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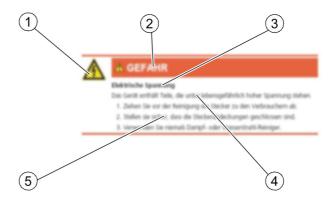
1 About this manual

This manual

- describes the assembly and disassembly of plugs and sockets of the QUICKof Bals Elektrotechnik GmbH & Co. KG
- is an integral part of the product and must be kept in safe custody during the p
- must be read carefully and understood before use and any work.

1.1 Structure of the warnings

The following picture illustrates the structure of a sample warning.



1	Hazard-specific symbol
2	Signal word
3	Type and source of the hazard
4	Possi ble consequences of failing to comply
5	Procedure for avoiding hazards



1.2 Symbols used



General warning of a hazardous area



Warning - dangerously high voltage



Notice

1.3 Signal words used

All warnings in this manual are clearly highlighted. The following signal words are used

DANGER Warns of dangers which will lead to serious injuries or to death if the instructions are r lowed.

WARNING Warns of dangers that may lead to serious injuries or to death and/or-cause considera age to property if the instructions are not followed.

CAUTION Warns of dangers that may lead to reversible injuries and/or considerable damage to

the instructions are not followed.

NOTICE Warns of dangers that may lead to operational disruptions and/or considerable damagerty. Damage to the environment, too, may occur if the instructions are not followed.



2 Intended use

The QUICK-CONNECT system is used as a screwless quick-connect system base principle in electrical plugs and sockets.

Plugs and sockets with QUICK-CONNECT are built for professional use. The instaconnection to the mains supply should be carried out only by trained and qualified

Any use going beyond the intended use is considered to be improper. The manufator damages resulting from improper use. Any such risk shall be borne solely by the

In case of unauthorised modifications or conversions, the CE conformity becomes thus, also all claims for warranty. Modifications may lead to risks for life and limb a to the plugs and sockets or loads connected.

Factory-fitted labels and markings on the plugs and sockets should not be remove blurred.

Protect against foreign bodies and impact of weather

The plugs and sockets meet either the protection degree IP44, IP54 or IP67 in acc EN 60529 (VDE 0470-1), depending on the respective design. Each of these mea

- Protection degree IP44:
 - Protected against solid bodies with a diameter beyond 1.0 mm, e.g. a wire
 - Protection against water sprayed from all sides
- Protection degree IP54:
 - Protected against dust in damaging quantity
 - Complete protection against contact
 - Protection against water sprayed from all sides
- Protection degree IP67:
 - Dust-proof
 - Complete protection against contact
 - Protection against temporary immersion

Environment

The following operating temperatures apply for the safe operation of the product:



Standard version	Military version
-25 °C +40 °C	-33 °C +49 °C

3 General safety instructions



- Safe use is ensured only if this manual is followed completely.
- Before installation, commissioning or operation, read this manual thoroughly.
- The plugs and sockets must be installed, maintained and put into operation properly
 experts in accordance with the laws, ordinances and standards.
- Keep easily combustible and explosive materials away from the plugs and sockets.
- Handle the cables with care
 - by always pulling at the plug and not the cable when unplugging,
 - by preventing the cable from getting damaged mechanically,
 - by keeping intense heat away.
- Never use faulty products or products with dirty, scratched or damage contacts.
- Keep the contacts on the product clean.
- Avoid tripping hazards.



4 Packaging, transport and storage

4.1 Packaging



Packaging materials are valuable raw materials and can be reused. The packaging therefore be brought to an appropriate recycling facility. If this is not possible, disping materials according to the locally applicable regulations.

4.2 Transport

Check the delivery for completeness and integrity. If you identify transit damage of complete, notify your dealer or supplier immediately.

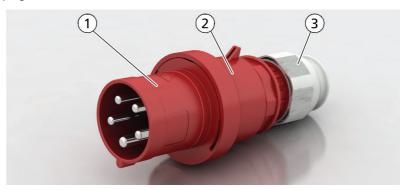
4.3 Storage

The product must be stored in clean condition and protected from dust and humidipackaging is best suited for this purpose.



5 Design

Based on an example, the following figure illustrates the main components of the QUICI plugs and sockets.



1	Front part with screwless quick-connect technique for all types of copper conduct
2	Housing
3	Cable gland with multi-grip as integrated strain relief

Conductor cross-sections

You can connect conductor cross-sections in the rategrant Qbild K-CONNECT plugs and sockets (63-A designs).

Cable diameter

Cables with a diameter in the range of 16 mm ... 36 mm can be used with QUICK-CON sockets (63-A designs) with multi-grip.

