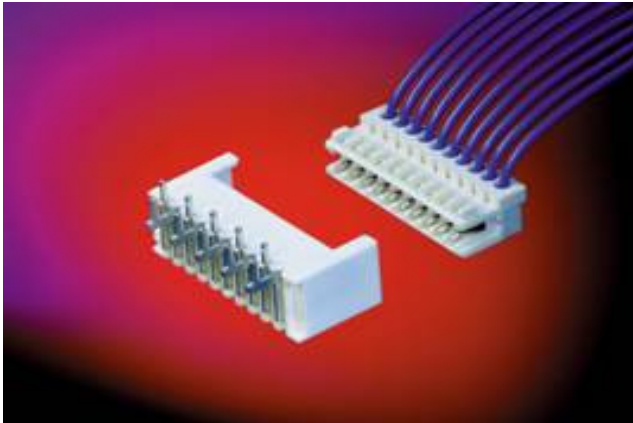


# Product Information



## ECO-TRONIC



### IDC housings:

MF 7234/7235  
MF 7236/7237  
MF 7238/7239  
MF 7242/7243

### Pin connectors:

MS 7230, MS 7231,  
MS 7232, MS 7246,  
MS 7247

Versions for vertical or horizontal PC board assembly



### Panel mounting:

MS 7320

### Pin connector with

snap-in locking device: MS 7250

### Application

- Indirect and direct connectors with IDC termination
- The connector are used in the domestic appliances industries and in many other electronic applications.

### Feature

- In accordance with the RAST 2,5 standard specification for domestic appliances
- Meeting RoHS requirements
- Complex cable assemblies with fully automated terminating capability
- Highly economical
- Cable exit at 90°
- 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



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## ECO-TRONIC

### Technical data

#### Mechanical

Pitch	2.5 mm
Positions	2-20
Termination	IDC
Wire size	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	4 A / 40°C 2 A / 105°C
Rated voltage	Pitch 2.5 mm: 32 V Pitch 5 mm: 250 V
Dialectical strength	Fully assembled 2.5 mm: 1.4 KV Partially assembled 5 mm: 2.8 KV
Insulation resistance	> 10 <sup>9</sup> Ohm
Contact resistance	< 10 m Ohm
Air gap and creeping distances	Pitch 2.5 mm: > 1 mm Pitch 5 mm: > 3 mm
Creeping strength	CTI ≥400
Approved by	DIN EN 61984 (IEC 61984) UL/ ULC E96569

