DON'T TAKE RISKS.
BE CPR COMPLIANT

PEOPLE SAFETY IS A MUST
NOT AN OPTION
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 people killed by fire every year

90% of fires occur inside buildings

3 minutes 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.”

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”.

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.”

3. Alternate Ways To Achieve Fire Safety, Swedish Rescue Services Agency
Prysmian Group is the world’s leading cable manufacturer, with presence in 50 countries and 130 years of history.

Being the pioneer of the cable industry, we have always been committed to protect quality standards, and to develop best in class fire resistant and low fire hazard cables and systems to prevent and reduce risks, improving safety conditions in case of fire.

WE ARE READY TO GET THE MOST OUT OF CPR, AS WE BELIEVE THAT:

1. People safety is a must, not an option.
2. Construction Products Regulation is a unique turning point to enhance the level of safety and quality in the European market.
3. Working and Promoting on CPR is a duty for Prysmian Group as the European leader in Fire Safety.
4. We must ensure a smooth transition in all countries for all the supply chain, from cable manufacturing to end users.

For more information please see:
www.prysmiangroup.de
WHAT’S ALL THIS?

CONSTRUCTION PRODUCT REGULATION / CPR

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

<table>
<thead>
<tr>
<th>EU regulation in force</th>
<th>Construction Product Regulation</th>
<th>Co-existence Period</th>
<th>Test and Certification of Products</th>
<th>Voluntary</th>
<th>Mandatory</th>
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<tr>
<td>01.7.2013</td>
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<td>10.6.2016</td>
<td>01.7.2016</td>
<td>01.7.2016</td>
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ADOPTION OF THE CRP 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 B_{2\text{ca}}, C_{\text{ca}}, D_{\text{ca}} or E_{\text{ca}} are permissible. Cable according to class E_{\text{ca}} or D_{\text{ca}} are applicable for general purposes where fire risks are limited.

Fire safety cable according to class B_{2\text{ca}} and C_{\text{ca}} 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).
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 B2ca and Cca. More to come in the near future.

<table>
<thead>
<tr>
<th>Cat.7a</th>
<th>Cat.6a</th>
<th>D31:</th>
<th>D32:</th>
<th>E19:</th>
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<tr>
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<tr>
<td>D32: UCFIBRE Break-Out Indoor, break-out cable with ES9 tight buffer, with 24 fibres and FireRes® sheath, Class B2ca,s1d0</td>
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<tr>
<td>D31: UCFIBRE Distribution (Mini break-out) Indoor, break-out cable with ES9 tight buffer, with 24 fibres and FireRes® sheath, Class B2ca,s1d0</td>
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<tr>
<td>E19: UCFIBRE Central tube cable Indoor, central tube cable in corrugated steel tape with 2-24 fibres, FireRes® sheath, Class B2ca,s1d0</td>
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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 $A_{ca}$ TO $F_{ca}$
Cable will be classified into Euro classes $A_{ca}$ to $F_{ca}$, 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
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:
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