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# EUCA RAIL

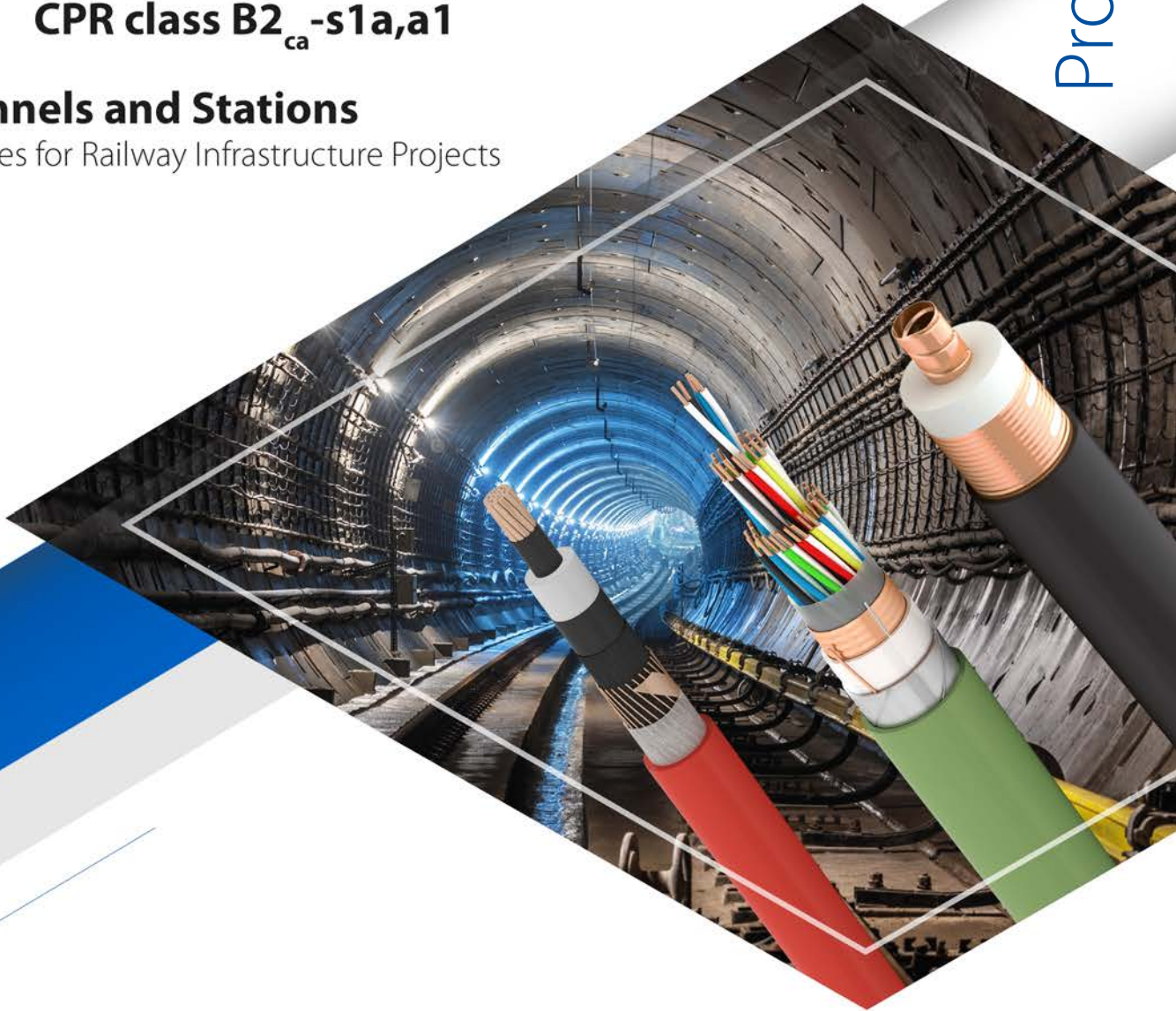
According to

**CPR class B2<sub>ca</sub>-s1a,a1**

## **Tunnels and Stations**

Cables for Railway Infrastructure Projects

Product Range



Kabelwerk

**EUPEN** AG

cable

## Halogen free , Fire retardant MV Power Cables

Voltage	Standard	Examples
3,6/6 kV up to 18/30 kV	German	N2XSEH - (N)2XSEH (three-core cables with copper conductors)
3,6/6 kV up to 20,8/36 kV	German	N2XSH - (N)2XSH - NA2XSH - (N)A2XSH (single-core cables with copper- resp. aluminium conductor)
3,6/6 kV up to 20,8/36 kV	German	N2XS(F)H - (N)2XS(F)H - NA2XS(F)H - (N)A2XS(F)H (longitudinally watertight cables with copper- resp. aluminium conductor)
6/10 kV up to 20,8/36 kV	German	N2XS(FL)H - (N)2XS(FL)H - (N)A2XS(FL)H (longitudinally & transversally watertight cables with copper- resp. aluminium conductor)
3,6/6 kV up to 20,8/36 kV	Belgian	EXCGB - EAXCGB - EAXCG (single-core cables with copper- resp. aluminium conductor)
6/10 kV up to 20,8/36 kV	Belgian	EXeCGB - EXeCG - EAXeCGB - EAXeCG (longitudinally watertight cables with copper- resp. aluminium conductor)
6/10 kV up to 20,8/36 kV	Belgian	EXeCeGB - EXeCeG - EAXeCeGB - EAXeCeG (longitudinally & transversally watertight cables with copper- resp. aluminium conductor)
3,6/6 kV up to 18/30 kV	International	2XSEH (three-core cables with copper conductors)
