

Connector Systems  
Crimp Contacts  
Solderless Terminals  
Customers' Specific Solutions

## » Company Profile «

### Our Products

- Multi-way connector systems with terminations for insulation displacement crimping or soldering
- Solderless terminals
- Crimp contacts
- Customers' special products
- Terminating systems for all STOCKO products:  
Hand tools, semi- and fully automated machines

### Our Markets

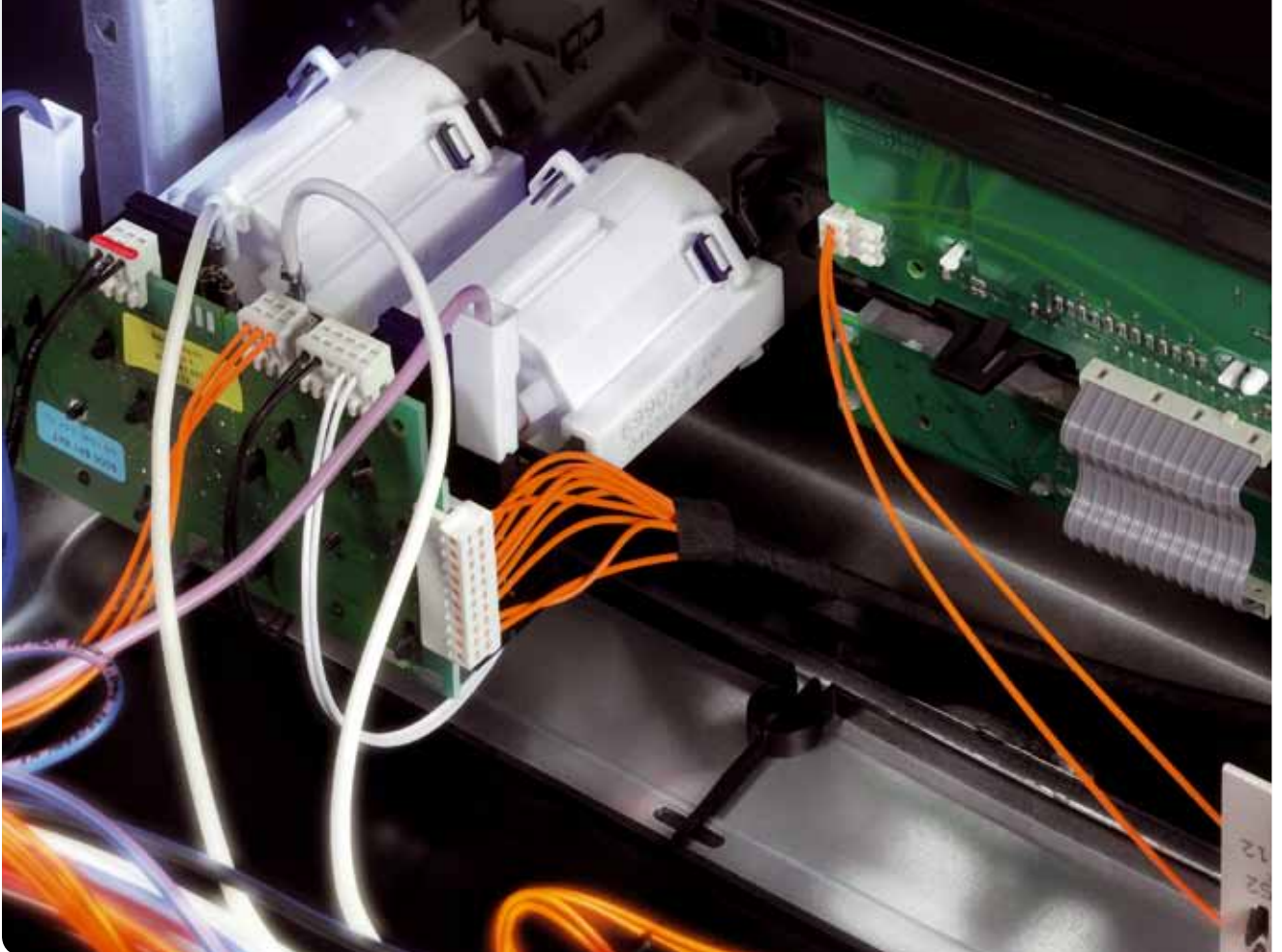
- Domestic appliances industry
- Heating industry
- Industry
- Automotive
- Distribution

### Assured Quality

#### DQS-certified integrated management systems

- Certified according to  
ISO 9001  
ISO 14001  
IATF 16949  
STOCKO CONTACT Germany, France  
Certified according to  
ISO 50001  
STOCKO CONTACT Hellenthal/Germany
- Approval company: DQS GmbH, Frankfurt





#### **Founded**

- 1901 in Wuppertal

#### **Employees World-wide**

- 600

#### **Factories**

- Wuppertal / Germany
- Hellenthal / Germany
- Andlau / France
- Sokolov / Czech Republic
- Shanghai / China



## » Secure Connections. World-wide.«

Today, STOCKO is one of the leading European manufacturers of electro-mechanical components; for very good reasons, because, for more than one hundred years, we are focussed in our daily work on the most important object, to satisfy our customers.

Of course, it is not easy to meet these expectations over such a long period of time. Electronic component manufacturing is a key industry that does not tolerate mistakes, and customers' requirements are very complex and challenging. Again and again, they demand our full efforts beginning with research and development and finally in logistics and marketing. Hence we invite our customers' involvement in numerous stages of production processes but above all with regard to quality assurance, right from the beginning, and thus make sure that we continue to offer our products at a high quality level. Products that can be found equally in heating controls, drink dispensing machines, dish washers or motor cars.

If, at STOCKO, we talk of secure connections then for this reason that in every one of our connectors an element of conviction reverberates that good connections are always a matter of trust.



