Marking systems

Marking systems

A printing system for terminals, wires and devices

Versatile and rapid creation of individual markers with the MultiCard system enables you to save time and costs when marking your electrical installation.

Weidmüller's MultiCard concept is a standardised, innovative printing system with more than 100 marker variations for terminal connectors, wires and cables as well as devices and installations from a wide range of manufacturers.

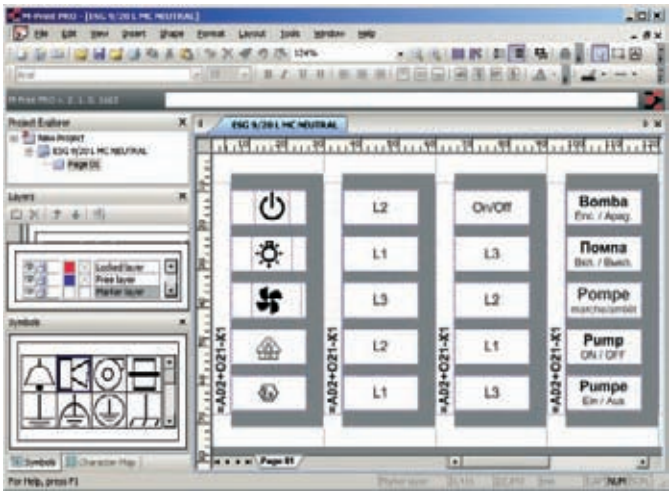
The MultiCard marking system consists of a coordinated combination of:

MultiCard printers

Weidmüller developed the **PrintJet** and **SpeedMarking Laser** printers specially for the MultiCard concept. No compromises were made with regard to printing quality, printing speed or operating convenience. All of the advantages of modern-day printing technology have been optimised to suit the MultiCard system.

MultiCard software

Using the software **M-Print® PRO**, you can plan individual printing of single MultiCard strips. Irrespective of the sequence of the characters, it is possible to prepare markings for whole blocks of terminals in advance. You only need to create the markers you currently need – and in the order the assembly dictates. And that prevents time-consuming, puzzling games during installation procedures!



The benefits to you

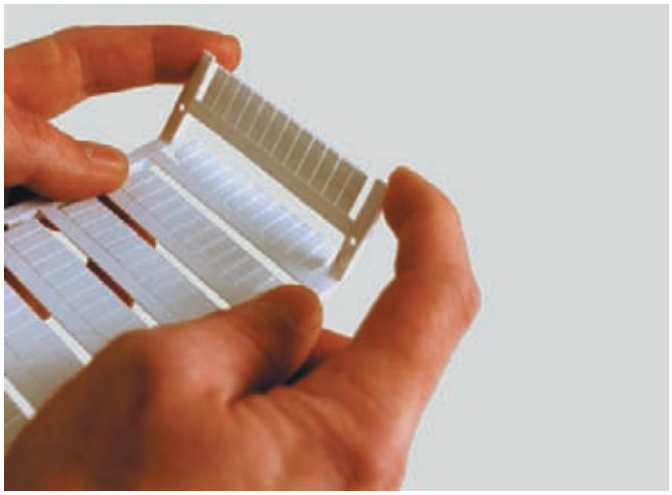
- Excellent printing quality
- Fast printing
- Wipe-proof, scratch-resistant markers

The benefits to you

- Individual planning of labelling
- No need for stocks of preprinted labels
- Easy integration of graphics
- Data transfer from CAE systems
- Ideal for creating, printing and ordering markers and labels

MultiCard markers

The uniform format of the strips for individual markers forms the heart of Weidmüller's MultiCard concept. Supplied in strips, individual tags can easily be separated thanks to knockout perforations, or mounted as complete strips in a single action to save time.

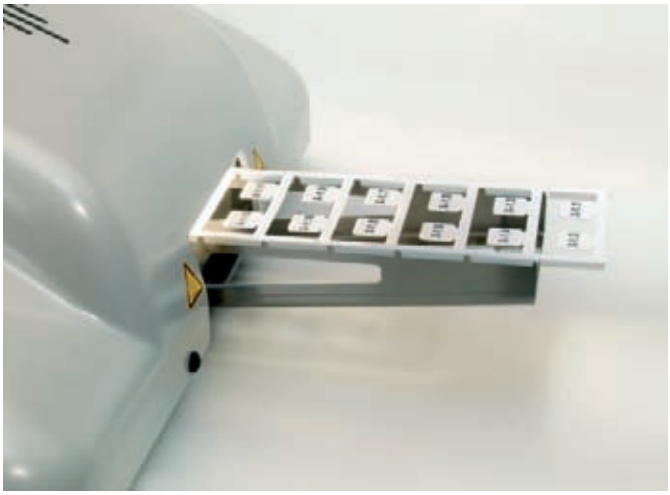


The benefits to you

- Variations to suit all your marking needs
- Mount as individual tags or together in strips
- Cut mounting times and effort
- Excellent material characteristics
- No scraping tags together during installation

