



PROTECTING PEOPLE IS NOT AN OPTION,
IT IS OUR RESPONSIBILITY

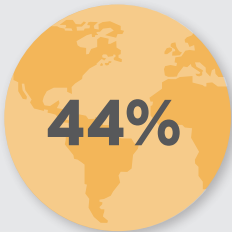
Televés[®]

FIRE PROTECTION

Fire causes thousands of deaths all over the world



4000 people death each year due to fire (data from "Bulletin of Fire Statistics, Geneva Association).



44% of the deaths are due to toxic gas or smokes.



90% of fires are in buildings (Report N° 10 of Centre of Fire Statistics of CTIF, World Fire Statistics 2006). Besides this, people spend 90% of their time inside their houses, at offices or in public buildings, etc.

WHAT IS CPR?



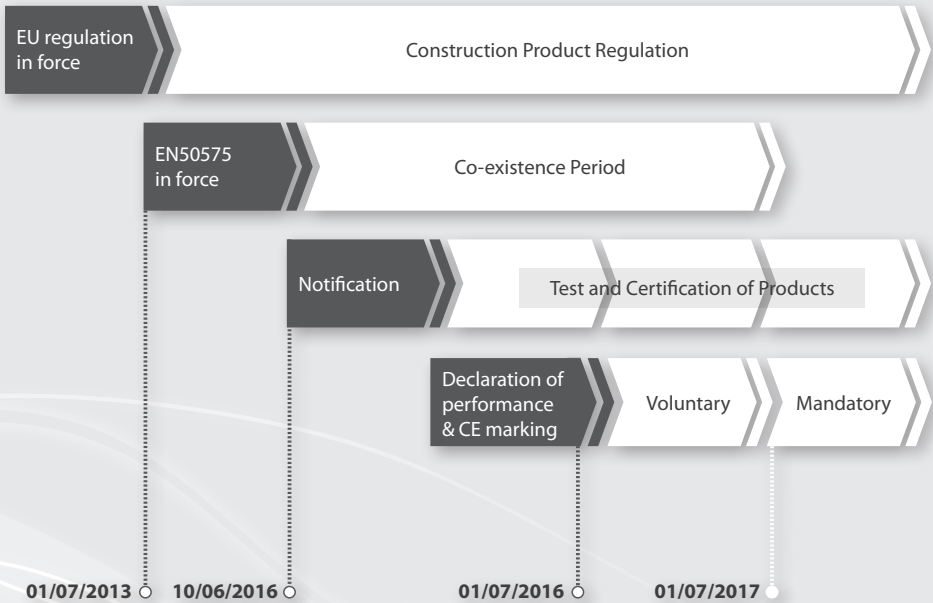
The Construction Products Regulation (CPR) lays down harmonized rules for the marketing of construction products in the EU. This regulation provides a common technical language to assess the performance of construction products, including cabling for fixed installations. In this way, it ensures that reliable information, “common technical language” is available to professionals, public authorities and consumers, so that they can compare the performance of products from different manufacturers in different countries.

The CPR has different requirements against which products may be assessed. One of these requirements is applied to wire and cable that address safety in the case of fire. Reaction to fire performance, according to the product standard EN50575:2014+A:2016 included:

- Reaction to fire.
- Resistance to fire.
- Release of dangerous substances in normal operation, dismantling and recycling.

WHEN DOES CPR START?

CPR started in June 2016 but they have given a transition period to comply with the regulation a deadline of July 2017. That means, after 1st July 2017 all cables in permanent installations in any European building or civil engineering works, offered for sale must be CE marked and need to have a Declaration of Performance (DoP).



WHO DOES CPR AFFECT?

CPR affects distributors, integrators, manufacturers, end users, architects, contractors, engineers or anyone involved in European buildings and the materials used in their construction, all of them must comply with CPR requirements.

HOW DOES CPR AFFECT MANUFACTURERS AND DISTRIBUTORS?

