

SolConeX extra-low voltage wall-mounting socket

Series 8573/13



www.stahl.de



18657E00

- > Rotary switch mechanism
- > Integrated locking device
- > Zone 1 and 21
- > IP66
- > Wide ambient temperature range (-50 to +60°C)
- > IEC/EN 60309-1/2 compatible
- > Full AC-3 switching capacity
- > 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 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 guarantees 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 disconnected. 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


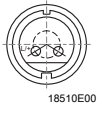

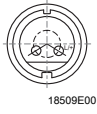

WebCode 8573B

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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 wall-mounting socket 	 18510E00	20 ... 25	violet	50 and 60	00	8573/13-200	243157	0.300
		20 ... 25	violet	DC	10	8573/13-210	243173	0.300
		20 ... 50	green	300	02	8573/13-202	243158	0.300
		20 ... 50	green	400	03	8573/13-203	243159	0.300
		20 ... 50	green	100-200	04	8573/13-204	243160	0.300
		20 ... 25	green	400-500	11	8573/13-211	243171	0.300
		40 ... 50	light grey	50 and 60	12	8573/13-212	243172	0.300
	 06199E00 3 P	20 ... 25	violet	50 and 60	00	8573/13-300	241380	0.300
		20 ... 25	green	400-500	11	8573/13-311	243154	0.300
		20 ... 50	green	300	02	8573/13-302	241384	0.300
		20 ... 50	green	400	03	8573/13-303	243152	0.300
		20 ... 50	green	100-200	04	8573/13-304	243153	0.300
		40 ... 50	light grey	50 and 60	12	8573/13-312	243155	0.300
		SolConeX extra-low voltage plug 	 18509E00	20 ... 25	violet	50 and 60	00	8573/12-200
20 ... 25	violet			DC	10	8573/12-210	243203	0.300
20 ... 25	green			400-500	11	8573/12-211	243201	0.300
20 ... 50	green			300	02	8573/12-202	243198	0.300
20 ... 50	green			400	03	8573/12-203	243199	0.300
20 ... 50	green			100-200	04	8573/12-204	243200	0.300
40 ... 50	light grey			50 and 60	12	8573/12-212	243202	0.300
 09193E00 3 P	20 ... 25		violet	50 and 60	00	8573/12-300	243190	0.300
	20 ... 25		green	400-500	11	8573/12-311	243194	0.300
	20 ... 50		green	300	02	8573/12-302	243191	0.300
	20 ... 50		green	400	03	8573/12-303	243192	0.300
	20 ... 50		green	100-200	04	8573/12-304	243193	0.300
	40 ... 50		light grey	50 and 60	12	8573/12-312	243195	0.300

Explosion Protection

Global (IECEX)

Gas and dust

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

Europe (ATEX)

Gas and dust

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

Certifications and certificates

Certificates

IECEX, ATEX

SolConeX extra-low voltage wall-mounting socket

Series 8573/13



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 to +60 °C, optional (silicone-free)
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Temperature class	Current	Ambient temperature
T6	16 A [2.5 mm ²]	Ta = 40 °C
	12 A [2.5 mm ²]	Ta = 55 °C
	10 A [2.5 mm ²]	Ta = 60 °C

Mechanical 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 terminals
Connection cross-section	solid 1 x 0.75 mm ² ... 2 x 4 mm ² finely stranded 1 x 0.75 mm ² ... 2 x 4 mm ² finely stranded with core end sleeve 1 x 0.75 mm ² ... 2 x 4 mm ²

Weight	0.300 kg
Service life	> 5,000 switching cycles (electrical and mechanical) acc. to IEC/EN 60309-1
Tightening torque	Terminals: 1.2 Nm Connection chamber cover of the wall-mounting socket: max. 1.8 Nm

Cable entries

Cable gland	1 x M25x1.5 on bottom (acc. to order, positioning on the top or at the side also possible) Optional: on the top max. 2 x M25x1.5; also available with stopping plug or metallic entries
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Thread size	A/F	Clamping range	Clamping range + RDE*	Tightening torque Connection thread at 20 °C	Tightening torque Cap nut at 20 °C
M20x1.5	24	7 to 13 mm	4 to 8 mm	2.3 Nm	1.5 Nm
M25x1.5	29	10 to 17 mm	7 to 12 mm	3 Nm	2 Nm

* Reduction sealing insert

¹⁾ max. clamping range depending on expansion adapter used (smaller if applicable)

Stopping plug

1 x M25x1.5
When used in an application range of < -40 °C, the seal is only intended for a one-time installation. Replace the seal before mounting it again.

Thread size	A/F	Tightening torque Connection thread at 20 °C
M20x1.5	24	1 Nm
M25x1.5	29	1.5 Nm
M32x1.5	36	2.5 Nm

Cable diameter

Plug cable diameter	8 - 20
	8 to 18 mm
	Ring 1 + 2 + 3 + 4 8 to 11 mm
	Ring 2 + 3 + 4 11 to 15 mm
	Ring 3 + 4 15 to 18 mm

E3

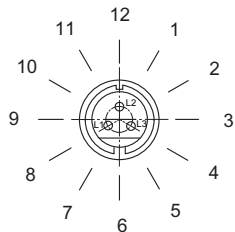
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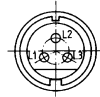
Arrangement of Earth Contact Sockets

Example:
Clock hour position,
Front view of socket



16708E00

Example:
Clock hour position



06199E00

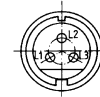
40 - 50 V = 12 h

Marking of connections
Front view of socket



18510E00

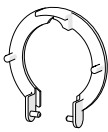
2 P



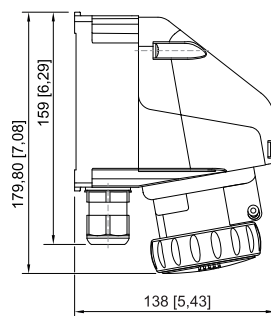
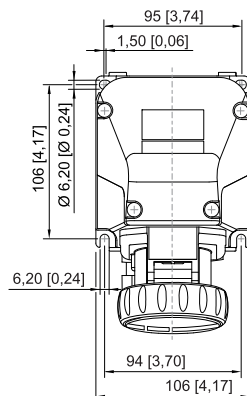
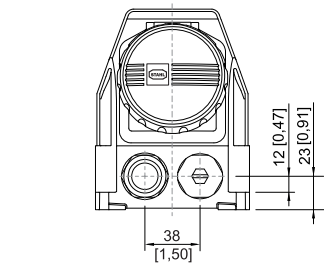
06199E00

3 P

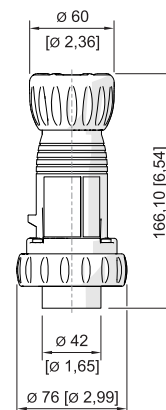
Accessories and Spare Parts

Designation	Figure	Description	Art. no.	Weight
Dust cover		Retrofittable dust protection for 2-/3-pole sockets.	257439	kg 0.100

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



17088E00



17094E00

8573/13 SolConeX extra-low voltage wall-mounting socket

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.