## ECO-TRONIC

### Technical data

#### Materials

Contact

Socket: CuSn, Cu-alloy

Pin: CuZn

Contact finishing

Socket : Sn, Au

Pin: NiSn

Housing

PA, glow wire resistant, GWT 750 ° C  
acc. to IEC 60 335-1

SMT pin connector

PPA, glow wire resistant, GWT 750 ° C  
acc. to IEC 60 335-1

Color of housing  
Polarizing

natural  
to RAST 2.5

#### Wire extraction force

Wire size

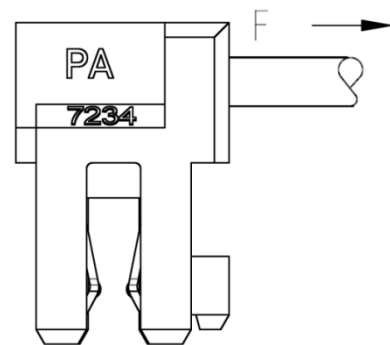
pull-out strength

0,22 mm<sup>2</sup>

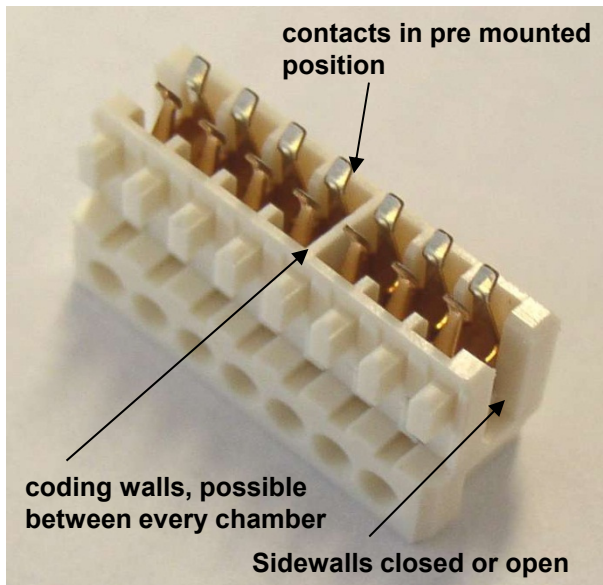
> 30 N

0,35 mm<sup>2</sup>

> 30 N



## ECO-TRONIC



### IDC housing

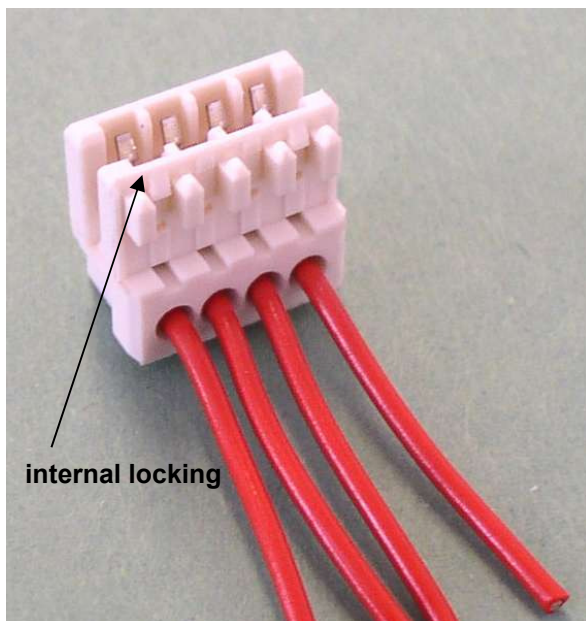
**MF 7234** 2 to 20 ways

### Standard housing

- pluggable on PCB
- pluggable on pin connector

### MF 7235

- The only difference to series MF 7234 is the open line channel.



**MF 7236** 2 to 20 ways

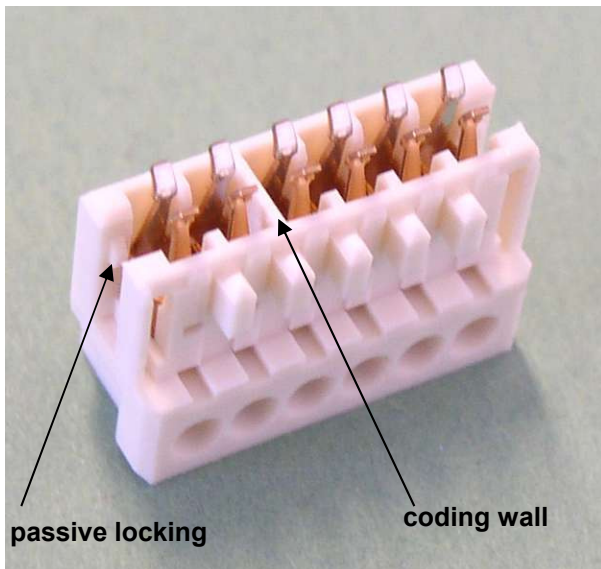
### Housing with internal locking

- suitable for Pin Connector Series 7231, without locking ledge

### MF 7237

- The only difference to series MF 7236 is the open line channel.

## ECO-TRONIC



### IDC housing

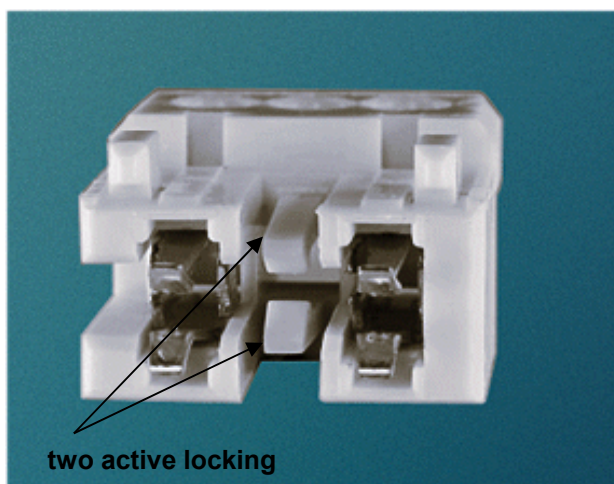
**MF 7238** 2 to 20 ways

### Housing with passive locking

- pluggable direct to PCB
- no missing pitch

### MF 7239

- The only difference to series MF 7238 is the open line channel.



