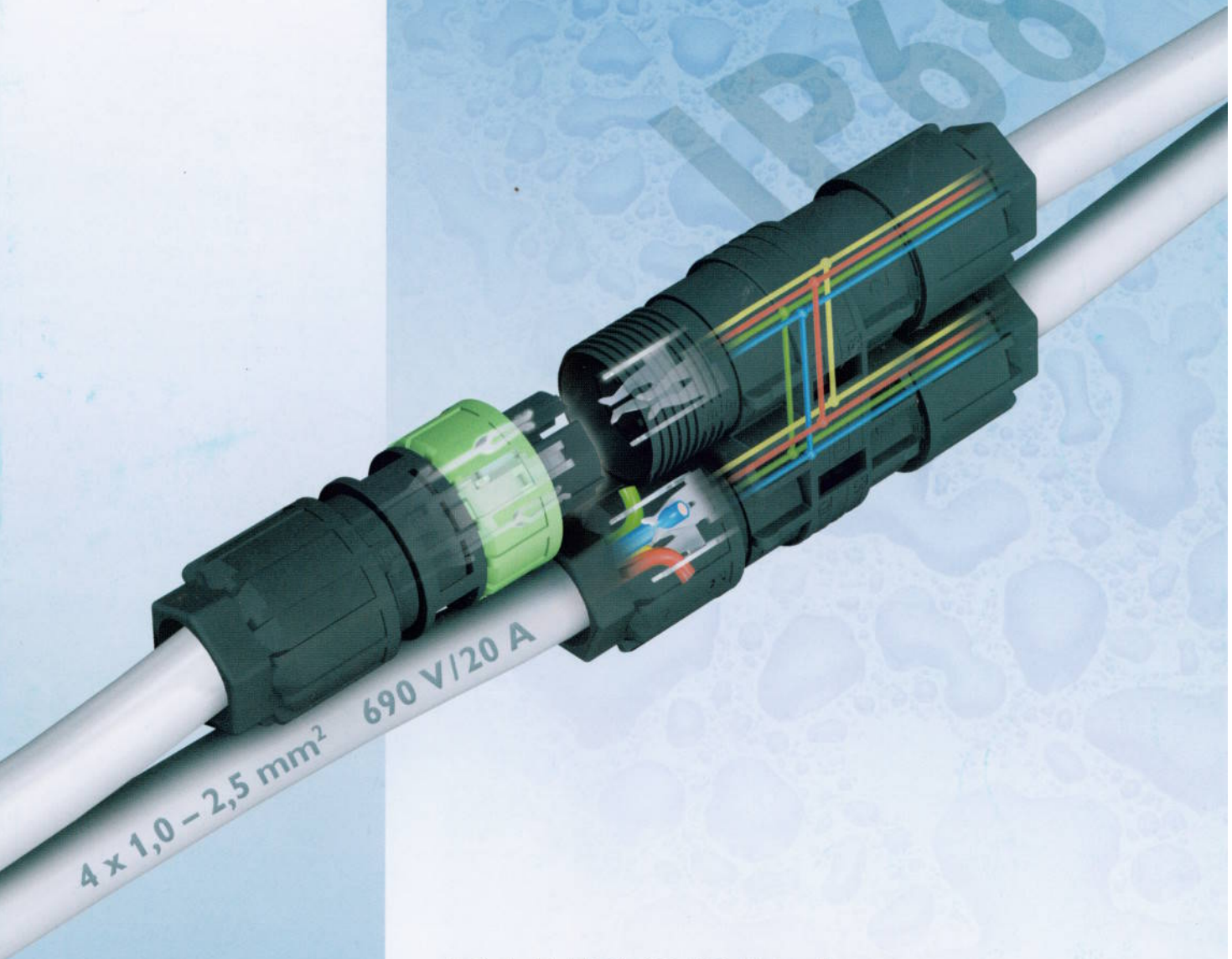


PLUSCON



# PLUSCON heavy

Power distributor with  
fast connection

# QUICKON Power Distribution IP68

## Quick, compact, rugged!

QUICKON Power Distribution is an installation program suitable for industrial applications with touch-protected IDC fast connection technology for 4 x 2.5 mm<sup>2</sup> / 690 V and 20 A from Phoenix Contact.

