

ECO-TRONIC IMS



CONNECTOR SYSTEM ECO-TRONIC IMS

With **ECO-TRONIC IMS** it concerns a connector system which is suitable for classical FR4 PCB and for IMS PCB.

The demands of different areas of application, in particular of the automobile industry, were considered by the constructive design.

By the performance profile this series is suited particularly for uses in the areas of LED lighting and display contacting. For uses like the contacting of sensors and 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.



## CHARACTERISTICS

### General

- Article number
  - Connector: MFVV 7738
  - Isolation comb: MV 7640
- Direct connector system
- Pitch 2.50 mm
- Colour of housing nature
- Interface according to Rast 2.5
- Fulfils requirements of automotive
- Polarisation and codings
- Lock between plug and PCB
- The end position of the insertion is tactile
- Duration ambient temperature max. 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>
- Packaging in magazine
- Termination of wire by automatic machine possible

### Contact

- Surface finishing Sn
- IDC-technology
- Adaption of the complete contact force by two spring arms (arm of rear side of the PCB will be insulated by insulation of contacts)

### Insulation of contacts

- Dependent on pole number
- Loose (insulation of contacts)

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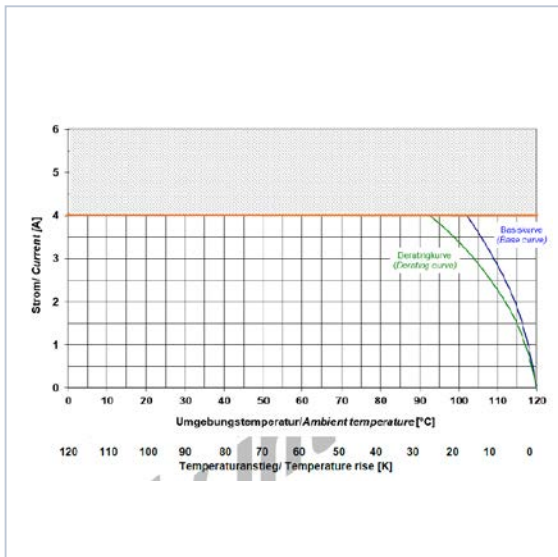
TECHNICAL DATA

Mechanical

Pitch	2.50 mm
Positions	3 – 12
Number of contacts	2 – 11
Dimension	see drawing
Contacting of cable	IDC-technology
Board thickness	1.00 ±0.10 mm 1.50 ±0.10 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
Dielectrical strength	0.50 kV
Insulation resistance	> 10 <sup>3</sup> MΩ
Contact resistance	< 10 mΩ
Air gap	0.25 mm
Creeping distances	0.60 mm
Tracking resistance	CTI ≥ 400



\* on request



## TECHNICAL DATA

### Material

Contact	Cu-alloying
Surface finishing of contact	Sn
Housing	PA nature

### Approval

acc. to LV 214	for HAL PCB
	for chem. Sn (in preparation)
acc. to USCAR2	in preparation



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