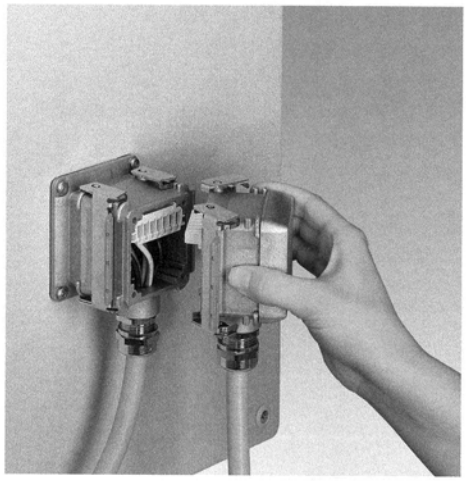
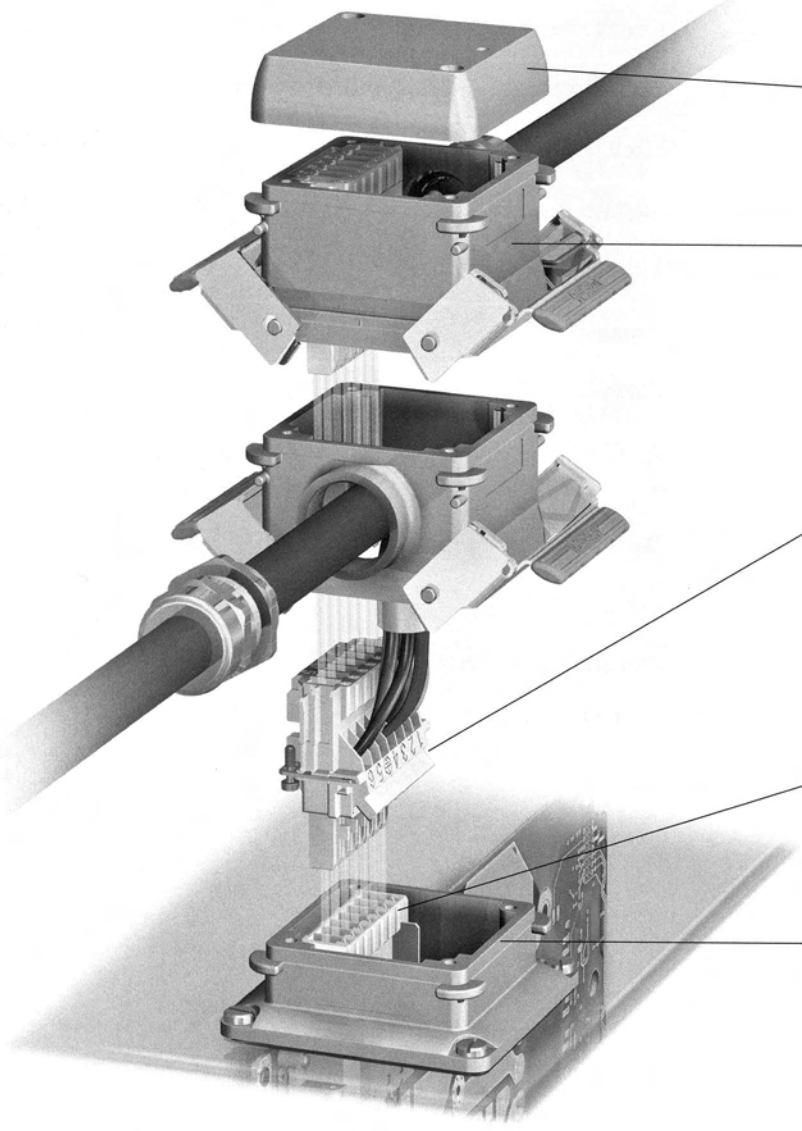
DUPLICON



DUPLICON is a seamless power distributor system for 6x4 mm^2 + PE conductors (25 A / 400/690 V), from the power rail via ST-COMBI in the control cabinet right up to the PCB or plug connection on the power load. The system has a minimum of components and is extremely flexible in its handling. The sturdy metal housings with innovative locking latches qualify DUPLICON for the harshest conditions.