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We reserve the right to alter technical details.  
WEEE-Reg.-Nr. DE 14484959



» TO COMMUNICATE – REALIZE DEVELOPMENTS – ACHIEVE RESULTS  
with your STOCKO Contact Team«

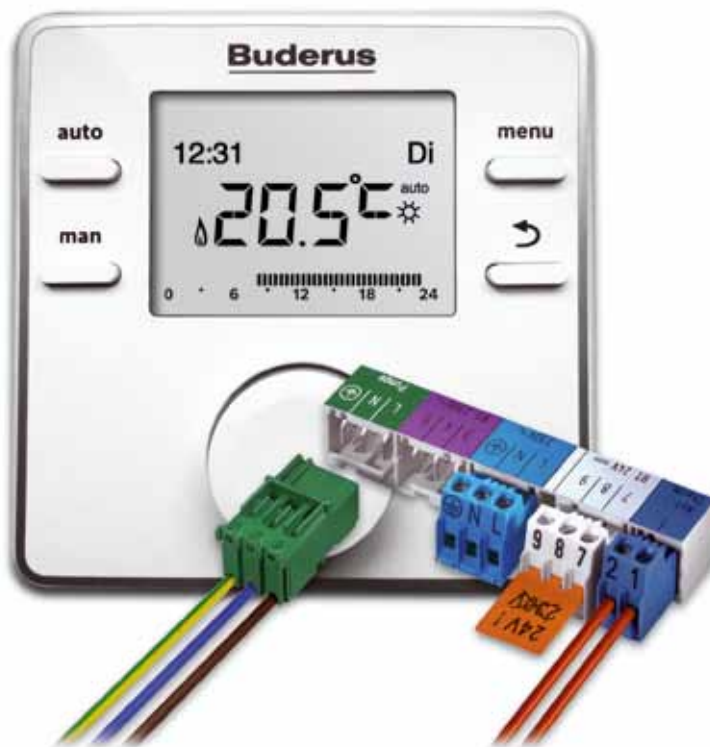
## » Secure Connections. World-wide.«

This is at the heart of our company philosophy.


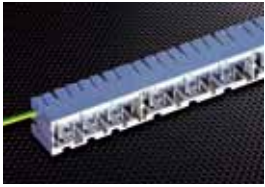





### **Good electrical connections are our business for more than one hundred years.**

STOCKO – our name is synonymous with connector systems in crimp, screw-type and IDC form, crimp contacts and solderless terminals as well as special customer parts. Developments in the electrical and electronics industries advance at a phenomenal rate. New technologies change and create markets. This applies particularly to the heating, ventilating and air conditioning industries. In these markets, STOCKO could position themselves so well in the last few years that meanwhile these sectors rank among those segments within our company, which show the strongest growth.

Authority, willingness to perform, and the high quality of the products made us, what we are today: STOCKO understand themselves as competent partners for electro-mechanical products and offer you for these markets, too, a suitable product range, all from one hand. Not only our comprehensive catalogue program, but also the individual, flexible customer solutions document our ambition to adapt constantly to the needs of the market and the customers. Our aim is satisfied customers, who maintain an long-term connection with our company. To offer you products of superior quality, tuned in support of your needs, are characteristic for all our divisions. Therefore, innovation, proximity to and close cooperation with our customers are at the centre of our attention. Together, we can invest in first-class technologies, realize innovations and thus achieve high-quality products and comprehensive flexibility.




## Combination alternatives

		Series Pin connectors ▷	ECO-FLEX M	ECO-FLEX ML	ECO-DOMO TI
IDC housings ▽					
Page			15	17	16
14	ECO-DOMO NF		•	•	•
16	ECO-DOMO TI				
18	Wiecon 8105 <sup>B</sup>		•	•	•
18	Wiecon 8105 <sup>FU</sup> VR or VL				
20	ECO-DOMO CRIMP EH 688		•	•	•
20	ECO-DOMO CRIMP EH 699		•	•	•
20	ECO-DOMO CRIMP EH 788				

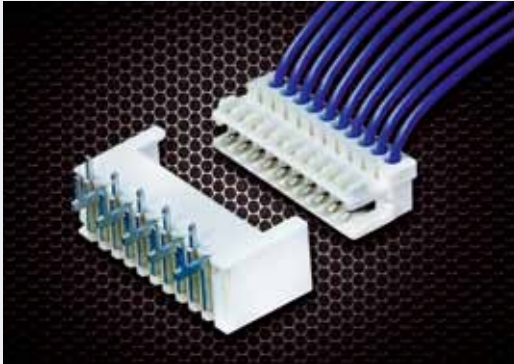


## Combination alternatives

EH 788 	ECO-FLEX BL 	ECO-FLEX MBL 	ECO-FLEX SMT 	ECO-DOMO PM 
20	17	17	15	19
		•	•	•
	•	•		
•		•	•	•
	•	•		
•		•	•	•
•		•	•	•
	•	•		

## ECO-TRONIC

Pitch 2.5 mm



MS 7232 with MF 7234



MS 7247

### Description of system

#### IDC housings

- Direct and indirect connectors with IDC termination in accordance with the RAST 2.5 standard specification for domestic appliances
- Closed cable entries ensure long air and creeping distances
- Trimming polarizing pegs to individual requirements produces a large number of clearly defined connector combinations
- With direct edge versions, polarizing and locking feature for PCB

#### Pin connectors

- In vertical and horizontal versions facilitate 90° and 180° cable angles
- SMT version for vertical PC board assembly

#### Pin connector panel mount

- Pin connector with IDC termination for entry through back panel
- Lockable in metal thickness  $0.8 \pm 0.1$  mm

### Technical data

Mechanical	Pitch	2.5 mm
	Positions	2 - 20
	Termination	IDC
	Wire size	0.12-0.14 mm <sup>2</sup> / 0.22 - 0.35 mm <sup>2</sup>
	Insulation Ø	max. 1.6 mm
	Hardness of insulation	Shore A 90° ± 5
	Type of wire	solid, stranded
	Temperature range	-40 °C ... +120 °C
	Board thickness	1.55 ± 0.19 mm
Electrical	Rated current	2 A
	Rated voltage	Pitch 2.5 mm: 32 V
		Pitch 5 mm: 250 V
	Dielectric strength	Fully assembled 2.5 mm: 1.4 kV
		Partially assembled 5 mm: 2.8 kV
	Insulation resistance	> 10 <sup>9</sup> Ω
	Contact resistance	< 10 mΩ
	Air gap and creeping distances	Pitch 2.5 mm: > 1 mm
Pitch 5 mm: > 3 mm		
Tracking resistance	CTI ≥ 400	
Approved by	DIN EN 61984 (IEC 61984) UL / ULC E96569	
Materials	Contact	Socket: CuSn, Cu-alloy
		Pin: CuZn
	Contact finishing	Socket: Sn, NiAu
		Pin: Sn
	Housing / SMT pin connector	PA, glow wire resistant, GWT 750 °C acc. to IEC 60335-1
Colour of housing	natural, SMT pin connector black	
Polarizing	to RAST 2.5	