CPR affects manufacturers because they are the people that place the product in the European market and therefore must:

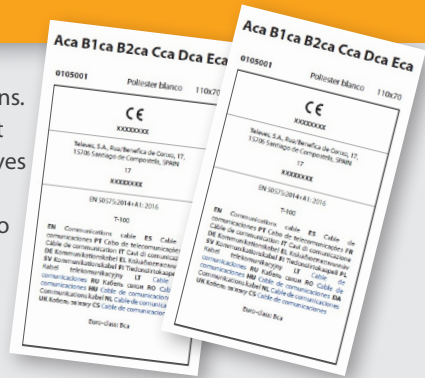
- Declare the performance of their products drawing up his DoP (Declaration of Performance) and assumes the responsibility for the conformity of the construction product with the declared performance.
- Implement a certification system (AVCP), continuous surveillance of the products.
- Establish and keep, 10 years supporting technical documentation.
- Affix the CE marking, only the CE logo is not enough, also detailed accompanying information relating to the manufacturer, the product and the AVCP system.

CPR also affects distributors and importers because they sell the products into the European market, they must check that all the products have the CE marking, the DoP and all associated information.

WHAT WILL TELEVÉS DO WITH THEIR CABLES?

Televés is ready to comply with the European regulations. For us safety is paramount and protecting people is not an option it is our responsibility as manufacturers. Televés will comply with the CPR requirements and will have cables available from class B2ca to F. This will allow us to comply with the requirements of all European markets and also satisfy the demands in any other country.

Televés will mark the cable with the corresponding Euroclass and CE mark. This information will be displayed on the outer sheath, on the box and also on the label.



DATA CABLE CLASSIFICATION

EUROCLASS Dca

| CAT-6 U/UTP | CAT-6 F/UTP |
|--|---------------------------------------|
| Ref. 2123: Ø 6.2mm LSFH Violet 305m | Ref. 212101: Ø 7.2mm LSFH Violet 500m |
| Ref. 212302: Ø 6.2mm LSFH Violet 1000m | |

EUROCLASS Eca

| CAT-5E U/UTP | CAT-5 F/UTP |
|--------------------------------------|------------------------------------|
| Ref. 219602: Ø 5.5mm LSFH Grey 305m | Ref. 219502: Ø 5.5mm LSFH Grey 305 |
| Ref. 219603: Ø 5.5mm LSFH White 305m | |

| CAT-6 U/UTP |
|--|
| Ref. 212310: Ø 6.0 mm LSFH Violet 305m |
| Ref. 2199: Ø 6.2mm PVC White 305m |

EUROCLASS Fca

| CAT-5E U/UTP | CAT-6 U/UTP |
|------------------------------------|--|
| Ref. 219701: Ø 5.5mm PE Black 305m | Ref. 212201: Ø 6.2mm PE White 305m |
| | Ref. 2199-01/-02: Ø 6.2mm PVC White 305m |
| | Ref. 219910: Ø 6.2mm LSFH Violet 305m |

COAXIAL CABLE CLASSIFICATION

EUROCLASS B2ca: Outer sheat LSFH

SK2020PLUS White, NEW in the future.

EUROCLASS Dca: Outer sheat LSFH

CXT EN 50117-2-4 Class A 19VAtC Ø 1.00/4.5/6.5mm

Ref. 212811: 250m, Grey

T-200 Plus EN 50117-2-4 Class A 15VRtC Ø 1.20/5.0/6.9mm

Ref. 213002: 250m, Grey

T-100 Plus LSFH EN 50117-2-4 Class A 16VRtC Ø 1.13/4.8/6.6mm

Ref. 215101: 100m, Grey

SK2003PLUS: UV Resistant EN 50117-2-5 Class A+ Triple Shielded 18AtC Ø 1.02/4.6/6.70mm