The version fulfils the protection type IP67. The contact inserts have a leading PE contact and the screw connections can be assembled with standard tools. DUPLICON serves as an interface between the control cabinet and device or actuators / drives. With connection options of 24 V or AS-i bus or PROFIBUS, DUPLICON also provides a connection to the signal world, providing a wide spectrum of applications.

The pluggable design means that all the cables can be conveniently assembled in the workshop and plugged together in the plant in no time at all. All connections are touch-proof in accordance with DIN VDE 0105 and fulfill the requirements of the BGV A2 accident prevention regulations.



Covers (removable)
Testing possible when plugged in

Stackable housing
The square design enables three cable outlet directions

Contact insert
400/690 V / 25 A
6 x 4.0 mm^2 + PE
0.2 – 4.0 mm^2/AWG 24 – 12
Leading PE
Touch-proof, IP20
Screw connection

PCB contact insert
Offer choice of either screw connection or plug connection with an ST-COMBI receptacle

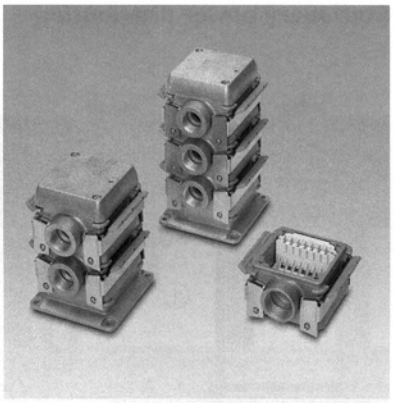
Panel mounting base
Extremely sturdy for a large number of stackable housings

The range of products

Connector sets

They simplify your first order and reduce your logistics effort. Sets for typical DUPLICON applications are available, from the stacking plug, from the panel feed-through, from the cable coupling, from the triple distributor and from the T-box.

Housings with M20 and M25 threads are available as options. Please order cable glands separately.



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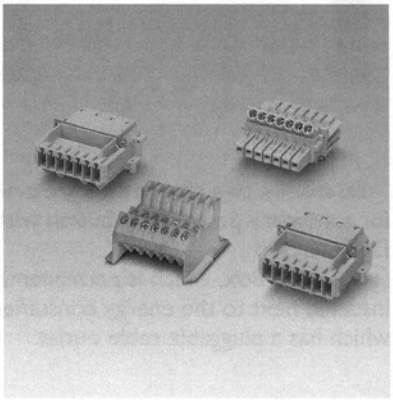
Contact inserts

The current contact insert assortment is designed for a seamless energy distribution of power and 24 V or a two-wire bus system such as As-i or Profibus. The contact inserts offer screw connections on the stackable connector, in the T-box with two connections per position and in the device directly on the printed circuit board.

The advantages of the screw connection method are maximum reliability, multi-purpose use, the lowest transmission resistances and the most compact design. However, the assortment can be expanded upon requirement with other connecting technologies or position numbers. Contact us for more information.



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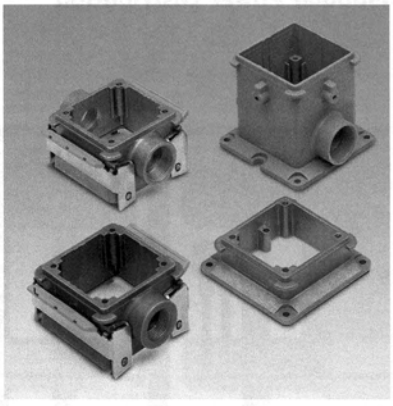
Housing

Saltwater-resistant aluminum die cast housing and locking bracket of stainless steel protect the contact inserts for protection type IP67.

The DUPLICON T-box is new in the housing group. It is intended for the stationary machine and facility installation which does not required seamless plug-in capabilities. The center mounting holes facilitate the assembly on so-called Bosch profiles. The T-box housing is designed especially for mounting a protective hinged cover.