## ECO-TRONIC CRIMP

Pitch 2.5 mm



MH 7438 with RFB 8408



MS 7232 with MH 7434

### Description of system

#### Crimp housings

- Direct and indirect connectors with crimp termination  
Codings in accordance with the RAST 2.5 standard specification
- Closed cable entries ensure long air and creepage distances
- Trimming polarizing pegs to individual requirements produces a large number of clearly defined connector combinations
- With direct edge versions, polarizing and locking feature for PCB
- Primary and secondary lock

#### Pin connectors

- In vertical and horizontal versions facilitate 90° and 180° cable angles
- SMT version for vertical PC board assembly

#### Pin connector panel mount

- Compatible with pin connector of ECO-TRONIC with IDC termination
- Lockable in metal thickness  $0.8 \pm 0.1$  mm

### Technical Data

Mechanical	Pitch	2.5 mm
	Positions	2 – 12 (up to 20 on request)
	Termination	crimp technology
	Wire size	0.22 and 0.35 mm <sup>2</sup>
	Insulation Ø	max. 1.4 mm
	Hardness of insulation	Shore A 90° ± 5
	Type of wire	stranded
	Temperature range	-40 °C ...+ 120 °C (Sn)
	Board thickness	1.55 ± 0.19 mm
	Electrical	Rated current
Rated voltage		Pitch 2.5 mm: 32 V Pitch 5 mm: 250 V
Dielectrical strength		Fully assembled 2.5 mm: 1.4 kV Partially assembled 5 mm: 2.8 kV
Insulation resistance		> 10 <sup>9</sup> Ω
Contact resistance		< 10 m Ω
Air gap and creeping distances		Pitch 2.5 mm: > 1 mm Pitch 5 mm: > 3 mm
Tracking resistance		CTI ≥ 400
Materials	Associated contact	RFB 8408 V 1,6-0,35 RFB 8408.520 1,6-0,35
	Contact	CuSn, Cu-alloy
	Contact finishing	Sn, NiAu
	Housing	PA, glow wire resistant, GWT 750 °C acc. to IEC 60335-1
	Colour of housing	natural
Polarizing	to RAST 2.5	

## S-GRID 2.54

Pitch 2.54 mm



MH 780 / MH 790 with RVB 8231.001



MS 7730

### Description of system

- Suitable for the connection to HVAC periphery devices, e. g. stepping/servo motors or linear actuators
- Housing variants
  - In-line 3 positions or
  - dual-line 6 positions
- Three different coding variants
- Crimped wires are insertable from the rear
- Cable exit 180°

### SMD Socket Connector

- 4 to 80 poles socket connector double-row
- Board to board connection (bottom entry) with 0.64 x 0.64 mm pins
- Surface Mount Technology
- Contact area flash gold, soldering area tin plated

### Technical data

		Housing	SMD Socket connector
Mechanical	Positions	3 / 6	4-80
	Pitch	2.54 mm	2.54 mm
	Termination	Crimp	SMD soldering
	Wire size	0.14 - 0.34 mm <sup>2</sup> AWG 26-22	
	Temperature range	- 20 °C ... +110 °C	- 40 °C ... +105 °C
Electrical	Rated current	max. 3 A at T <sub>amb</sub> 80 °C	max. 1 A at T <sub>amb</sub> 95 °C (max. 3 A at T <sub>amb</sub> 47 °C)
	Rated voltage	250 V	250 V
	Dielectrical strength	≥ 2.5 kV	≥ 1.39 kV
	Insulation resistance	> 10 <sup>9</sup> Ω	> 10 <sup>9</sup> Ω
	Contact resistance	< 10 mΩ	< 40 mΩ
	Air gap	1.5 mm	1.5 mm
	Creeping distances	1.8 mm	≥ 1.25 mm
	Tracking resistance	CTI ≥ 425	CTI ≥ 600
Materials	Housing	PA, glow wire resistant, GWT 750 °C acc. to IEC 60335-1	PA, glow wire resistant, GWT 750 °C acc. to IEC 60335-1
	Colour of housing	various colors	black
	Associated contact	RVB 8231.001 Z 0.64-0.35	
	Contact	CuSn	CuSn
	Contact finishing	Sn	Contact area: gold flash, Soldering area: Sn

# HLK 3500

Pitch 3.5 mm



MH 9850 with RFB 7808

### Description of system

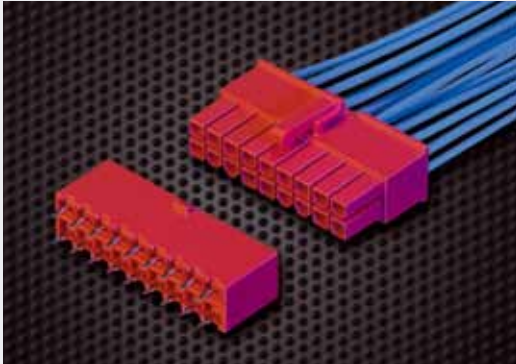
- Suitable for the connection to HVAC periphery devices, e. g. stepping/servo motors or linear actuators
- Pitch 3.5 mm
- Pluggable connector with external locking feature
- Crimped wires are from the rear insertable
- Cable exit 180°
- Remarks with or without seal
- With seal IP 44
- Clear positioning