Ref. 414002 / Ref. 414003 / Ref. 414004: 100m / 250m / 500m, Black

EUROCLASS Eca: Outer sheat PVC

CXT-50 EN 50117-2-1 Class A 23VAtC.A Ø 0.8/3.8/6.0mm

Ref. 210102: 250m, White

CXT-60 EN 50117-2-1 Class A 19VAtC.A Ø 1.00/4.7/6.9mm

Ref. 210202: 250m, White

CXT-5 EN 50117-2-4 Class A 24VAtC Ø 0.8/3.5/5.0mm (Plastified Coil)

Ref. 210601: 150m, White

SKY CXT-5 EN 50117-2-4 24VAtC Ø 0.8/3.5/5.0mm

Ref. 210603: 100m, White

SKY CXT-5 EN 50117-2-4 24VAtC Ø 0,8/3,5/5,0mm

Ref. 211602: 200m, White

COAXIAL CABLE CLASSIFICATION

T-100 EN 50117-2-4 Class A 16VAtC Ø 1.13/4.8/6.6mm White

Ref. 2126 / Ref. 212601 / Ref. 212602 / Ref. 212604: 100m White / 250m W. / 250m Black / 250m White

CXT-1 EN 50117-2-4 Class A 17VAtC.A Ø 1.00/4.7/6.7mm

Ref. 2127 / Ref. 212701 / Ref. 212702 / Ref. 212703 / Ref. 212704: 100m White/ 100m Black/ 250m Black / 250m White / 500m White

CXT EN 50117-2-4 Class A 19VAtC Ø 1.00/4.5/6.5mm White

Ref. 2128 / Ref. 212801: 100m / 250m, White

CXT EN 50117-2-4 Ø 1.00/4.8/6.6mm

Ref. 2138 / Ref. 213802: 100m / 250m, White

CXT EN 50117-2-4 Ø 1,00/4,8/6,6mm

Ref. 2139: 100m, Black

T-100 Plus EN 50117-2-4 Ø 1.13/4.8/6.6mm

Ref. 2141: 100m, White

T-100 Plus EN 50117-2-4 Class A 16VRtC Ø 1.13/4.8/6.6mm White

Ref. 214102 / Ref. 214104 / Ref. 214108: 100m White / 250m White / 100m Black

SK100PLUS: EN 50117-2-4 Class A+ Triple Shielded 18VAtC Ø 1.02/4.6/6.70mm

Ref. 413601 / Ref. 413602 / Ref. 413603: 100m / 250m / 500m, White

SK110PLUS: EN 50117-2-4 Class A+ Triple Shielded 18VAtC Ø 1.02/4.6/6.70mm

Ref. 413704 / Ref. 413705 / Ref. 413706 / Ref. 413707: 250m White / 100m W./ 500m W. /250m Black