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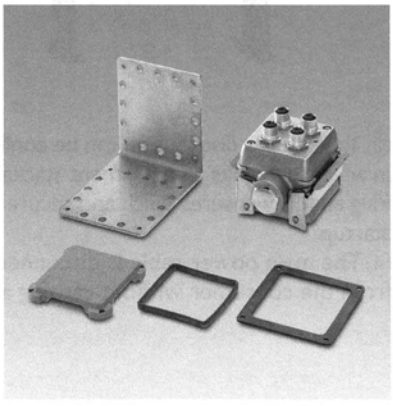
Accessories

An assembly angle with two different side lengths is available to round out the DUPLICON connector assortment. The self-tapping mounting screws with Torx heads rationalize your assembly. Various replacement seals are available for servicing. The dust cover of ABS is simply snapped open and can be coated. The M12 adapter serves the 24 V supply of small appliances in the field and is equipped with M12 SPEEDCON.



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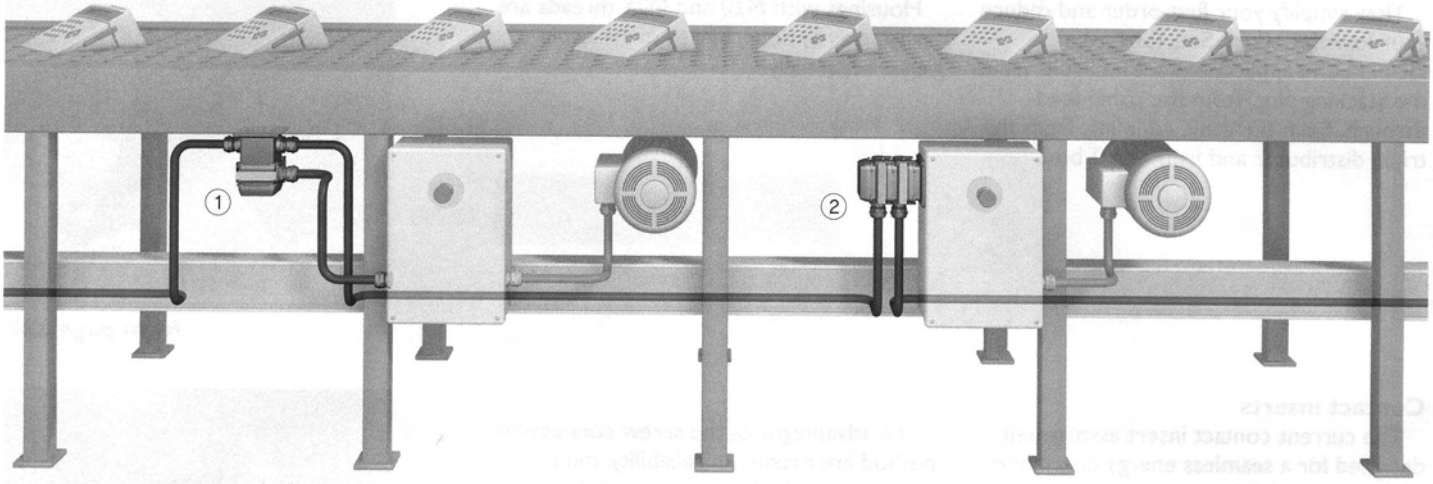
Stationary power distribution

