

8581/22-405 Art. No. 153649



- Degree of protection IP66, extreme temperature range of -30 to +40 °C
- No impact of torsional forces from the cable on the seal
- Wear-free contacts even in aggressive atmosphere

WebCode 8581C



R. STAHL Series 8581/22 plugs for Class I, Div. 2, Groups A, B, C, D and Zone 1/21 are 4- or 5-pole 100 A plugs. The floating pins allow them to be inserted and removed quickly and easily. 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

| | |
|---------------------------------|---|
| Scope of validity | European Union (ATEX) Canada IECEX USA |
| Scope of validity 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 |
| FMus certificate | 0R6A2.AX |
| cFM certificate | 3050350 |
| Marking FMus | Class I, Div. 2, Groups A,B,C,D; Class II, III, Div. 1, Groups E,F,G; TYPE 3, 4, 4X Class I, Zone 1, AEx d e IIC T5 Gb |
| Marking cFM | Cl. I, Div. 2 per CEC J18-150, Class II, Div. 1, Groups G; Class I, Zone 1, Ex d e IIC T5 Gb |
| Certificates | ATEX (PTB), Brazil (ULB), Canada (FM), China (CQST), IECEX (PTB), Korea (KGS), USA (FM) |

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Electrical Data

| | |
|---------------------------|---------------------|
| Rated operational voltage | 600 V AC |
| Rated operational current | 100 A |
| Mechanical service life | > 250 mating cycles |
| Type of voltage | Low voltage |
| Frequency range | 50 / 60 Hz |

Ambient Conditions

| | |
|---------------------|--|
| Ambient temperature | -30 °C ... +45 °C (T6) -30 °C ... +60 °C (T5) |
| Ambient temperature | -22 °F ... +113 °F (T6) -22 °F ... +140 °F (T5) |

Mechanical Data

| | |
|--|--|
| IP degree of protection (IEC 60529) | IP66 |
| IP degree of protection (IEC 60079) | IP66 |
| Enclosure type (NEMA250) | 3, 4, 4X |
| Enclosure material | Polyamide |
| Silicone-free | Yes |
| 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 in inches | 5.08 in |
| Height | 129 mm |
| Height, inches | 5.08 in |
| Length | 31 mm |
| Length, 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-pole, 4 conductors |
| Weight | 1.28 kg |
| Weight | 2.82 lb |

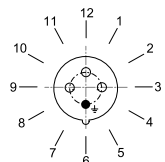
Mounting / Installation

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

Components

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

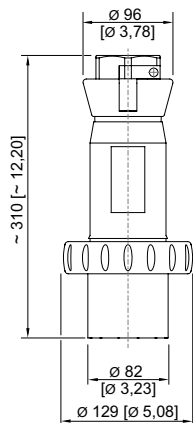
Technical Drawings – Subject to Alterations



Position of clock hour position
Example: 6 h position

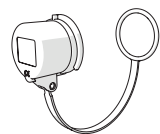
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Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



Accessories

Protective cap for plugs 125 A



4-/5-poles

Art. No.

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.