



CPR

Construction Products Regulation

WHAT IS CPR?

CPR stands for Construction Products Regulation and it is a European Regulation (UE/305/2011) setting the conditions for the marketing of construction products and the use of CE marking.

The harmonized rules included in the Regulation define the methods and criteria to classify construction products according to their fire behaviour (Euroclasses).

Purpose of the Regulation is to increase the safety in the buildings, by creating a common classification system for construction products valid in all European countries.

CPR AND INSTALLATION CABLES

CPR Regulation defines the Construction Products as all those products that are installed permanently in buildings or civil engineering works. Also cables either power, signal or telecommunication cables are considered as construction products, except machinery connecting cables, extensions and patch-cords.

The main characteristic for the cables is the fire "reaction" and "resistance". Also the release of harmful substances is a relevant performance for the cables, even though till now no minimum performance limits have been set as in their normal use they do not release any harmful substance.

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CPR timing

For the cables the Regulation is effective from June 2016.

Till **July 1st 2017** there is a coexistence period during which cables with or without CE marking can be introduced in the market referred to CPR.

After July 1st 2017 the cables with no CE marking can be used in application different from buildings and civil engineering works and in countries outside of the EU.

EUROCLASSES for the cables

All cables (power, telecommunication and optical) must be classified according to the Euroclasses based on their installation environment.

According to the reaction-to-fire performances there are **7 Classes**, identified by the subscript «ca» (cable) based on their decreasing performances.

Each Class defines minimum requirements for heat release and flame propagation. On top of this main classification, European Authorities have included also some additional parameters:

a = acidity and corrosion of smoke vs. people

or things (a1 to a3)

s = release and opacity of fumes (s1 to s3)

d = dropping of flaming particles that can propagate fire (d0 to d2)

Member Countries will define the fire reaction class in relation with the installation environment.

A_{ca} No reaction to fire

B1_{ca}

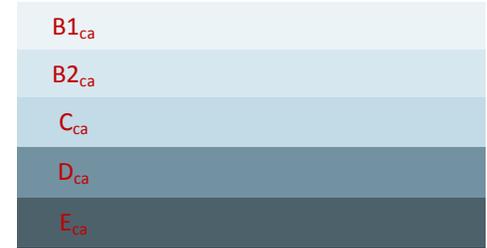
B2_{ca}

C_{ca}

D_{ca}

E_{ca}

F_{ca} Not determined



"All cables introduced in the market from July 1st 2017 must bear CE marking in compliance with CPR Regulation"

CLASS EN13501-6	METODO DI PROVA	CLASSIFICATION CRITERIA	ADDITIONAL CLASSIFICATION
A_{ca}	EN ISO 1716	PCS ≤ 2,0 MJ/kg (1)	
B1_{ca}	EN 50399/A1 e EN 60332-1-2	FS ≤ 1,75 m THR 1200 s ≤ 10 MJ Picco HRR ≤ 20 kW FIGRA ≤ 120 Ws ⁻¹ H ≤ 425 mm	Smoke production (2,5), dropping of flaming particles (3), acidity (pH) and smoke conductivity (4)
B2_{ca}	EN 50399/A1 e EN 60332-1-2	FS ≤ 1,5 m THR 1200 s ≤ 15 MJ Picco HRR ≤ 30 kW FIGRA ≤ 150 Ws ⁻¹ H ≤ 425 mm	Smoke production (2,6), dropping of flaming particles (3), acidity (pH) and smoke conductivity (4)
C_{ca}	EN 50399/A1 e EN 60332-1-2	FS ≤ 2,0 m THR 1200 s ≤ 30 MJ Picco HRR ≤ 60 kW FIGRA ≤ 300 Ws ⁻¹ H ≤ 425 mm	Smoke production (2,6), dropping of flaming particles (3), acidity (pH) e smoke conductivity (4)
D_{ca}	EN 50399/A1 e EN 60332-1-2	THR 1200 s ≤ 70 MJ Picco HRR ≤ 400 kW FIGRA ≤ 1300 Ws ⁻¹ H ≤ 425 mm	Smoke production (2,6), dropping of flaming particles (3), acidity (pH) and smoke conductivity (4)
E_{ca}	EN 60332-1-2	H ≤ 425 mm	
F_{ca}	Performances are not determined		

Assessment and Verification of Constancy of Performance System **AVCP**

The compliance to the Euroclass and the constancy of the performances can be performed only by Notified and Independent Bodies. For the classes from Aca to Cca the verification system (AVCP I+) prescribes the type testing initial and continuous—inspection and evaluation of the FCP as well as audit testing of samples.