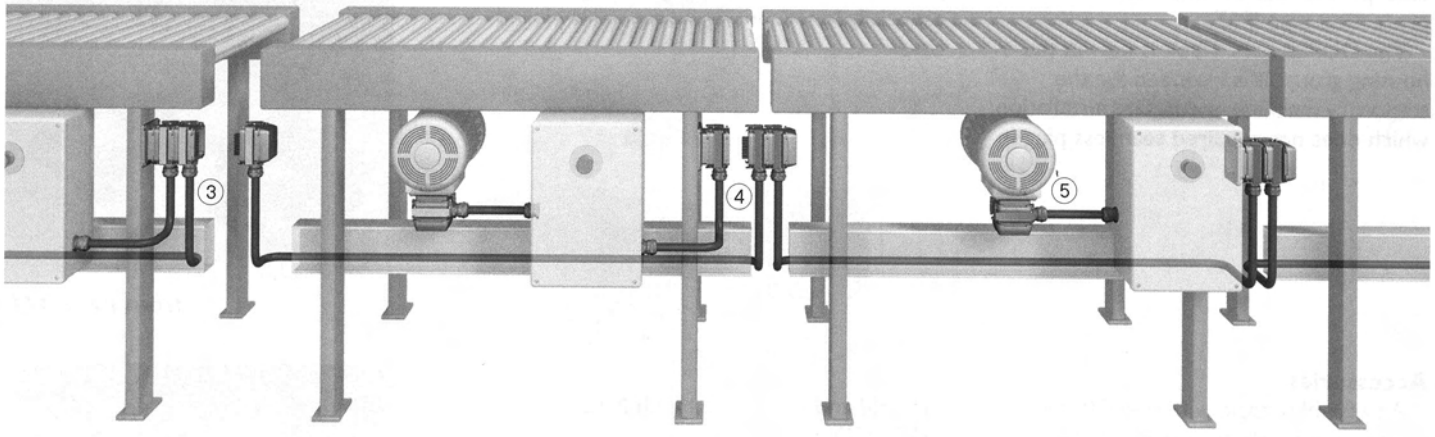


Essentially, two alternatives are available for stationary power distribution with DUPLICON.
① via the T-Box, which is permanently installed next to the energy consumer and which has a pluggable cable outlet.

② via a stackable device connection. Direct device connection is the optimum choice in every case, but it requires structural integration.

The main advantages are separate pluggability of the lines during startup and in the uninterrupted device replacement during future servicing.

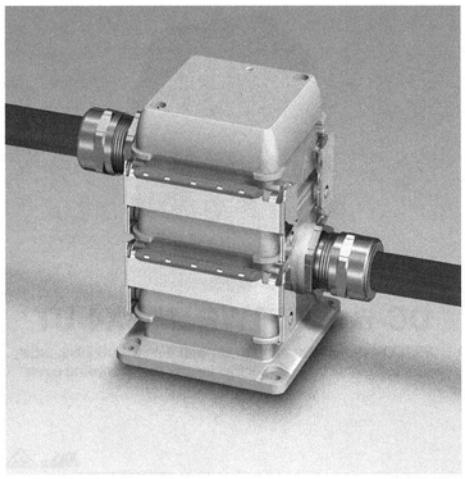
Modular Power Distribution



③ Your power distribution can be configured in advance, thanks to equipment stackability. Plug and Play ensures quick and secure startup.
④ The main power cable is disconnected from the consumer without causing any interruption, and the system continues to function.
⑤ DUPLICON is also predefined to function as a motor connector. The square design allows various cable exit directions and the vibration-resistant lock resists the harshest operating conditions.

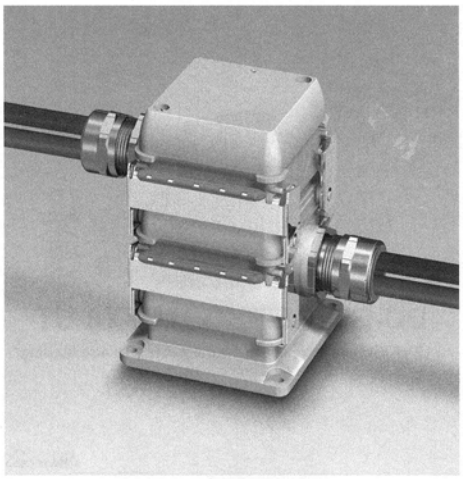
Please contact us with any special requests concerning contact inserts.

