

Explanatory notes on CE marking

Low Voltage Directive (NSR), EMC Legislation

Important information regarding the Low Voltage Directive (NSR):

1. General Conditions:

- a) The major characteristics required for knowledge and observance, for use in accordance with the intended application, are given on the electrical equipment, or, if this is not possible, in the accompanying instructions.
- b) The manufacturer's symbol or trade mark shall be clearly visible on the electrical equipment, or, where this is not possible, shall be affixed on the packaging.
- c) The electrical devices as well as the components for these, shall be procured such that these can be connected safely and properly.
- d) The electrical equipment shall be designed and constructed such that protection from the hazards listed in item 2 and 3, is assured during use and proper maintenance in accordance with the intended application.

2. Protection against hazards which may arise from electrical equipment – technical measures shall be foreseen in accordance with item 1, such that:

- a) Humans and working animals are protected from injury or other harm which can be caused by either direct or indirect contact.
- b) No high temperatures, arcs or radiation are generated from which hazards could arise.
- c) Humans, working animals and property are adequately protected against non-electrical hazards which, from experience, can arise from electrical equipment.
- d) The insulation complies to the property requirements.

3. Protection against hazards which can arise from external influences on electrical equipment – technical measures are foreseen in accordance with item 1, such that the electrical equipment:

- a) can withstand the mechanical loads such that humans, working animals or property are not endangered.
- b) can withstand the non-mechanical effects under foreseen environmental conditions such that humans, working animals or property are not endangered.

- c) cannot endanger humans, working animals or property in any way by the foreseen overloads.

Equipment and areas which do **not** fall within the Directive.

- Electrical equipment for use in explosive atmospheres
- Electrical-radiological and electrical medical equipment
- Electrical components of passenger and goods lifts
- Electricity meters, household plug-in fixtures, radio interference suppression devices
- Installation for supplying power to electrified pasture fencing
- Specified electrical equipment intended for use on ships, in aircraft or railways and which comply with the safety regulations of member states for international installations.

Electrical equipment within the context of the Low Voltage Directive is electrical equipment for applications with a rated voltage between 50 and 1000 V alternating current and between 75 and 1500 V direct current.

For a more **exact** interpretation of the Directive, cables and wires are covered by the regulation, **not** however cables with a rated voltage exceeding 1000 V alternating current or 1500 V direct current.

HELUKABEL as manufacturer and supplier must act in accordance with the Low Voltage Directive, that is to say:

Cables and wires up to 1000 V nominal voltage **must** be identified by the CE marking, refer to page T 95.

The identification can be attached either to the product or on the label.