





Cable plug Conduit Connection, UL approved

Operating Instructions

Address

Germany / Deutschland / Allemagne

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Manuals and data sheets on the Internet : www.burkert.com 2 Bürkert Werke GmbH & Co. KG, 2018-2023 Certaing Instructions 2304/01_EN-EN_00810635 / Original DE

S[¥]MBOLS

 $\frac{1}{2}$ designates a procedure which you must carry out.

Wearning of serious or fatal injuries:

DANGER! In case of imminent danger.

WARNING!

In case of potential danger. 대하는 EN Version... Status: RL (relea

SYSTEM DESCRIPTION

General description

ୁନ୍ଦି Be cable plug Type 2509 with UL certification consists a polyamide housing without integrated electronics. The connector is in accordance with DIN EN 175301-803 (Freviously DIN 43650 Form A).

1.2 **Functions**

The cable plug Type 2509 is used for joining conduit connections to solenoid coils.

1.3 Inteded use

This connector is intended for use in ordinary (non-Ex) locations.

Additionally this connector is intended for use in hazardous (Ex) locations if combination of this connector with the appropriate coil is declared permitted for use in hazardous (Ex) locations in the manual of the coil.

TECHNICAL DATA 2

2.1 Conformity

The cable plug Type 2509 conforms to the EU directives according to the EU Declaration of Conformity (where applicable).

2.2 Standards

UL 2238 and C22.2 No. 182.3M-1987

The applied standards, which are used to demonstrate conformity with the EU Directives, are listed in the EU type test certificate and/or the EU Declaration of Conformity (where applicable).

2.3 **Operating conditions**

Certification UL file no. E238288

Self-Declared Operating Conditions

Operati	ng te	empe	–40 °C+90 °C	
	•			(–40 °F+194 °F)
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Degree of protection NEMA 4X (IP65)

Mechanical data 2.4

Dimensions	see data sheet (approx. 33 x 33 x 59 mm)	
Materials Housing Seal Contacts	Polyamide NBR or Silicone Copper alloy, silvered	
Cable outlet	Contact insert can be rotated by 4 x 90° after removal	
Poles	2-pole + protective conductor / 3-pole + protective conductor	
Electrical connection	3 or 4 terminals in the contact insert Wire diameter AWG18	
Thread of the conduit screw connection	1/2 " NPT	

Approved conduit connections

- · for use with flexible conduit only as permitted by NEC; CEC or other applicable local code.
- Install in accordance with the National Electrical Code (NEC) or Canadian Electrical Code (CEC), and any applicable local codes, based on the installation location.

Electrical data 2.5

Power supply	0 250V AC/DC
Max. electrical current	6A



Pin assignment 2.6

Details of the pin assignment can be found in the data sheet for the corresponding valve.

ASSEMBLY З

3.1 Safety instructions

WARNING!

Risk of injury from improper assembly.

Assembly may only be carried out by authorized technicians and with the appropriate tools.

Risk of injury from unintentional activation of the system and uncontrolled restart.

- Secure system against unintentional activation.
- Following assembly, ensure a controlled restart.

Electrical connection

DANGER!

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Risk of electric shock.

 $\sum_{i=1}^{\infty}$ Before reaching into the device, switch off the power <u>Tei</u> supply and secure to prevent reactivation.

eased Observe applicable accident prevention and safety regulations for electrical equipment.

R	
ຼັອ 7 mm max.	
og approx. 100 mm	

Figure 1: Remove cable insulation

ZШ Remove cable insulation to a length of approx. 100 mm (see <u>"Figure 1"</u>). Remove contact insert from housing (see <u>"Figure 2"</u>).

- Feed wire conductors under the strain relief through the housing.
- \rightarrow Remove the insulation from the wire conductors to a max. length of 7 mm (1/4 ") (see "Figure 1").
- \rightarrow Connect the cable plug in accordance with the pin assignment of the valve. Tighten the screws on the terminals to max. 0.5 Nm (4.4 in-lb).
- \rightarrow Re-fit the contact insert into the housing.
- \rightarrow Lay the wire conductors beside one another under the strain relief. Tighten the screws on the strain relief to max. 0.5 Nm (4.4 in-lb).

Clamping piece Seal Cover Contact insert Housing Strain relief Screw

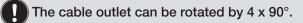
Figure 2: Exploded view of cable plug Type 2509

3.3 Installing the cable plug

WARNING!

Risk of short circuit if the screw connection is not sealed.

- Ensure that the seal is fitted correctly.
- Carefully attach the cable plug.



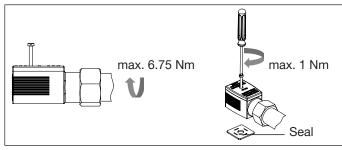


Figure 3: Installing the cable plug

- \rightarrow Fit the conduit connection and tighten the screw connection. Observe tightening torque of max. 6.75 Nm (60 in-lb).
- \rightarrow Use screw to attach the cable plug to the coil. Observe tightening torque of max. 1.0 Nm (8.8 in-lb).

 \rightarrow Fit the cover and screw onto the housing.