3,6/6 kV up to 20,8/36 kV	International	A2XSH (single-core cables with aluminium conductor)
3,6/6 kV up to 20,8/36 kV	International	A2XS(F)H (longitudinally watertight cables with aluminium conductor)
6/10 kV up to 20,8/36 kV	International	2XS(FL)H - A2XS(FL)H (longitudinally & transversally watertight cables with copper- resp. aluminium conductor)

## Halogen free , Fire retardant Feeder Cables

Voltage	Standard	Examples
0,6/1 kV resp. 1,8/3 kV	German	(N)2XSH - (N)2XS(F)H - (N)2XCH - (N)A2XH
0,6/1 kV resp. 1,8/3 kV	Belgian	EXAG - EAXG

## Halogen free , Fire retardant LV Power- and Control Cables

Voltage	Standard	Examples
0,6/1 kV	German	N2XH - (N)2XH - (N)2XH RF (flex. cond.) - (N)A2XH
0,6/1 kV	Belgian	XGB - XFGB
0,6/1 kV	Dutch	YMz <sub>1</sub> K - YMz <sub>1</sub> K flex - Z <sub>1</sub> O-YMz <sub>1</sub> Kas - Z <sub>1</sub> G-YMz <sub>1</sub> Kas
0,6/1 kV	International	2XH - 2XH flex - A2XH - 2XCH - 2X(CuB)CH - 2XHRH - 2XHQH
450/750 V	Harmonized	H07Z1-R - H07Z1-K

# Railway Signalling\* – and Communication Cables

Standard	Examples
German	A-2Y(L)HHv star quad - A-2Y(L)HHv - A-2YHv star quad - A-2YHv (unarmoured) A-2Y(L)HBH star quad - A-2Y(L)HBH - A-2YHBH star quad - A-2YHBH (steel tape armoured) A-2YTFHv - A-2YTF(L)HHv - A-2YTF(L)HBH - A-2YTFHBH (longitudinally watertight)
German	J-H(St)H - JE-H(St)H
Belgian	SXCAG (steel tape armoured; protected against inductive influence / optimized reduction factor)

