miniCON plug connector



8595/1-PB1-S-P15-002 Art. No. 298970



- · 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	
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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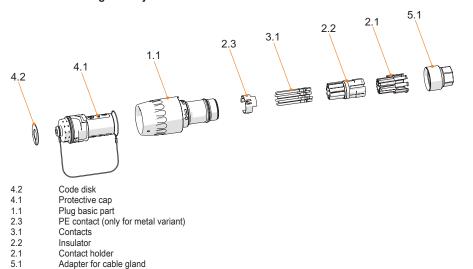
Rated operational voltage DC max. 110 V Rated operational voltage DC max. 110 V Voltage tolerance +10% Rated insulation voltage 690 V Rated operational current for DC 16 A Rated operational current for DC DC 16 A Rated operational current for DC	Electrical Data	
Rated operational voltage DC max. 110 V Voltage tolerance +10% Rated insulation voltage 690 V Rated operational current for DC 8 A Rated operational current for DC 2 16 A No. of poles 7 P + P E / 8 P No. of poles note Eight contacts are included in the delivery as standard. One to eight contacts can be used. AC frequency range 50 - 60 Hz Device Specific Data 50 - 60 Hz Back-up fuse without thermal protection 16 A GL Ambient Emperature -60 °C +75 °C Ambient Emperature -76 °F +167 °F Mechanical Data Plug Version Plug Degree of protection (IP) (IEC 60529) IP64 Base part Plug 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 min. 0.75 mm² Connection cross-section 2 min. 0.75 mm² Connection cross-section 2 min. 0.75 mm² Connection cross-section 2 m	Rated operational voltage AC	500 V
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 note Eight contacts are included in the delivery as standard. One to eight contacts can be used. AC frequency range Device Specific Data 50 - 60 Hz Back-up fuse with out thermal protection 16 A GL Ambient Conditions Ambient Conditions Ambient temperature -60 °C +75 °C Ambient temperature -76 °F +167 °F Mechanical Data IP86 Version Plug Degree of protection (IP) (IEC 60529) IP86 IP87 IP9 IP degree of protection (IEC 60079) IP64 Base part Plug Enclosure material Nickel-plated brass Contact type Pin contact Connection cross-section AWG 15 mm² Connection cross-section 2 min. 0.75 – 1 mm² Connection cross-section 2 AWG min.	Rated operational voltage DC	max. 110 V
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 note Eight contacts are included in the delivery as standard. One to eight contacts can be used. AC frequency range 50 – 60 Hz Device Specific Data Back-up fuse with thermal protection 25 A GL Back-up fuse with 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 Plug Degree of protection (IP) (IEC 60529) IP66 IP67 IP degree of protection (IEC 60079) IP84 Base part Plug Enclosure material Nickel-plated brass Connection cross-section 1.5 mm² Connection cross-section 2 0.75 – 1 mm² Connection cross-section AWG 18 AWG Connection cross-section 2 min. 0.75 mm² Connection cross-section 2 Mag min. 18 AWG	· · · · · · · · · · · · · · · · · · ·	+10%
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Ambient temperature -76 °F +167 °F Mechanical Data Version 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 18 AWG Connection cross-section 2 max. 1 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 tross-section 2 AWG min. 18 AWG Connection tread M25 x 1.5 Impact strength (IEC 60079) 7 J Coding 1-3, arbitrary Seal Silicone Weight 491 g Weight 1.08 lb Mounting / Installation Connection type crimp Connection type 2 solder		•
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Coding 1-3, arbitrary Seal Silicone Weight 491 g Weight 1.08 lb Mounting / Installation Connection type crimp Connection type 2 solder	Connection thread	M25 x 1.5
Seal Silicone Weight 491 g Weight 1.08 lb Mounting / Installation Connection type crimp Connection type 2 solder	Impact strength (IEC 60079)	7 J
Weight 491 g Weight 1.08 lb Mounting / Installation Connection type crimp Connection type 2 solder	Coding	1-3, arbitrary
Weight 1.08 lb Mounting / Installation Connection type crimp Connection type 2 solder	Seal	Silicone
Mounting / Installation Connection type crimp Connection type 2 solder	Weight	491 g
Connection type crimp Connection type 2 solder	Weight	1.08 lb
Connection type 2 solder	Mounting / Installation	
	Connection type	crimp
Components	Connection type 2	solder
Components	Components	
Protective cap available Yes	Protective cap available	Yes

miniCON plug connector

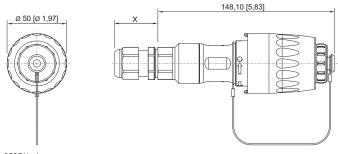


8595/1-PB1-S-P15-002 Art. No. 298970

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

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	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	286561
Ex e flange socket		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	298983

miniCON plug connector



8595/1-PB1-S-P15-002 Art. No. 298970

Crimping 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. - 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
Adapters		Art. No.
	8595 nickel-plated brass adapter for cable gland, M16 x 1.5	314522
Adaptor		Art. No.
	KIT 8595 nickel-plated brass adaptor for cable gland, M25 x 1.5	296753
Pin 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
Metal cable gland		Art. No.
	CMP type 25C2K, Ex e Nickel-plated brass, M25 x 1.5, for armoured cables, thread length 10 mm Cable outer diameter 18.2 to 26.2 mm	309135
	CMP type 25A2e100, Ex e Nickel-plated brass, M25 x 1.5, for unarmoured cables Cable outer diameter 11.5 to 19.5 mm	309138

Spare Parts

miniCON plug connector



8595/1-PB1-S-P15-002 Art. No. 298970

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.