### Technical data

Mechanical	Positions	4
	Pitch	3.5 mm
	Termination	Crimp
	Temperature range	-40 °C ... +120 °C
	Wire size	0.12 - 0.5 mm <sup>2</sup>
Electrical	Rated current	max. 5 A
	Rated voltage	250 V
	Insulation resistance	> 10 <sup>9</sup> Ω
	Contact resistance	< 10 mΩ
Materials	Housing	PA, glow wire resistant, GWT 750 °C acc. to IEC 60335-1
	Colour of housing	black
	Associated contact	RFB 7808 V 0.6-0.5
	Contact	CuSn
	Contact finishing	Sn

## S-FIT 4.20

Pitch 4.2 mm



MS 7715 with EH 715



MS 7708 with EH 705

### Description of system

- Universal connector system for internal equipment wiring
- Applicable as flying lead coupling, for panel mounting or for printed circuit board contacting
- Available in a range of versions and materials
- Crimp contacts are touch-protected into the housing located
- Cable exit 180°

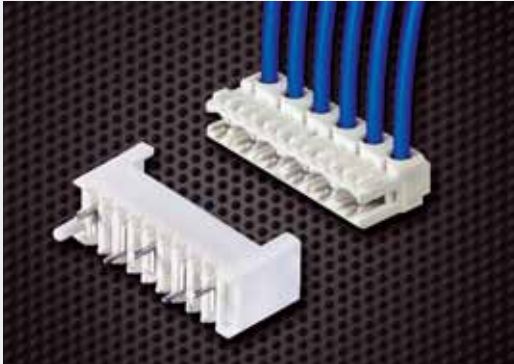
### Technical data

Mechanical	Positions	Single-row	2 - 6
		Dual-row	2 - 24
	Pitch		4.20 mm
	Termination	Connector, Counter part	Crimp
		Headers	Solder
	Wire size		0.22 - 0.48 mm <sup>2</sup> / AWG 24-22 0.50 - 1.00 mm <sup>2</sup> / AWG 20-18
	Degree of pollution		II
	Temperature range		-40 °C ... +110 °C
Electrical	Rated current		7 A
	Rated voltage		250 V
	Insulation resistance		> 10 <sup>9</sup> Ω
	Contact resistance		< 10 mΩ
	Air gap and creeping distances		≥ 3 mm
	Tracking resistance		CTI ≥ 325 <sup>1)</sup>
	Surge category		II
	Insulation group		III a <sup>1)</sup>
	Dielectric strength		3 kV
Approved by		UL / ULC E96569	
Materials	Housing		PA PA, glow wire resistant, GWT 750 °C acc. to IEC 60335-1 natural, other colours on request
	Colour of housing		
	Contact		CuZn
	Contact finishing		Sn

<sup>1)</sup> Depending on material

## ECO-TRONIC pro

Pitch 5 mm



MS 7230 with MF 7260

### Description of system

#### IDC housings

- Direct and indirect connectors with IDC termination in accordance with the RAST 2.5 standard specification for domestic appliances
- Closed cable entries ensure long air and creeping distances
- Trimming polarizing pegs to individual requirements produces a large number of clearly defined connector combinations
- With direct edge versions, polarizing and locking feature for PCB

#### Pin connectors

- Versions for vertical or horizontal PC board assembly

### Technical data

Mechanical	Pitch	5 mm
	Positions	2 - 10
	Termination	IDC
	Wire size	0.35 - 0.75 mm <sup>2</sup>
	Insulation Ø	max. 2.4 mm
	Hardness of insulation	Shore A 90° ± 5
	Type of wire	stranded
	Temperature range	-40 °C ...+120 °C
	Board thickness	1.55 ± 0.19 mm
	Electrical	Rated current
Rated voltage		250 V
Dielectric strength		2.8 kV
Insulation resistance		> 10 <sup>9</sup> Ω
Contact resistance		< 10 mΩ
Air gap and creeping distances		> 3.2 mm
Tracking resistance		CTI ≥ 400
Approved by		DIN EN 61984 (IEC 61984) UL / ULC E96569
Materials	Contact	Socket: CuSn Cu-alloy Pin: CuZn
	Contact finishing	Socket: Sn Pin: Sn
	Housing	PA, glow wire resistant, GWT 750 °C acc. to IEC 60335-1
	Colour of housing	natural
	Polarizing	to RAST 2.5

## ECO-DOMO NF

Pitch 5 mm



MS 9401 with MF 9561

### Description of system

#### IDC housings

- Direct and indirect connector with IDC termination in accordance with the RAST 5 standard specifications for domestic appliances, with locking features inside or outside
- Direct connector with keying walls between contacts and side walls, locking features for PCB
- Cable exit 90° and 180° according to RAST 5

#### Tab connectors

- Versions for vertical or horizontal PC board assembly see ECO-FLEX M

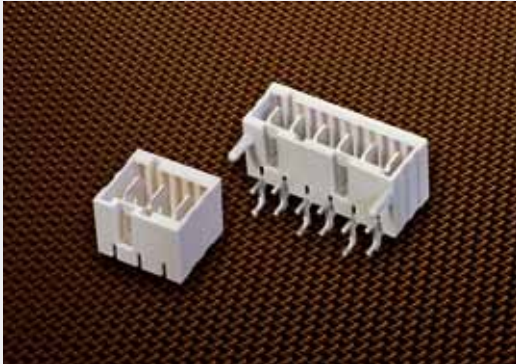
### Technical data

Mechanical	Pitch		5 mm
		Positions	Direct connector Indirect connector
	Locking features	Direct connector	PCB
		Indirect connector	inside and outside
	Termination		IDC
	Wire size	Direct connector	0.5 - 0.75 mm <sup>2</sup>
		Indirect connector	0.35 - 1.5 mm <sup>2</sup>
	Insulation diameter		3.0 mm
		Cable exit 180°	max. < 2,4 mm
	Type of wire		stranded
Temperature range		- 40 °C ...+110 °C	
Electrical	Rated current	Direct connector	6 A
		Indirect connector	16 A
	Rated voltage		250 V
	Dielectrical strength		≥ 3.0 kV
	Insulation resistance		≥ 10 <sup>9</sup> Ω
	Contact resistance		≤ 5 mΩ
	Air gap		≥ 3 mm
	Creeping distance		≥ 3.6 mm
	Tracking resistance		CTI ≥ 400
	Approved by		DIN EN 61984 (IEC 61984) UL / ULC E96569
Materials	Contact		Socket: CuSn
	Contact finishing		Socket: Sn
	Housing		PA, glow wire resistant, GWT 750 °C acc. to IEC 60335-1
	Colour of housing		natural



