



# Draka

**PEOPLE SAFETY IS A MUST  
NOT AN OPTION**



**DON'T TAKE RISKS.  
BE CPR COMPLIANT**

**LEADING  
THE WAY  
TO SAFETY**

A brand of the

**Prysmian  
Group**

# FIRE SAFETY: FACTS AND FIGURES

FIRES STILL HAVE A HIGH COST IN LOSS OF HUMAN LIFE.

**44%**

of all deaths  
is caused by  
gas or smoke

**4,000<sup>1</sup>**

people killed  
by fire every year

**90%<sup>2</sup>**

of fires occur  
inside buildings

**3 minutes<sup>3</sup>**

average time from  
ignition of a fire  
to flashover

““We spend 90% of our time in buildings””

– our homes, offices, hospitals, schools, hotels, public buildings – and these are the places where 90% of fires take place. We are surrounded by fire risk every day. The harsh reality is that although construction materials and buildings have changed dramatically in recent years, many of the regulations that monitor their fire safety have failed to keep pace.”

**Today fire can engulf a room in 3 minutes compared to 25 minutes 50 years ago.**

Another influential source, the Swedish SRSA (Swedish Rescue Services Agency) in a report on Fire Prevention states that: “This change has come about because of the increase of plastics in our homes, nothing else.”

**Fires have also a significant impact on our economy.**

In a recent report, CTIF (International Association of Fire and Rescue Service) estimates that: “the total economic costs of fires amount to around 1% of gross domestic product in most advanced countries”.

1. Bulletin of Fire Statistics, Geneva Association
2. Report No 10 of Centre of Fire Statistics of CTIF, World Fire Statistics, 2006
3. Alternate Ways To Achieve Fire Safety, Swedish Rescue Services Agency
4. Indoor air pollution, European Commission Press Release Database, 2003



# CPD, CPR WHAT'S ALL THIS?



## CONSTRUCTION PRODUCT REGULATION / CPR

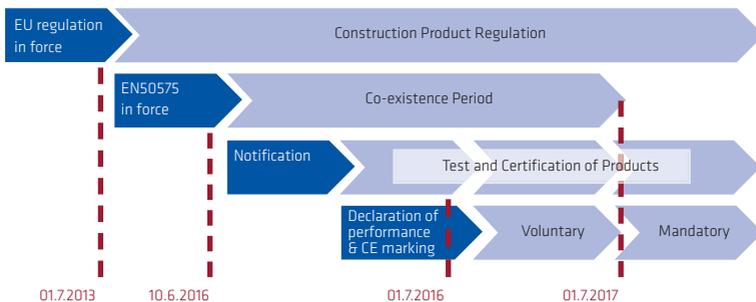
### CONSTRUCTION PRODUCT REGULATION

EU Construction Product Directive (CPD) has developed into Construction Products Regulation (CPR) fully applicable as law in all Member States from July 2013 onwards. CPR covers any cable product intended to be incorporated in construction works (fixed installation), including both buildings and civil engineering works and subject to performance requirements on reaction and/or resistance to fire.

### CE - MARKING

CPR itself doesn't define products' performance requirements. This remains the responsibility of the national fire safety authorities. CPR does introduce harmonized declarations of performance (DoP) along with the respective CE marking applied on the product or its packaging.

### TIME SCHEDULE FOR THE ENTRY INTO FORCE OF THE CPR



# FIRE SAFETY FOR ANY BUILDING. YOU CAN AFFORD IT

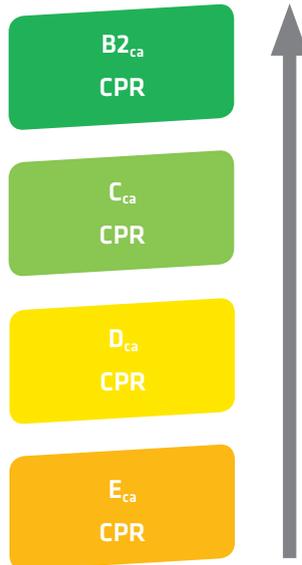
## ADOPTION OF THE CPR EUROCLASSES INTO THE NATIONAL REGULATION

The European application standard EN50174 for the installation of communication networks in buildings anticipates this already in some national forewords reflecting the new national regulations and recommendations to the use of cable in buildings.