Possibilities of cable routing



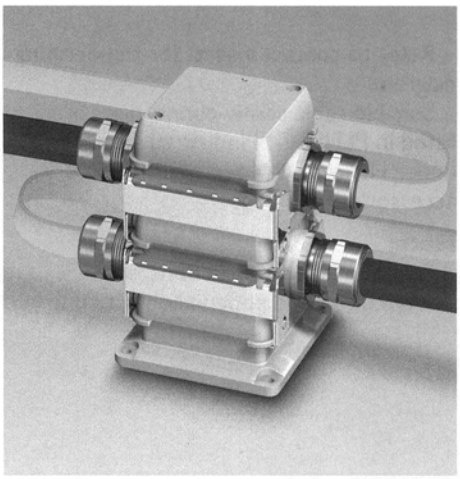
With hybrid lines

The classic case, the at the same time the simplest, is the introduction of one cable per stackable housing. With the aid of an M25 adapter screw connection, conductors with a diameter of up to 21 mm can be connected.



With separate lines

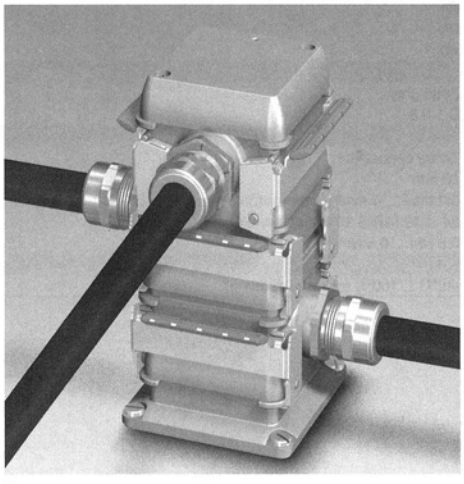
The cable glands with two holes allow thin power and 24 V conductors to be routed separately into the stackable housing.



With two opposing lines

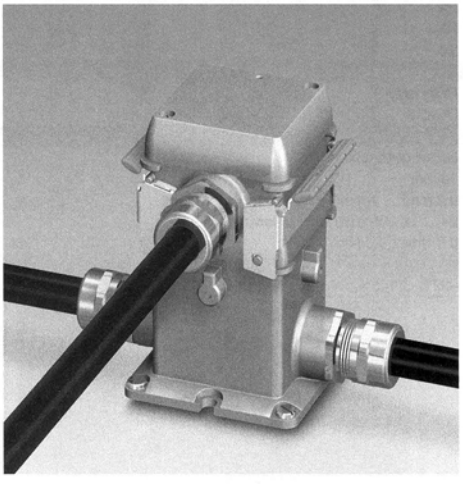
The housings with two cable entries allow cables with larger diameters to be routed in or combinations e.g. with AS-i conductors or PROFIBUS.

Possibilities of power distribution



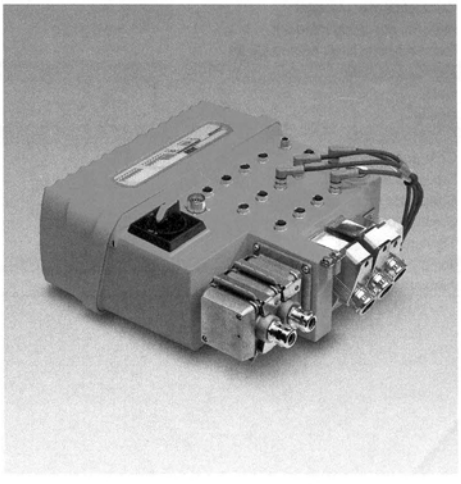
Stacking distributors

DUPLICON allows a flexible number of cable exits, since it is stackable. The square design enables cable outlets in 90° steps. DUPLICON is simple to retrofit in existing installations. Disconnect the power line, assemble with stackable connectors, plug together – finished.



T-Box

The DUPLICON T-box is the most cost-effective and compact alternative to the stackable distributor for permanent installations. The contact insert has two screw connections per position to loop the power line through. The cable outlet upward can be plugged optionally in four directions.



Equipment connection

As a device connection, DUPLICON is the most effective and inexpensive version of decentral power distribution. The direct PCB connection in the 90° and 180° version saves a routing level in the device. The contact insert is compatible with pluggable ST-COMBI (CLIPLINE) terminal plugs.