

PanEU CPR Webinar

Dr Jeremy Hodge
Secretary General, BCA

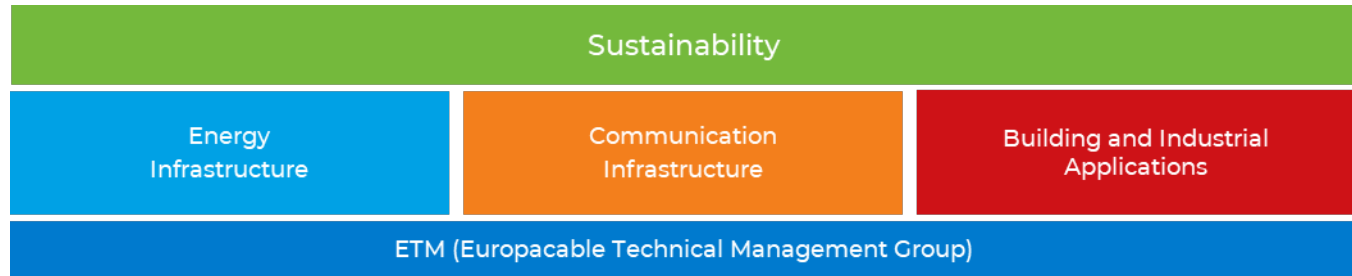


Europacable

The European Association of Wire and Cable Manufacturers and National Associations

BCA is a National Association member of Europacable

Europacable covers energy, industrial and communication cables



Europacable, 58 Rue Marie de Bourgogne, 1000 Brussels

www.europacable.eu

Europacable

What we do



Building Europe's power networks



Connecting Europe's Renewables



Connecting Europe's Citizens & Businesses



Building Europe's Data Networks



Wiring Europe's Buildings



Fire Safety is our Responsibility

Yours Too

Increasing Europe's Safety

All cables used in any type of building are subject to the Construction Products

Regulation (CPR). Learn about your responsibilities on fire safety and how to comply



Electrifying Europe's Transport



Reducing Europe's CO₂ Footprint

Introducing Europacable

Our Members: Europe's Leading Wire & Cable Producers



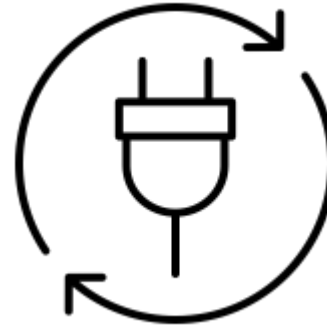


Background

- C** London, 18 November 1987, Metro Station King's Cross St. Pancras, **31 deaths**
- C** Düsseldorf Airport, 11 April 1996, **17 deaths**
- C** Göteborg, 29 October 1998, discotheque, **63 deaths**
- C** Titisee-Neustadt, 26 November 2012, workshop for the disabled, **14 deaths**
- C** London, 14 June 2017, Grenfell Tower, **79 deaths**

This webinar is for:

- C** Designers
- C** Installers
- C** Suppliers



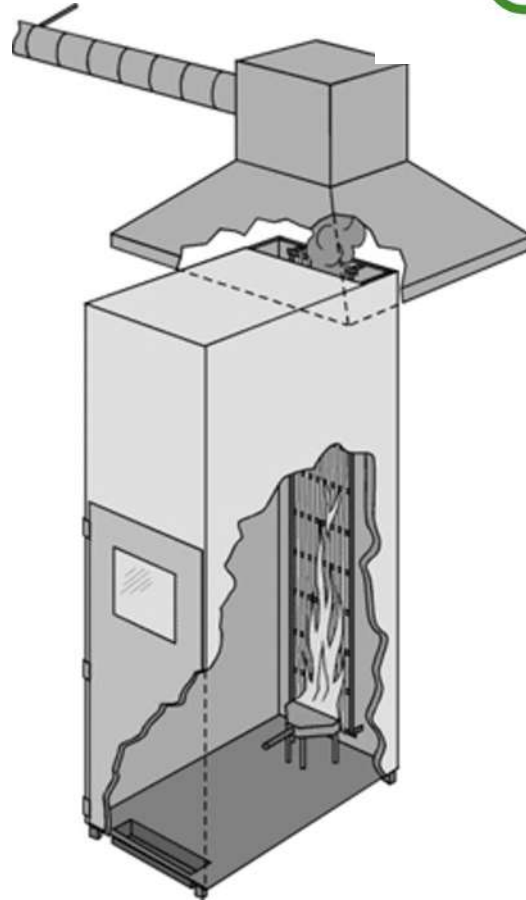
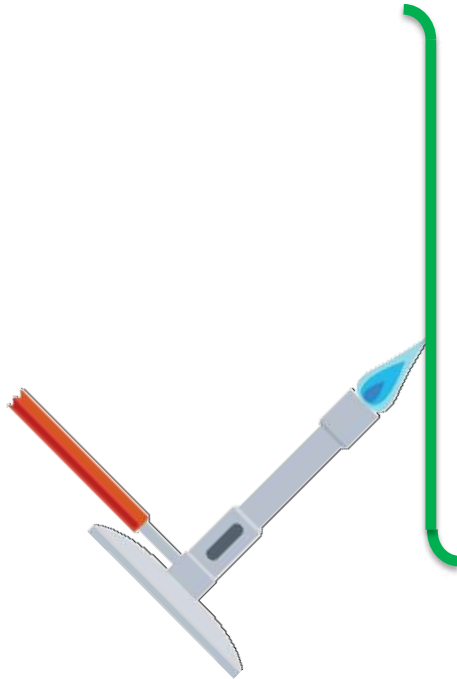
We will cover:

- CPR basics
- Regulations
- Design Codes and other Guidance
- What's happening across Europe
- What happens after Brexit?

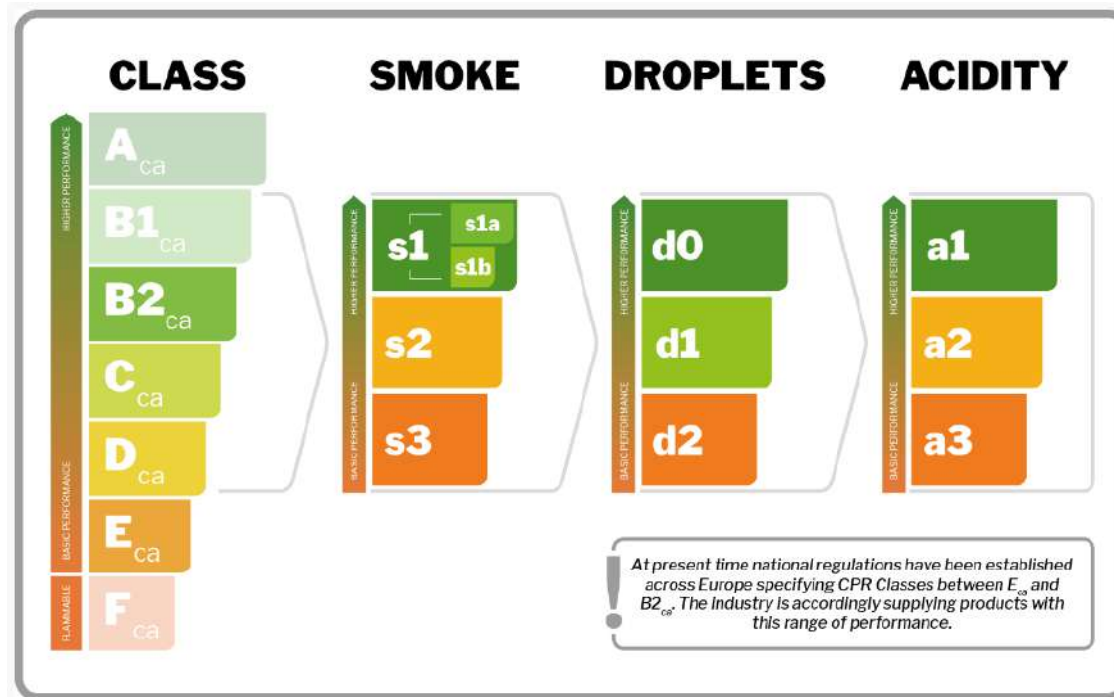
CPR and Cables

- Applies to all* types of **cable** intended for **permanent installation** in buildings and civil structures
- Energy, telecommunications, data, optical, control
- Responsibility of the manufacturer to have product tested and declare each cable's classification
- Manufacturer must label product and supply or make available a **Declaration of Performance (DoP)**

Main CPR Tests



What are the Classifications?