## ECO-FLEX M

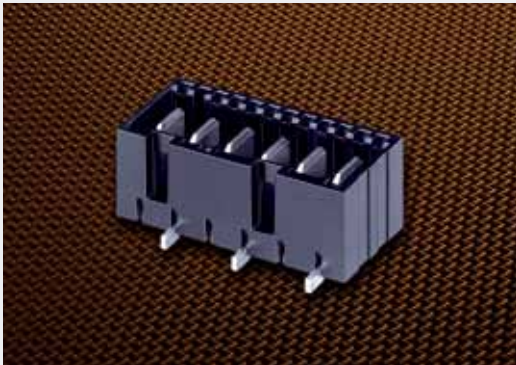
Pitch 5 mm



MS 9401 and MS 9406

### Description of system

- Tab connector in accordance with the RAST 5 standard specification for domestic appliances
- Versions for vertical or horizontal PC board assembly
- SMT version for vertical PC board assembly
- Higher horizontal version also suitable for connectors with locking features outside
- For in-line or dual-line hole patterns
- Individual polarizing and positioning possible
- Pegs optional



MS 9481 SMT

### Technical data

Mechanical	Pitch	5 mm
	Positions	2 - 12 2 - 6 (SMT)
	Termination	soldering
	Temperature range	-40 °C ... +120 °C
Electrical	Rated current <sup>2)</sup>	16 A
	Rated voltage <sup>2)</sup>	250 V
	Dielectrical strength <sup>3)</sup>	2.5 kV
	Tracking resistance <sup>1,3)</sup>	CTI ≥ 400
	Air gap and creeping distance	≥ 4 mm
	Insulation resistance	> 10 <sup>9</sup> Ω
	Contact resistance	< 10 mΩ
	Approved by	DIN EN 61984 (IEC 61984) UL / ULC E96569
Materials	Contacts	Tabs 6.3 x 0.8 mm
	Housings	PA, glow wire resistant, GWT 750 °C acc. to IEC 60335-1
	SMT pin connector	PA, glow wire resistant, GWT 750 °C acc. to IEC 60335-1
	Colour of housing	natural, SMT pin connector black
	Contact material	CuZn
Contact finishing	Sn or Ag	

<sup>1)</sup> according to IEC 60664

<sup>2)</sup> depending on mating connector and PC board in use

<sup>3)</sup> depending on material

## ECO-DOMO TI

Pitch 5 mm



MS 9460

### Description of system

- Tab connector for IDC termination as flying lead coupling or for panel mounting application
- Versions with / without locking features
- Cable exits 90°, 180° (optional 270°)
- Single and / or twin terminations depending on wire size
- Codings in accordance with the RAST 5 standard specifications
- Label optional

### Technical data

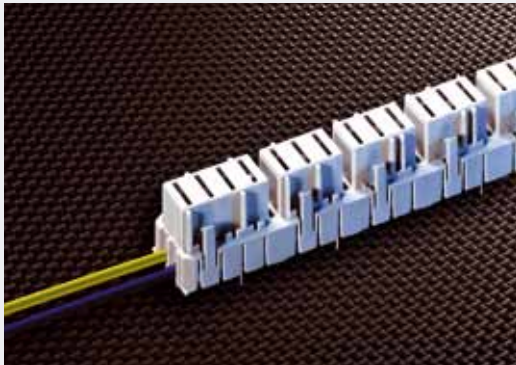
Mechanical	Pitch	5 mm
	Positions	2 - 10
	Termination	IDC
	Wire size	0.5 - 0.75 mm <sup>2</sup> / 0.5 + 0.5 mm <sup>2</sup>
	Insulation diameter	2.3 mm
	Type of wire	stranded wire
	Temperature range	- 40 °C ...+ 110 °C
Electrical	Rated current	10 A
	Rated voltage	250 V
	Dielectrical strength	2.5 kV
	Tracking resistance	CTI ≥ 400
	Air gap and creeping distance	≥ 4 mm
	Insulation resistance	> 10 <sup>9</sup> Ω
	Contact resistance	< 10 m Ω
Approved by	DIN EN 61984 (IEC 61984)	
Materials	Contact	tabs 6.3 x 0.8 mm
	Contact material	CuSn
	Contact finishing	Sn
	Housings	PA, glow wire resistant, GWT 750 °C acc. to IEC 60335-1
	Colour of housing	natural

## ECO-FLEX ML, BL, MBL

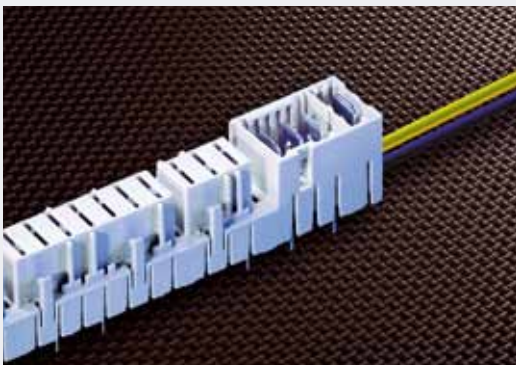
Pitch 5 mm



MS 9420



MF 9430



MSF 9440

### Description of system

- Connector system allowing individual, free contact combinations in accordance with the RAST 5 standard specification for domestic appliances
  - ECO-FLEX ML Tab connector optional with bridging contacts
  - ECO-FLEX BL Socket connector optional with bridging contacts
  - ECO-FLEX MBL Connectors in tab/socket combinations optional with bridging contacts
- Versions for vertical or horizontal PC board assembly
- For dual-in-line or in-line hole patterns
- Individual polarizing possible
- Clear grouping of connecting positions using movable inserts or empty spaces
- Neutral and/or grounded bridging contacts
- Polarizing pegs optional
- Advancing tab contacts as grounded conductor optional
- Suitable for RAST 5 indirect connectors in screw, crimp or IDC technology