SK2000PLUS: EN 50117-2-4 Class A+ Triple Shielded 18VAtC Ø 1.02/4.6/6.70mm

Ref. 4138 / Ref. 413801/ Ref. 413802: 100m / 500m / 250m, White

SK2000/2PLUS: EN 50117-2-4 Class A Triple Shielded 18VAtC Ø 1.02/4.6/6.70mm

Ref. 4141: 100m, White

SK0729PLUS: EN 50117-2-4 Class A 32VAtC Ø 0,65/2,7/4,2mm

Ref. 4144 / Ref. 414401: 100m / 500m, White

COAXIAL CABLE CLASSIFICATION

SK0729/2PLUS: EN 50117-2-4 Class A 32VAtC 2 x 0,65/2,7/4,2mm

Ref. 4145: 100m, White

SK0837PLUS: EN 50117-2-4 Class A 24VAtC 0,8/3,4/5,0mm

Ref. 4146: 100m, White

SK0837PLUS: EN 50117-2-4 Class A 24VAtC 2 x 0,8/3,4/5,0mm

Ref. 414601: 100m, White

SK6FPLUS: EN 50117-2-4 Class A 19VAtC.A 1,0/4,6/6,6mm

Ref. 414801 / Ref. 414802 / Ref. 414803: 100m / 250m / 500m, White

EUROCLASS Fca: Outer sheat PE

T-100 EN50117-2-5 Class A 16PAtC Ø 1.13/4.8/6.6mm

Ref. 212501 / Ref. 212502: 100m / 250m, Black

1/2" EN50117-2-5 7VRtC Class A Ø 2.7/11.5/15.0mm

Ref. 2140: 500m, Black

TR-165 EN50117-2-5 11PRtC Class A Ø 1.63/7.2/10.1mm

Ref. 214901: 250m, Black

T-100 Plus EN50117-2-5 16PRtC Class A Ø 1.13/4.8/6.6mm

Ref. 215501 / Ref. 215502: 100m / 250m, Black

WHAT DOES EUROCLASSES MEAN?

Euroclasses are a new European classification created to harmonize the standards with regards to cable's performance with fire. This class has 7 levels put in order from high to low reaction to fire performance. Non combustible (Aca), Low Fire Hazard (B1ca, B2ca, Cca and Dca), and Flame propagation (Eca) and (Fca).

| | Euroclass Level | Classification Criteria | Additional Criteria | AVCP System <i>(Assessment and Verification of Consistency of Performance)</i> |
|---------------------------|-----------------|--|---|---|
| Non combustible | Aca | EN ISO 17616 Gross heat of combustion | | |
| Low Fire Hazard Cables | B1ca | EN 50399 Heat Release Flame Spread | Smoke Production (s1a, s1b, s2, s3) EN 50399/EN61034-2 Acidity (a1, a2, a3) EN 50267-2-3 Flaming Droplets (d0, d1, d2) EN50399 | "1+", including: - Initial Type-Testing and continuous surveillance. - Audit and testing of samples By 3 rd Party Certification Body Factory Production Control By manufacturer |
| | B2ca | | | |
| | Cca | | | |
| | Dca | | | |
| Standard Cables | Eca | EN 60332-1-2 Flame Propagation | | "3", including: - Initial Type-Testing By 3 rd Party Laboratory Factory Production Control By Manufacturer |
| No Performance Determined | Fca | EN 60332-1-2 Flame Propagation | | "4" Initial Type-Testing and Factory Production Control By Manufacturer |

WHAT IS A DECLARATION OF PERFORMANCE (DOP) AND CE-MARK?



The Declaration of Performance (DoP) is a key part of the Construction Products Regulation (CPR) and it provides information on the performance of a product.

The manufacturer draws up a document for every product covered by the CPR following regulatory guidelines, which:

- identifies the product
- states its intended use
- its essential characteristics as given by its declared performance, “Euroclasses”: Reaction to fire, resistance to fire and release of dangerous substances.

All the information supplied by the manufacturer in the DoP is obtained by strictly applying the methods and criteria provided in the relevant harmonized standard. This helps increase transparency and improves the functioning of the Single Market.

The CE marking indicates that a construction product is in conformity with its declared performance and that it has been assessed according to a harmonized European Standard or European Technical Assessment has been issued for it.

It’s important to note that the CE mark does denote quality, this mark means that the product meets standards for health, safety and economy of energy.

Televes® in the world



PASSION for QUALITY

SPAIN (HEAD OFFICE)

Televes S.A.
Rúa B. de Conxo, 17
15706 Santiago de Compostela
42° 51' 43.6212" N, 8° 33' 27.702" W
T. +34 981522200
F. +34 981522262
televes@televes.com

BARCELONA

Carrer Sant Ferrán, 27
08940 Cornellà de Llobregat (Barcelona)
41° 21' 9.054" N, 2° 5' 7.8324" E
T. +34 902686415
F. +34 934745006
barcelona@televes.com

LAS PALMAS

Gral. Mas de Gaminde, 26
35006 Las Palmas
28° 7' 55.884" N, 15° 26' 1.356" W
T. +34 902686407
F. +34 928231366
laspalmas@televes.com

