

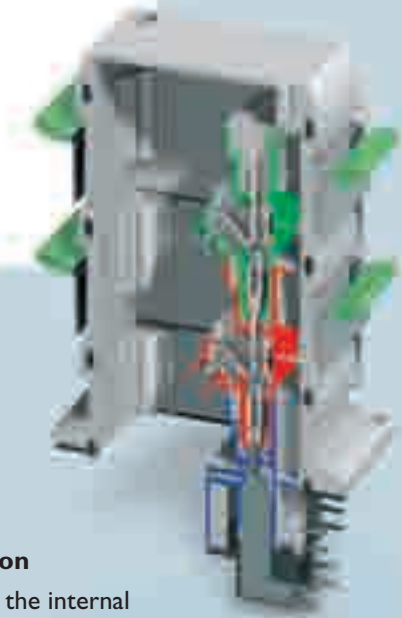
DUPLICON – Power Distribution

Simple, flexible, sturdy!

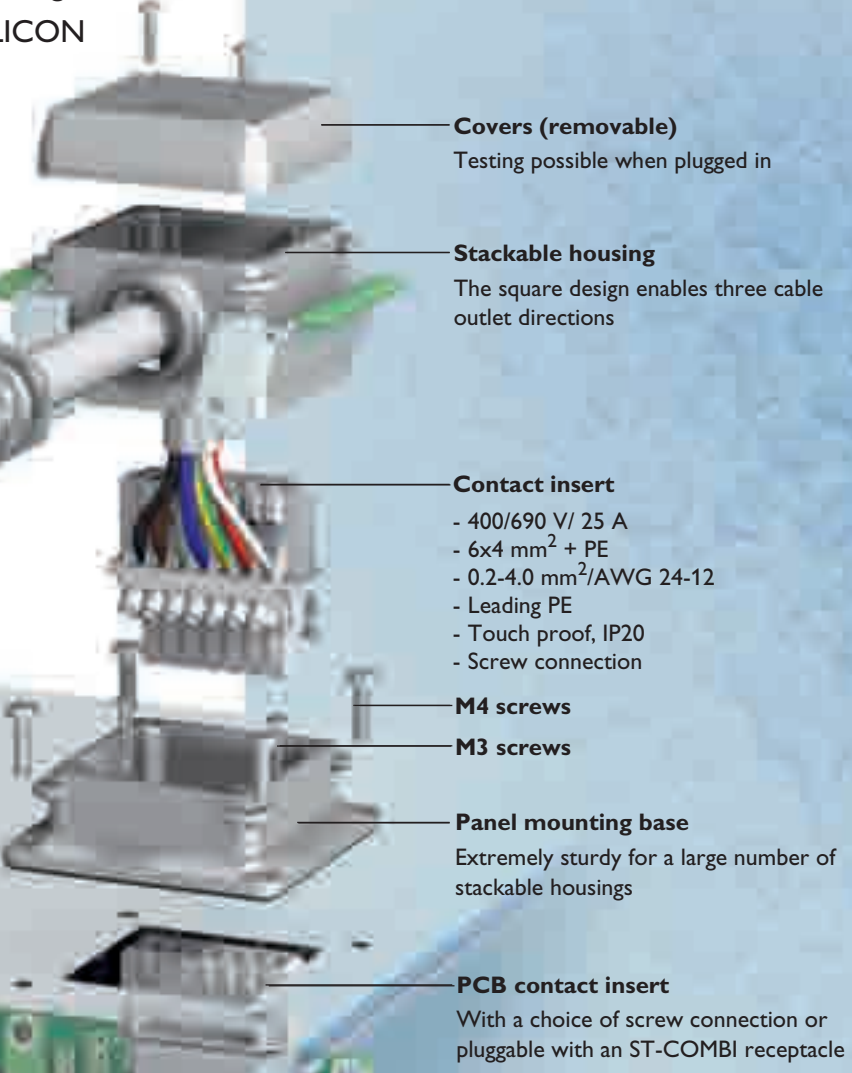
DUPLICON is the innovative plug connector solution for your IP67 power bus for 7x4 mm² conductors / 25 A / 400/690 V. Seamless connection from the power rail via pluggable ST-COMBI modular terminal blocks in the control cabinet and on to the PCB or plug connection on the field device. The system has very few components and is extremely flexible to use.

The sturdy, EMC-protected aluminum housing with ergonomically designed locking latches makes DUPLICON qualify for the harshest of conditions.

All contact inserts have a leading PE contact and are touch proof in acc. with DIN VDE 0105.



Section Device connection
The section shows the internal arrangement of the contact inserts and the structure of the housing and UV light protected housing gaskets. Clearly visible are the male and female contacts lined up opposite each other.

