



- 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.

	NEC® 500 CE Code Appendix J						CE Code Section 18 NEC® 505 NEC® 506						IECEX / ATEX					
	Class I		Class II		Class III		Class I			Class I								
Division	1	2	1	2	1	2	0	1	2	20	21	22	0	1	2	20	21	22
Ex interface																		
Installation in		•	•	•	•	•		•	•					•	•		•	•

Selection Table								
Product Description								
Plug 100 A Plug								
Figure	Detailed number of poles	Coding (clock hour position)	Rated operational voltage	Color code	Frequency range	Product Type	Art. No.	Weight
	3-pole, 4 conductors	5	600 V AC	Black	50 / 60 Hz	8581/22-405	153649	1.28 kg
		7	480 V AC	Red	50 / 60 Hz	8581/22-407	153652	1.28 kg
		9	250 V AC	Blue	50 / 60 Hz	8581/22-409	153655	1.3 kg
	4-pole, 5 conductors	5	600Y/347 V AC	Black	50 / 60 Hz	8581/22-505	153638	1.38 kg
		7	480Y/277 V AC	Red	50 / 60 Hz	8581/22-507	153643	500 g
		9	208Y/120 V AC	Blue	50 / 60 Hz	8581/22-509	153647	1.38 kg

Technical Data	
Explosion Protection	
Scope of validity	European Union (ATEX) Canada IECEX USA
Scope of validity Note	Other country markings available on request
FMus certificate	0R6A2.AX
Marking FMus	Class I, Div. 2, Groups A,B,C,D; Class II, III, Div. 1, Groups E,F,G; Enclosure Type 3, 4, 4X Class I, Zone 1, AEx d e IIC T5 Gb
cFM certificate	3050350

Technical Data

Explosion Protection

Marking cFM	Class I, Zone 1, Ex d e IIC T5 Gb Cl. I, Div. 2 per CEC J18-150, Class II, Div. 1, Groups G; Enclosure Type 3, 4, 4X
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
IECEx gas explosion protection	Ex db eb IIC T6 ... T5 Gb
IECEx dust explosion protection	Ex tb IIIC T65 °C / T85 °C Db
Certificates	ATEX (PTB), Brazil (ULB), Canada (FM), China (CQST), IECEx (PTB), Korea (KGS), USA (FM)

Electrical Data

Rated operational current 100 A

Ambient Conditions

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

Mechanical Data

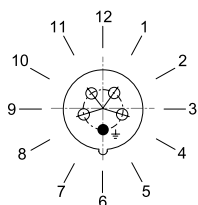
Enclosure type (NEMA250)	3, 4, 4X
Degree of protection IP (IEC 60529)	IP66
IP degree of protection (IEC 60079)	IP66
Enclosure material	Polyamide
Silicone-free	Yes
Finely stranded connection cross-section AWG	1 x AWG 14 ... 1 x AWG 2
Finely stranded connection cross-section	1 x 2.5 mm ² ... 1 x 35 mm ²
Impact strength (IEC 60079)	7 J
Impact strength (IEC 62262)	IK10

Components

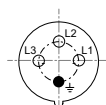
Cable diameter inch	1.18 – 1.77 in
Cable diameter	30 – 45 mm

Arrangement of earth contact sleeves

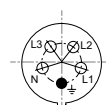
Position of clock hour position
Example: 6 h position



Arrangement of contact pins and terminal markings



3 P + PE



3 P + N + PE

Arrangement of contact pins and terminal markings in the 6 h position
(view from the front side)

Accessories

Figure	Description	Art. No.	Weight
	Protective cap for plug series 8581 4/5-pole	153730	120 g

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

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