Inside buildings only products according to Euro class B2<sub>ca</sub>, C<sub>ca</sub>, D<sub>ca</sub> or E<sub>ca</sub> are permissible. Cable according to class E<sub>ca</sub> or D<sub>ca</sub> are applicable for general purposes where fire risks are limited.

Fire safety cable according to class B2<sub>ca</sub> and C<sub>ca</sub> are to be used if the building's purpose suggests to increase the level of fire safety because of the potential fire hazard (i.e. hospitals, nurseries, buildings for large events).

## HIGH REQUIREMENT

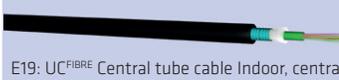


# DRAKA PRODUCTS FOR GREATER SAFETY IN CASE OF FIRE

## PRODUCT SOLUTIONS

Already now all relevant cable for building installations are classified into the new Euro class scheme. Details are available from the latest product data sheet.

Special attention is required for products with high or very high fire performance requirements. The table below actually lists latest certified products for the Euro classes B2<sub>ca</sub> and C<sub>ca</sub>. More to come in the near future.

 <p>Cat.7<sub>A</sub> - UC1500 SS22 S/FTP - Class B2<sub>ca</sub>s1d0</p>	<div style="display: flex; justify-content: space-around;"> <div style="background-color: #28a745; color: white; padding: 5px; border-radius: 5px;">B2<sub>ca</sub> CPR</div> <div style="background-color: #28a745; color: white; padding: 5px; border-radius: 5px;">C<sub>ca</sub> CPR</div> <div style="background-color: #ffc107; color: white; padding: 5px; border-radius: 5px;">D<sub>ca</sub> CPR</div> <div style="background-color: #ffc107; color: white; padding: 5px; border-radius: 5px;">E<sub>ca</sub> CPR</div> </div>
 <p>Cat.7 - UC900 SS23 S/FTP - Class B2<sub>ca</sub>s1d0</p>	<div style="display: flex; justify-content: space-around;"> <div style="background-color: #28a745; color: white; padding: 5px; border-radius: 5px;">B2<sub>ca</sub> CPR</div> <div style="background-color: #28a745; color: white; padding: 5px; border-radius: 5px;">C<sub>ca</sub> CPR</div> <div style="background-color: #ffc107; color: white; padding: 5px; border-radius: 5px;">D<sub>ca</sub> CPR</div> <div style="background-color: #ffc107; color: white; padding: 5px; border-radius: 5px;">E<sub>ca</sub> CPR</div> </div>
 <p>Cat.6<sub>A</sub> - UC500 AS23 F/FTP - Class C<sub>ca</sub>s1d0</p>	<div style="display: flex; justify-content: space-around;"> <div style="background-color: #28a745; color: white; padding: 5px; border-radius: 5px;">C<sub>ca</sub> CPR</div> <div style="background-color: #ffc107; color: white; padding: 5px; border-radius: 5px;">D<sub>ca</sub> CPR</div> <div style="background-color: #ffc107; color: white; padding: 5px; border-radius: 5px;">E<sub>ca</sub> CPR</div> </div>
 <p>D31: UC<sup>FIBRE</sup> Distribution (Mini break-out) Indoor, break-out cable with ES9 tight buffer, with 24 fibres and FireRes<sup>®</sup> sheath, Class B2<sub>ca</sub>s1d0</p>	<div style="display: flex; justify-content: space-around;"> <div style="background-color: #28a745; color: white; padding: 5px; border-radius: 5px;">B2<sub>ca</sub> CPR</div> <div style="background-color: #28a745; color: white; padding: 5px; border-radius: 5px;">C<sub>ca</sub> CPR</div> <div style="background-color: #ffc107; color: white; padding: 5px; border-radius: 5px;">D<sub>ca</sub> CPR</div> <div style="background-color: #ffc107; color: white; padding: 5px; border-radius: 5px;">E<sub>ca</sub> CPR</div> </div>
 <p>D32: UC<sup>FIBRE</sup> Break-Out Indoor, break-out cable break-out cable with ES9 tight buffer in ø2.0mm units, with 24 fibres and FireRes<sup>®</sup> sheath, Class B2<sub>ca</sub>s1d0</p>	<div style="display: flex; justify-content: space-around;"> <div style="background-color: #28a745; color: white; padding: 5px; border-radius: 5px;">B2<sub>ca</sub> CPR</div> <div style="background-color: #28a745; color: white; padding: 5px; border-radius: 5px;">C<sub>ca</sub> CPR</div> <div style="background-color: #ffc107; color: white; padding: 5px; border-radius: 5px;">D<sub>ca</sub> CPR</div> <div style="background-color: #ffc107; color: white; padding: 5px; border-radius: 5px;">E<sub>ca</sub> CPR</div> </div>
 <p>E19: UC<sup>FIBRE</sup> Central tube cable Indoor, central tube cable in corrugated steel tape with 2-24 fibres, FireRes<sup>®</sup> sheath, Class B2<sub>ca</sub>s1d0</p>	<div style="display: flex; justify-content: space-around;"> <div style="background-color: #28a745; color: white; padding: 5px; border-radius: 5px;">B2<sub>ca</sub> CPR</div> <div style="background-color: #28a745; color: white; padding: 5px; border-radius: 5px;">C<sub>ca</sub> CPR</div> <div style="background-color: #ffc107; color: white; padding: 5px; border-radius: 5px;">D<sub>ca</sub> CPR</div> <div style="background-color: #ffc107; color: white; padding: 5px; border-radius: 5px;">E<sub>ca</sub> CPR</div> </div>