It includes all essential components for power distribution in machines, systems and buildings distributed across a large area. The option of permanent and pluggable QUICKON connections, in conjunction with the quick and reliable on-site installation, offer considerable saving potential in large systems.

### Technical data

#### Electrical data

Rated voltage (III/3)	690 V
Rated surge voltage	6 kV
Rated current	20 A
Surge voltage category/ Pollution degree	III/3

#### Mechanical data

No. of pos.	4
Degree of protection	IP68

#### Connector data QUICKON connection

Core insulation	PVC/PE
Structure of individual litz wire/smallest wire diameter	VDE 0295 class 2 to 5
Connection frequency	10
Conductor cross section (mm <sup>2</sup> )	1 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross section (AWG)	16... 14

#### Temperature data

Ambient temperature (operation)	-25° C... 80° C
Temperature when conductor connected	-5° C... 50° C



### QUICKON fast connection

The QUICKON fast connection is based on the insulation displacement connection technology and was specially designed for applications where round cables are to be efficiently connected.

The connection can be disconnected again, and the components can be used more than once. With this connection system, a multi-position cable can be quickly connected. The fast connection method automatically creates the contact and strain relief when tightened.

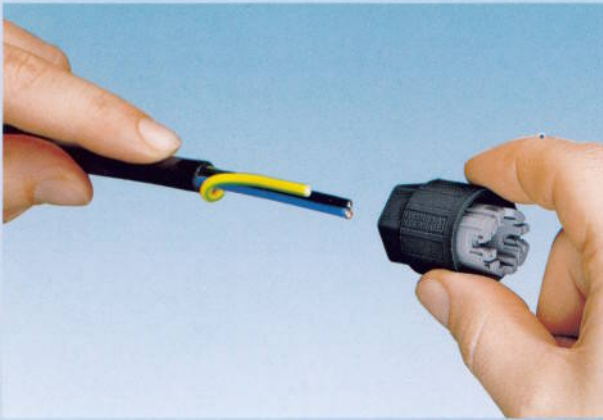
Thanks to the quick and easy handling of the QUICKON connection method, the connection time is reduced by up to 80%. Special grommets prevent the penetration of dust and water (IP65/IP68).

The main advantages are:

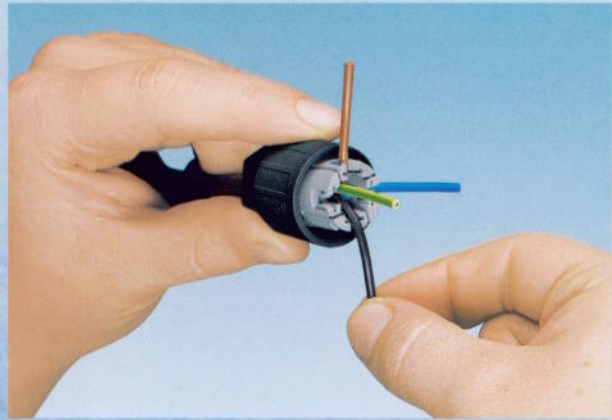
- Considerable time savings for local connections since there is no need to strip the cable wires
- Simple assembly without special tools
- High reliability thanks to proven connection contacts
- Rugged housing with up to IP68 protection

# Fast electrical installation with IP68 protection, either with permanent or pluggable connections

## Assembling the QUICKON connection



1. Strip the cable



2. Insert the wires into the QUICKON nut and snap them into the marked (1, 2, 3...) wire leads.



3. Cut the litz wire ends off flush



4. Place the union nut on the contact carrier and tighten with the necessary torque (5 Nm).

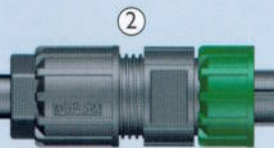
IP68 IP20



### ① H-distributor

The QUICKON H-distributor is a compact, rugged terminal box which can be quickly connected. The four QUICKON connections are connected to each other internally such that it can be used as an H-distributor with one continuous master cable and two cable branches, or as a star distributor with one infeed line and three cable outlets.

