

CONSTRUCTION PRODUCTS REGULATION

AT RADIO FREQUENCY SYSTEMS

revision date 08/08/2017



GENERAL INFORMATION

When does CPR apply?

• 1 July 2017

What does CPR imply?

- Cables placed on the market as construction products must comply with Regulation No. 305/2011 [1] of the European Union
- CPR regulates the requirements on cables in terms of their reaction to fire
- The regulations pertain to cables that are permanently installed in construction works (both above and below ground level)

What countries require CPR?

- All countries in the European Union are requested to convert into national regulations
- Other countries will adopt the regulations (example Switzerland)

Why is CPR required?

- The LSZH certification is no longer considered as comprehensive to measure the fire safety performance of cables.
- CPR provides a harmonized set of standards so product purchasers can easily confirm that cables meet the more stringent fire safety requirements in **European standard EN 50575**.

RFS products will be classified according to the following indicators in compliance with the European Union CPR requirements.

CLASSIFICATION

	CLASSIFICATION CRITERIA					
CLASS	Flame spread (EN 50399)	Total heat release	Peak heat release	Fire growth rate	Flame spread (EN 60332-1-2)	FIRE SAFETY
B2ca	≤ 1,5m	≤ 15 MJ	≤ 30 kW	≤ 150 Ws-1		+++
Cca	≤ 2,0m	≤ 30 MJ	≤ 40 kW	≤ 300 Ws-1		++
Dca		≤ 70MJ	≤ 400 kW	≤ 1300 Ws-1	≤ 425 mm	+
Eca	Minimum fire performance classification					
Fca	Not advisable for public places			> 425 mm		

A and B1 are not applicable to LSZH data and telecommunication cables

EURO CLASS REQUIRED FOR ENVIRONMENT

Environment	Country A	Country B	Country C
Airports	Cca	B2ca	Cca
Hospitals	B2ca	B2ca	Сса
Commercial Premises	Cca	Cca	Dca
Residential Building			Eca

Classification requirements subject to local law.

EUROPEAN CLASS CODE LABELING EXAMPLES

B2	ca	s1	d1	a1
Fire Performance class	Application to cable	Smoke ratio	Droplets rating	Acidity rating

e.g. our CPR feeders







Smoke opacity		Droplets		Acidity	
s1	Ä	dO	/	a1	
s2	ÅÅ	d1	8 8	a2	11/1
s3	888	d2	8 8	a3	666

Cable Type	CPR Class	Current Status	Product Availability	Certificate Availablility			
CELLFLEX Feeder Cables							
New family, CPR feeders							
SCF12-50CPR	B2ca s1 d0 a1	confirmed	30 th June 2017	30 th June 2017			
LCF12-50CPR	B2ca s1 d0 a1	confirmed	30 th June 2017	30 th June 2017			
LCF78-50CPR	B2ca s1 d0 a1	confirmed	30 th June 2017	30 th June 2017			
LCFS114-50CPR	B2ca s1 d0 a1	confirmed	30 th June 2017	30 th June 2017			
LCF158-50CPR	Cca s1 d0 a1	confirmed	14 th July 2017	14 th July 2017			
Existing JFN feeder types							
LCF14-50JFN	not yet defined (assumed: at least Cca s1 d0 a1)	tests in progress	now (*)	August 2017			
SCF38-50JFN	not yet defined (assumed: at least Cca s1 d0 a1)	tests in progress	now (*)	14 th July 2017			
SCF12-50JFN	Cca s1 d0 a1	confirmed	now (*)	30 th June 2017			
LCF12-50JFN	Cca s1 d0 a1	confirmed	now (*)	30 th June 2017			
LCF78-50JFNA	Cca s1 d0 a1	confirmed	now (*)	30 th June 2017			
LCFS114-50JFNA	not yet defined (assumed: at least Dca s1a d0 a1)	tests in progress	now (*)	October 2017			
LCF158-50JFNA	Dca s2 d2 a1	confirmed	now (*)	14 th July 2017			
Existing J feeder types							
All SCF/LCF jacket option «J»	F, not classified since none of the CPR classes «A» to «E» will be met	confirmed	now	n/a			

^(*) CE marking for new produced cables as from 30th June 2017. Previously supplied cables will have the certification valid as well

Cable Type	CPR Class	Current Status	Product Availability	Certificate Availablility			
RADIAFLEX Radiating Cables							
New family, CPR radiating cables							
RLK, ALF fam. 1/2"	Cca s1 d0 a1	confirmed	14 th July 2017	14 th July 2017			
RLK, RLF, RAY fam. 7/8"	Cca s1 d0 a1	confirmed	14 th July 2017	14 th July 2017			
RLK, RLF, RAY fam. 1-1/4"	Cca s1 d0 a1	confirmed	14 th July 2017	14 th July 2017			
RLK, RLF, RAY fam. 1-5/8"	Cca s1 d0 a1	confirmed	14 th July 2017	14 th July 2017			
Existing JFN radiating cables							
RLK, ALF fam. 1/2"	not yet defined (assumed: at least Eca a1)	tests in progress	now (**)	during Q4			
RLK, RLF, RAY fam. 7/8"	not yet defined (assumed: at least Eca a1)	tests in progress	now (**)	during Q4			
RLK, RLF, RAY fam. 1-1/4"	not yet defined (assumed: at least Eca a1)	tests in progress	now (**)	during Q4			
RLK, RLF, RAY fam. 1-5/8"	not yet defined (assumed: at least Eca a1)	tests in progress	now (**)	during Q4			
Existing JFL radiating cables							
RLK, ALF fam. 1/2"	not yet defined (assumed: at least Eca a1)	tests in progress	now (**)	during Q4			
RLK, RLF, RAY fam. 7/8"	not yet defined (assumed: at least Eca a1)	tests in progress	now (**)	during Q4			
RLK, RLF, RAY fam. 1-1/4"	not yet defined (assumed: at least Eca a1)	tests in progress	now (**)	during Q4			
RLK, RLF, RAY fam. 1-5/8"	not yet defined (assumed: at least Eca a1)	tests in progress	now (**)	during Q4			

^(**) CE marking for new produced cables as from 30th June 2017 will show CPR class «F» only (untested). The test required for Eca is the IEC60332-1 which is met by the cables in any case. CPR class «E» or better will be shown after tests are completed by notified body. Previously supplied cables will have the certification valid as well.