



CPR Regulations

Clarification on the facts
surrounding CPR requirements
and how to avoid the risk
of non-compliance

Published in 2011, (EU 305/2011) the Construction Products Regulation, defines the fire performance of all construction products. Under this regulation, all construction products and building materials installed in the European Union (EU) must contain the CE mark that provides proof of compliance.

Siemon have created this document to provide our clients with the information they need to comply and some of the facts behind the new legislation.

- Explain the requirements of the new CPR Requirements for both copper and Fibre communications cable which come into effect as legislation across Europe from the 1st July 2017.
- Clarification on the facts surround CPR requirements and avoiding the risk of non-compliance
- How to ensure that you have 100% correctly approved products that fully meet the requirements of EN 50575: 2014 + Amendment 1: 2016.
- FAQs on this hot topic

The European Union's (EU) Construction Product Directive (CPD) now known as the Constructive Products Regulation (CPR) is applicable as law in all EU Member States and as such cables shall be required to be compliant from the 1st July 2017. Each EU Member State will specify regional fire safety requirements and all communication cables will be required to clearly demonstrate with Third Party Test reports and manufacturers Declarations of Performance (DoP) statements outlining compliance to the relevant country & regional fire safety requirements.

⚠ WARNING - Pay attention to compliance statements ⚠

There are some manufacturers currently showing compliance to the CPR requirements based on technical standards documents or technical reports that have been superseded and are no longer current or fully applicable. Certified 3rd party test labs known as Notified Bodies were not established until July 2016. Therefore, Siemon advises that all end users ensure that they request and receive current, valid third party certification and relevant **Declaration of Performance (DoP)** documentation after this date which is fully compliant to the latest published standards such as (but not limited to):

-  **EN 50575** Power, control and communication cables. Cables for general applications in constructions works subject to reaction to fire requirements.
-  **EN 13501** Fire classification of construction products and building elements. Classification using data from reaction to fire tests on electric cables.
-  **EN 50399-2011** Common test methods for cables under fire conditions. Heat release and smoke production measurement on cables during flame spread test. Test apparatus, procedures, results.
-  **EN 60332-1-2** Tests on electric and optical fibre cables under fire conditions. Test for vertical flame propagation for a single insulated wire or cable. Procedure for 1 kW pre-mixed flame.
-  **EN 50267-2-3** Acidity of gases produced by burning cables. Test on gases evolved during combustion of materials from cables. Determination of acidity (by pH measurement) and conductivity.
-  **EN 61034-2** Measurement of smoke density of cables burning under defined conditions. Test procedure and requirements.

Siemon is committed to having the relevant cables for specific European Countries by the 1st July 2017.

Siemon has set-up a dedicated webpage to update information on CPR and our Declaration of Performance (DOP) statements. The latest FAQs will also be listed on the page and give users the ability to ask a Siemon expert on CPR compliance.

 **For the latest information, please visit - www.siemon.com/cpr**

If you have any questions pertaining to this bulletin or other related issues, please contact our Technical Support Group at the Siemon Company EMEA headquarters on **+44 (0)1932 571 771**.

How Does CPR and the CE Mark Relate to Communications Cable?

As of 10th June 2016, copper and Fibre telecommunications cabling is now subject to the CPR with a one year transition period. This means that as of 1st July 2017, all copper and Fibre cables supplied to EU member states must comply with the regulation and carry the CE marking. With CPR specifications developed and adopted by EU member states, the regulation facilitates trade between EU member states for any construction products that are intended to be **permanently** incorporated into a building.

It's important to note that the CE mark does denote quality, it means that the product meets standards for health, safety and economy of energy. It also only relates to cables intended for permanent installation, which excludes non-fixed cabling infrastructure components such as patch cords and jumpers.

What are Euroclasses?

Under the CPR, existing IEC 60332 flammability ratings will be replaced by different reaction to fire performance known as Euroclasses. There are seven Euroclasses - A, B1, B2, C, D, E, and F - whereby A is the most flame retardant and F is the least. The requirements for the Euroclasses are outlined in the recently published standard EN50575, Power, control and communication cables - Cables for general applications in construction works subject to reaction to fire requirements.

Who Determines what Euroclass is Required?

EU member states are required to follow CPR and each EU member state will decide which Euroclasses to adopt for their specific construction standards and regulations. Euroclasses B through D are considered low flame retardant cables and must meet EN 50399 Flame Spread testing in addition to EN 60332-1-2 while Euroclass E need only meet EN 60332-1-2 and Euroclass F has no determined performance. Broad use of Euroclass D and E is expected for standard commercial premises throughout the EU.

How Does the Regulation Impact Cabling Manufacturers?

Any cable manufacturer wishing to sell Fibre and copper communications cable into EU is required to have their cables tested for CPR compliance with a "notified body" required to certify test results. Manufacturers must then publish a Declaration of Performance (DoP) and affix the CE mark to its cable products and product labels. The purpose of the DoP is to hold manufactures responsible for conforming to the declared specification. As previously noted, all manufacturers supplying copper and Fibre cables to EU member states must issue a DoP and affix CE marking to cable by 1st July 2017.

What is Siemon Doing to Prepare for CPR Compliance?

As a leader in the structured cabling industry, Siemon is currently working with Notified Bodies to test its existing copper and Fibre cables and establish Euroclass specifications. We are on schedule to receive Euroclass D and E certification for the bulk of our copper and Fibre cables and are targeting to offer CPR compliant product with CE marking before 1st of July 2017. Siemon will continue to monitor all standards, trends and adopted Euroclasses within the EU and adapt cables where necessary.

 **Visit - www.ec.europa.eu/growth/sectors/construction/product-regulation_en**



Siemon's Commitment

Many of Siemon cables have already been 3rd party tested and are already complying to Euroclasses E, D, C and B2 requirements.

Our customers can be rest assured that Siemon will offer copper and fibre cables to meet a wide range of application and EU member state requirements. Please check www.siemon.com/cpr for updates as more cable types and Euroclass compliance are achieved.

Following completion of System 1+ requirements (for Class C and higher), Siemon's Euroclass compliance will be declared and DOPs issued with associated CE marks on product labels for both copper and fibre cables. For easy access to DOPs, Siemon affixes QR codes to each of its product labels that can be easily scanned to take users directly to the online DOP for that specific cable. DOPs can also be accessed from the www.siemon.com/cpr website and questions regarding specific CPR compliancy can be directed to a technical specialist on the matter.



If you have any questions pertaining to this bulletin or other related issues please contact our Technical Support Group at the Siemon Company EMEA headquarters on +44 (0)1932 571 771.