How are the Classifications Presented?

Class declare one of the following values with decreasing performances: A_{ca}, B1_{ca}, B2_{ca}, C_{ca}, D_{ca}, E_{ca} to F_{ca}

Flaming Droplets declare one of the following values with decreasing performances: d0, d1 and d2

Only for classes B1_{ca} to D_{ca}

B2_{ca} - s1a, d0, a1

dash

comma

Smoke opacity declare one of the following values with decreasing performances: s1a, s1b, s1, s2, s3

Only for classes B1_{ca} to D_{ca}

Acidity declare one of the following values with decreasing performances: a1, a2 and a3

Only for classes B1_{ca} to D_{ca}

Burning Behaviour and Heat Output



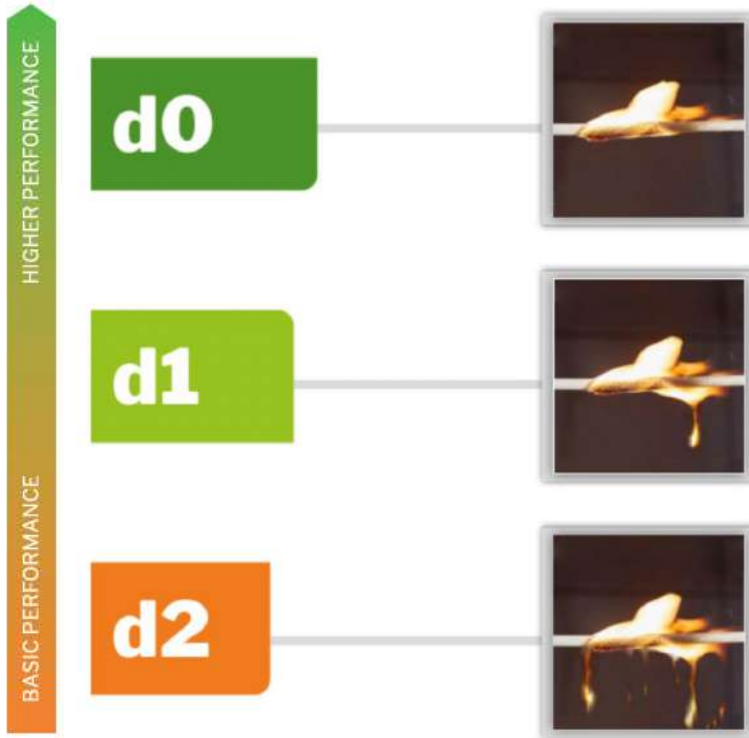


Smoke Emission (D_{ca} to $B1_{ca}$)



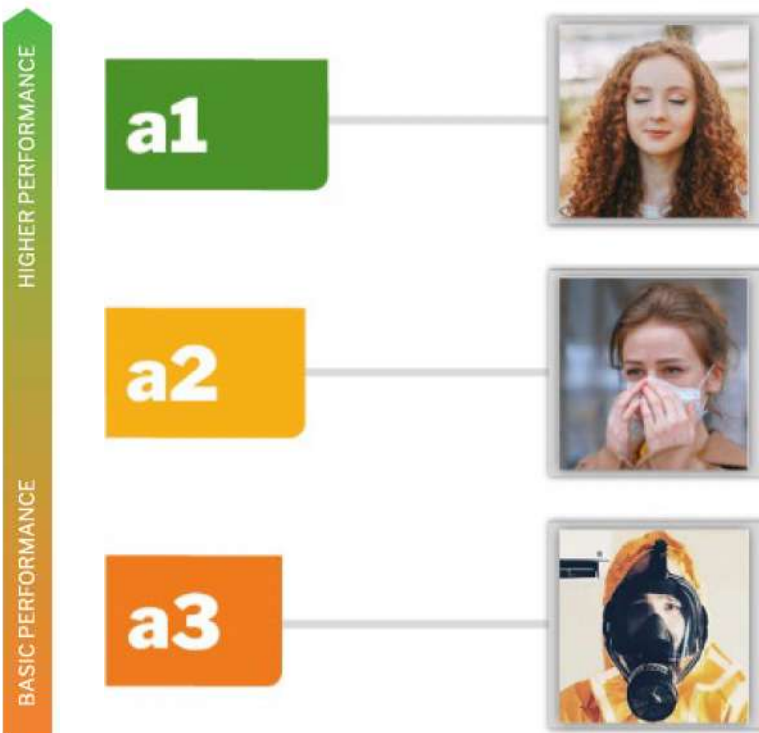


Flaming Droplets (D_{ca} to $B1_{ca}$)

