

8581/12-409 Art. No. 277866



- Large temperature range of use
- High mechanical impact and shock resistance
- Perfect protection against penetration of liquids and dusts
- 3D data for download on the website

MY R. STAHL 8581E



The R. STAHL Series 8581/12 plugs for Zone 1/21 are 4- or 5-pole versions up to 125 A. They can be plugged and unplugged simply and easily thanks to floating pins. The pivoting strain relief makes it easier to install the cable. Self-cleaning and corrosion-free plug pins made from high-quality materials ensure optimum electrical contact.

Technical Data

Explosion Protection

Area of application	European Union (ATEX) IECEX China (CQST)
Area of application Note	Other country markings available on request
Application range (zones)	1, 2, 21, 22
IECEX gas certificate	IECEX PTB 06.0034
IECEX gas explosion protection	Ex db eb IIC T6 ... T5 Gb
IECEX dust certificate	IECEX PTB 06.0034
IECEX dust explosion protection	Ex tb IIIC T65 °C / T85 °C Db
ATEX gas certificate	PTB 01 ATEX 1161
ATEX gas explosion protection	Ex II 2 G Ex db eb IIC T6 ... T5 Gb
ATEX dust certificate	PTB 01 ATEX 1161
ATEX dust explosion protection	Ex II 2 D Ex tb IIIC T65 °C / T85 °C Db
Certificates	ATEX (PTB), Brazil (ULB), China (CQST), IECEX (PTB), Korea (KGS), Taiwan (ITRI)
Declaration of conformity	ATEX (EGK), China (CCC)

Electrical Data

Rated operational voltage AC	200 ... 250 V AC
Rated operational current	125 A
Rated operational current	max. 125 A
Rated operational current	125 A
Mechanical service life	> 250 mating cycles
Type of voltage	Low voltage
Frequency range	50 / 60 Hz

Ambient Conditions

Ambient temperature	-45 °C to +60 °C
Ambient temperature	-49 °F to +140 °F

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Mechanical Data

Degree of protection IP (IEC 60529)	IP66
IP degree of protection (IEC 60079)	IP66
Enclosure material	Polyamide
Silicone-free	No
Finely stranded connection cross-section	1 x 2.5 mm ² ... 1 x 35 mm ²
Finely stranded connection cross-section AWG	1 x AWG 14 ... 1 x AWG 2
Width	129 mm
Width, inches	5.08 in
Height	129 mm
Height in inches	5.08 in
Length	31 cm
Length in inches	12.2 in
Impact strength (IEC 60079)	7 J
Impact strength (IEC 62262)	IK10
Colour code	Blue
Coding (clock hour position)	9
Series	SolConeX
Detailed number of poles	3 P + PE
Weight	1.27 kg
Weight	2.79 lb

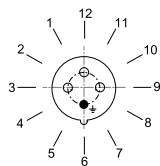
Mounting / Installation

Connection	Screw terminal
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Components

Cable diameter	30 – 45 mm
Cable diameter inch	1.18 – 1.77 in

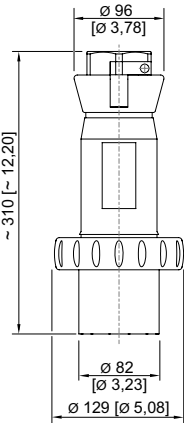
Technical Drawings – Subject to Alterations



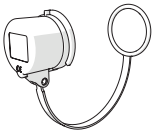
Position of clock hour position
Example: 6 h position

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



Accessories

Protective cap for Series 8581 plug		Art. No.
	4/5-pole	153730

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.