



- 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					
	Class I		Class II		Class III	
Division	1	2	1	2	1	2
Ex interface						
Installation in		•	•	•	•	•

	CE Code Section 18					
	NEC® 505			NEC® 506		
	Class I					
Zone	0	1	2	20	21	22
Ex interface						
Installation in		•	•			

	IECEX / ATEX					
Zone	0	1	2	20	21	22
Ex interface						
Installation in		•	•		•	•

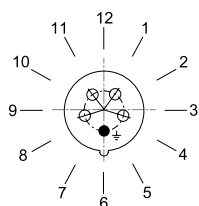
Selection Table								
Product description								
100 A plug Plug								
Figure	Detailed number of poles	Coding (clock hour position)	Rated operational voltage	Color code	Frequency range	Product Type	Art. No.	Weight lb
	3-pole, 4 conductors	5	600 V AC	Black	50 / 60 Hz	8581/22-405	153649	2.82 lb
		7	480 V AC	Red	50 / 60 Hz	8581/22-407	153652	2.82 lb
		9	250 V AC	Blue	50 / 60 Hz	8581/22-409	153655	2.87 lb
	4-pole, 5 conductors	5	600Y/347 V AC	Black	50 / 60 Hz	8581/22-505	153638	3.04 lb
		7	480Y/277 V AC	Red	50 / 60 Hz	8581/22-507	153643	1.1 lb
		9	208Y/120 V AC	Blue	50 / 60 Hz	8581/22-509	153647	3.04 lb

Technical Data	
Explosion Protection	
Area of application	European Union (ATEX) Canada IECEX USA
Area of application 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

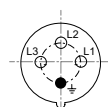
Technical Data	
Explosion Protection	
cFM certificate	3050350
Marking cFM	Class I, Zone 1, Ex d e IIC T5 Gb; Cl. I, Div. 2 per CEC J18-150, Class II, Div. 1, Groups G, Enclosure Type 3, 4, 4X
ATEX gas explosion protection	II 2 G Ex db eb IIC T6 ... T5 Gb
ATEX dust explosion protection	II 2 D Ex tb IIIC 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	-30 °C ... 45 °C (T6) -30 °C ... 60 °C (T5)
Mechanical Data	
Enclosure type (NEMA250)	3, 4, 4X
IP degree of protection (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

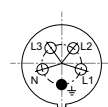
Position of clock hour position
Example: 6 h position



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	Product Type	Art. No.	Weight lb
Protective cap for plug series 8581				
	4/5-pole	Protective cap 8581 4-/5-pole	153730	0.26