For the classes Dca and Eca requires only the initial type testing (AVCP 3). Class F only requires an autodeclaration made by the manufacturer (AVCP 4).

The list of the Notified Bodies can be checked online on the UE System «NANDO» .

OUR CABLES

All cables coded and stocked comply with CPR CERTIFICATION and bear the CE marking based on CPR Regulation.

On the side page you find the cables chart with their CPR Euroclass of fire behaviour

CPR Ready!



OUR CABLES

Product code	Description	EUROCLASS				
						
CATEGORY 5 ENHANCED						
M0502057	Cable CPR 6707 U/UTP Cat.5E 4x2xAWG24/1 - PVC					
M0502091	Cable CPR 6707 U/UTP Cat.5E 4x2xAWG24/1 - LSZH					
M0502077	Cable CPR 6727 F/UTP Cat.5E 4x2xAWG24/1 - PVC					
M0502098	Cable CPR 6727 F/UTP Cat.5E 4x2xAWG24/1 - LSZH					
CATEGORY 6						
M0502820	Cable R6UT4Y23 U/UTP Cat.6 4x2xAWG23/1 - PVC					
M0502701	Cable R6UT4H24 U/UTP Cat.6 4x2xAWG24/1 - LSZH					
M05D2701	Cable R6UT4H24 U/UTP Cat.6 4x2xAWG24/1 - LSZH NEW!					
M0502669	Cable R6UT4H23 U/UTP Cat.6 4x2xAWG23/1 - LSZH					
M05D2669	Cable R6UT4H23 U/UTP Cat.6 4x2xAWG23/1 - LSZH NEW!					
M0502668	Cable R6FT4H23 F/UTP Cat.6 4x2xAWG23/1 - LSZH					
CATEGORY 6A - 500MHz						
M0502831	Cable R6A-UT4H23 U/UTP Cat.6A 4x2xAWG23/1 - LSZH					
M0502833	Cable R6A+UT4H23 U/UTP Cat.6A 4x2xAWG23/1 - LSZH					
M0502832	Cable R6A-FT4H23 F/UTP Cat.6A 4x2xAWG23/1 - LSZH					
M0502825	Cable R6A-FF4H23 F/FTP Cat.6A PiMF 4X2X23/1AWG - LSZH					
M05C2823	Cable R6A-UFT4H23 U/FTP Cat.6A 4x2xAWG23/1 - LSZH NEW!					
M05B2823	Cable R6A-UFT4H23 U/FTP Cat.6A 4x2xAWG23/1 - LSZH NEW!					
CATEGORY 7 - PiMF - 1000Mhz						
M05D2710	Cable R7ST4H23S - S/FTP Cat.7 4x2xAWG23/1 - LSZH fire retardant IEC 60332-3-24					
M05D2716	Cavo R7AST4H22 - S/FTP Cat.7 4x2xAWG22/1 - LSZH fire retardant IEC 60332-3-24					
DOUBLE JACKET- OUTDOOR - CEI UNEL 36762						
M0502100	Cable CPR 6709 U/UTP Cat.5E 4x2xAWG24/1 double jacket PVC/PE					
M0502200	Cable R6UT4YPE23 U/UTP Cat.6 4x2xAWG23/1 double jacket PVC/PE					



Cables on stock



Certified cables— produced on order base



Cables under certification process

DOP - DECLARATION OF PERFORMANCE

After the release by the Notified Body of the Certificate of Constancy of Performance or the test report for the Classes Eca and Dca, the manufacturer must issue a Declaration of Performance (DoP). DoP is an official document available to the applicant in paper or electronic format where the manufacturer identifies the product, describes the performance in relation to its essential characteristics such as fire reaction according to EN 50575 and emission of harmful substances based on the Euroclass of the product itself.

Each numbered DoP uniquely matches a single product and is identified by a unique alphanumeric code

The DoP contains the following data: manufacturer's name, product code, usage indication, AVPC system level (Assessment and Verification of Constancy of Performance), Notified Body's identification number, Declaration of Performance, date of issue.



 QUBIX SpA Networking Solutions Via Canada 22/A, 35127 Padova, Italy www.qubix.it		 8 031912 000422
Codice M0502057-0023	Q.ta 305 mt	
Descrizione Cavo CPR6707 C5E U/UTP AWG24 PVC Eca	Lotto 165/17/02	
	NB xxxx	Reazione al fuoco / Reaction to Fire
	Year 17	Eca
	DoP CC03AB	Sostanze pericolose / Dangerous substances
	ITEM M0502057 EN 50575:2014 + A1:2016	Nessuna /none
	Riferimento DoP / Related DoP www.qubix.it/qbx dop	
	Cavi per telecomunicazioni in costruzioni e altre opere di ingegneria civile con l'obiettivo di limitare la produzione e la propagazione del fuoco e del fumo	
	Telecommunication cables in buildings and other civil engineering works with the objective of limiting the generation and spread of fire and smoke	

HOW TO GET THE DOP



Riferimento DoP / Related DoP
www.qubix.it/qbx dop

All LAN cables packagings - reels or boxes bear a QRcode on the label.

