AFUMEX N2XH 0,6/1KV CPR B2

Low smoke zero halogen cables (LSOH)

B2ca CPR

Afumex cables have improved properties under fire and can be used in fixed installations in areas with high risk of fire and high number of people, such as factories, airports, subways and train stations, schools, offices, stores and also home residences. N2XH Low Fire Hazard cable is B2ca classified in accordance with the EU Construction Products Regulation (CPR). It means that, when exposed to fire, it has a low rate of flame spread and at the same time releases less heat. Being halogen free the cable also emits less toxic smoke and corrosive acids in the event of fire, compared to conventional PVC cables. Specified cables may be laid indoors, in air or concrete. Direct laying in the soil or in water is not permitted.

Conductor shape round, class 2 = stranded; black outer sheath

STANDARDS AND CERTIFICATIONS

RoHS

HD 604	Power cables with special fire performance for 0,6/1 kV and 1,9/3,3 kV
EN 60754-1	Test on gases evolved during combustion of materials from cables. Halogen acid gas content.
EN 60754-2	Test on gases evolved during combustion of materials from cables. Acidity and corosivity
EN 13501-6	Fire classification of construction products and building elements

CABLE DESIGN

Conductor material	Copper
Core identification (acc. HD 308 S2)	Yes
Core insulation material	XLPE
Material outer sheath	Low smoke zero halogen
Cable shape	Round

ELECTRICAL & THERMAL PARAMETERS

Rated voltage U0/U (Um)	0.6/1 (1.2) kV
Test voltage [kV]	4
Max. conductor temperature [°C]	90
Max. conductor temperature at short circuit [°C]	250
Laying temperature (min) [°C]	-15
Laying temperature (max) [°C]	50

CHEMICAL PROPERTIES

Flame retardant	In accordance with EN 13501-6
CPR reaction to fire	B2ca
Halogen free	acc. IEC/EN 60754-1/2
Resistant to UV	Yes
Silicon free	Yes
Lead free	Yes

CHARACTERISTICS

With rodent protection	No
Outdoor installation	Yes
Underground installation	No
Suitable as installation cable	Yes
Bending radius (rule)	During installing: 15 x D single-core cables; 12 x D multi-cores cables

SUSTAINABILITY COMMITMENT

Our commitment to a low-carbon future remains unwavering as we strive to create sustainable solutions while upholding quality standards. We prioritize sustainability and environmental protection in our daily operations, collaborating with local communities to ensure workplace safety and safeguard the areas we operate in.

Sustainability and environmental responsibility is evident also in our **packaging** solutions across the CEE region. We use fully recyclable drum cover foils to minimize environmental impact. Our packaging for rings is made from 30% recycled materials, supporting a circular economy. Additionally, our boxes are made from recyclable, environment-friendly cardboard, promoting eco-conscious choices. By choosing Prysmian, you are not only selecting high-quality products but also contributing to a greener future.

Check for more details about our sustainability commitment here: Sustainability: report and responsibility.

