

ECO-TRONIC PL



**CONNECTOR SYSTEM  
ECO-TRONIC POWER LOCK**

With **ECO-TRONIC PL** we have a connector system which is suitable for classical FR4 PCBs.

The demands of different areas of application, in particular of the automobile industry, were considered by the constructive design. So retention force to the PCB is minimum 80 N .

By the performance profile this series is suited particularly for uses in the areas of lighting and display contacting. For uses like the contacting of actuators, it is suited too.

The contact design guarantees a stable mechanically and electrically connection between contact and conductor with 0.22 mm<sup>2</sup> and 0.35 mm<sup>2</sup>.

Displace security by polarisation elements and mechanical barriers against damage of contacts by disoriented mating ensures the quality of the connection in the use and in the application.

In addition an automatic processing of the connector system ensures the high quality standard over the whole manufacturing process.

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# ECO-TRONIC PL



## CHARACTERISTICS

### General

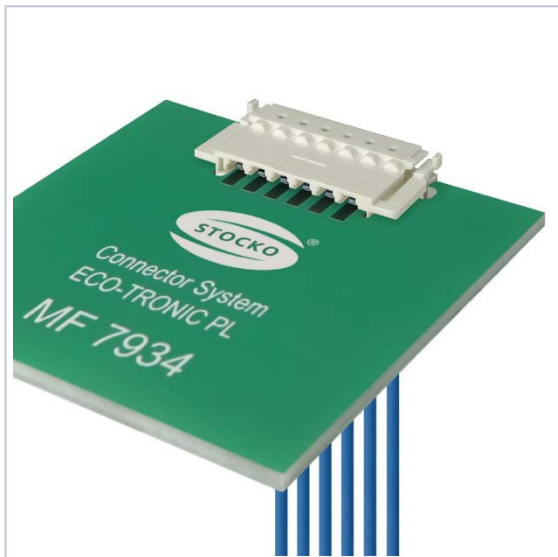
- Article number MFVV 7934
- Direct connector system
- Pitch 2.50 mm
- Colour of housing nature
- Fulfils requirements of automotive
- Coding
- Lock between plug and PCB
- The end position of the insertion is tactile
- Duration ambient temperature 120 °C (tin)
- Fulfils the list of illegal basic materials acc. to REACH
- GWT 750 °C acc. to IEC 60335-1

### Housing

- Premounted contacts
- Wire outlet 90°
- Wire size 0.22 mm<sup>2</sup> and 0.35 mm<sup>2</sup>
- Sidewalls always closed
- Packaging in magazine
- Termination of wire by automatic machine possible

### Contact

- Surface finishing Sn or Au
- IDC-technology
- Adaption of the PCB by two spring arms



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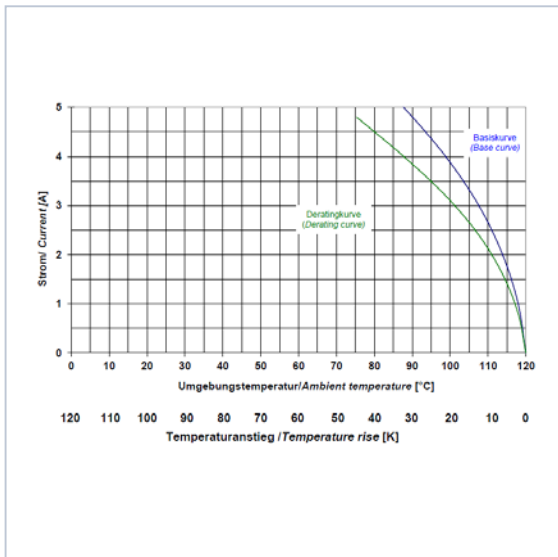
TECHNICAL DATA

Mechanical

- Pitch 2.50 mm
- Positions 3 – 12
- Dimension see drawing
- Contacting of cable IDC-technology
- Board thickness 1.50 ±0.14 mm  
1.60 ±0.14 mm
- Wire size 0.22 mm<sup>2</sup> and 0.35 mm<sup>2</sup>
- Insulation-Ø ≤ 1.4 mm
- Hardness of insulation max. Shore A 90° ±5
- Type of wire solid, stranded
- Operating temperature -40 °C ...+120 °C (tin)
- Insert cycles 5
- Max. angle of insert ±3°

Electrical

- Current rating 4 A (85 °C/0.35 mm<sup>2</sup>)
- Nominal voltage (IEC 60664/ level 2) 32 V (pitch 2.5 mm)  
250 V (pitch 5.0 mm)
- Dielectrical strength 1.40 kV (pitch 2.5 mm)  
2.80 kV (pitch 5.0 mm)
- Insulation resistance > 10<sup>3</sup> MΩ
- Contact resistance < 10 mΩ
- Air gap and creeping distances > 1 mm (pitch 2.5 mm)  
> 3 mm (pitch 5.0 mm)
- Tracking resistance CTI ≥ 400



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## TECHNICAL DATA

### Material

- |                                |             |
|--------------------------------|-------------|
| ▪ Contact                      | Cu-alloying |
| ▪ Surface finishing of contact | Sn/sel. Au  |
| ▪ Housing                      | PA nature   |

### Approval

- acc. to LV 214
- acc. to USCAR2

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