**MF 7242** 3 to 20 ways

### Housing with active locking

- pluggable direct to PCB
- missing pitch

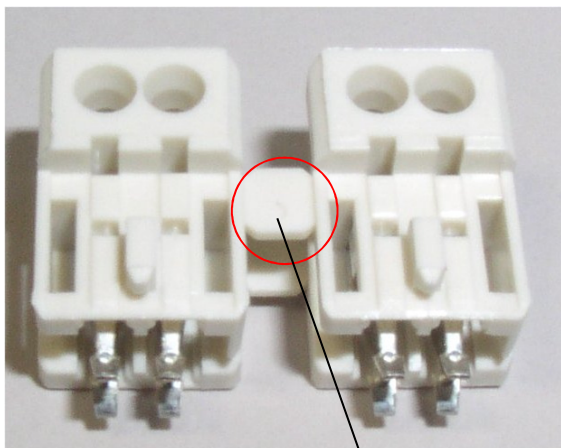
### MF 7243

- The only difference to series MF 7242 is the open line channel.

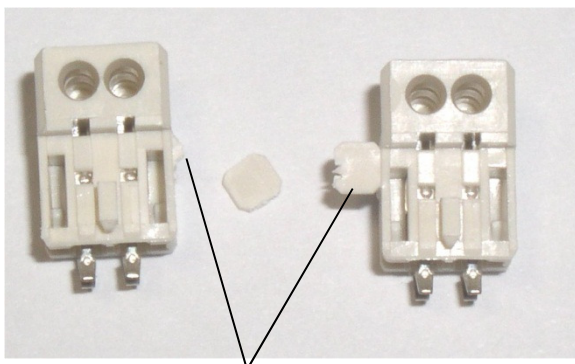
# Product Information



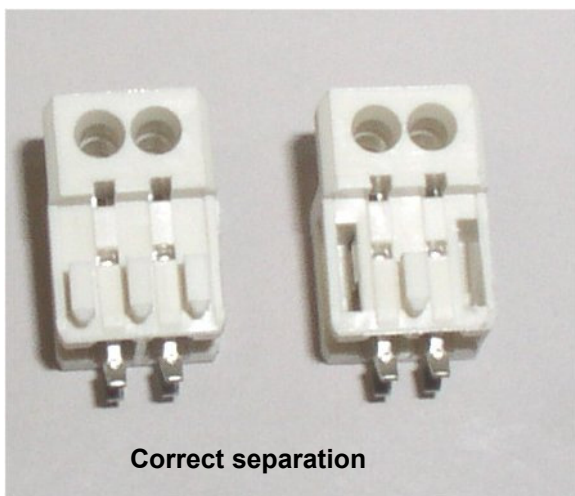
## ECO-TRONIC



2-way housing in chain



**Breaking points, no correct separation!**  
remainder-cut off on the housing



**Correct separation**

### The 2-way housings of series

**MF 7234**

**MF 7235**

**MF 7238**

**are only available as 2 housings in chain**

The separation of the housings takes place via  
Removing the bar between the housings.

This can be done:

- a) through breakup by hand
- b) with a cutting tool (e.g cutter)

### **Attention:**

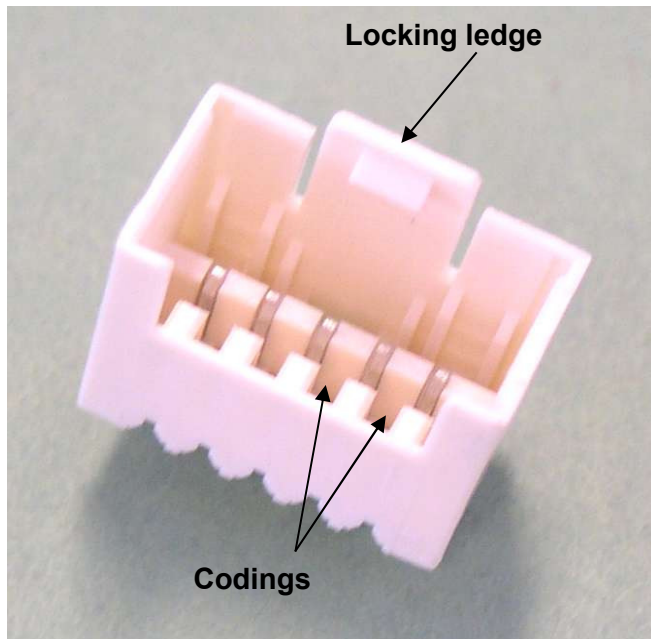
when breaking the bar, it may not come to  
damages of the housing!