### Technical data

Mechanical	Positions	2 - 30 <sup>1)</sup>	
	Pitch	5 mm	
	Termination	Soldering	
	Inserts or empty spaces	7.5 mm, 10 mm	
	Temperature range	- 40 °C ... +120 °C	
Electrical	Rated current	Tab 16 A Socket contact 10 A Bridging contact 10 A	
	Rated voltage	250 V	
	Dielectrical strength	≥ 2.5 kV	
	Insulation resistance	> 10 <sup>9</sup> Ω	
	Contact resistance	< 10 m Ω	
	Air gap and creeping distances	≥ 4 mm	
	Tracking resistance	CTI ≥ 400	
	Approved by	DIN EN 61984 (IEC 61984) UL / ULC E96569 only series MS 941x	
	Materials	Housing	PA, glow wire resistant, GWT 750 °C acc. to IEC 60335-1
		Colour of housing	natural
Contact		CuZn / CuSn	
	Contact finishing	Sn	

<sup>1)</sup> depending on number of inserts or empty spaces, higher pole versions on request

## Tab connector ECO-FLEX ML/BL/MBL loaded with WIECON 8105

Pitch 5 mm



MS 9412 loaded with RAST 5 PCB connectors

### Description of system

- Tab connector ECO-FLEX with RAST 5 PCB connectors in screw-type technology in accordance with RAST 5 standard specification for domestic appliances
- Suitable for solid or stranded wire with or without end splice
- Cable exit 90°, 180° or 270°, depending upon connector
- Labelling and/or colour coding optional



Wiecon 8105 B \*

### Technical data Wiecon 8105 \*

Mechanical	Positions	2 - 7
	Pitch	5 mm
	Termination	screw-type
	Wire size	0.14 - 2.5 mm <sup>2</sup> finely stranded 0.14 - 4 mm <sup>2</sup> single stranded
	Ambient temperature range	-25 °C ... +60 °C
Electrical	Rated current	max. 10 A
	Rated voltage	250 V
	Dielectrical strength	2.0 kV
	Insulation resistance	> 10 <sup>9</sup> mΩ
	Contact resistance	< 10 mΩ
	Air gap	≥ 3 mm
	Creeping distances	≥ 4 mm
	Tracking resistance	CTI ≥ 325
	Approved by	DIN EN 61984 (IEC 61984) UL / ULC E90664, only series MS 941x UL E60678, Wiecon 8105
Materials	Housing	PA, glow wire resistant, GWT 750 °C acc. to IEC 60335-1
	Colour of housing	various colors
	Contact	STOL 78 / CuZn
	Contact finishing	Sn



Wiecon 8105 FU \*

\* Customized connectors, for details please contact Wieland Electric GmbH, Bamberg

[www.wieland-electric.com](http://www.wieland-electric.com)

e-mail: [info@wieland-electric.com](mailto:info@wieland-electric.com)

Phone: +49 951 9324-0

## ECO-DOMO PM

Pitch 5 mm



MS 9450

### Description of system

- Tab connector for flying lead or panel mounting
- Dimensions of housing in accordance with RAST 5 standard specification for domestic appliances
- Mating connector for series ECO-DOMO NF and ECO-DOMO Crimp
- Different polarizing
- Contact via 6.3 mm tabs

### Technical data

Mechanical	Positions	2 - 10
	Pitch	5 mm
	Temperature range	-40 °C ... +130 °C
	Panel thickness	0.8 - 1.0 mm
Electrical	Current rating	max. 16 A
	Nom. voltage	max. 400 V
	Approved by	DIN EN 61984 (IEC 61984)
Materials	Housing	PA, glow wire resistant, GWT 750 °C acc. to IEC 60335-1
	Colour of housing	natural
	Contact	6.3 x 0.8 mm tab
	Contact material	CuZn
	Contact finishing	Sn

# ECO-DOMO CRIMP

Pitch 5 mm



EH 688



## Description of system

### Housings

- Housing with crimp connection
- Dimensions of housing in accordance with RAST 5 standard specification for domestic appliance
- Different polarizing features
- Indirect connector with inside locking device
- Cable exit 90° / 180°



EH 699



## Technical data

Mechanical	Pitch		5 mm
	Positions	EH 699	2 - 5
		EH 688	2 - 8
		EH 788	2 - 6
	Locking features	EH 688 / EH 699	inside
			6.3 FSH
Termination		Crimp technology	
Wire size		0.5 - 1.5 mm <sup>2</sup>	
Insulation-Ø		max. 3.3 mm	
Temperature range	EH 688 / EH 699	-40 °C ... +120 °C	
	EH 788	-40 °C ... +135 / 140 °C	
		(depending on material)	
Electrical	Rated current		16 A
	Rated voltage		250 / 400 V
	Dielectrical strength		≥ 3.0 kV
	Air gap		≥ 3 mm
	Creeping distance		≥ 3 mm
	Approved by	EH 688 / EH 699	DIN EN 61984 (IEC 61984)
		EH 688	UL / ULC E96569
EH 699		UL E306640	
EH 788		UL E306845	
Materials	Contact		CuZn
	Contact finishing		Sn
	Housing		PA, glow wire resistant, GWT 750 °C acc. to IEC 60335-1
	Colour of housing		natural other colours on request



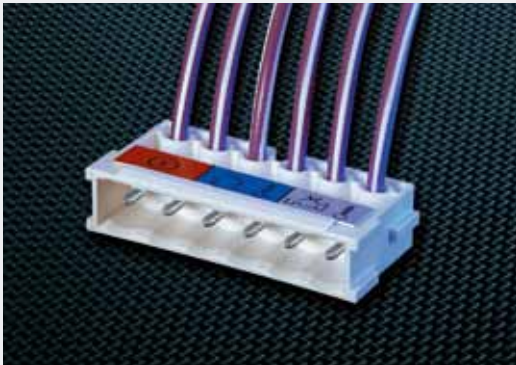
EH 788 Housing for tab 6.3 mm RMB 7831.010

