connection cross-section 2 AWG max.	18 AWG
Coding 1-3, arbitrary Seal Silicone Weight 0.88 lb Mounting / Installation Connection type crimp Connection type 2 solder Components	Connection thread	M32 x 1.5
Seal Silicone Weight 0.88 lb Mounting / Installation Connection type crimp Connection type 2 solder Components	Impact strength (IEC 60079)	7 J
Weight 0.88 lb Mounting / Installation Connection type crimp Connection type 2 solder Components	Coding	1-3, arbitrary
Mounting / Installation Connection type crimp Connection type 2 solder Components	Seal	Silicone
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
Protective cap available Yes	Components	·
	Protective cap available	Yes

miniCON plug connector

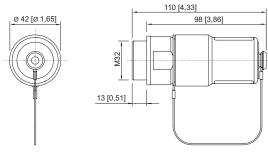


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Technical Drawings – Subject to Alterations



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



8595/1 Ex e flange socket

Accessories

EMC/shielding		Art. No.
00	To create an EMC-compliant connection of braided, shielded or reinforced conductors.	307512
Ex e device plug,	reverse	Art. No.

S	Enclosure material: Nickel-plated brass	298959
	Contact type: Socket contact	
	Connection cross-section: 1.5 mm ²	
	Number of poles: 7 P + PE/8 P	
	Connection type: Crimping	

 Crimping tool
 Art. No.

 For all versions with crimp connection of 0.14 to 6 mm²
 295689



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Contact mounts/p	ositioners 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
daptor		Art. No.
0	KIT 8595 nickel-plated brass adaptor, M20 x 1.5, for installation in Ex e enclosure	304566
0.0000	KIT 8595 nickel-plated brass adaptor, M25 x 1.5, for installation in Ex e enclosure	304568
	KIT 8595 nickel-plated brass adaptor, M32 x 1.5, for installation in Ex e enclosure	296754
Pin contact		Art. No.
	KIT 8595 pin contacts (1.5 mm²), 8 pieces	286157
Code disks		Art. No.
0 <mark>0</mark> 0	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 Brass	281582
	CMP-737DR Reducer M32 x 1.5 - M25 x 1.5 Brass	281584

Spare Parts

Jam nut, nickel-plated brass		Art. No.
	Material: Nickel-plated brass One piece Thread size: M32	110869
ontact holder	for pin contact	Art. No.
> 0	KIT 8595 pin contact insert + PE	286148

Protective cap		Art. No.
0	KIT 8595 coupling protective cap (pin) Incl. KIT 8595 coding plates, four colours, without labelling	286160



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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.