Scanning this code you will be directed to a web page where you can download the DoP of the requested product.

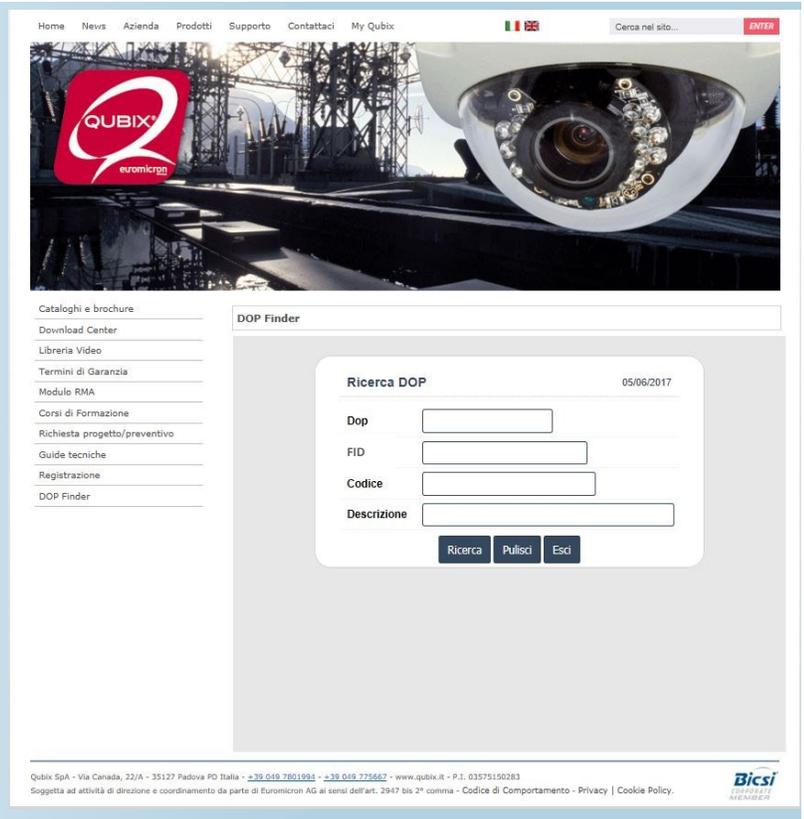
CE marking for Qubix cables

DOP - FINDER

In case the packaging is not to be found don't worry, in our website you find a section with a search tool

"DOP finder"

With the data printed on the cable sheath you can easily trace the DoP.



The screenshot shows the Qubix website interface. At the top, there is a navigation menu with links for Home, News, Azienda, Prodotti, Supporto, Contattaci, and My Qubix. A search bar is located in the top right corner. The main content area features a large image of a Qubix camera lens. Below the image, there is a sidebar with a list of links: Cataloghi e brochure, Download Center, Libreria Video, Termini di Garanzia, Modulo RMA, Corsi di Formazione, Richiesta progetto/preventivo, Guide tecniche, Registrazione, and DOP Finder. The main content area is titled "DOP Finder" and contains a search form with the following fields: "Ricerca DOP" (with a date of 05/06/2017), "Dop", "FID", "Codice", and "Descrizione". Below the form are three buttons: "Ricerca", "Pulsici", and "Esci". At the bottom of the page, there is a footer with contact information and a Bicsi logo.

DOP - WHERE TO FIND THE PRODUCT DATA

If you have no longer access to the packaging or the label and you need the DoP, what can you do?

There is no problem! All necessary data are printed on the cable sheath. To trace the DOP of the purchased cable you simply have to note the **PRODUCT CODE**, the **DESCRIPTION**, the **FID** or **DOP number**

Here follows an example of cable marking:

M0502832 - QUBIX by **CCS R6AFT4H23 F/UTP** m..... **FID xx** - Euroclass **xxx**..... **DOP xxxxxx**





Qubix S.p.A.
Networking solution

Via Canada, 22/A
35127 Padova - ITALY
Tel. +39 049 7801994
Fax. 049 775667

www.qubix.it - info@qubix.it



Assistenza post vendita

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gratuito dedicato al servizio di
assistenza post vendita