

BESKRIVNING

Prepared (also subject responsible if other)		No.		
HCI/T	Jens Samuelsson	HCI-0418		
Approved		Date	Rev	Reference
HCI/T	Jens Samuelsson	2017-04-13	D	

Packing & Marking Instruction

Contents

1	General	1
2	Material	1
3	Marking	2
3.1	Bar code and 2D	2
3.2	Symbols	3
3.3	Text	3
3.4	Marking on products	4
3.5	Marking on packages	5
4	Packing	6
5	References	7
6	Revision history	7

1 General

This instruction describes general requirements for packing and marking of products. It should be applied when no other specific packing and marking instructions are described in product specifications.

Recycling of materials is taken into consideration. Methods for marking and package are chosen such that the impact on the environment is minimized.

Materials shall fulfill RoHS (2011/95/EU) and REACH (1907/2006/EG).

2 Material

Label according to this document should be used for marking of product on smooth areas, which are not coated with silicone, resin or waxed. Surfaces such as:

- Corrugated cardboard and plywood.
- Powder coated steel.
- Cables jackets with Polyethylene.

Adhesive: Permanent.

Color: White.

Temperature: -40°C to +85°C.

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Air temperature tests according to ETSI EN 300 019-2-2 T2.3, table 5 (IEC 60068-2-14 test Nb).

Humidity tests according to ETSI EN 300 019-2-1, T1.3 E, table 6 (IEC 60068-2-56 test Cb).

Water tests according to ETSI EN 300 019-2-1 T1.3 E, table 6 (IEC 60068-2-18 test Rb).

Abrasion test shall be done on corrugated cardboard and plywood according to IEC 60068-2-70 test Xb.

The adhesive shall be tested on surfaces, mentioned in sections 4.5.1, 4.5.2 and 4.5.3, according to ASTM D 1000.

The recommended adhesive measure for approval

- product and cable 0,15kN/m
- packaging 0,30kN/m

3 Marking

3.1 Bar code and 2D

Code 128 is the bar code to be used for information on the labels.

When information is to be coded in a 2D the PDF417 or Compact PDF417 is to be used.

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3.2 Symbols

Symbols and information related to the handling of packaging and its content shall be suitable placed outside of the package.



Figure 1

Marking of plastic components shall be done according to international harmonized plastic marking, ISO 11469 (material abbreviation under symbol) and SPI code (number in symbol), see Figure 2.

For components using other materials the recycling symbol (acc. to ISO 7000) shall be used and when applicable combined with material codes together with requiring standard GB 18455-2001 as reference, (i.e. material not defined with material codes shall only be marked with the recycling symbol), see Figure 3.

All boxes containing wood shall also be marked with the symbol for HT/KD treatment or fumigation and debarked, DB, see Figure 4.

When ESD bag is used, relevant ESD symbol must be marked on the bag.



Figure 2. Plastic symbol Figure 3. Recycling symbol Figure 4. General ISPM15

The supplier may place other environmental symbols on other surface not visible when the box is put together.

3.3 Text

The information contained in the labels shall correspond to the information given in purchase order. Printing such as text, symbols etc. should be black colored.

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3.4 Marking on products

Each product shall be marked with suitable labels. Recommended labels and sizes, see following figures. The size of label can vary depending on product.



Small piece parts (such as adapters, connectors, screws etc) which are packed in multiple numbers in same package, does not need any individual label. Only a label on the package is needed.

CE – marking and WEEE – marking must be applied on labels for products that are covered by those standards.



Figure 5. Label for cable assembly. Size: 86x22mm alt. 36x76mm (LZF 083 278/n).



Figure 6. Label for ODF units, closures, cabinets, tools etc. Size: 43x10mm (LZF 083 204/3).

