



- 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

D

## MY R. STAHL 8595H



R. STAHL's Series 8595/1 explosion-protected miniCON plug connectors with up to eight poles keep you safely connected. The high-quality stainless steel plug connectors have impressed many customers with their reliability in a diverse range of applications. Their hot swap disconnecting capacity means that intrinsically safe signal supplies and power supplies up to 500 V/8 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 24 AWG to 14 AWG (0.25 mm<sup>2</sup> to 2.5 mm<sup>2</sup>) 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 Class I, II, Division 2 and 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. If required, nickel-plated brass versions are available.

	NEC® 500 CE Code Appendix J					
	Class I		Class II		Class III	
Division	1	2	1	2	1	2
Ex interface						
Installation in		•		•		•

	CE Code Section 18					
	NEC® 505			NEC® 506		
	Class I					
Zone	0	1	2	20	21	22
Ex interface						
Installation in		•			•	

	IECEx / ATEX					
	Zone					
Zone	0	1	2	20	21	22
Ex interface						
Installation in		•	•		•	•

Selection Table							
Version		Bulkhead plug					
Enclosure material		Stainless steel 1.4404					
Figure	Connection thread	Contact type	Connection cross-section	Connection cross-section AWG	Product Type	Art. No.	Weight lb
	M32 x 1.5	Pin contact	0.5 mm <sup>2</sup>	20 AWG	8595/1-PS2-S-P05-00E	324646	0.44 lb
		Pin contact	2.5 mm <sup>2</sup>	14 AWG	8595/1-PS2-S-P25-00E	324647	0.44 lb
Version		Bulkhead receptacle					
Enclosure material		Stainless steel 1.4404					
Figure	Connection thread	Contact type	Connection cross-section	Connection cross-section AWG	Product Type	Art. No.	Weight lb
	M32 x 1.5	Socket contact	0.5 mm <sup>2</sup>	20 AWG	8595/1-CS2-S-S05-00E	324648	0.44 lb
		Socket contact	2.5 mm <sup>2</sup>	14 AWG	8595/1-CS2-S-S25-00E	324649	0.44 lb

Selection Table							
Version Enclosure material		Connector plug Stainless steel 1.4404					
Figure	Connection thread	Contact type	Connection cross-section	Connection cross-section AWG	Product Type	Art. No.	Weight lb
	M20 x 1.5	Pin contact	0.5 mm <sup>2</sup>	20 AWG	<b>8595/1-PS2-S-P05-001</b>	324650	0.44 lb
		Pin contact	2.5 mm <sup>2</sup>	14 AWG	<b>8595/1-PS2-S-P25-001</b>	324651	0.44 lb
Version Enclosure material		Connector receptacle Stainless steel 1.4404					
Figure	Connection thread	Contact type	Connection cross-section	Connection cross-section AWG	Product Type	Art. No.	Weight lb
	M20 x 1.5	Socket contact	0.5 mm <sup>2</sup>	20 AWG	<b>8595/1-CS2-S-S05-001</b>	324652	0.44 lb
		Socket contact	2.5 mm <sup>2</sup>	14 AWG	<b>8595/1-CS2-S-S25-001</b>	324653	0.44 lb

Cable glands are not part of the standard metallic product.


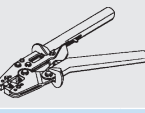
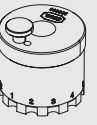