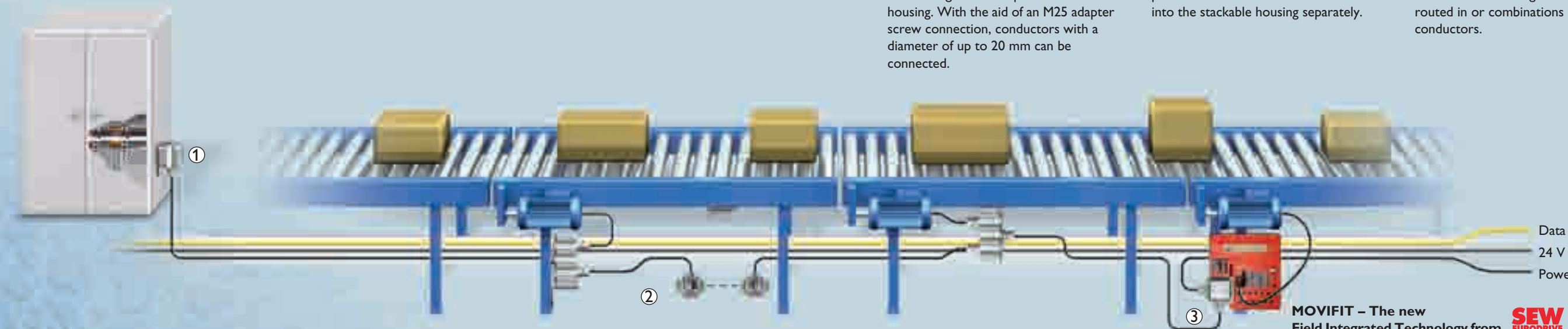


- Covers (removable)**
Testing possible when plugged in
- Stackable housing**
The square design enables three cable outlet directions
- Contact insert**
- 400/690 V/ 25 A
- 6x4 mm² + PE
- 0.2-4.0 mm²/AWG 24-12
- Leading PE
- Touch proof, IP20
- Screw connection
- M4 screws**
- M3 screws**
- Panel mounting base**
Extremely sturdy for a large number of stackable housings
- PCB contact insert**
With a choice of screw connection or pluggable with an ST-COMBI receptacle

DUPLICON – Power Distribution

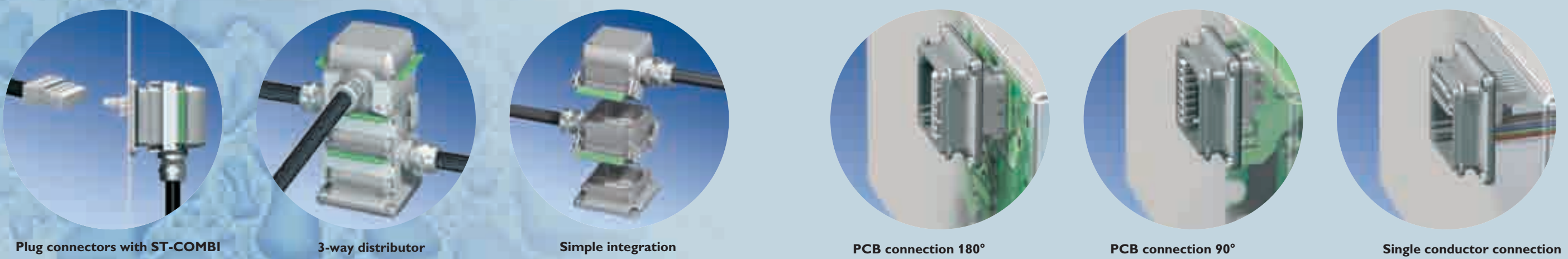
One connector for seamless power distribution!

DUPLICON is a seamless plug connector solution from the DIN rail in the control cabinet, over the distributed power distributor and on to the device connection in the field.



Possibilities of power distribution

- 1 Plug connectors**
As a panel feed-through, DUPLICON is the ideal interface between power supply in the control cabinet and decentral distribution in the field.
- 2 Decentral distributors**
Since it is stackable, the decentral distributor allows a flexible number of cable exits. 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.
- 3 Device connection**
As 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 jumpering level in the device, thus allowing automated and controlled assembly. The screw connection system is compact and suitable for universal application. With the multiple conductor connection option, it is compatible with pluggable ST-COMBI (CLIPLINE) modular terminal blocks.



Options for cable entry

The stackable DUPLICON housings have a choice of one or two cable entries. This makes the options for cable routing and the options for application in the field even more flexible and versatile.



- The classic and most simple case is introducing one cable per stackable housing. With the aid of an M25 adapter screw connection, conductors with a diameter of up to 20 mm can be connected.
- Rubber seals with two holes allow thin power and 24 V conductors to be routed into the stackable housing separately.
- The housings with two cable entries allow cables with larger diameters to be routed in or combinations e.g. with ASI conductors.

