# Installation equipment

100 A plug
Plug
8581/22-505 Art. No. 153638

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

MY R. STAHL **8581C**

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

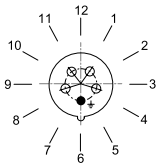
| | |
|---|---|
| **Explosion Protection** | |
| Area of application | European Union (ATEX)<br>Canada<br>IECEx<br>USA |
| Area of application Note | Other country markings available on request |
| Application range (zones) | 1, 2, 21, 22 |
| IECEx gas certificate | IECEx PTB 06.0034 |
| IECEx gas explosion 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 | Ex II 2 G Ex db eb IIC T6 ... T5 Gb |
| 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;<br>Class II, III, Div. 1, Groups E,F,G,<br>Enclosure Type 3, 4, 4X<br>Class I, Zone 1, AEx d e IIC T5 Gb; |
| Marking cFM | Class I, Zone 1, Ex d e IIC T5 Gb;<br>Cl. I, Div. 2 per CEC J18-150,<br>Class II, Div. 1, Groups G,<br>Enclosure Type 3, 4, 4X |
| Certificates | ATEX (PTB), Brazil (ULB), Canada (FM), China (CQST), IECEx (PTB), Korea (KGS), USA (FM) |
| **Electrical Data** | |
| Type of voltage | Low voltage |
| Rated operational voltage | 600Y/347 V AC |
| Rated operational current | 100 A |
| Rated operational current | 100 A |

# Installation equipment

100 A plug
Plug
8581/22-505 Art. No. 153638

| | |
|---|---|
| **Electrical Data** | |
| Mechanical service life | > 250 mating cycles |
| Frequency range | 50 / 60 Hz |
| **Ambient Conditions** | |
| Ambient temperature | -30 °C ... 45 °C (T6)<br>-30 °C ... 60 °C (T5) |
| Ambient temperature | -22 °F ... +113 °F (T6)<br>-22 °F ... +140 °F (T5) |
| **Mechanical Data** | |
| Degree of protection IP (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 mm² ... 1 x 35 mm² |
| 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 | 4-pole, 5 conductors |
| Weight | 1.38 kg |
| Weight | 3.04 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**

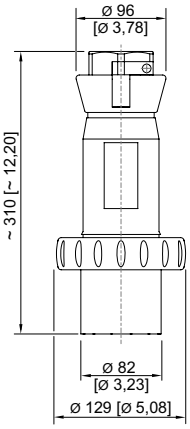



Position of clock hour position
Example: 6 h position

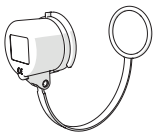
# Installation equipment

100 A plug
Plug
8581/22-505 Art. No. 153638

**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.