Technical Data	
<b>Explosion Protection</b>	
Area of application	European Union (ATEX) CE Code IECEX NEC®
Certificate ULus	E531347
Marking ULus	Class I, Div. 2, Groups A,B,C,D Class II, III, Div. 2, Groups F,G Class I, Zone 1, AEx db eb IIC Gb Class I, Zone 0, AEx ia IIC Ga Zone 21, AEx tb IIIC Db Zone 20, AEx ia IIIC Da
Certificate cUL	E531347
Marking cUL	Ex db eb IIC T6, T5 Gb Ex ia IIC T6 Ga Ex tb IIIC T80 °C ... T95 °C Db Ex ia IIIC T80 °C Da Class I, Div. 2, Groups A,B,C,D Class II, III, Div. 2, Groups F,G
IECEX gas explosion protection	Ex db eb IIC T6 / T5 Gb
IECEX dust explosion protection	Ex tb IIIC T80 °C / T95 °C Db
Certificates	ATEX (EPS), Canada (UL), IECEX (EPS), USA (UL)
Declaration of conformity	ATEX (EUK)
<b>Electrical Data</b>	
Rated operational voltage AC	500 V
Voltage tolerance	+10%
Rated insulation voltage	690 V
Rated operational current for AC	8 A
Switching capacity	AC-3: 550 V/8 A
No. of poles	7 P + PE / 8 P
AC frequency range	50 – 60 Hz
Notes	Data transfer rate: 1000 Mbit/s
<b>Ambient Conditions</b>	
Ambient temperature °C	-60 °C ... 75 °C
Ambient temperature °F	-76 °F ... +167 °F
<b>Mechanical Data</b>	
Enclosure type (UL50 & UL50E)	3, 4, 4X
Degree of protection (IP) (IEC 60529)	IP66 IP67
IP degree of protection (IEC 60079)	IP64

## Technical Data


Mechanical Data	
Impact strength (IEC 60079)	7 J
Seal	Silicone
Coding	1-3, arbitrary
Notes	For preassembled variants, coding 1 is pre-set
Mounting / Installation	
Connection type	crimp
Connection type 2	solder

The standard connection type is crimping. Soldering is possible in the range of 0.25 – 1.5 mm<sup>2</sup> (24 AWG - 16 AWG).





## Accessories

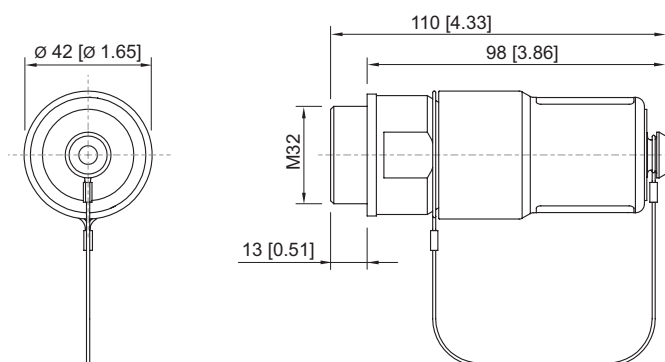
Figure	Description	Product Type	Art. No.	Weight lb
<b>EMC/shielding</b>				
	To create an EMC-compliant connection of braided, shielded or reinforced conductors.	KIT 8595 Shielding for Ex e Adaptor	307512	0.06
<b>Crimping tool</b>				
	For all versions with crimp connection of 0.14 to 6 mm <sup>2</sup>	4/8 Indent crimping tool 0,14-6 mm <sup>2</sup> 8595	295689	2.2
<b>Contact mounts/positioners for rotated industrial contacts</b>				
	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	Locator for Crimping tool (socket/pin)	299586	0.22
<b>Adapters</b>				
	8595 nickel-plated brass adaptor for cable gland, M16 x 1.5	Adaptor 8595 M16 NB	314522	1.1
	8595 stainless steel adaptor for cable gland, M16 x 1.5	Adaptor 8595 M16 SS	314521	1.1
<b>Adaptor</b>				
	KIT 8595 nickel-plated brass adaptor for cable gland, M20 x 1.5	KIT 8595 Adaptor M20 NB	296752	0.22
	KIT 8595 stainless steel adaptor for cable gland, M20 x 1.5	KIT 8595 Adaptor M20 SS	286164	0.14
	KIT 8595 nickel-plated brass adaptor for cable gland, M25 x 1.5	KIT 8595 Adaptor M25 NB	296753	0.22
	KIT 8595 stainless steel adaptor for cable gland, M25 x 1.5	KIT 8595 Adaptor M25 SS	286165	0.14
	KIT 8595 stainless steel adaptor, M20 x 1.5, for installation in Ex e enclosure	KIT 8595 Adaptor M20 Ex e SS	304565	0.31
	KIT 8595 stainless steel adaptor, M25 x 1.5, for installation in Ex e enclosure	KIT 8595 Adaptor M25 Ex e SS	304567	0.31
<b>Socket contact</b>				
	KIT 8595 socket contacts (0.25 to 0.5 mm <sup>2</sup> ), 8 pieces	KIT 8595 Socket contact (0,25-0,5mm <sup>2</sup> ) 8x	286151	0.06
	KIT 8595 socket contacts (2.5 mm <sup>2</sup> ), 8 pieces	KIT 8595 Socket contact (2,5mm <sup>2</sup> ) 8x	286154	0.06

