

CPR and BS6701:2016+A1:2017

At a glance...



What is CPR?

The 'Construction Products Regulation' aims to break down technical barriers and provide a common technical language to assess the performance of construction products and to harmonise the rules for marketing these products.

Four Key Concepts of CPR:

- A system of harmonised technical specifications
- A framework of notified bodies
- A system of conformity assessment for each product family
- CE marking of products



Why is LSOH no longer enough?

Low-smoke, zero-halogen (LSOH) cables were designed to meet three IEC standards:

- IEC60332: Flame Spread
- IEC60754: Smoke Acidity
- IEC61034: Smoke Emission

The CPR applies additional criteria and testing procedures to promote a more **harmonised standard to describe a cable's reaction to fire.**

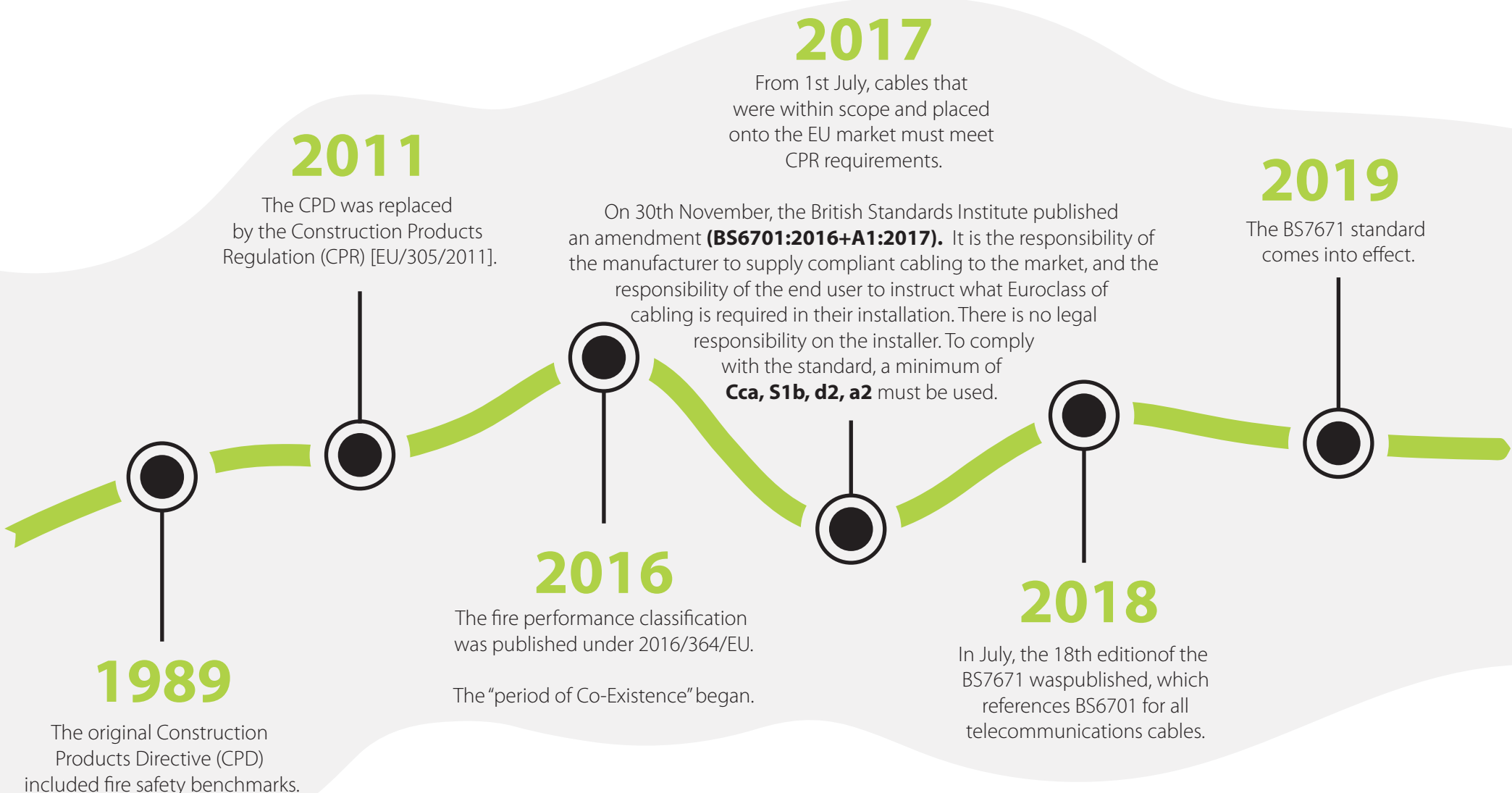
BS6701


Standards Compliance

Most data cabling tender specifications stipulate the requirement for a 'Standards Compliant' system to be supplied.