# WHAT'S CPR ABOUT?

## CONSTRUCTION PRODUCT REGULATION / CPR

Having people safety in mind European Union identified and addressed this issue by harmonizing heterogeneous national fire safety regulations with regard to approved construction materials and adopting cable to these regulations, too.

## EURO CLASSES A<sub>ca</sub> TO F<sub>ca</sub>

Cable will be classified into Euro classes A<sub>ca</sub> to F<sub>ca</sub>, depending on their fire performance which is to be tested against EN50399, the new fire test standard. These tests are to be carried out by independent 3rd party institutions, so called Notified Bodies who survey the tests and provide comprehensive reports and certificates.



## ESSENTIAL CHARACTERISTICS OF CABLES UNDER CPR

Performance included under the CPR are

1. Reaction to fire
2. Release of dangerous substances

These support the basis requirements for

- / Construction works
- / Hygiene, health and environment



## CABLES SAFETY REQUIREMENTS IN CASE OF FIRE

Construction works must be designed and built in such a way that in the event of an outbreak of fire:

- / The generation and spread of fire and smoke within the construction is minimized
- / The spread of fire to neighbouring works is limited
- / Occupants can leave the construction works or be rescued by other means
- / The safety of rescue teams is taken into consideration

# WITH DRAKA CABLE SOLUTIONS YOU FOCUS ON TOMORROW ALREADY TODAY

Because as one of the global leaders in technology we offer high competence in the classical copper as well as the modern fibre optic technology.

You can benefit from the innovative Draka cables and make use of multimedia services of the future, e.g. highspeed internet, TV, surveillance cameras, control and voice communication .

Your cable solutions for **GREATER SAFETY** and better performance

For more information please see:  
[www.prysmiangroup.de](http://www.prysmiangroup.de)



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