**Accessories**

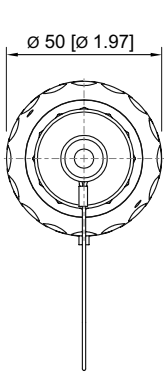
Figure	Description	Product Type	Art. No.	Weight lb
<b>Pin contact</b>				
	KIT 8595 pin contacts (0.25 to 0.5 mm <sup>2</sup> ), 8 pieces	KIT 8595 Pin contact (0,25-0,5mm <sup>2</sup> ) 8x	286155	0.06
	KIT 8595 pin contacts (2.5 mm <sup>2</sup> ), 8 pieces	KIT 8595 Pin contact (2,5mm <sup>2</sup> ) 8x	286158	0.06

**Spare Parts**

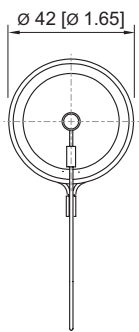
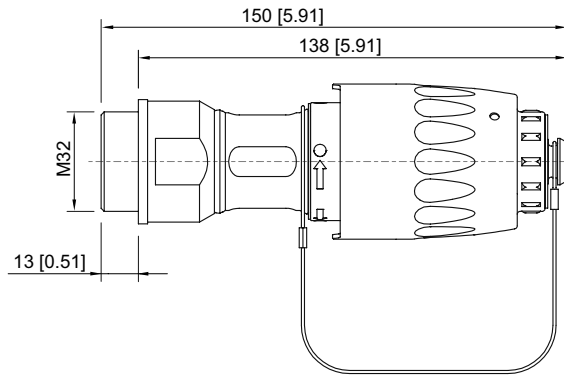
Figure	Description	Product Type	Art. No.	Weight lb
<b>Jam nut, nickel-plated brass</b>				
	Material: Nickel-plated brass Thread size: M32 One piece	Nut M32x1,5 SW36 brass nickel plated	110869	0.02
<b>Contact holder for socket contact</b>				
	KIT 8595 socket contact insert + PE	KIT 8595 Insert socket contact + PE	286146	0.07
<b>Contact holder for pin contact</b>				
	KIT 8595 pin contact insert + PE	KIT 8595 Insert pin contact + PE	286148	0.05
<b>Protective cap</b>				
	KIT 8595 coupling protective cap (socket) Incl. KIT 8595 coding plates, four colours, without labelling	KIT 8595 Protect. cap Coupling (socket)	286159	0.07

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


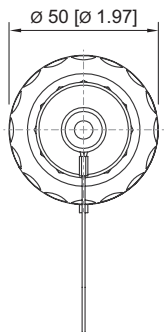
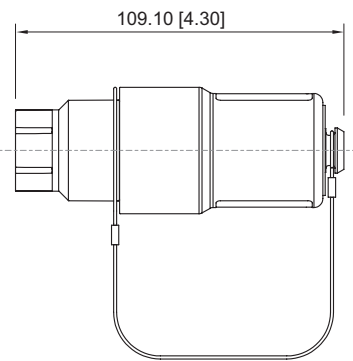
8595/1 bulkhead receptacle



8595/1 bulkhead plug



8595/1 coupling



8595/1 plug