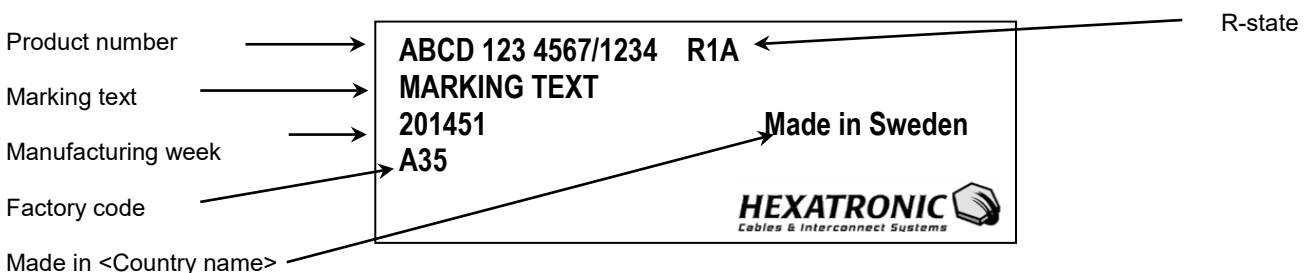


Figure 7. Label for ODF units, closures, cabinets, tools etc. Size: 68x22mm (LZF 083 257/n).

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3.5 Marking on packages

A product packaging marking can also be a duplication of an existing product marking label if it includes country of origin (Made in) and CE-marking and WEEE-marking when needed.



Each package, plastic bag, reel etc. shall be marked with suitable labels. Recommended labels and sizes, see following figures. The size of label can vary depending on package.

CE – marking and WEEE – marking must be applied on labels for products that are covered by those standards.

The package should not have any other company logos.