In the UK, to achieve this you must specify compliance with **BS6701:2016+A1:2017**, which states:

"For new installations and the refurbishment or extension of existing installations within the external fire barrier of the building, installation cables which are subject to the CPR shall as a minimum meet the requirements of Euroclass Cca, s1b, d2, a2."

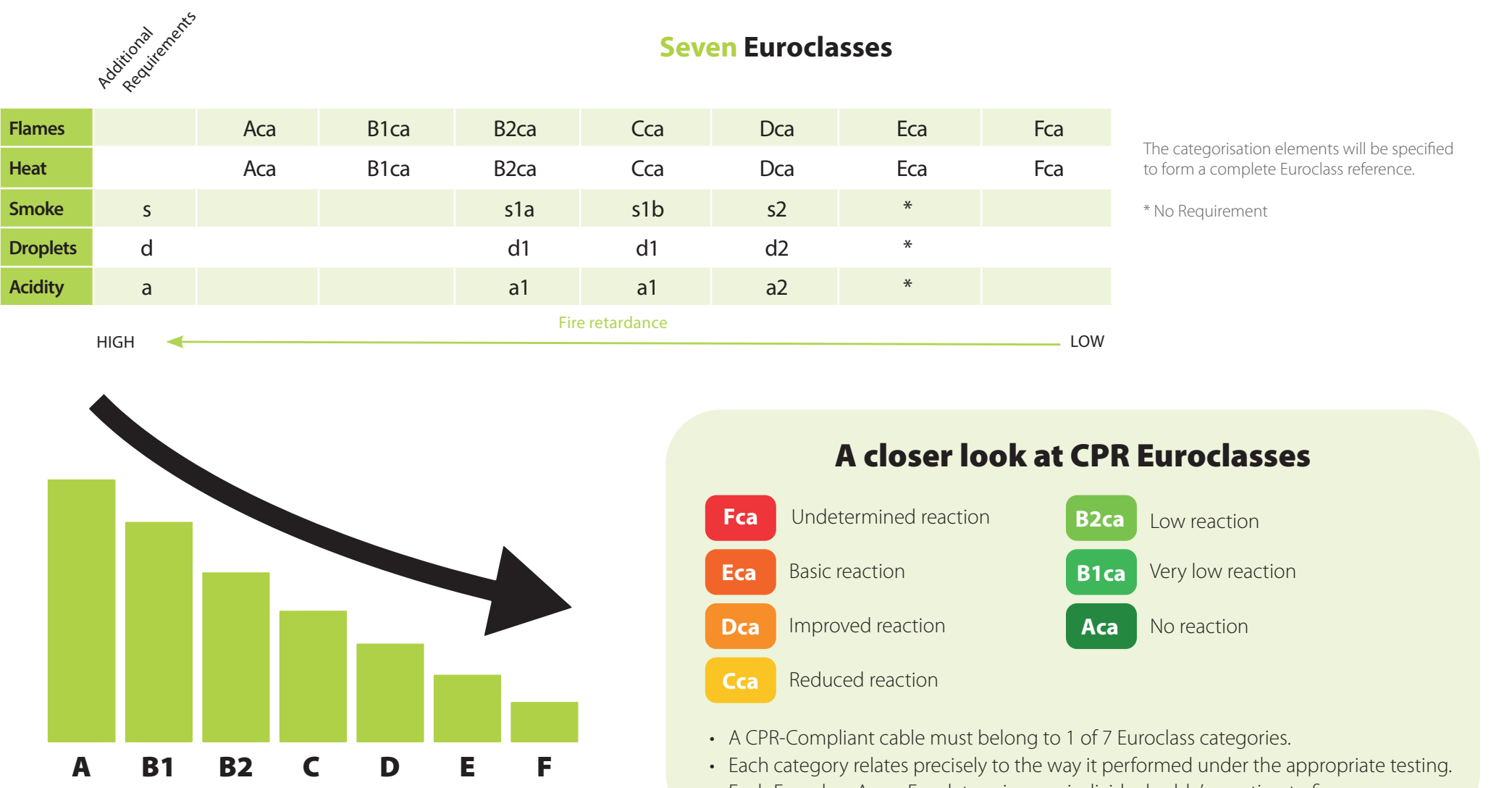


Minimum BS6701:A1 - 2017 UK Threshold		Euroclass (ca)	Classification Criteria	Additional Criteria	Attestation of conformity system	
		A	EN ISO 1716 Gross heat of combustion		1+ Initial type-testing and continuous surveillance with audit testing of samples by 3rd party certification body factory production control (FPC) by manufacturer	