Everything from a single source

Utilising Weidmüller's MultiCard concept allows you to create practically all markings for terminal connectors, cables and devices of various makes with a single system. The perfectly harmonised combination of software, printer and markers guarantees the best possible printing quality and rapid results. Making use of this combination from a single-source supplier, allows you to cut back your logistics and reduce your storage requirements.



The benefits to you

- Individual components – optimised and coordinated
- One printing system for all applications
- One supplier
- Cut back logistics and reduce storage requirements

Materials

Material	Description
Polyamide	Polyamide (PA) is one of the most common commercial plastics. The advantages of this material are its very good electrical and mechanical properties, its flexibility and resistance to breakage. Furthermore, owing to its chemical structure, PA achieves good fire resistance even without the use of flame-retardant agents. **Temperature range:** **–40 °C to +100 °C**
PVC	Plasticised PVC is manufactured from polyvinyl chloride and softeners together with additives like stabilisers and lubricants. It is generally transparent but can be dyed any colour. PVC is resistant to corrosive salt solutions and the majority of acids and alkalis. Owing to its chemical structure, raw PVC resists ageing and is not attacked by oxygen or ozone **Temperature range:** **–30 °C to +80 °C**
Polypropylene	Polypropylene (PP) belongs to the polyolefins group of materials. These partially crystallised synthetic materials are distinguished by their good chemical resistance and good electrical properties. PP can be attacked by strongly oxidising chemicals. **Temperature range:** **–40 °C to +80 °C**
Stainless steel	SS 2348 corresponds to Al Si 316 and steel grade 1.4404. This acid-resistant steel contains at least 17 % chromium, 11 % nickel and 2 % molybdenum. The material exhibits good weathering resistance in salt-laden and moist atmospheres and does not corrode in the presence of acids. **Temperature range:** **–80 °C to +500 °C**

Owing to the sheer number of possible applications and environmental influences such as moisture, radiation, gases or heat/cold to which the products can be exposed, Weidmüller accepts no liability for the suitability of products in all customer applications. Suitability tests for specific applications must therefore be carried out by the customer. However, Weidmüller will be happy to provide help and advice upon request.

Weidmüller tests and test procedures

Tests	Test conditions/requirements
Materials test	Flammability in accordance with UL94-V0 Shore A hardness test A – ISO 868 Surface resistance – DIN IEC 60093
Ageing	All marker materials are tested for their ageing resistance. Weidmüller test specification LPV 2216.
Function test of PTFE and PVC wire insulation	Suitability of markers for installation at temperatures between –10 °C to +40 °C. Correct attachment test of the respective marker size for the smallest to the largest wire diameter. Test for symmetry of the marker on the wire
Vibration resistance on carrier	Vibration test, industry, in accordance with: DIN EN 60068-2-6, sinusoidal (3 axes, 10 cycles per axis, acceleration 5g, frequency 10-500 Hz, sweep rate 1 octave/minute) Weidmüller test specification – LPV 2272
Wipe resistance	Resistance of the print against the affects of hand perspiration, machine oil, water and ethanol. A slight alteration is permissible; however, clear identification (legibility) must be guaranteed. In the case of printing subject to VDE 0611 pt 4 (rating plate details), the wipe resistance against water and mineral spirits is to be tested for a period of 15 minutes. Standards: DIN VDE 0611-4 / Pt. 3.1.3 DIN EN 60947-1/ Pt. 5.1 DIN EN 60742, CEI 16-7 Weidmüller test specification – LPV 2166
Scratch resistance	No scratches may be visible on the base or the carrier following the fingernail test. A slight alteration is permissible; however, clear identification must be guaranteed. Weidmüller test specification – LPV 2165
UV light resistance	The function must be guaranteed. The print or colour of the product must be clearly recognisable. Standard: DIN EN ISO 4892-2; Weidmüller test specification – LPV 2216
Chemical resistance of the print	Weidmüller test specification – LPV 2167