And it may no remainder-cut off on the housing!

# Product Information

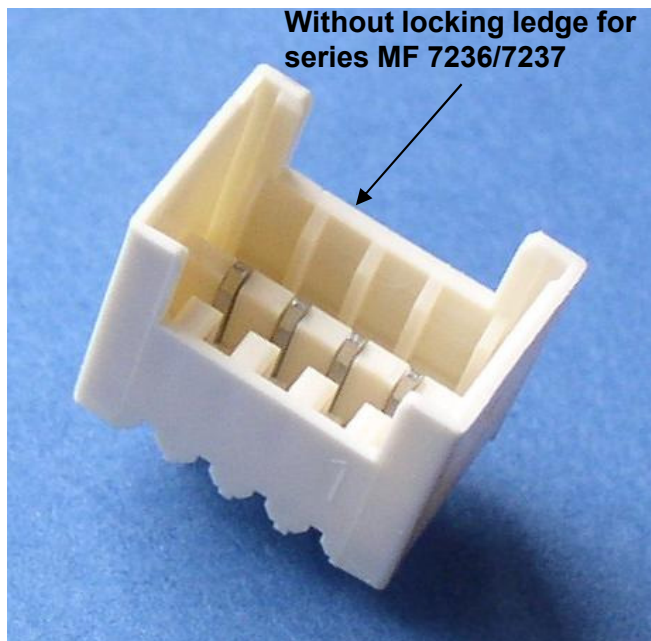


## ECO-TRONIC



### Pin connectors

**MS 7230**     **3 to 20 ways**  
for vertical connections

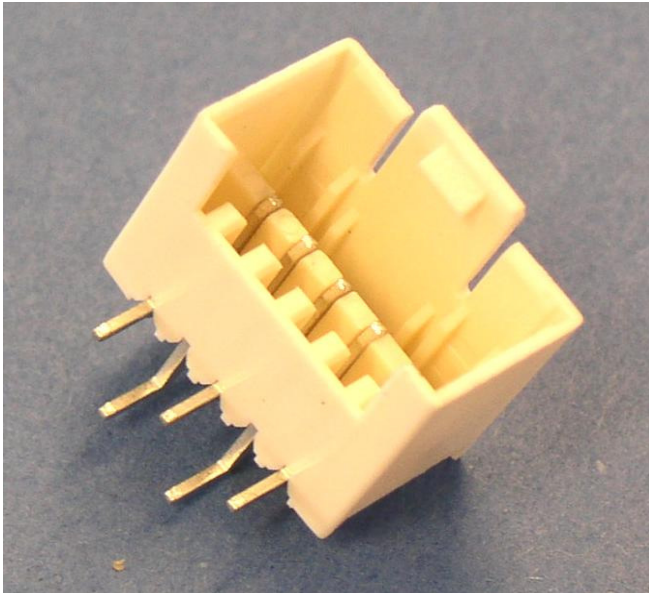


**MS 7231**     **3 to 20 ways**  
for vertical connections

# Product Information



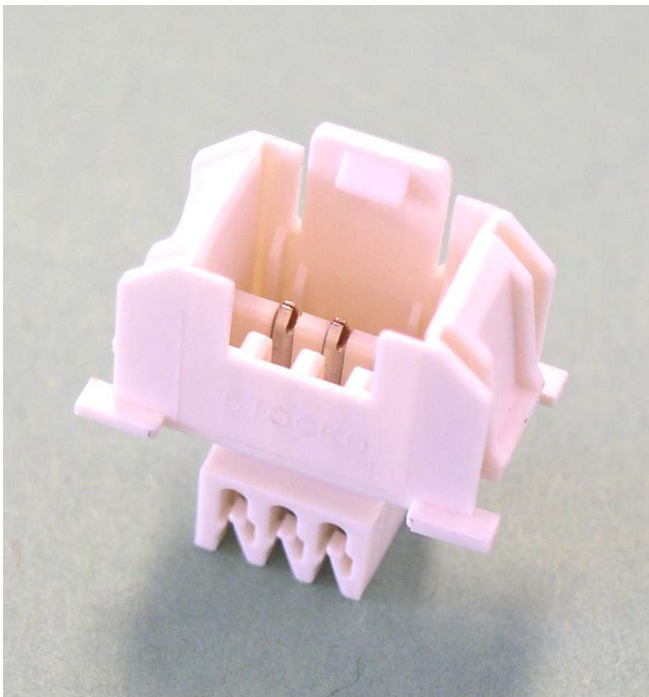
## ECO-TRONIC



### Pin connectors

**MS 7232**     **3 to 20 ways**

for horizontal connections



### Pin Connectors

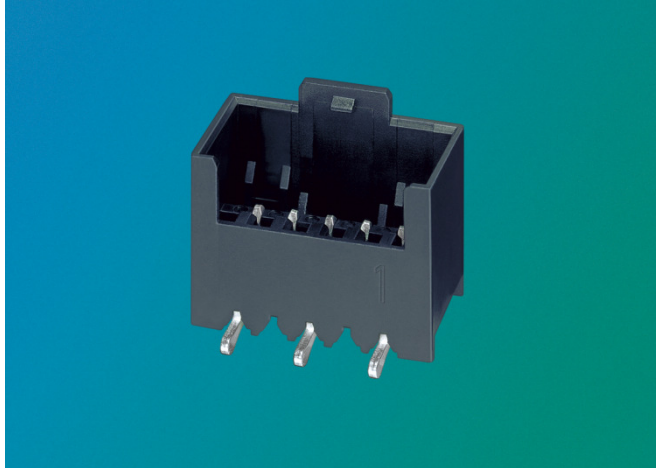
for entry through back panel

**MS 7320**     **3 to 12 ways**

- with IDC termination
- with locking ledge
