

8581/12-405 Art. No. 277867



- 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 explosion protection | ⊕ II 2 G Ex db eb IIC T6 ... T5 Gb |
| ATEX dust explosion protection | ⊕ 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

| | |
|------------------------------|---------------------|
| Type of voltage | Low voltage |
| AC rated operational voltage | 600 ... 690 V AC |
| Rated operational current | 125 A |
| Rated operational current | max. 125 A |
| Rated operational current | 125 A |
| Mechanical service life | > 250 mating cycles |
| Frequency range | 50 / 60 Hz |

Ambient Conditions

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

Mechanical Data

| | |
|-------------------------------------|------|
| Degree of protection IP (IEC 60529) | IP66 |
| IP degree of protection (IEC 60079) | IP66 |

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Mechanical Data

| | |
|--|--|
| 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 | Black |
| Coding (clock hour position) | 5 |
| Series | SolConeX |
| Detailed number of poles | 3 P + PE |
| Weight | 1.27 kg |
| Weight | 2.79 lb |

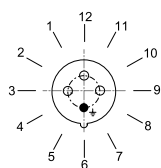
Mounting / Installation

| | |
|------------|----------------|
| Connection | Screw terminal |
|------------|----------------|

Components

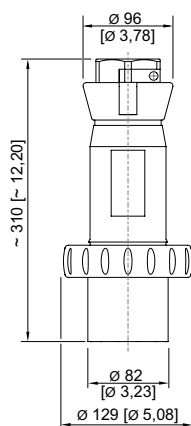
| | |
|---------------------|----------------|
| Cable diameter | 30 – 45 mm |
| Cable diameter inch | 1.18 – 1.77 in |

Technical Drawings – Subject to Alterations



Position of clock hour position
Example: 6 h position

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



Installation equipment

125 A plug

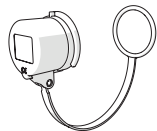


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Accessories

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.