\* Please ask for constructions with enhanced watertightness

## EUCARAY® Radiating Cables

Size	Reference	Description
1/2"	RMC12-B-HLFR-B2 <sub>ca</sub>	EUCARAY® GSM900 (& Tetra) band optimised radiating cable
7/8"	RMC78-T-HLFR-B2 <sub>ca</sub>	EUCARAY® Tetra band optimised radiating cable
	RMC78-B-HLFR-B2 <sub>ca</sub>	EUCARAY® GSM900 (& Tetra) band optimised radiating cable
	RMC78-CL-HLFR-B2 <sub>ca</sub>	EUCARAY® WLAN 2,4GHz band optimised radiating cable
	RMC78-G-HLFR-B2 <sub>ca</sub>	EUCARAY® 5G & LTE band optimised radiating cable
1-1/4"	RMC114-HLFR-B2 <sub>ca</sub>	EUCARAY® Broadband radiating cable
	RMC114-T-HLFR-B2 <sub>ca</sub>	EUCARAY® Tetra band optimised radiating cable
	RMC114-B-HLFR-B2 <sub>ca</sub>	EUCARAY® GSM900 (& Tetra) band optimised radiating cable
	RMC114-G-HLFR-B2 <sub>ca</sub>	EUCARAY® 5G & LTE band optimised radiating cable
1-5/8"	RMC158-HLFR-B2 <sub>ca</sub>	EUCARAY® Broadband radiating cable
	RMC158-T-HLFR-B2 <sub>ca</sub>	EUCARAY® Tetra band optimised radiating cable
	RMC158-B-HLFR-B2 <sub>ca</sub>	EUCARAY® GSM900 (& Tetra) band optimised radiating cable
	RMC158-E-HLFR-B2 <sub>ca</sub>	EUCARAY® LTE band optimised radiating cable

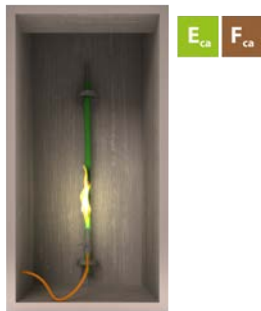
## Coaxial Feeder Cables

Size	Reference	Description
1/2" Hiflex	EC4-50-HF-FRB	1/2" Hiflex coaxial cable type 5092-HLFRB
1/2"	EC4-50-FRB	1/2" coaxial cable "Low Loss" type 5128-HLFRB
7/8"	EC5-50-A-FRB	7/8" coaxial cable "Ultra Low Loss" type 5228A-HLFRB
1-1/4"	EC6-50-A-FRB	1-1/4" coaxial cable "Ultra Low Loss" type 5328A-HLFRB

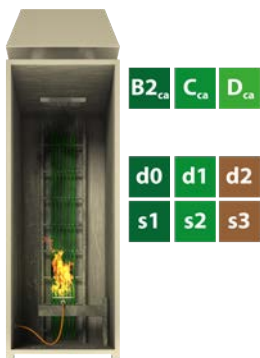
For further information about the CPR classification, about a.m. products or other cable designs, please do not hesitate to contact us at [major\\_projects@eupen.com](mailto:major_projects@eupen.com)

# Construction Products Regulation (CPR)

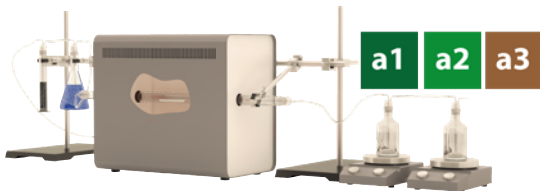
EN 50575 = AVCP by Third Party (audit & control) + tests acc. the following standards  
+ DoP + CE - marking



**EN 60332-1-2 - vertical flame propagation** – describes the testing method for E<sub>ca</sub> and F<sub>ca</sub> classification and is mandatory as well for all higher classifications, D<sub>ca</sub> up to B2<sub>ca</sub>



**EN 50399** describes the testing method for **heat release and flame spread** B2<sub>ca</sub> down to D<sub>ca</sub> classification and the testing methods for the additional criteria with **regards to flaming droplets** (d0 – d2) and smoke production (s1 –s3)



**EN 60754-2** describes the testing method for additional criteria with **regards to acidity** a1 – a3 by measuring pH & conductivity



**EN 61034** describes the testing method for additional criteria with **regards to smoke** s1a and s1b (optional)

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