

8591/231-10-3003 Art. No. 210733



- Simple installation and maintenance in Zone 1, safe and fast disconnection under load
- 6+1-pole, rated voltage up to 400 V AC, rated current up to 16 A
- Suitable for harsh industry environments, IP66/IP68, for Zones 1 and 2

WebCode **8591B**



R. STAHL Series 8591/2 7-pole, explosion-protected miniCLIX plug connectors disconnect non-intrinsically safe circuits up to 400 V/16 A and are used as a hot swap plug connection for signal and data cables. They are available in various versions and materials: Device plugs, flange sockets, plugs/couplers made of polyamide, nickel-plated brass or stainless steel. The cable can be connected using a crimp or spring clamp terminal. Preinstalled cables for device plugs and flange sockets enable fast and safe installation in the end devices.

Technical Data

Explosion Protection

Application range (zones)	1 2
IECEX gas certificate	IECEX BKI 07.0001X
IECEX gas explosion protection	Ex db eb IIC T6 Gb
ATEX gas certificate	PTB 07 ATEX 1028 X
ATEX gas explosion protection	Ex II 2 G Ex db eb IIC T6 Gb
Certificates	ATEX (PTB), IECEX (BKI)

Electrical Data

Rated operational voltage AC	380 – 415 V
Switching capacity	IEC/EN 60947 AC-1: 400 V / 16 A DC-1: 400 V / 1 A DC-3: 60 V / 0.5 A
Frequency Hz (for AC)	50 60

Ambient Conditions

Ambient temperature	-55 °C ... +40 °C
Note	- 20 ... + 40 °C plastic version - 20 ... + 75 °C plastic version I_{th} max. 1 A - 55 ... + 40 °C metal version - 55 ... + 75 °C metal version I_{th} max. 1 A

Mechanical Data

Degree of protection (IP)	IP66
Degree of protection note	IP68 (2 m water column, 1 hour) according to IEC/EN 60529 (with protective caps closed and secured as well as properly fitted and secured components)

Installation Equipment

miniCLIX plug connector Coupling



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Mechanical Data

Enclosure material	Nickel-plated brass
Clamping range	7 ... 11 mm
Recommended colour ring coding	Blue
Coding (clock hour position)	10
Detailed number of poles	6 P + PE
Weight	0.1 kg
Weight	0.22 lb

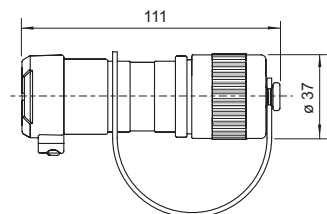
Mounting / Installation

Connection type	1.5 mm ² crimp
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Components

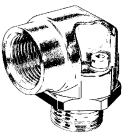


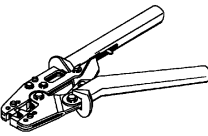
Locking device present	No
Protective cap available	No

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



Coupler (plastic, metal)

Accessories and Spare Parts

		Art. No.
		165671
	for coupler, flange socket: brass, nickel-plated	154577
Anti-twist protection		Art. No.
	for flange socket, device plug	154587
Crimping tool		Art. No.
	for all crimp connection versions up to 4 mm ²	109116

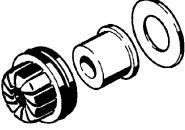
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Strain relief

		Art. No.
	Ø 7 ... 11 mm, with gasket / washer + PE connection	154585

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.