

CPR compliant cables



Construction Products Regulation (CPR)

Pursuant to the European regulation EU 305/2011, also known as Construction Products Regulation (CPR), electric cables must conform to harmonized rules, such as classes of reaction to fire (RtF).

REACTION TO FIRE	FLAME RETARDANCY
CPR EU 305/2011 - EN 50575:2014 + A1:2016	EN 60332-1-2

PVC C_{ca} - s1, d0, a3	EN 50575	CPR EU 305/11	C_{ca} EUROCLASS	PVC CABLES	SHIELDED CABLE	INSULATION C-4 400V
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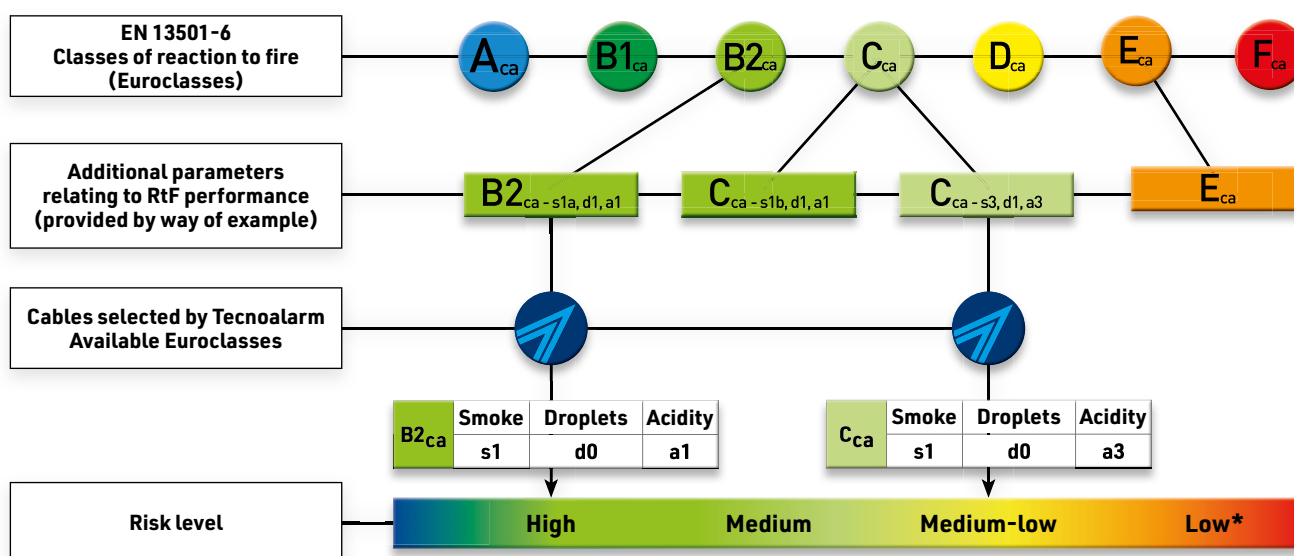
ITEM	NOTES		SPOOL	ITEM NO.
2x022	Shielded		200m	F11200000508
4x022	Shielded		200m	F11200000500
			500m	F11200000501
6x022	Shielded		200m	F11200000502
			500m	F11200000503
8x022	Shielded		200m	F11200000509
2x050+2x022	Shielded		200m	F11200000512
			500m	F11200000513
2x050+4x022	Shielded		200m	F11200000504
			500m	F11200000505
2x050+6x022	Shielded		200m	F11200000514
2x050+10x022	Shielded		200m	F11200000515
2x075+4x022	Shielded		200m	F11200000516
2x075+6x022	Shielded		200m	F11200000517
2x075+6x022	Shielded		500m	F11200000527
2x050+(1x1+1x050)+1x1	TWISTED 1x	Shielded - 1 twisted pair	200m	F11200000521
2x1+2x050		Shielded - 1 twisted pair	200m	F11200000518
2x034+2x022+1x022	TWISTED 1x	Shielded - 1 twisted pair (RS485 cable for console with speaker)	200m	F11200000506
			500m	F11200000507
3x050+2x(2x034)	TWISTED 2x	Shielded - 2 twisted pairs (RS422 cable for TECNOCELL 4)	200m	F11200000520
2x1+2x(2x050)		Shielded - 2 twisted pairs	200m	F11200000519
2x1+2x(2x050)		Shielded - 2 twisted pairs (cable for outdoor installation, black jacket)	200m	F11200000510
			500m	F11200000511

LSZH B2_{ca} - s1, d0, a1	EN 50575	CPR EU 305/11	B2_{ca} EUROCLASS	LSZH CABLES	SHIELDED CABLE	INSULATION C-4 400V
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ITEM	NOTES		SPOOL	ITEM NO.
2x050+4x022	Shielded		200m	F11200000530
2x034+2x022+1x022	TWISTED 1x	Shielded - 1 twisted pair	200m	F11200000531
2x1+2x(2x050)		Shielded - 2 twisted pairs	500m	F11200000523
2x1+2x(2x050)	TWISTED 2x	Shielded - 2 twisted pairs	200m	F11200000532
			500m	F11200000533
2x1+2x(2x050)*		Shielded - 2 twisted pairs	500m	F11200000534

* Available upon request with armor

Classification criteria according to the CPR



* The cables must be laid singularly, laying of cable bundles is not allowed.

Field of use

In the course of the implementation of the Construction Products Regulation (CPR), the EU Member States have defined the minimum class of reaction to fire (Euroclass) required for each field of use and the associated risk level.

The marking of the cables indicates the Euroclass and, if applicable, additional parameters relating to the reaction-to-fire (RtF) performance, in particular, the smoke production (s-Smoke), the dripping of flaming particles (d-Droplets) and the acidity of smoke (a-Acidity).

N.B. It is the task of the planning engineer to determine, according to the national rules, the cables to be used for the field of use.

The below table illustrates the minimum Euroclass requirements for 4 fields of use (according to Italian law).

FIELD OF USE	RISK LEVEL	EUROCLASS
Airports, harbors, railway and subway stations, road and railway tunnels	HIGH	B2 _{ca} - s1a, d1, a1
Public and high-rise buildings, sanitary, hospital, medical or in-patient facilities, rehab clinics, diagnostic laboratories, rest homes, hotels, theaters, sports facilities and gyms, outdoor tourist facilities, camping sites and resorts, schools, nurseries and kindergardens, production plants	MEDIUM	C _{ca} - s1b, d1, a1
Private buildings, buildings for civil use, waiting rooms, bars, cafés, restaurants, medical practices	LOW	C _{ca} - s3, d1, a3
Buildings with low risk of fire and little danger for persons and/or things, dwellings	LOW*	E _{ca}
* The cables must be laid singularly, laying of cable bundles is not allowed.		