- for 0.8 mm thickness



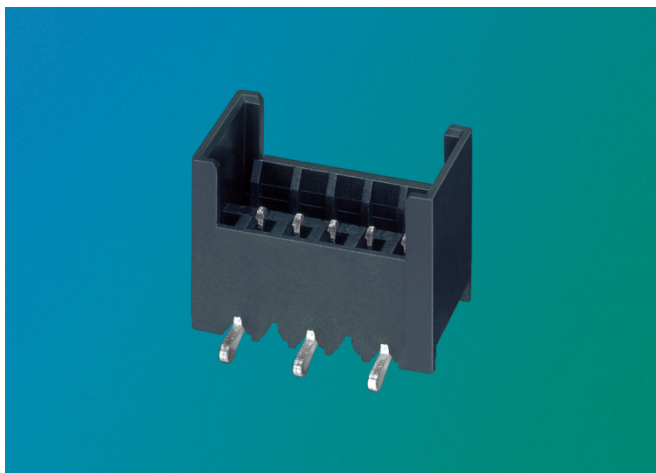
## ECO-TRONIC



### Pin connectors SMT

**MS 7246** 3 to 10 ways

for vertical connections, with locking ledge

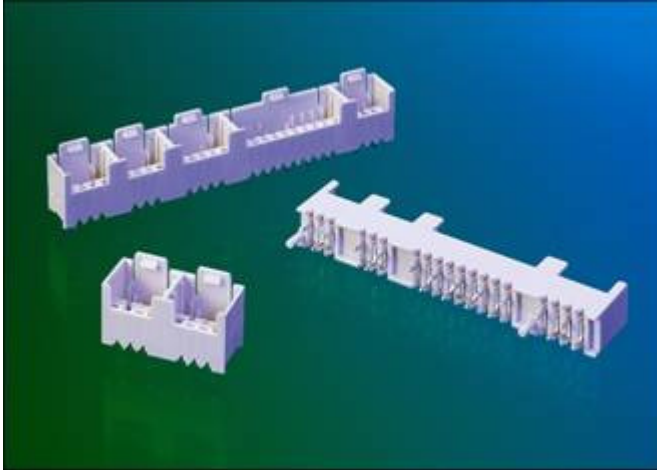


### Pin connectors SMT

**MS 7247** 3 to 10 ways

for vertical connections, without locking ledge

## ECO-TRONIC

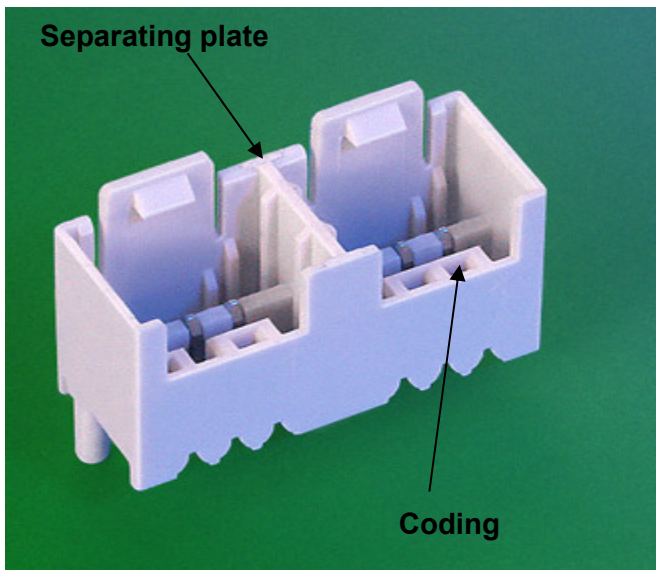


**Pin Connectors with snap-in locking device**

**MS 7250**

for vertical connections

6-10-12 and 22- ways versions

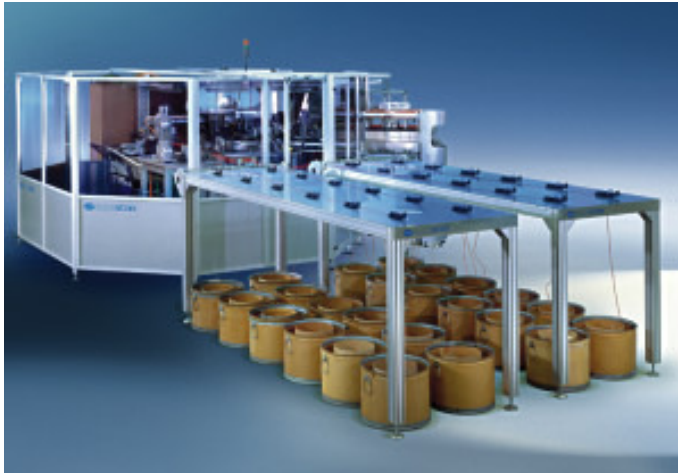


# Product Information



## ECO-TRONIC

### Terminating Technology



#### ECO-STAR

Fully automated terminating machine for connector series ECO-TRONIC, ECO-TRONIC pro and ECO-DOMO FT



