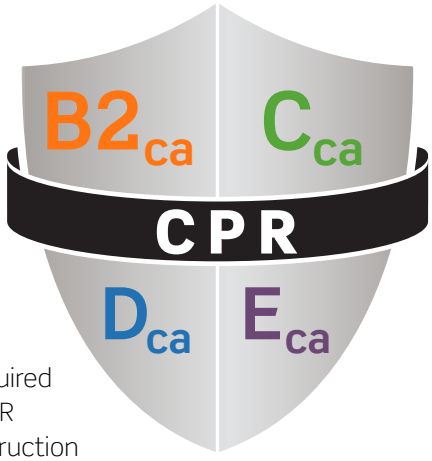
CPR Compliant

Cables Can Save Lives



Construction Product Regulation, or CPR, is a common technical language required to evaluate and label construction products for use in the European Union. CPR mandates a streamlined set of criteria to assess the performance of all construction related products, providing industry professionals, public authorities, and consumers with crucial information related to a product's specifications. Products that meet the criteria for CPR are marked CE (Conformité Européenne, meaning European Conformity).

1 Mechanical resistance and stability
2 **Safety in case of fire**
3 Hygiene, health, and environment
4 Safety and accessibility in use
5 Protection against noise
6 Energy economy and heat retention
7 **Sustainable use of natural resources**

Seven different requirements comprise the criteria for CPR. Two requirements apply to cables:

- Safety in case of fire
- Sustainable use of natural resources

As of 01 July, 2017, all cables used for datacom, telecom, and power in the European Economic Area (EEA) must be CE labelled, including cables used for permanent installation. Cable that was warehoused (in customer distribution or contractor stock) before 01 July, 2017, is not required to have the CE label.

European Commission

Brand-Rex and all other cable manufacturers must provide proof that their products have been tested and adhere to CPR standard EN50575. In addition to CE labelling, manufacturers need to provide Declaration of Performance (DoP) certificates and data sheets. This information should be in a language localised for the member state.

Different EEA member states enforce different fire safety classifications for each application.

For a current list of product contact points for construction (Regulation EU 305/2011, art.10), please visit the **European Commission** website at:
http://ec.europa.eu/DocsRoom/documents/23161/attachments/1/translations

Selecting CPR Compliant Data Cables

High volume cabling creates a potential path for fire to spread. In order to achieve a CPR rating and enable CE labelling, a third party agency tests cables on how they perform in a single and a multiple cable vertical-flame test. Based on the results of the testing, cables are grouped for different construction uses. The testing indicates how likely a cable exposed to fire is to:

- Spread flames and release heat
- Emit smoke
- Release acid gas
- Melt into flaming droplets

CE-marked cable offers a range of fire safety levels, from basic fire protection for general installations to very high, self-extinguishing fire protection. The rating ranges from B2 (representing the highest level of fire safety) to E (rated lowest for safety for communication cables). Higher rated cables will introduce fewer hazardous substances in a fire. Some cable is so heavily insulated it will actually self-extinguish when exposed to fire.

Euroclass Level	Descriptions	Example Environments
$B2_{ca}$	Very High Fire Protection Self Extinguishing	Hospital ward areas, children's nurseries, above fire exits, escape routes in public buildings, airports, metro, train stations
C_{ca}	High Fire Protection Self Extinguishing	Hospitals, commercial buildings, leisure facilities, hotels, schools, administration and office buildings
D_{ca}	Moderate Fire Protection Limited Emissions	Used as a basic minimum for general installs in some regions.
E_{ca}	Basic Fire Protection	Used as a basic minimum for general installs in some regions.

Brand-Rex Colour Coding Makes it Easy to Select the Right Cable

To make CPR implementation as easy as possible for our customers and installers, Brand-Rex colour codes our copper cables based on how they perform in case of fire.

Colour Coding Helps:

Distributors: to discern different types of cables by sight, clearly differentiating cable stock to avoid mislabelling

Consultants: to conduct sight inspections, ensuring cables comply with national regulations

Installers: to ensure easy identification while on the job, so each type of cable goes in the correct location

Brand-Rex CPR Colour-Coding for Copper Cables

EXAMPLES OF COMMON APPLICATIONS

ORANGE

Very High Fire Protection
Self Extinguishing

- Specified for hospital ward areas and children's nurseries, above fire exits and escape routes in public buildings, airports, metro, train stations, buildings with high people density

GREEN

High Fire Protection
Self Extinguishing

- Specified for hospital 'horizontal/main building areas' where people have more mobility, commercial buildings, leisure facilities, hotels, schools, administration and office buildings

BLUE

Moderate Fire Protection
Limited Emissions

- Used as basic minimum for general installs in some regions

VIOLET

Basic Fire Protection

- Used as basic minimum for general installs in some regions

We Can Help You Understand the Standards

Brand-Rex leads the industry for CPR compliant cables. Our company gained third-party certification to become the first cable manufacturer to get CE-marked products to market in August 2016. We were also one of the 21 cable manufacturing companies to help develop CPR standards, so we're confident that we can assist you to understand the ways CPR may impact your organisation.

We've created a wide range of tools that will help you learn more about current CPR and fire safety standards for cables. To get answers to your CPR questions and learn about our CPR products, visit Brand-Rex.com/CPR.

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