	B1ca Very low contribution to fire	B1	EN 50399 Heat release Flame spread	Smoke production* (s1a, s1b, s2, s3) EN50399/EN61034-2		3 Initial type testing by 3rd party laboratory FPC by manufacturer
	B2ca Low contribution to fire	B2		Acidity (a1, a2, a3) EN60754		
	Cca Reduced contribution to fire	C	EN 50575 Flame propagation	Flaming droplets (d0, d1, d2) EN 50399	4 Initial type testing and FPC by manufacturer	
	Dca Improved contribution to fire	D				
	Eca Basic flame retardance	E	EN 50575 Flame propagation			
	Fca Non flame retardance	F				

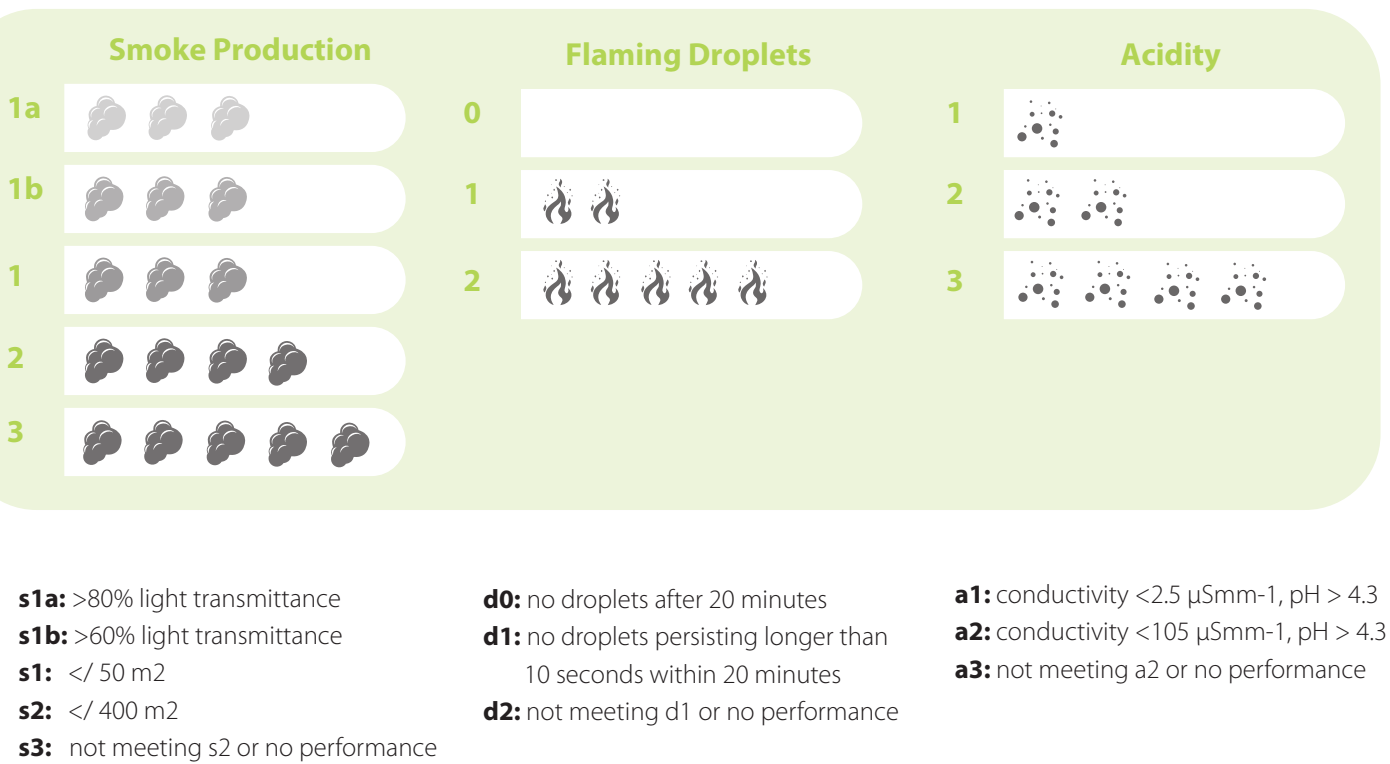


Are all cable types required to comply?