## S-CON 5.08

Pitch 5.08 mm



MA 9510



MA 9508



Wiecon 8213 B \*

### Description of system

- Tab connector for IDC termination as flying lead coupling or for panel mounting application
- Different coding variants on request
- Cable exit 90°, 270°
- Label optional
- Mating counterpart e. g. Wiecon 8213 B\*

### Technical data

Mechanical	Positions	2 - 13
	Pitch	5.08 mm
	Termination	IDC
	Wire size	0.35 - 0.5 mm <sup>2</sup>
	Temperature range	-40 °C ... +110 °C
Electrical	Rated current	max. 6 A
	Rated voltage	250 V
	Dielectrical strength	≥ 2.5 kV
	Insulation resistance	> 10 <sup>9</sup> Ω
	Contact resistance	< 10 mΩ
	Air gap	≥ 4 mm
	Creeping distances	≥ 2.5 mm
Tracking resistance	CTI ≥ 250	
Materials	Housing	PA, glow wire resistant, GWT 750 °C acc. to IEC 60335-1
	Colour of housing	natural
	Associated contacts	RSB 8199
	Contact	CuSn
	Contact finishing	Sn

\* Customized connectors, for details please contact Wieland Electric GmbH, Bamberg

[www.wieland-electric.com](http://www.wieland-electric.com)

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## S-LOCK 6.35

Pitch 6.35 mm



EH 712 with EH 713

### Description of system

- Universal connector system for HVAC market, white goods and industrial electronics
- Application as flying lead assemblies, panel mounting and for PCB connections.
- 2 to 15 positions with crimp contacts and locking feature outside
- Suitable for power connections up to 16 A
- Headers pre-loaded for PCB assembly
- Cable exit 180°
- Coding via contact types
- Clear positioning

### Technical data

Mechanical	Pitch	6.35 mm	
	Positions	In-line	2 - 5
		Multi-row	6 - 15
	Termination	Connector / Counter Part	Crimp
		Headers	Solder
	Wire size	0.34 - 0.82 mm <sup>2</sup> / AWG 22-18	
		0.75 - 2.03 mm <sup>2</sup> / AWB 18-14	
	Locking feature	yes	
Degree of pollution	2		
Temperature range	-40 °C...+ 110 / + 120 °C <sup>1)</sup>		
Electrical	Rated current	max. 16 A	
	Rated voltage	400 V	
	Dielectric strength	2.21 kV	
	Insulation resistance	10 <sup>9</sup> Ω	
	Contact resistance	< 10 m Ω	
	Air gap and creeping distances	≥ 4 mm	
	Tracking resistance	CTI 600 / ≥ 300 <sup>1)</sup>	
	Surge category	II	
	Insulation group	I / III a <sup>1)</sup>	
Approved by	UL E306640 and UL / ULC E96560 VDE tested		
Materials	Contact	CuZn, CuSn	
	Contact finishing	Sn	
	Housing	PA	
		PA, glow wire resistant, GWT 750 °C acc. to IEC 60335-1	
	Colour of housing	natural	
Polarizing	yes		

<sup>1)</sup> Depending on material



## Sensor Plug

Pitch 6.5 mm



MH 2480 with RSB 8186



MH 2480 at temperatur sensor

### Description

- 2-pole sensor plug
- Pitch 6.5 mm
- Loadable with flag receptacles 4.8 mm RSB 8186
- Cable exit 90°
- Locking cap
- Different colours

### Technical data

Mechanical	Positions	2
	Pitch	6.5 mm
	Termination	Crimp
	Wire size	0.5 - 1.5 mm <sup>2</sup> (AWG 20-16)
	Insulation Ø max.	2.8 mm
	Stripping length	4.5 ± 0.5 mm
	Locking feature	Locking cap
Temperature range	-40 °C ... + 110 °C	
Electrical	Rated current	16 A / Contact up to T <sub>Amb</sub> = 64°C
	Rated voltage	250 V
	Oversoltage category	III
	Test voltage	1.39 kV / 60 s
	Dielectric strength at housing material	5 kV
	Insulation group	III a
	Degree of pollution	3
	Tracking resistance	CTI ≥ 325
	Air gap	≥ 1.5
	Creeping distances	≥ 2.5
	Insulation resistance	> 10 <sup>9</sup> Ω
	Contact resistance	< 10 m Ω
	Materials	Contact material
Contact finishing		Sn
Housing		PA, glow wire resistant, GWT 750 °C acc. to IEC 60335-1
Colour of housing		different



MV 2490 with MH 2490

## Description of system

- 1 to 4 poles circular connector
- Round contacts for crimp termination
- Sealed according to IP44
- Two-sided external locking latches
- Possibility of coding
- Single or hose cable
- Cable exit 180°
- Clamping possibility for lateral plate cut out
- Housing rip

## Technical data

Mechanical	Poles	1 - 4
	Termination	Crimp
	Applicable terminals	
	Socket	RBB 8210
	Pin	RTB 8211
	Split pin, low insertion force	RTB 8212
	Wire size	0.35 - 2.03 mm <sup>2</sup>
	Temperature range	-40 °C ... + 120 °C
Electrical	Rated current	16 A
	Rated voltage	250 V
	Dielectric strength	> 2.21 kV
	Insulation resistance	> 10 <sup>9</sup> Ω
	Contact resistance	< 10 m Ω
	Creeping distance	≥ 2.2 mm
	Tracking resistance	CTI ≥ 400
Materials	Housing	PA, glow wire resistant, GWT 750 °C acc. to IEC 60335-1
	Colour of housing	natural
	Contact material	CuZn or CuSn
	Contact finishing	Sn

## Crimp Contacts



Receptacles



Housings

### Crimp contacts in bandolier form

- Receptacles, for tab widths 2.8 mm, 4.8 mm and 6.3 mm  
Versions:  
self locking, permanently engaged, low insertion force, as timer contact, for housings, suitable for RAST 5 housings
- Tabs, tab widths 2.8 mm, 4.8 mm and 6.3 mm
- Printed circuit board contacts
- Tabs for printed circuit board insertion, tab widths 2.8 mm, 4.8 mm and 6.3 mm
- Weld tabs, tab width 6.3 mm
- Open barrel terminals with and without insulation crimp, special versions and as C-type
- End splices
- Sockets
- Circular pins
- Special connectors
- Insulation housings
- Terminating technology



Solderless terminals

### Solderless terminals

- Solderless terminals with and without insulation
- Pin terminals
- Parallel splices
- Butt splices
- Receptacles
- Tabs
- Terminal blocks
- Circular terminals and blocks
- End splices
- Insulation housings
- Terminating technology:  
Cable stripper, hand tools, electrical and hydraulic crimping tools

## Terminating technology



The quality and reliability of an electrical connection depend largely on the terminating technology.