MADRID

Paseo los Pontones, 11
28005 Madrid
40° 24' 22.5576" N, 3° 42' 46.35" W
T. +34 902686416
F. +34 914745421
madrid@televes.com

FRANCE

Televes France SAS
1 Rue Louis de Broglie
Parc d'Activités de l'Esplanade
77400 St-Thibault des Vignes (FRANCE)
48° 51' 48.5136" N, 2° 40' 26.0724" E
T. +33 0 1 60 359210
F. +33 0 1 60 359040
televes.fr@televes.com

GERMANY

Televes Deutschland GmbH
Küferstraße 20
73257 Köngen (GERMANY)
48° 40' 42.0168" N, 9° 22' 25.932" E
T. +49 70 2446860
F. +49 70 246295
televes.de@televes.com

ITALY

Televes Italia S.r.l.
Sop. Viale Liguria 16
20068 Peschiera Borromeo (MI) (ITALY)
45° 25' 50.2644" N, 9° 19' 26.2668" E
T. +39 0251650604 (RA)
F. +39 0255307363
televes.it@televes.com

POLAND

Televes Polska Sp. z o.o.
ul. Bardzka 60,
50-517 Wrocław (POLAND)
51° 5' 26.106" N, 17° 2' 38.094" E
T. +48 71 7901115
F. +48 71 7901112
televes.polska@televes.com

PORTUGAL

Televes Electrónica Portuguesa Lda.
Via Dr. Francisco Sá Carneiro. Lote 17.
ZONA Ind. Maia 1. Sector-X.
4470-518 Barca, Maia (PORTUGAL)
41° 14' 58.344" N, 8° 37' 48.2196" O
T. +351 229478900
F. +351 229488719
GSM +351 968581614
televes.pt@televes.com

LISBOA

Rua Augusto Gil, 21A.
1000-518 Lisboa
38° 44' 38" N, 09° 08' 27" O
T. +351 217932537
F. +351 217932418
televes.lisboa@televes.com

RUSSIA

Televes RUSS.
Volokolamskoye shosse, 142, str.6, 603, 617
125464 Moscow (RUSSIA)
55° 49' 46.05" N, 37° 22' 16.45" E
T. +7 495 107 90 95
F. +7 495 107 90 96
televes.russia@televes.com

SCANDINAVIA

Televes Scandinavia AB.
Vannhögsgatan 7,
231 66 Trelleborg (SWEDEN)
55° 23' 05.7" N, 13° 08' 42.3" E
T. +46 410 36 36 00
F. +46 410 36 36 01
televes.sc@televes.com

UNITED ARAB EMIRATES

Televes Middle East FZE
P.O. Box 17199
Jebel Ali Free Zone Dubai (UAE)
24° 57' 39.7548" N, 55° 3' 48.8232" E
T. +971 4 8834344
F. +971 4 8834644
televes.me@televes.com

UNITED KINGDOM

Televes United Kingdom Ltd.
Unit 11 Hill Street, Industrial Estate
Cwmbran, Gwent NP44 7PG (UK)
51° 38' 34.8144" N, 3° 1' 23.88" W
T. +44 01 633 875821
F. +44 01 633 866311
televes.uk@televes.com

USA

Televes USA LLC.
425 S Cherry St, Suite 635
Denver, CO 80246 (USA)
39° 42.5368" N, 104° 56.0513" W
T. +1 303 2566767
F. +1 303 2566769
televes.usa@televes.com

CHINA

Televes Trade (Shanghai) Co., Ltd.
Unit 207-208, Building A, No 374
Wukang Rd, Xuhui District, Shanghai
P.R.C. 200031 (CHINA)
31° 12' 23.5692" N, 121° 26' 21.9804" E
T. +86 21 61267620
F. +86 21 644666431
shanghai@televes.com.cn