Technical specifications

The technical specifications of the plugs and sockets depend on the design. You will fine catalogue or on our website http://www.bals.com.



6 Assembly and disassembly



A DANGER

Danger to life by electrical voltage

The supply cable may carry high electrical voltage that is fatal. Pay attention to the electricity:

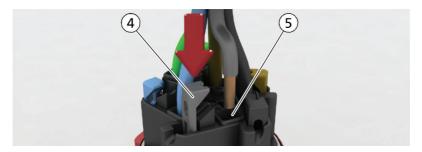
- De-energise
- 2. Secure the supply from being switched on again
- 3. Ensure the de-energised condition
- 4. Connect to earth and short circuit
- 5. Cover or cordon off adjacent live parts

6.1 Connecting a cable to a 63-A plug or socket

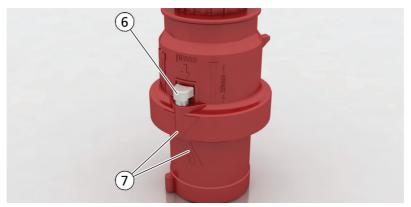
Proceed as follows:

- 1. Make sure that the cable is de-energised.
- 2. Open the rotary lock to separate the front part (1) from the housing (2).
- 3. Push the cable about 50 cm wide through the cable gland and housing.
- 4. Strip the cable to a length of 110 mm.
- Remove the insulation from the individual conductors up to a length of 29 mr ti-strand copper conductors slightly by hand. Conductor end sleeves are not be used.
- 6. The terminals are open at the time of delivery. Guide the bare individual concepning near the contact slide (5) and press the contact slide (4) down in the arrow. The contact slide get latched and fixes the individual conductor. Take only the bare individual conductor (without insulation) is clamped. Pay attent ing of the terminals and ensure that the assignment of the individual conduct nals is correct.



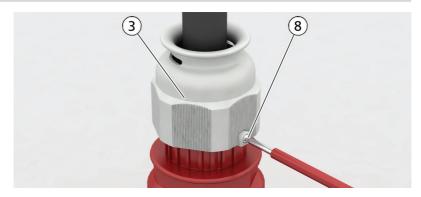


- 7. Check whether the individual conductors are seated tightly by pulling them lightly. the case, open the terminal and repeat the previous step.
- 8. Connect the housing and front part with screws until the triangular markings (7) lie another.
- 9. Fix the connection using the white latches (6) fixed on the side. The latch must be front until it gets latched audibly.



10. Next, tighten the cable gland (3). The tightening torque must lie between 7.5 Nm a in doing so. Please refer to the embossing on the cable gland for the exact value of tive design. Secure the cable gland using the screw placed on the side for this pur pending on the design).





11. Check that the cable is seated tightly in the plug or socket.

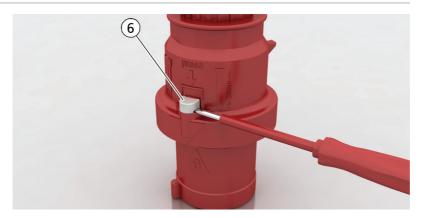
6.2 Disconnecting a cable from a 63-A plug or socket

- 1. Make sure that the cable is de-energised.
- 2. If the cable gland (3) is secured with the help of a screw (8), loosen this scre

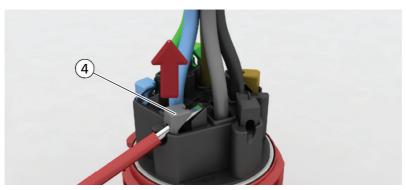


- 3. Loosen the cable gland.
- 4. Disconnect the joint between the housing (2) and the front part (1). To do this white latch (6) fixed on the side with a screwdriver.





- 5. Unscrew the housing from the front part.
- 6. Push the housing and the cable gland back on the cable until the connections in the are easily accessible.
- Open the contact slide (4) by forcing it with a screwdriver and pull the individual co from the terminals.



8. Pull the cable out of the housing and out of the cable gland.



7 Cleaning and care

It is recommended to clean the device as required. Use a dry cloth to clean the de if the device is very dirty.



⚠ DANGER

Electrical voltage

The device contains parts that carry hazardous voltage that may be fatal.

- 1.Pull out the plugs to the loads before cleaning them.
- 2.Make sure that the plug covers are closed.
- 3. Never use steam or water jet cleaners.



NOTICE

Damage to the plastic parts.

Corrosive cleaning agents may attack or destroy the plastic parts.

Use only a cloth moistened with water for cleaning.



8 Decommissioning and disposal



Send the worn-out product for recycling or for proper disposal. Always make sure to obslow the local regulations.

The product should not be disposed of in household waste. Environmental damage and al health are avoided with proper disposal.