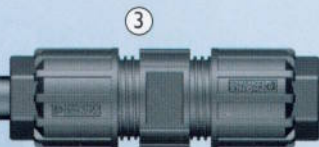
Single conductor connection



### ② Connectors

This connector, with a capacitive PE contact, is predestined for a quick device replacement when servicing or when installing pre-assembled conductors. It is polarized against incorrect plugging and is touch-proof as per DIN EN 0105. Similar to all QUICKON components, the QUICKON connector is compact, rugged and can be quickly connected. The green screw locking is an operating element which has a contrasting color.

Slip-on connection



### ③ Cable connectors

QUICKON cable connectors can be used for cable extensions or repairs. Both connections are coded against plugging in incorrectly and polarized against polarity reversal. Touch-proof protection on both sides in accordance with DIN EN 0105 means application safety in harsh environments. In combination with the QUICKON connector, you have a typical coupling connection available for a flexible use. The cable connector will be available from stock starting from the 4th quarter of 2008.

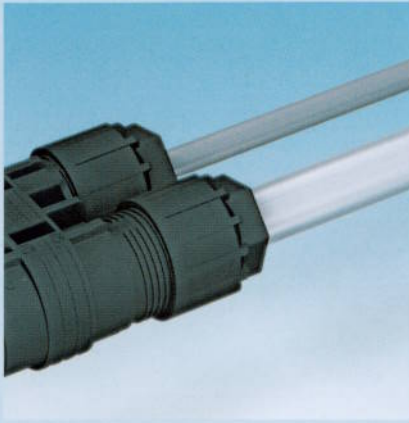


### ④ Panel feed-throughs

Panel feed-throughs are cable glands that can be connected from the outside. When they are used, devices no longer have to be opened to connect the cables. For internal wiring, we offer you pre-assembled single conductors in lengths of 0.5 m and 1 m and a connection for slip-on contacts (4.8 x 0.8 mm). We also provide other conductor variants for flexible use on request. The panel feed-through with push-in connection will be available starting from the 4th quarter of 2008.

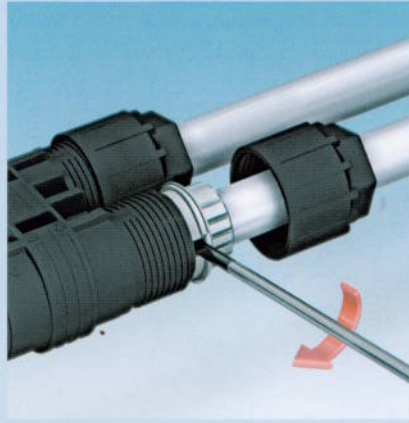
Push-in connection

## Handling and mounting



### Screw it on properly

The correct setting for the QUICKON nuts is marked on the connection with the markings I, II and III. In the case of thin conductors, the cable clamp type cage must close more for the conductor strain relief to become effective. QUICKON nuts must therefore be tightened more for thin conductors as compared to the thick ones.



### Reconnecting

The QUICKON connection can be re-wired up to 10 times for the same conductor cross-section. If re-wired, the conductor must be cut off and the connection must be completely re-established. In order to remove the conductor, the nut is unscrewed completely and the splice body is removed from the connection with a commercially available Philips screwdriver (blade width: 3-4 mm).



### Additional bridging

A conductor exit can also be used for bridging functions by simply cross-wiring a core.



### Quick testing

The QUICKON H-distributor has four conductor connections. Since only three connections are allocated, one conductor output is available for testing during commissioning or servicing.



### Simple assembly

The QPD-CLIP 2,5 BK mounting clip is available to simplify the mounting of the QUICKON H-distributor. The H-distributor is simply snapped on after the clip has been assembled and can then be removed again without using tools by pressing the positive latches together.