MOVIFIT – The new Field Integrated Technology from SEW EURODRIVE
With DUPLICON for power distribution, VARIOCON for the motor connection and SPEEDCON M12 for sensors and actuators.

DUPLICON – Power Distribution

Take advantage of the benefits!

Ease of operation

System Advantages	User benefits
Seamless plug connector solution	Simple logistics and safe handling
Removable cover	Simple testing when plugged in. Safe startup and fast service
Compatibility with HEAVYCON panel cutouts HC-B 06 with PCB connection	Simple integration and further use of any existing stamping tools
Absolute pluggability	Simple retrofitting in inaccessible areas and fast service due to pluggable device connection (disconnection without interrupting the main line)



Flexible in application

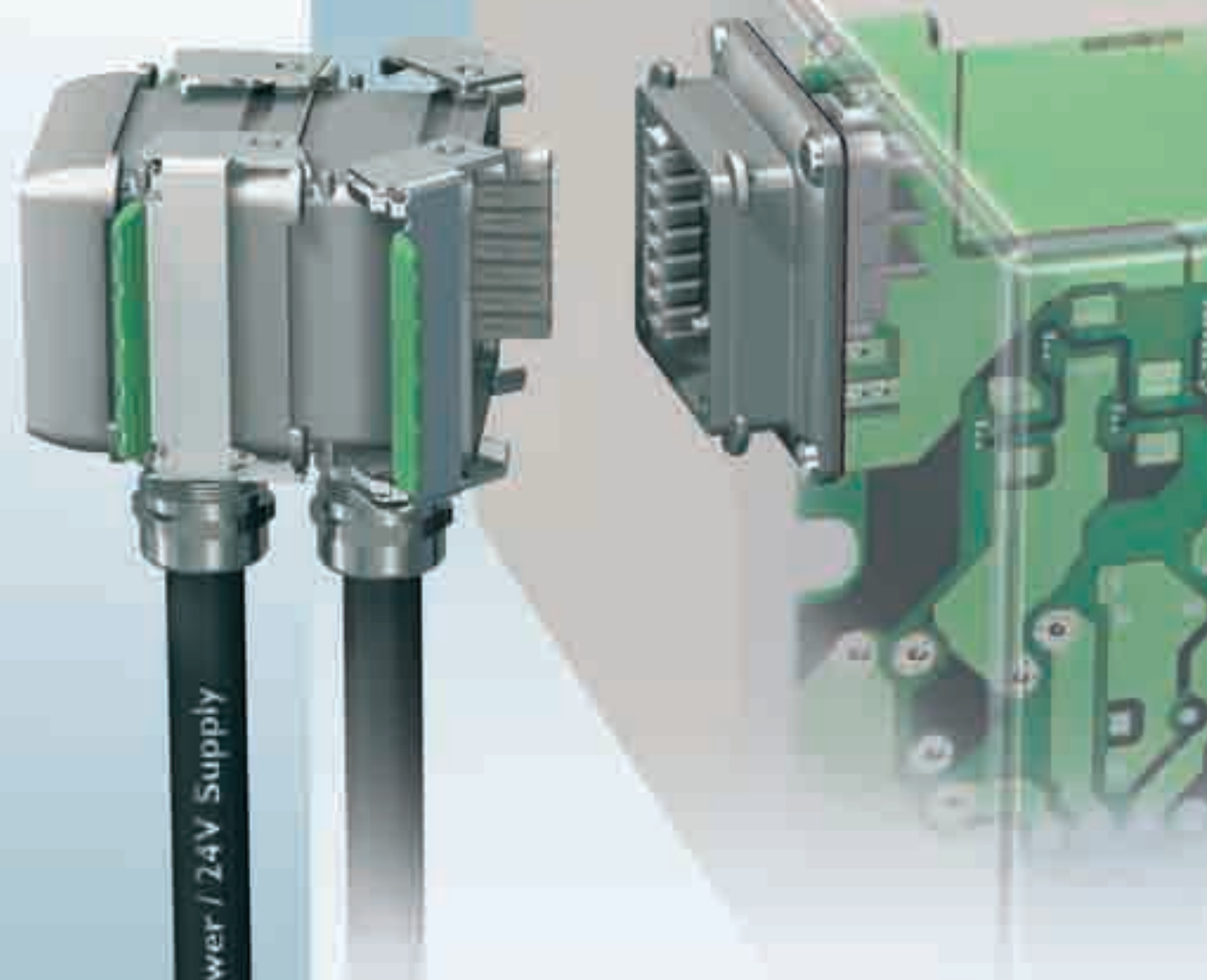
System advantages	User benefits
Flexible number of cable outlets	Flexible and inexpensive application
Plugging in in 90° steps	Flexible cable outlet directions and tidy installation
Screw connection system	Compact design, multiple conductor connection, universal use
Low contact resistances	Minimum voltage loss in expansive systems, with low self-heating
6x4 mm ² + leading PE (AWG 24-12)	Rational and safe combination of 400 V power and 24 V supply in one connector
Pin-compatible with ST-COMBI (CLIPLINE)	Seamless plug-in connection through to the DIN rail in the control cabinet
90° and 180° PCB connection	Highly efficient device connection
Construction made to match VARIOCON	Rationally designed field devices in the area of drive engineering (e.g. MOVIFIT from SEW-EURODRIVE)
Minimum footprint	Simple to install even in compact devices, machines and plants



