

# CPR

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## Construction Products Regulation

From 1/07/2017 new rules for CE marking of construction products in accordance with Regulation (EU) No 305/2011 of the European Parliament and of the Council of 9 March 2011 came into force.

The new regulation, also called CPR, has replaced the existing Directive 89/106 / EEC and sets new harmonized conditions for the placing construction products on the market. Its validity in the field of cables and wires is closely related to the entry into force of the new EN 50575 standard, which specifies the requirements for electric cables and wires as construction products. The harmonized standard PN-EN 50575 specifies the methods of testing, verification and confirmation of the products performance by cable manufacturers.

A consequence of the process of harmonizing EN 50575 with the CPR Regulation is the obligation to issue a Declaration of Performance (DoP) and marking products intended for construction with the CE mark according to the requirements of the abovementioned standard. The Declaration of Performance should be issued by the cable manufacturer after having previously tested the products in the Notified Laboratory and classified in accordance with EN 13501-6.

## Construction Products Regulation

Reaction to fire acc. to EN 13501-6:

Class	Test methods	Additional classification	Examples of products
B1ca	EN 50399 i EN 60332-1-2	smoke emission, drops, acidity	-
B2ca	EN 50399 i EN 60332-1-2	smoke emission, drops, acidity	halogen-free cables
Cca	EN 50399 i EN 60332-1-2	smoke emission, drops, acidity	halogen-free cables
Dca	EN 50399 i EN 60332-1-2	smoke emission, drops, acidity	PVC cables
Eca	EN 60332-1-2	-	PVC cables
Fca	no performance determined	-	other cables

The EN 13501-6 standard introduces the concept of "reaction to fire class" and at the same time defines individual classes:

### Aca, B1ca, B2ca, Cca, Dca, Eca, Fca

The highest class of reaction to fire is Aca class. The lowest class Fca, which means no requirements for reaction to fire. The current state of the art allows the production of cables with insulation and sheath made of thermoplastics that meet the requirements of the B2ca class. In practice, we will deal with classes:

### B2ca, Cca, Dca, Eca, Fca

Depending on the reaction to fire class, the various qualification procedures set out in EN 50575 will be applied:

AVCP System 1+ - Classification B2ca and Cca made by Notified Body. In the assessment process, we perform a cable test at the Notified Laboratory and audits of the production process and factory production control carried out by the Notified Body. The Declaration of Performance is issued by the manufacturer based on the certificate issued by the Notified Body. Qualification of cables in the 1+ system is also associated with continuous production supervision by a Notified Body.

AVCP System 3 - Classification Eca and Dca made by the manufacturer based on tests carried out by the Notified Laboratory. The Declaration of Performance is issued by the manufacturer based on the qualification report from Notified Laboratory.

AVCP System 4 - Classification Fca made by the manufacturer - the cables do not meet any other reaction to fire class. The Declaration of Performance is issued by the manufacturer based on own research.

Cable Factory BITNER make every effort to ensure that the cables we offer for installation in buildings meet the requirements of the CPR Regulation in the field of fire safety. For several years, we have been researching our products and materials used for production, which allowed us to develop cables that meet the requirements of the Regulation. We confirm the properties of our products in Notified Laboratories and provide Declarations of Performance for our cables.

If you have questions regarding the use of products in accordance with the CPR, product qualifications and testing of new cable constructions placed on the market, please contact the Technical Advisor : +48 12 389 40 24, ext. 123