

# SolConeX extra-low voltage plug

## Series 8573/12



www.stahl.de



18617E00

- > Zone 1 and 21
- > IP66
- > Wide ambient temperature range (-50 to +60 °C)
- > IEC/EN 60309-1/2 compatible
- > For extra-low voltages
- > 2- and 3-pole version



E3

The SolConeX series of plug and socket devices is continuously being further developed according to the latest standards. Furthermore, our customers' requirements for their applications have been integrated into our innovative SolConeX Compact series.

Due to its extremely small dimensions, this series enables direct installation / mounting in machines and systems.

Direct insertion and locking by way of an integrated rotary switch ensures high connection reliability and reliable voltage disconnection with full AC-3 switching capability.

The high IP66 degree of protection ensures safe use and 100% functional safety in every application position.

The sealed plug pins reliably prevent the ingress of dirt or water into the connection chamber even when the plug is not plugged in.

The high quality plastics and sealing materials enable use even in extreme offshore, onshore, maritime, or pharmaceutical applications, in the demanding, freezing conditions of the Arctic Ocean or under direct sunlight in the desert.

Zone	ATEX / IECEx					
	0	1	2	20	21	22
For use in		x	x		x	x


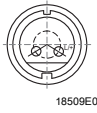

**WebCode 8573D**

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### Selection Table

Version	No. of poles	Voltage [V]	Colour code	Frequency Hz	h	Order number	Art. no.	Weight kg
 SolConeX extra-low voltage plug 18656E00	 18509E00	20 ... 25	violet	50 and 60	00	<b>8573/12-200</b>	<b>243197</b>	0.300
		20 ... 25	violet	DC	10	<b>8573/12-210</b>	<b>243203</b>	0.300
		20 ... 25	green	400-500	11	<b>8573/12-211</b>	<b>243201</b>	0.300
		20 ... 50	green	300	02	<b>8573/12-202</b>	<b>243198</b>	0.300
		20 ... 50	green	400	03	<b>8573/12-203</b>	<b>243199</b>	0.300
		20 ... 50	green	100-200	04	<b>8573/12-204</b>	<b>243200</b>	0.300
	 09193E00 3 P	40 ... 50	light grey	50 and 60	12	<b>8573/12-212</b>	<b>243202</b>	0.300
		20 ... 25	violet	50 and 60	00	<b>8573/12-300</b>	<b>243190</b>	0.300
		20 ... 25	green	400-500	11	<b>8573/12-311</b>	<b>243194</b>	0.300
		20 ... 50	green	300	02	<b>8573/12-302</b>	<b>243191</b>	0.300
		20 ... 50	green	400	03	<b>8573/12-303</b>	<b>243192</b>	0.300
		20 ... 50	green	100-200	04	<b>8573/12-304</b>	<b>243193</b>	0.300
		40 ... 50	light grey	50 and 60	12	<b>8573/12-312</b>	<b>243195</b>	0.300

### Explosion Protection

#### Global (IECEX)

Gas and dust

IECEX PTB 16.0029  
Ex eb IIC T6 Gb  
Ex tb IIIC T70 °C Db

#### Europe (ATEX)

Gas and dust

PTB 16 ATEX 1017  
⊕ II 2 G Ex eb IIC T6 Gb  
⊕ II 2 D Ex tb IIIC T70 °C Db

### Certifications and certificates

Certificates

IECEX, ATEX

### Technical Data

#### Electrical data

Rated operational voltage	max. 50 V
Frequency	0 to 60 Hz (for frequencies > 100 Hz reduction to 12 A required)
Voltage tolerance	-10 ... +6 %
Utilization category	AC-3: 50 V / 16 A DC-1: 50 V / 16 A DC-13: 50 V / 16 A
Rated insulation voltage	550 V
Back-up fuse	
without thermal protection	16 A gG
with thermal protection	35 A gG

#### Ambient conditions

Ambient temperature -50 to +60 °C  
-40 ... +60 °C, optional (silicone-free)

Temperature class	Current	Ambient temperature
T6	16 A [2.5 mm <sup>2</sup> ]	Ta = 40 °C
	12 A [2.5 mm <sup>2</sup> ]	Ta = 55 °C
	10 A [2.5 mm <sup>2</sup> ]	Ta = 60 °C

#### Mechanical data

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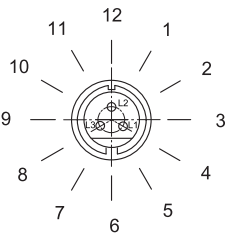


### Technical Data

Number of poles	2 P / 3 P	
Enclosure material	Polyamide, glass fibre reinforced	
Degree of protection	IP66 acc. to IEC/EN 60529	
Connection type	Screw-type terminals	
Connection cross-section	solid	1 x 0.75 mm <sup>2</sup> ... 2 x 4 mm <sup>2</sup>
	finely stranded	1 x 0.75 mm <sup>2</sup> ... 2 x 4 mm <sup>2</sup>
	finely stranded with core end sleeve	1 x 0.75 mm <sup>2</sup> ... 2 x 4 mm <sup>2</sup>
Weight	0.300 kg	
Service life	> 5000 cycles, mechanical, acc. to IEC/EN 60309-1	
Tightening torque	Terminals:	1.2 Nm
	Enclosure screws:	1.0 Nm
Cable entries	8 to 18 mm	
Coupling and plug cable diameter	Ring 1 + 2 + 3 + 4	8 to 11 mm
	Ring 2 + 3 + 4	11 to 15 mm
	Ring 3 + 4	15 to 18 mm

### Arrangement of earth contact sleeves

Example:  
Clock hour position,  
Front view of plug



18685E00

Example:  
Clock hour position



09193E00

40 - 50 V = 12 h

Marking of connections  
Front view of plug



2 P

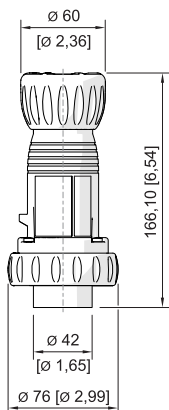


3 P

18509E00

09193E00

### Dimensional drawings (all dimensions in mm [inches]) – Subject to modifications



17094E00

### 8573/12-... SolConeX extra-low voltage plug

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.