Consequently, STOCKO offers an economical and efficient terminating technique for every product.

Whatever the particular requirements and production quantities are, we offer state-of-the-art tools and machinery.

From a simple hand tool to semi-automated machines and to fully automated machines of modular construction incorporating "Just-in-Time" functions, computer controlled machine operation, automated quality control, modem connection for remote diagnostics, and the option to program sequences in cableform output.

With the object in mind improving our customers' productivity through optimum production rationalization.

A qualified STOCKO team of service engineers is always at your disposal for advice and practical assistance. In an emergency, they attend to prompt machine maintenance and carry out preventative servicing tasks.



1 Service hand tool for IDC connector systems

2 STOCKOMAT ECO-DOMO professional line

Semi-automated terminating machine for connector ECO-DOMO according to RAST 5 specification

3 STOCKOMAT CRIMP professional line

Semi-automatic terminating machine for crimp contacts in bandolier form

4 ECO-MASTER

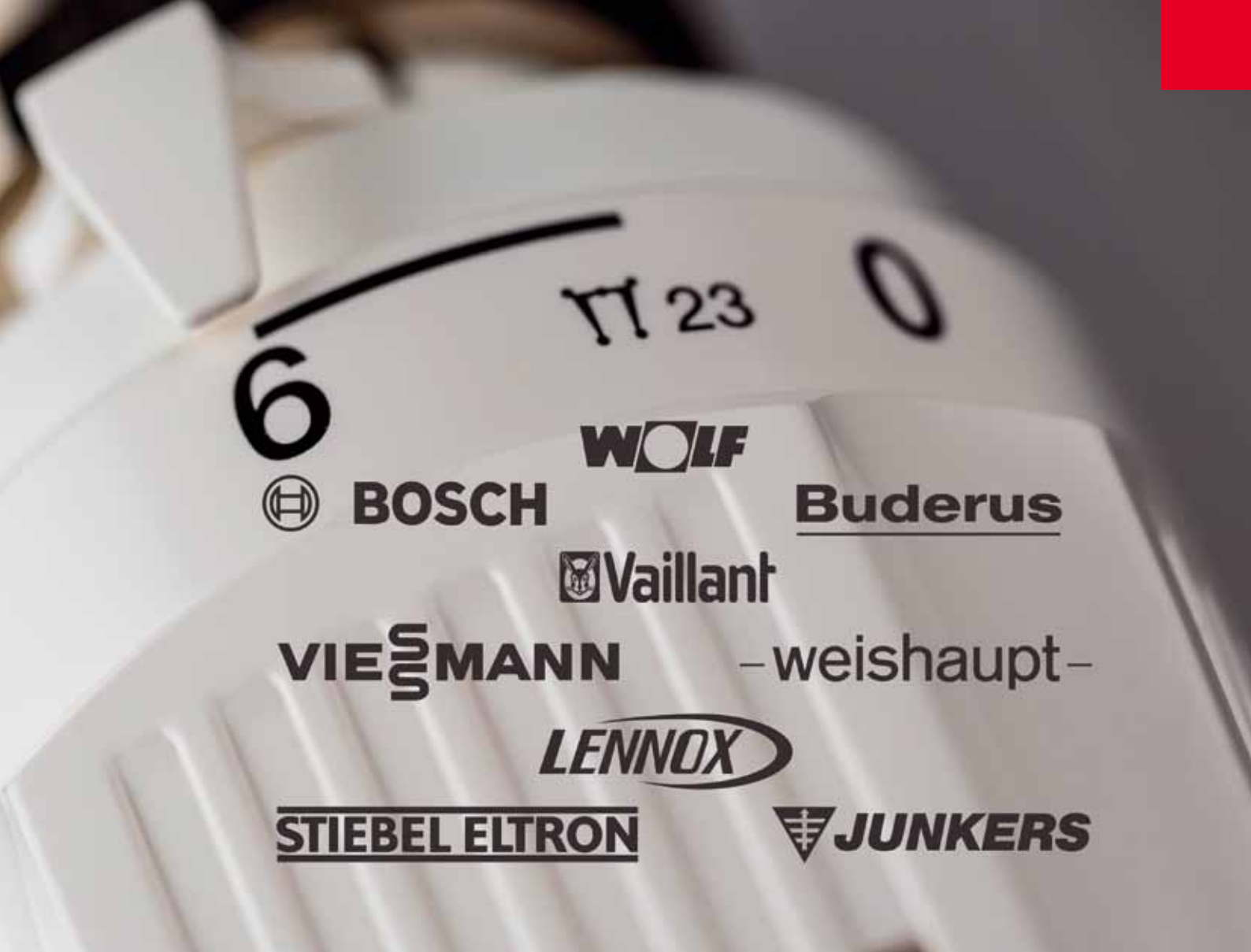
Fully automated terminating machine for connector series ECO-TRONIC, ECO-TRONIC pro and crimp contacts.

## » References «

Companies ordering from STOCKO Contact are multinational concerns and privately owned enterprises. They are customers that are further extending their presence in the various markets of the world and are eager to accept and utilize new technologies.



» Together, we formulate solutions that meet the agreed objectives in every detail. «



**Service and close proximity with our customers has always been a top priority and form an integral part of the STOCKO philosophy.**

Of course, to discuss with our customers their specific requirements and to meet their expectations in the best possible way is part of our flexibility. We wish to offer our customers superior performance characteristics and to support them in their business activities by anticipating future requirements.

Our customers shall be able to rely upon us so that they become true partners eventually. Partners, who we can assist with our know-how and comprehensive knowledge of the markets.

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