Corporate Standard

	MAT-Label Specification HELLA Specific Requirements	HELLA Norm HN67600-01

Contents

1   Process assignment acc. to HP-CMS

Business Process: Procurement and Supplier Management (PS)
Main Process: Supplier quality process (PS4)
Sub Process: Release process for electronic components (PS4-20)

2   Purpose and scope

This HELLA Norm HN67600-01 applies to all HELLA companies worldwide and describes specific requirements concerning the MAT-Label Specification.

3   Normative references

MAT - Label (Version 2.6)   Requirements on Marking of Goods and Accompanying Information for Purchased Production Parts

4   MAT-Label print-out style-sheet

The MAT-Label specification contains a number of recommendations for the print-out style sheet. (See Mat Label Specification mentioned in chapter 6). For HELLA, please use **example #1** from Appendix A from "MAT-Label, Version 2.6: Requirements on Marking of Goods and Accompanying Information for Purchased Production Parts" (stored in NIS) as basis for your print-out style sheet. If your smallest package unit requires a smaller size label please use **example #2**.

Please note that the print-out style sheet is not fixed but may be modified according to your printer, label size/format, etc., if necessary. In any case, please observe the following points during the creation of your print-out style-sheet:

- as 2D-Code, HELLA requires the Data Matrix code type (see specification chapters 8.1). The PDF 417 code type is not permitted for HELLA.
- the information fields, which have to be printed as clear-text are given in the table in chapter 7
- include the BC128 barcodes (see chapters 8.2)

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During the creation of your print-out style sheet, please note the information on how to create print-out style sheets as given in chapter 6.1 of the MAT-Label Specification, Version 2.6.
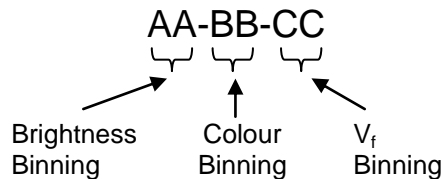
5   Data Field „Additional Part Information"

The data field „Additional Part Information" (MAT-Label Specification, chapter 7, number 9: "Additional Part Information") is intended to be used flexibly for different specific cases, e.g. for brightness classes for LEDs.

Please fill this data field as defined in the following:
- **LED (Light Emitting Diode)**
  For LEDs, the data field „Additional Part Information" must be filled by a code according to the following rule:

As binning formalism, the LED manufacturer's binning has to be used.

Use the minus sign as separator. No spaces allowed.

Giving a range of binnings is not allowed. The bin of the LEDs which are contained in the smallest package unit must be described exactly by the given binning information.

If the LED contains several chips, then concatenate the binning-information for the individual chips separated by a „+" symbol. The order of the binning-Information for the individual chips must then correspond to the order in the data sheet.
Example for a 2-chip LED: „AA-BB-CC+DD-EE-FF"

The binning code may have more or less characters for a binning than the indicated 2 characters in the above example. The maximum number of characters for the data field "Additional Part Information" must not be exceeded.

For LEDs, this data field „Additional Part Information" must also be printed as plain text on the MAT-Label.

- **Other components**
  For components other than LEDs, there is currently no requirement to fill the data field „Additional Part Information". Please leave it empty but include the data identifier and separator in the 2D-code.

6   Data Field „Manufacturer Number"

For electronic components, HELLA has defined a unique manufacturer number for each released manufacturer at HELLA.
This manufacturer number must be given in the data field „Manufacturer Number" (MAT-Label Specification, chapter 7, number 6: "Manufacturer Number").
Please obtain your manufacturer number from your technical contact at HELLA.

7   Data Field „Customer Part Number"

In the data field „Customer Part Number", please format the HELLA Part Number (SAP Material Number) with dot and minus sign.
This format corresponds to the standard format in purchase orders (MAT-Label Specification, chapter 7.2).
Example: „123.456-78".

8   Data Field „Ordering Code"

If no "Ordering Code" is used for the part (e.g. for electronic components), please repeat the „Customer Part Number" in the data field „Ordering Code".

9   Data Field „Revision Level / Index"

If no "Revision Level" or "Index" is used for the part (e.g. for electronic components), please leave this data field empty.

10   Changes made since the previuos edition

New Edition:

Chapter 4: References to the Mat Label Specification document has been updated:
-   Example numbers and chapter numbers have been modified, as the revised Norm makes reference to the new version (2.6) of the MAT – Label document.

Chapter 5: References to the Mat Label Specification document has been updated:
-   Chapter number has been modified (reference to chapter 5.3 changed to chapter 7), as the revised Norm makes reference to the new version (2.6) of the MAT – Label document.

Chapter 6: References to the Mat Label Specification document has been updated:
-   Chapter number has been modified (reference to chapter 5.3 changed to chapter 7), as the revised Norm makes reference to the new version (2.6) of the MAT – Label document.