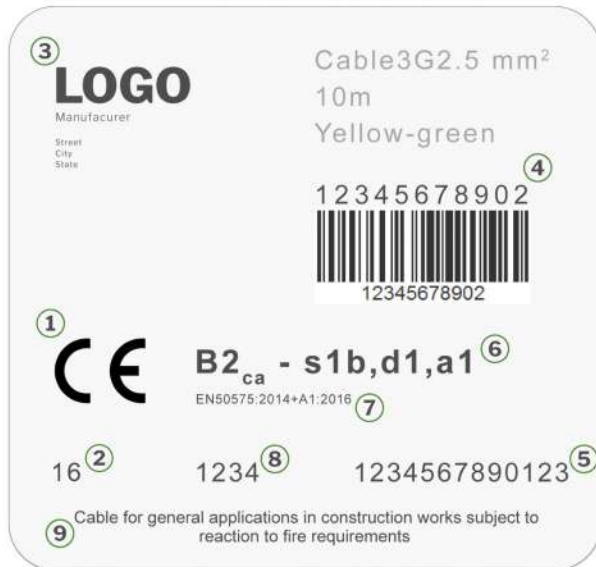




Acidity (D_{ca} to $B1_{ca}$)



Product Labelling



(1) The CE marking >

The CE marking shall be affixed to those construction products for which the manufacturer has drawn up a Declaration of Performance.

It SHALL be followed by the information listed here later. In view of the specific nature of the product cable the fulfilment of the obligation to affix the CE marking set by the CPR is possible exclusively through labels or accompanying documents.

(2) Year of initial affixing of the CE marking (2 digits min) v

(3) Manufacturer v

(4) The unique identification code of the product-type v

(5) The reference number of the Declaration of Performance v

(6) The class of the performance declared v

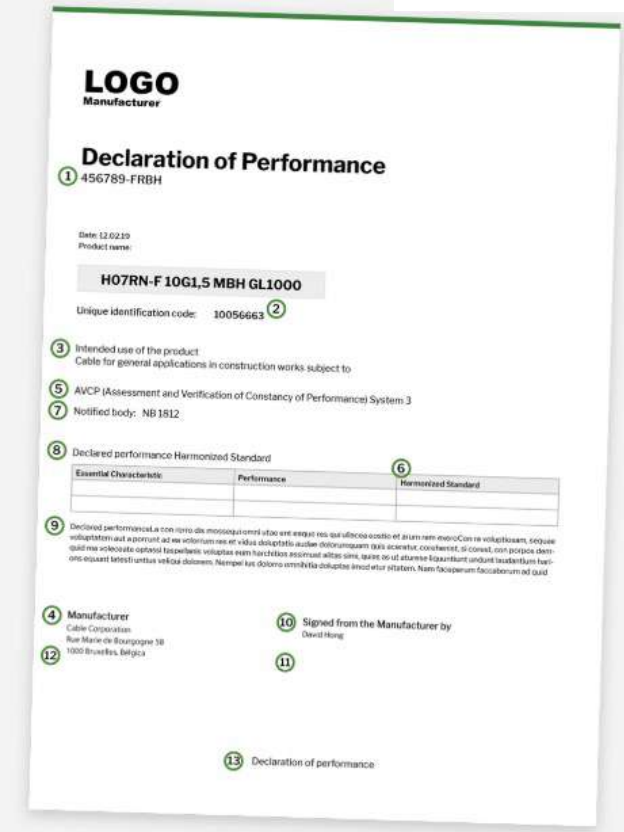
(7) The dated reference to the harmonised technical specification applied v

(8) The identification number of the notified body v

(9) The intended use as laid down in the applied harmonised technical specification v

Declaration of Performance (DoP)