- The CPR applies to all permanently installed cables within a building: communication, power and control cables in fixed installations.
- There is no distinction between copper and fibre, or shielded and unshielded cables.
- The only exception is patch leads, which are not within scope of CPR.



A closer look at the additional classifications



So, which CPR Euroclass should you choose?

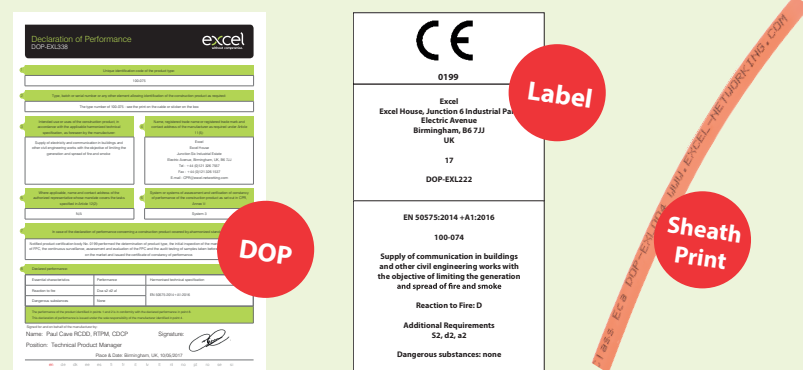
Different Member States require different CPR classification levels for various applications. Each Member State may implement the standard in line with their regional requirements. For example, hospitals require a B2ca rating in some countries, but only a Cca rating in others.

To achieve standards compliance in the UK, it is important to choose a cable with a CPR Euroclass of **a minimum of Cca, s1b, d2, a2** - as stipulated in **BS6701:2016+A1:2017**. This applies to any new installations or the refurbishment and/or extension of existing installations within the external fire barrier of the building.

We advise to always check with a country's local regulations.

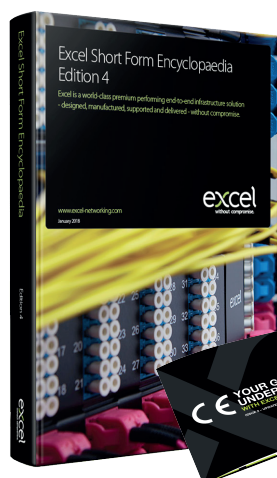
Our Commitment to you...

The regulation defines a clear process and requirements for proof of compliance to a specific Euroclass. When purchasing products in scope of CPR it is advisable to request suppliers to provide confirmation of compliance by means of a DOP or to demonstrate that the product was placed on the market prior to July 2017. Inability to meet either of these requests should cause alarm and we would recommend a 'proceed with caution' approach.



Excel's Euroclass Compliance

	B2ca	Cca	Dca	Eca
CAT 7_A	✓		✓	
CAT 6_A	✓	✓	✓	
CAT 6	✓		✓	
CAT 5e	✓		✓	
Loose Tube Fibre		✓	✓	
Loose Tube CST Fibre		✓		✓
Loose Tube SWA Fibre				✓
Tight Buffered Fibre		✓		



Find out more in our CPR Pocket Guide and our Excel Encyclopedia V4!
Go to section 2!



Excel Explains... CPR

Our series of "Excel Explains" webinars has been designed to provide important technology updates in bite size sessions and are based on frequently asked questions received by our Technical Team. The first series focused on the Construction Products Regulation, covering various topics in more detail.

Take a look:-
<https://www.excel-networking.com/excel-explains-cpr>

Are you up to speed on CPR?



If you have any questions about CPR, contact our specialist team at cpr@excel-networking.com.
For sales enquiries, please contact our team at sales@excel-networking.com or call 0121 326 7557.