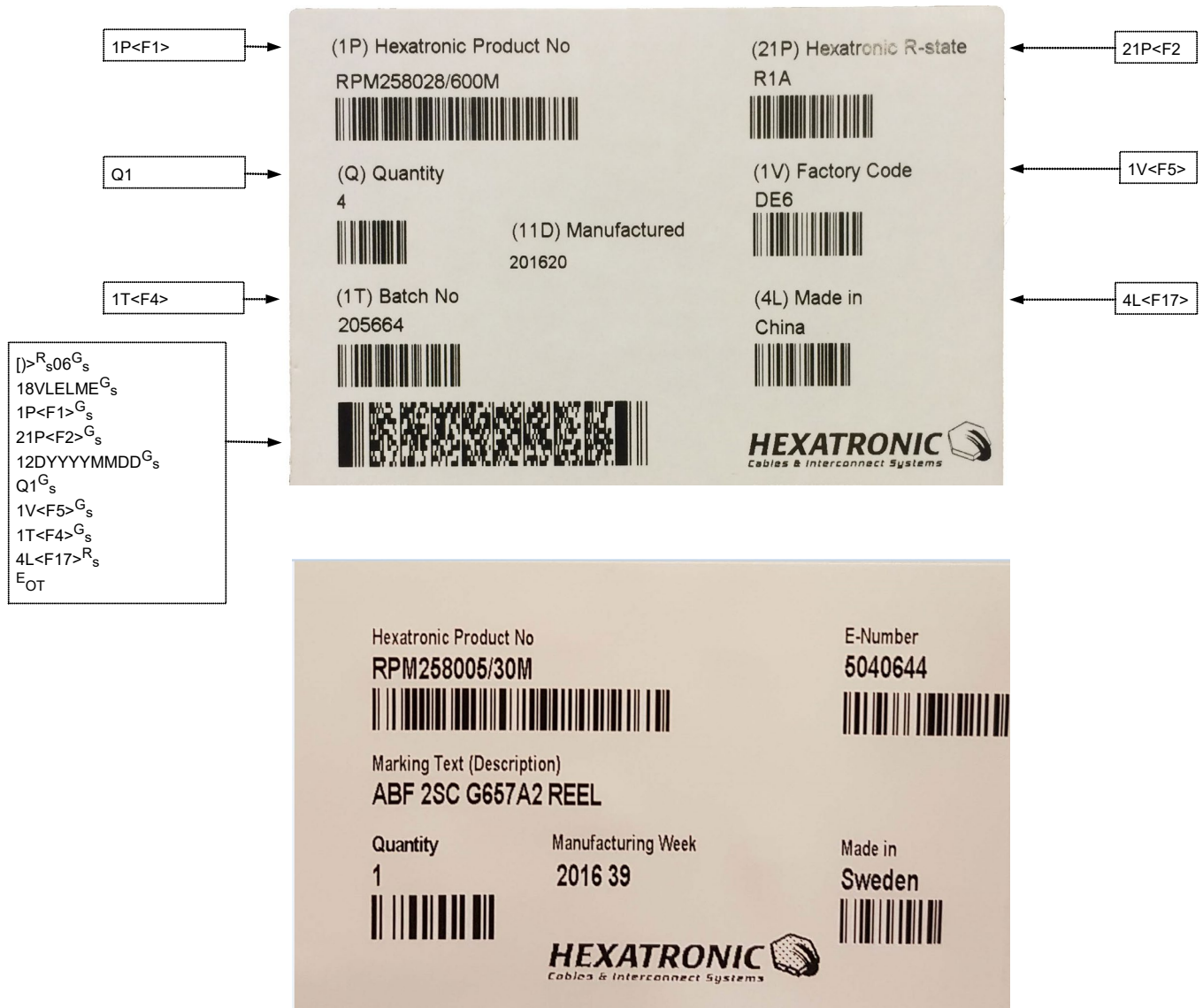


Figure 8. Label for Package. Size: Approx: 100x60mm (LZF 083 255/n)

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4 Packing

Cables/cable assemblies must be individually coiled in suitable plastic bags. ESD bags when needed or specified. Longer lengths need to be coiled on suitable reels/drums. Multiple numbers of cable/cable assemblies into suitable corrugated cardboard box shall be applied. For big cable/cable assemblies it may be necessary using cable drums that cannot be packed further into boxes.

Products such as ODF units, closures, cabinets are individually packed in suitable corrugated cardboard boxes and/or wooden boxes

Small piece parts (such as adapters, connectors, screws etc.) are usually packed in multiple numbers in same package/bag. Multiple numbers of packed piece parts into suitable corrugated cardboard box shall be applied.

Boxes must not collapse when they are stacked nor make any harm on the products. It must be possible to stack outer transport packages (including pick and pack boxes) heavier than 13.6 kg or larger than 56 litres to a height of at least 2.7m. It must be possible to stack smaller packages to at least 1.4m height.

Packaging material must be designed to support use in all means of transportation: train, truck, air and boat.

Outer transport packaging material must withstand being sprayed with water without the quality of the package being affected. Testing must be carried out according to ASTM D 951. Test parameters are 6mm/minute (6 litres/m²/minute) of water sprayed continuously for 15 minutes in accordance with ETSI EN 300 019-1-2.

Dangerous goods must be packed, marked and labelled as required by international standards and regulations for the transport of dangerous goods.

Packaging sets must be designed so that their footprint is the same as, or submultiple of, a standard 1200 x 800 mm transport pallet.

Total weight on a pallet should not exceed 850kg.

Suppliers must secure and guarantee correct and safe transportation. Package material must be of sufficient quality and fulfil relevant European and International standards.

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5 References

GB 18455-2001	National Standard of the People’s Republic of China, Packaging Recycling Mark
RoHS	2011/65/EU
REACH	1907/2006/EG
ISO 7000	Graphical symbols for use on equipment
2002/96/EC	EU Directive on Waste Electrical and electronic Equipment (WEEE)
CE	EU Regulation 765/2008
94/62/EC	EU Directive on Packaging & Packaging Waste
ASTM D951	Standard Test Method for Water Resistance of Shipping Containers by Spray Method
ETSI EN 300 019-1-2	Classification of Environmental Conditions for Transportation
ISO 11469	Plastics – Generic identification and marking of plastic products

6 Revision history

Rev	Date	Note
A	2014-12-11	New document.
B	2015-11-20	Updated with material performances, see chapter 2.
C	2016-10-28	Updated information, see chapter 3.4 and 3.5.
D	2017-04-13	Minor editorial updates.