(1) DoP number	>
One code per product family.	
(2) Unique identification code of the product-type	▼
(3) Intended use	▼
(4) Manufacturer	▼
(5) System(s) of AVCP	▼
(6) Harmonised standard	▼
(7) Notified body	▼
(8) Declared performance(s)	▼
(9) Declaration of responsibility	▼
(10) Signer	▼
(11) Signature	▼
(12) Place	▼
(13) Date	▼



LOGO
Manufacturer

Declaration of Performance

① 456789-FRBH

Date: 12.02.20
Product name:
H07RN-F 10G1,5 MBH GL1000

Unique identification code: 10056663 ②

③ Intended use of the product
Cable for general applications in construction works subject to

⑤ AVCP (Assessment and Verification of Constancy of Performance) System: 3

⑦ Notified body: NB 1812

⑧ Declared performance Harmonized Standard

Essential Characteristic	Performance	Harmonized Standard

⑨ Declared performance(s) a non-terro die moestegeomet afzet en eren tes tot uitsloot oostle et avum ram evooCon re volueteam, seque viluptatem a porcum ac eu volentum res et vidus disceptat acbue doloremque ipsa accerere conserent, si conet, nisi porcum them- quid nea utlocute captem? Inperhevis voluptas nam hachidit assumat allos sine, quare ut ut abenne liquitiam unquam laudantium tur- omis equant letentur utius velque doloem. Nemoque kas doloem ornivilla deupte innot utur sitatem, Nam facisquam facisabonum ad quid

④ Manufacturer
Cable Corporation
Rue Marie de Bourgogne 18
1000 Brussels, Belgium

⑩ Signed from the Manufacturer by
David Hong

⑪

⑬ Declaration of performance:

Declaration of Performance (DoP)

By issuing this document the manufacturer assumes responsibility for the conformity of the cable with the declared performance.

It should be easily accessible, e.g. manufacturer's website.

NOTE - This example includes the required fields and information but the size, layout and content are not subject to a mandatory template.

DECLARACIÓN DE PRESTACIONES Nº CPR04321

- Código de identificación única del producto tipo: XCV/GMG
Cable unipolar RZ1-K (AS) 0,6/1 kV secciones de 1 x 1,5 mm² a 1 x 630 mm² según UNE 21123-4
Marca comercial: FACELCABLE Y FACELFLEX
- Usos previstos: Suministro de electricidad en edificios y otras obras de ingeniería civil con el objetivo de limitar la generación y propagación de fuego y humo.
- Fabricante: FACEL, Provenza 238, 08008 Barcelona, España
Tel. +34 933 238 056
E-mail: facel@facel.es
- Representante autorizado: No procede
- Sistemas de evaluación y verificación de la constancia de las prestaciones (EVCP): Sistema 1+
- Norma armonizada: EN 50575:2014 + A1:2016

Organismo notificado:
Nº 0099 (AENOR INTERNACIONAL S.A.U.)

- Prestaciones declaradas:

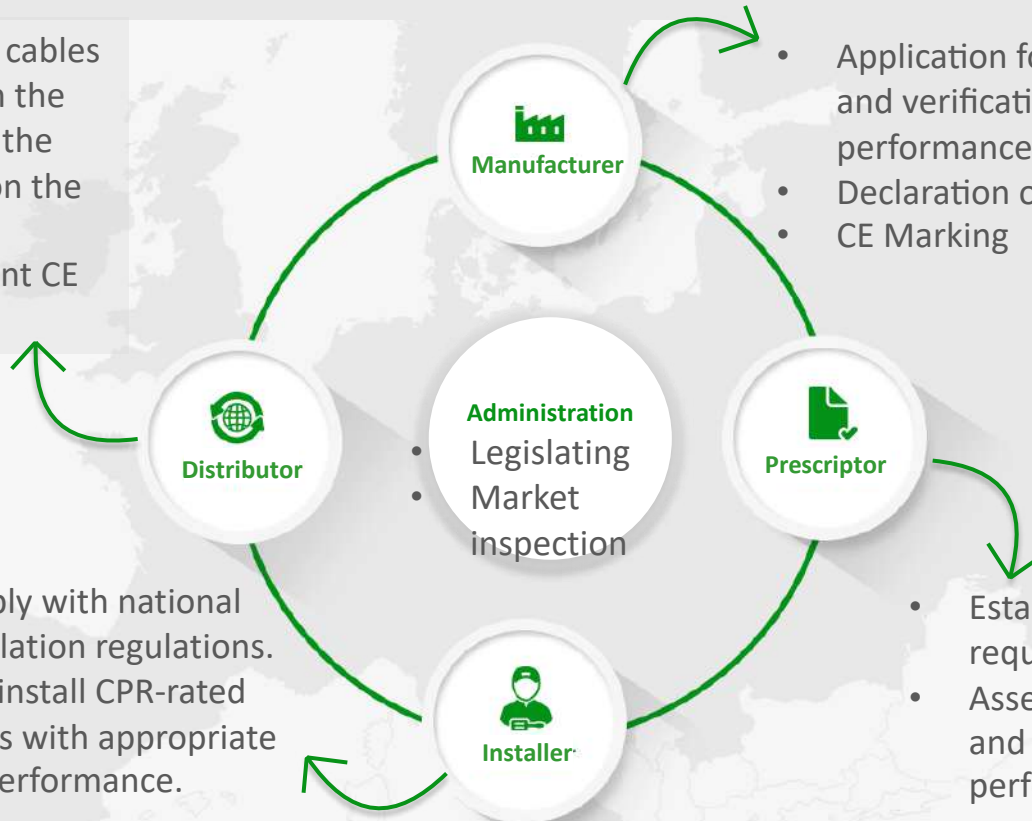
Características esenciales	Sistema de evaluación y verificación de la constancia de las prestaciones	Prestaciones	Especificaciones técnicas armonizadas
Reacción al fuego	Sistema 1+	C _u -1b,d1,e1	EN 50575:2014+A1:2016
Sustancias peligrosas	*	NPD (Prestación no determinada)	
- Las prestaciones del producto identificado anteriormente son conformes con el conjunto de prestaciones declaradas. La presente declaración se emite, de conformidad con el Reglamento (UE) nº 305/2011, bajo la sola responsabilidad del fabricante arriba identificado.
Firmado por y en nombre del fabricante por:
[nombre].....
En [lugar]..... el [fecha de emisión].....
[firma].....

Ongoing Maintenance of CPR Standards

- Europacable continually seeks improvements in the technical standards for consistency, reliability and classification robustness
- Round robin test programs have been conducted by Notified Bodies and manufacturers
- Introduced flame shape measurements and standard comparison cable
- Both main fire test standards (small and large scale) have recently been updated with improvements



- Ensure that only cables that comply with the requirements of the CPR are placed on the market.
- Check the relevant CE marking



- Application for systems of assessment and verification of constancy of performance (AVCP).
- Declaration of Performance (DoP)
- CE Marking

- Comply with national installation regulations.
- Only install CPR-rated cables with appropriate fire performance.

- Establish by CPR classification the required level of fire performance.
- Assess any specific risks, i.e. know and understand the fire performance level of the cables.



Use of Cables Regulations across Europe

- Regulations for the use of certain CPR classes for cable vary across Europe – **check local regulations!**
- Use regulations are commonly part of national or local building codes or fire codes
- **Customers may** in addition **specify higher classifications** or refer to design specifications, standards or guidance – these may become contractual requirements

Design Codes and Guidance

- CPR classifications are beginning to appear in design standards and codes
- Professional specifiers such as LUL, MOD and others have adopted their own specifications
- Electrical Contractors Association (ECA) has published guidance on CPR and cables
- *Some standards now refer to CPR classifications*

CPR – FAQ


This FAQ page reflects the best knowledge of industry experts across Europe.


A. Scope

What is the purpose of the CPR? 

What performances of cables are covered by the CPR? 

Which cables are included under the CPR? 

Is CE marking mandatory for an outdoor cable entering a building? 

Which cables are included under the CPR? 

Do cables in prefilled conduits and pre-connected systems have to be CE marked? 

Which is the max rated voltage that is considered for general applications and therefore in the scope of EN50575:2014+A1:2016? 

Are Fire Resistant cables covered by CPR? 

This page represents our best understanding of the CPR. It is not a legally binding document and is not intended as a substitute for each stakeholder's own assessment and decision-making. A binding interpretation of European Union legislation remains the exclusive competence of the European Court of Justice. Europacable declines any and all liability for any measure taken or not taken on the basis of this document, which is a private non-binding information document.