Resistant to environmental influences

System advantages	User benefits
Sturdy design (IP67)	Safe operation due to protection against shock, vibration, UV radiation, electromagnetic interference, dust and damp





Best Solution for Power Distribution DUPLICON – IP67

DUPLICON Power Distribution (6x4 mm² + PE / 400 / 690 V Power / 24 V Supply)

DUPLICON sets

Stackable connector set for M20 screw connection



DC-B 6-SET-HD-M20-M-7X4-UT
Order No. 1602216

Stackable connector set for M25 screw connection



DC-B 6-SET-HD-M25-M-7X4-UT
Order No. 1602229

Panel feed-through set for M20 screw connection



DC-B 6-SET-WF-M20R-M-7X4-UT
Order No. 1602232

Panel feed-through set for M25 screw connection



DC-B 6-SET-WF-M25R-M-7X4-UT
Order No. 1602258

Coupling set for M20 screw connection



DC-B 6-SET-CO-M20-M-7X4-UT
Order No. 1602274

Coupling set for M25 screw connection



DC-B 6-SET-CO-M25-M-7X4-UT
Order No. 1602287

Distributor set for M20 screw connection



DC-B 6-SET-3D-M20-M-7X4-UT
Order No. 1602290

Distributor set for M25 screw connection



DC-B 6-SET-3D-M25-M-7X4-UT
Order No. 1602300

Housing cover



DC-B 6-CT-M
Order No. 1602025

Housing

Panel mounting base open below, with gasket



DC-B 6-HB-M
Order No. 1602038

Basic housing closed below



DC-B 6-HM-M
Order No. 1602164

Stackable housing with M20 cable screw connection thread



DC-B 6-HD-M20-M
Order No. 1602041

Stackable housing with M25 cable screw connection thread



DC-B 6-HD-M25-M
Order No. 1602054

Stackable housing with two M20 cable screw connection threads



DC-B 6-HD-M20/M20-M
Order No. 1602067

Stackable housing two with M25 cable screw connection threads



DC-B 6-HD-M25/M25-M
Order No. 1602070

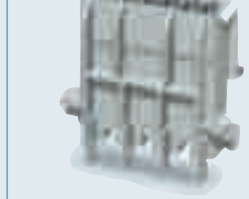
Contact inserts

Screw connection 6x4 mm² +PE (AWG 24-12)



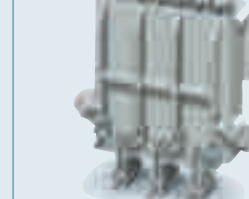
DC-B 6-ID-7X4-UT
Order No. 1602203

Solder connection 180° 6x4 mm² +PE (AWG 24-12)



DC-B 6-IB-7X4-PCB-180
Order No. 1602177

Solder connection 90° 6x4 mm² +PE (AWG 24-12)



DC-B 6-IB-7X4-PCB-90
Order No. 1602180

Accessories

Mounting bracket



DC-B 6-A-SA
Order No. 1602313

Replacement gasket Stackable housing



DC-B 6-A-HD-G
Order No. 1602326

Replacement gasket Panel mounting bases



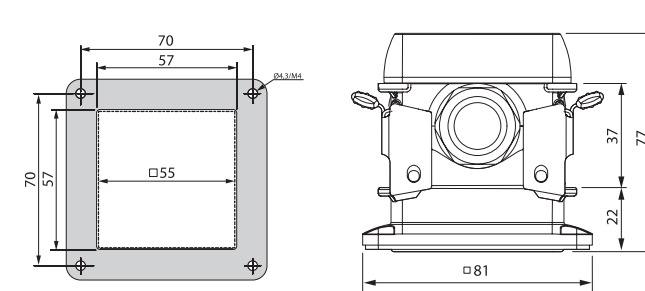
DC-B 6-A-HB-G
Order No. 1602339

M3 fixing screws for PCB inserts

DC-PCB-M3x20
Order No. 1602407

M4 Torx screws T20, self-tapping for panel mounting base and basic housing
T20-M4x12
Order No. 1602410

Dimensional drawings



More information can be found at:
www.eshop.phoenixcontact.com

Fax

I would like information on DUPLICON.

Please send me further information on:

Please send your newsletter to the e-mail address below.

I would like a personal consultation without obligation.

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Department _____

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