

CONSTRUCTION PRODUCTS REGULATION AT RADIO FREQUENCY SYSTEMS

revision date 11/08/2020



SAFETY IS KEY

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	≤ 425 mm	+++
Сса	≤ 2,0m	\leq 30 MJ	\leq 40 kW	≤ 300 Ws-1		++
Dca		≤ 70MJ	≤ 400 kW	≤ 1300 Ws-1		+
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

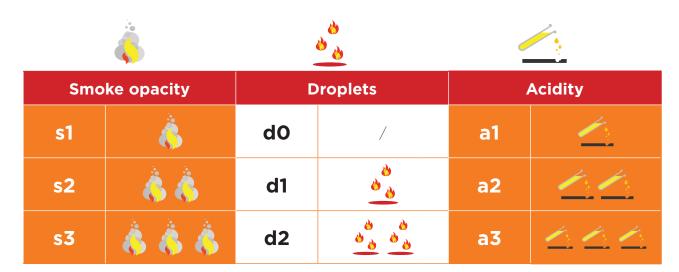
Environment	Country A	Country B	Country C
Airports	Сса	B2ca	Сса
Hospitals	B2ca	B2ca	
Commercial Premises	Сса	Сса	Dca
Residential Building	Fca	Dca	Eca

Classification requirements subject to local law.

EUROPEAN CLASS CODE LABELING EXAMPLES

B2	са	s1	dO	al
Fire	Application	Smoke	Droplets	Acidity
Performance class	to cable	ratio	rating	rating

e.g. our CPR feeders



Cable Type	CPR Class	Current Status	Product Availability			
CELLFLEX Feeder Cables						
New family, CPR feeders						
SCF12-50CPR	B2ca s1a d0 a1	confirmed	available now			
LCF12-50CPR	B2ca s1a d0 a1	confirmed	available now			
LCF78-50CPR	B2ca s1a d0 a1	confirmed	available now			
LCFS114-50CPR	B2ca s1b d0 a1	confirmed	available now			
LCF158-50CPR	Cca s1a d0 a1	confirmed	available now			
Existing JFN feeder types						
LCF14-50JFN	B2ca s1a d1 a1	confirmed	available now			
SCF38-50JFN	B2ca s1a d0 a1	confirmed	available now			
SCF12-50JFN	B2ca s1a d0 a1	confirmed	available now			
LCF12-50JFN	B2ca s1a d0 a1	confirmed	available now			
LCF78-50JFNA	B2ca s1a d0 a1	confirmed	available now			
LCFS114-50JFNA	B2ca s1b d2 a1	confirmed	available now			
LCF158-50JFNA	Cca s1a d2 a1	confirmed	available now			
Existing J feeder types						
	F, not classified since none					

All SCF/LCF jacket option «J»

F, not classified since none of the CPR classes «A» to «E» will be met

confirmed

available now

Cable Type	CPR Class	Current Status	Product Availability		
RADIAFLEX Radiating Cables					
New family, CPR radiating cables					
RLK, ALF types 1/2"	B2ca s1a d0 a1	confirmed	available now		
RLK, RLF, RAY types 7/8"	B2ca s1a d0 a1	confirmed	available now		
RLK, RLF, RAY types 1-1/4"	B2ca s1b d0 a1	confirmed	available now		
RLK, RLF, RAY types 1-5/8"	B2ca s1a d0 a1	confirmed	available now		
Existing JFL radiating cables	Existing JFL radiating cables				
RLK, ALF types 1/2"	Cca s1a d0 a1	confirmed	available now		
RLK, RLF, RAY types 7/8"	Dca s1b d2 a1	confirmed	available now		
RLK, RLF, RAY types 1-1/4"	Dca s1 d2 a1	confirmed	available now		
RLK, RLF, RAY types 1-5/8"	Cca s1b d1 a1	confirmed	available now		
Existing JFN radiating cables					
RE60 radiating waveguide	Cca s1 d2 a1	confirmed	available now		
RLK, ALF types 1/2"	Cca s1a d1 a1	confirmed	available now		
RLK, RLF, RAY types 7/8"	Dca s1b d2 a1	confirmed	available now		
RLK, RLF, RAY types 1-1/4"	Dca s1 d2 a1	confirmed	available now		
RLK, RLF, RAY types 1-5/8"	Dca s2 d2 a1	confirmed	available now		