Choose your country or region

-  Belgium (French)
-  Belgium (Dutch)
-  Czech Republic
-  Denmark
-  Finland
-  France
-  Germany
-  Greece
-  Ireland
-  Italy
-  Norway
-  Poland
-  Slovakia
-  Spain
-  Sweden
-  Switzerland (French)
-  Switzerland (German)
-  Switzerland (Italian)
-  United Kingdom

European Wiring Standard EN 60364

- CENELEC standard, implemented in national wiring codes, or directly
- CPR requirements are set out in section 42
- Minimum requirement is CPR Class E_{ca} - EN 60332-1-2 test (Bunsen burner)
- Class D_{ca} or C_{ca} may be applied
- National variations are noted

BS 6701 – Telecommunications Cabling

- Revision in 2017
- Requirement of C_{ca} -s1b,d2,a2 for ‘installation cables’
- For other cables, must meet CPR class E_{ca} or meet the requirements of the EN 60332-1-2 test (Bunsen burner)

What's Happening Around Europe?

- No pan-European building code requirements
- National 'competence' – local laws for buildings
- Many countries are updating legislation
- Range of requirements for different risks or building types, ranging from class E_{ca} to class $B2_{ca}$
- Europacable CPR website provides links

Questions we can ask ourselves

- c** Does the cable I buy and distribute have the **CE marking according to the CPR?**
- c** Is the CE marking correct and in line with the **national legislation?**
- c** Does the **labeling of the cable** include the use for which it is for (or in some other accompanying document)?
- c** Is the **DoP** correctly drafted and available?



Questions we can ask ourselves - continued

- C** Have the possible risks of fire been considered?
- C** Does the classification level comply with applicable legislation?
- C** Are additional parameters required?
- C** Is the cable to be installed correctly CPR certified?
- C** Does behavior in the event of fire comply with the provisions of the applicable law?



Summary

- CPR has been applied to cables so new reaction to fire classifications have been applied to many cable types
- Work on fire resistant cables is progressing
- Guidance and standards are incorporating CPR classes



Europacable My CPR Coach

cpr.europacable.eu



My CPR Coach

Join our free training programme and learn all about CPR and the benefits you gain from complying to it.




Yes, I have read the [Privacy Policy](#) and I agree to the processing of my personal data according to them. We do not pass on your data to third parties. You can unsubscribe at any time.

Submit

europacable[®]
Try life without us

4 pasos para comprobar el cumplimiento de la CPR

Guía paso a paso para entender los requisitos de mercado.



CHECKLIST CPR
EUROPACABLE

europacable[®] cpr.europacable.eu

Spain 

PRESTACIONES CPR SEGÚN APLICACIÓN

REQUISITO MÍNIMO REGLAMENTARIO	NORMA / RECOMENDACIONES	APLICACIÓN
Eco		Reglamento Electrolítico para Baja Tensión (Real Decreto 842/2002) Módulo relativo a instalaciones de baja tensión.
Cuasi-fuente	UNE 21223-4 (6kV-10kV) UNE 21202 (450/750 V)	<ul style="list-style-type: none"> Reglamento de Electrotécnica para Baja Tensión (Real Decreto 842/2002) ITC-BT 016: Instalaciones de enlace. Línea general de administración. ITC-BT 055: Instalaciones de enlace. Derivación individual. ITC-BT 010: Instalaciones de enlace. Combustores subterráneos y sistemas de instalaciones. ITC-BT 028: Instalaciones en locales de pública concurrencia. Decreto 17/2019 de la CC.LA. de Madrid Instalaciones eléctricas interiores de edificios de viviendas, viviendas, locales de reunión, trabajo y otros similares, cualquiera que sea su capacidad de ocupación.


COMENTARIOS

Se incluye la modificación del Reglamento de Infraestructura Central de Telecomunicaciones (ICT) para adaptar los requisitos de emisión al tiempo de los cables a la clasificación CPR.

CPR IN SPAIN
EUROPACABLE

Recommendations for the Selection of Cables under the Construction Products Regulation (CPR)

British Cables Association

BCA Recommendations for the Selection of  **BCA**
British Cables Association

The UK trade association representing manufacturers of electrical, electronic and communications cables and associated systems, together with their accessories.

Issue 1: March 2019 1

Questions

- Questions submitted during the webinar will be answered where possible



Europacable Member Associations may be able to assist