CABLE PROPERTIES

Basic construction	Type	SAP code	Variant	Nominal outer diameter [mm]	Cable weight [kg/km]	Bending radius, during laying (min) [mm]	Conductor resistance at 20° C [Ohm/km]	Short circuit current conductor (1sec) [kA]	DOP number
1x25RM	-O	20259671	Talc+Extruded	15.8	485	238	0.727	3.7	1011155
1x35RM	-O	20173624	Talc+Extruded	16.9	594	253	0.524	5.2	1011155
1x50RM	-O	20327945	Talc+Extruded	18.3	737	274	0.387	7.4	1011155
1x70RM	-O	20327946	Talc+Extruded	20.4	972	306	0.268	10.3	1011155
1x95RM	-O	5000000047	Talc+Extruded	21.7	1,230	326	0.193	13.9	
1x120RM	-O	20173628	Talc+Extruded	23.2	1,482	348	0.153	17.5	1011155
1x150RM	-O	20173629	Talc+Extruded	25.1	1,770	377	0.124	21.8	1011155
1x185RM	-O	20173630	Talc+Extruded	27.2	2,155	408	0.0991	26.9	1011155
1x240RM	-O	20369218	Talc+Extruded	29.5	2,733	354	0.0754	34.8	1011155
1x300RM	-O	5000000052	Talc+Extruded	31.8	3,317	382	0.0601	42.9	1011155
1x400RM	-O	5000000053	Talc+Extruded	35	4,143	420	0.047	57.2	1011155
1x500RM	-O	5000000054	Talc+Extruded	38.4	5,324	461	0.0366	71.5	1011155
3x1,5RE	-J	20348449	Extruded	10.9	174	167	12.1	0.21	1019412
3x16RM	-J	20307121	Talc+Extruded	21.5	916	258	1.15	2.4	1011154
3x25RM/16RE	-J	20173634	Talc+Extruded	26	1,467	312	0.727	3.7	1011154
3x35RM/16RE	-J	20173621	Talc+Extruded	28	1,803	336	0.524	5.2	1011154
3x50SM/25RM	-J	20259678	Talc+Extruded	29.5	2,221	354	0.387	7.4	1009774
3x70SM/35SM	-J	20173622	Talc+Extruded	31.5	2,916	378	0.268	10.3	1009775
3x95SM/50SM	-J	20173636	Talc+Extruded	34.9	3,787	418	0.193	13.9	1009775
3x120SM/70SM	-J	20307793	Talc+Extruded	38.7	4,719	464	0.153	17.5	1009775
3x150SM/70SM	-J	20307803	Talc+Extruded	42.1	5,575	505	0.124	21.8	1009775
3x185SM/95SM	-J	5000000022	Extruded	47.1	6,954	565	0.0991	26.9	
3x240SM/120SM	-J	5000000023	Extruded	55.3	8,962	664	0.0754	34.8	
4x16RM	-O	20307107	Talc+Extruded	23.1	1,096	277	1.15	2.4	1011154
4x25RM	-J	20173637	Talc+Extruded	26.9	1,585	323	0.727	3.7	1011154
4x35SM	-J	20259676	Talc+Extruded	27	1,837	324	0.524	5.2	1009775
4x50SM	-J	20173639	Talc+Extruded	29.5	2,352	354	0.387	7.4	1009775
4x70SM	-J	20173640	Talc+Extruded	31.5	3,231	378	0.268	10.3	1009775
4x95SM	-J	20173641	Talc+Extruded	34.9	4,222	418	0.193	13.9	1009775
4x120SM	-J	20307805	Talc+Extruded	38.7	5,181	464	0.153	17.5	1009775
4x150SM	-J	20307806	Talc+Extruded	42.1	6,304	505	0.124	21.8	1009775
4x185SM	-J	20283680	Talc+Extruded	47.1	7,788	566	0.0991	26.9	1009775
4x240SM	-J	20259677	Extruded	55.3	10,111	664	0.0754	34.8	1009775
5x16RM	-J	20259674	Talc+Extruded	24.9	1,307	299	1.15	2.4	1011154
5x25RM	-J	20327926	Talc+Extruded	29.2	1,908	350	0.727	3.7	1011154

CABLE PROPERTIES

Basic construction	Type	SAP code	Variant	Nominal outer diameter [mm]	Cable weight [kg/km]	Bending radius, during laying (min) [mm]	Conductor resistance at 20° C [Ohm/km]	Short circuit current conductor (1sec) [kA]	DOP number
5x35RM	-J	20327927	Talc+Extruded	32	2,454	384	0.524	5.2	1011154
5x50RM	-J	20327928	Talc+Extruded	35.8	3,186	430	0.387	7.4	1011154
5x70RM	-J	20327929	Talc+Extruded	41.5	4,411	498	0.268	10.3	1011154
5x95RM	-J	20259675	Talc+Extruded	45.1	5,755	541	0.193	13.9	1011154
5x120RM	-J	20283681	Talc+Extruded	49.1	7,071	589	0.153	17.5	1011154

CURRENT CARRYING CAPACITY

Cross-section (mm²)	Single-core cables DC (A)	Multi-cores cables DC (A)	Single-core cables trefoil (A)
16	131	98	102
25	177	133	138
35	217	162	170
50	265	197	207
70	336	250	263
95	415	308	325
120	485	359	380
150	557	412	437
185	646	475	507
240	774	564	604
300	901	649	697
400	1060	761	811
500	1252	866	940

Air temperature: 30°C
Continuous operation load factor: 1