#### ECO MASTER

Fully automated terminating machine for connector series ECO-TRONIC, ECO-TRONIC pro, ECO-DOMO FT and optional crimp contacts



#### InTeCon ECO-TRONIC

Fully automated terminating machine for connector systems ECO-TRONIC, ECO-TRONIC pro

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# Product Information



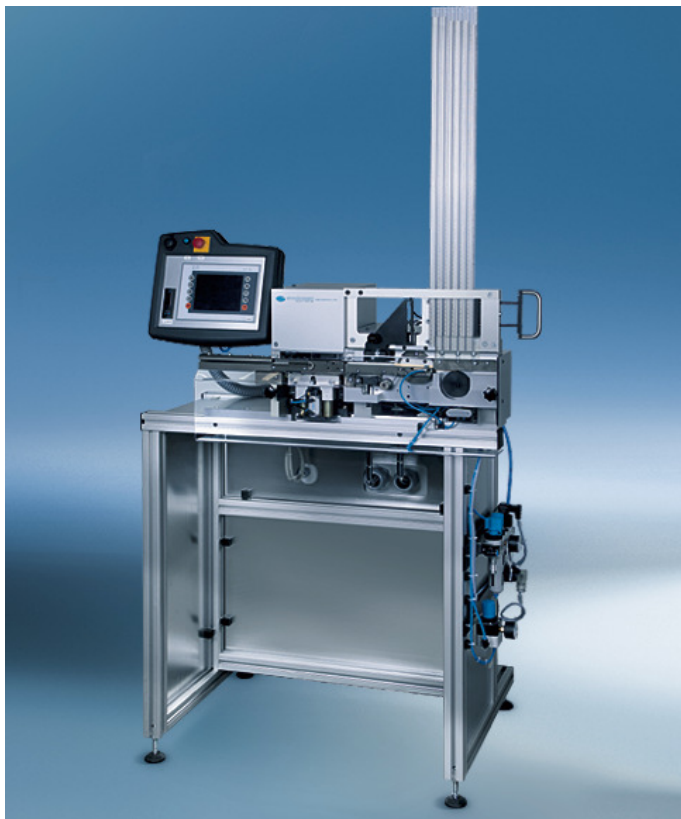
## ECO-TRONIC

### Terminating Technology



#### **Komax ZETA 633**

Attaching STOCKOMAT ECO-TRONIC professional line respectively to crimping automaton ZETA 633 for a fully automated single sided IDC termination.



#### **STOCKOMAT ECO-TRONIC** - professional line - premium line

#### **WT 165**

Semi automated system for the insulation displacement termination of ECO-TRONIC and ECO-TRONIC pro housings

# Product Information



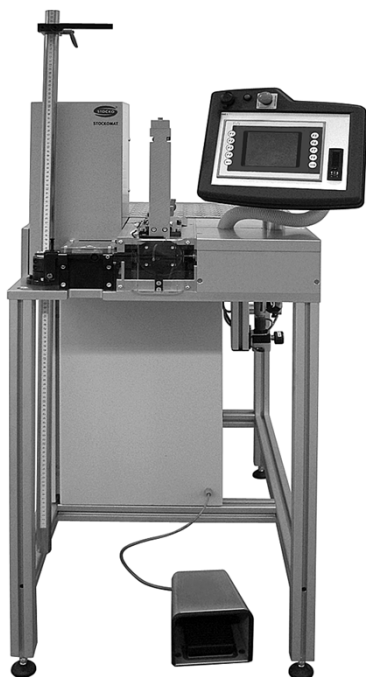
## ECO-TRONIC

### Verarbeitungstechnik



#### **STOCKOMAT ECO-TRONIC economy line WT 365**

Semi automated system for terminating connector systems ECO-TRONIC, ECO-TRONIC pro



#### **STOCKOMAT ECO-TRONIC daisy chain xtra line WT 375**

Semi automated system for terminating of ECO-TRONIC daisy chain connectors

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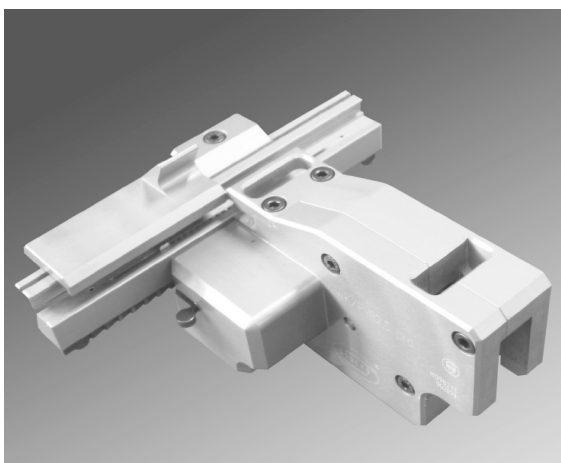
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# Product Information



## ECO-TRONIC

### Terminating technology

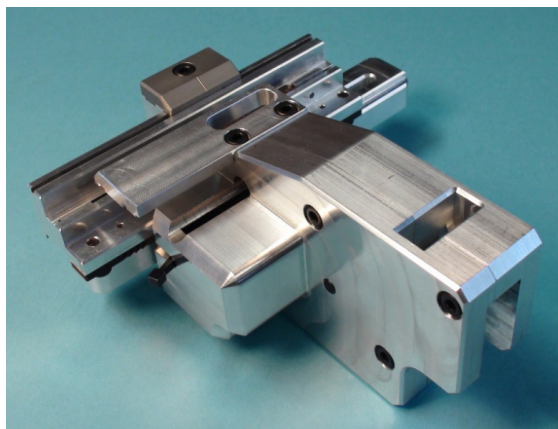


#### Tool head

#### WK/P-R2,5

for ECO-TRONIC connector systems

This tool can be driven with the hand grip WZ 63 and hand lever press WT 3.



#### Tool head

#### WK/P-ET B

for ECO-TRONIC daisy chain connector systems

This tool can be driven with the hand grip WZ 63 and hand lever press WT 3.



#### Service hand tool

#### WZ / P-R 2,5 pro

for connector systems ECO-TRONIC and ECO-TRONIC pro

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# Product Information



## ECO-TRONIC

### Terminating technology



#### WZ 111 R 2,5 S

for ECO-TRONIC panel mount connectors .  
Only for terminating single wires.

#### WT 3

Hand lever press for  
tool heads



#### WZ 63

Hand grip for tool heads



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