

N2XH-J / N2XH-O 0,6/1KV B2ca

Low Smoke Zero Halogen cables for a wide range of applications



B2ca
CPR

PRODUCT FAMILY DESCRIPTION

The Prysmian N2XH B2ca (s1a,d1, a1) with copper conductor is a Low Smoke Zero Halogen (LS0H) cable. These flame-retardant cables develop much less and lighter smoke than traditional PVC-cables, and the smoke developed is a lot less toxic. Owing to the fact that the cables have improved properties under fire, they are recommended for fixed installations in data centers or in public buildings frequented by large amounts of people, for industrial complexes, electric power plants, transformer stations, municipal facilities, hotels, shopping malls, hospitals, schools, airports as well as underground railways. To be laid indoors or outdoors, in air or concrete, and it is suitable to install on cable ladders or cable ducts. The cable is AD8 rated as per our internal tests.

In line with Prysmian's global sustainability commitments, the conductor of this product is composed of at least 30% recycled material. Furthermore, its production is supported by green energy initiatives, including the utilization of solar power from our factories' own solar parks.

Type -J: with green-yellow conductor

Type -O: without green-yellow conductor

Conductor categories: RMV: round compacted multicore (class 2); SM: sector-shaped multicore (class 2); RE: round solid (class 1); SE: sector-shaped solid (class 1)

GENERAL INFORMATION

Brand	Prysmian
Application	Building Installations;Industrial Installations

STANDARDS



DIN VDE 0276-604	General
EN 60332-1-2	Fire performance
EN-50399	Fire performance
EN 13501-6	Fire performance
EN 50289-4-17	UV-resistance

CABLE-DESIGN

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

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ELECTRICAL & THERMAL PARAMETERS

Nominal voltage U ₀ [V]	600
Nominal voltage U [V]	1,000
Test voltage [kV]	4
Rated voltage U ₀ /U (U _m)	0.6/1 (1.2) kV
Max. conductor temperature [°C]	90
Max. conductor temperature at short circuit [°C]	250
Minimum temperature for fix installation [°C]	-40
Maximum temperature for fix installation [°C]	90
Laying temperature (min) [°C]	-5
Laying temperature (max) [°C]	90

CHARACTERISTICS

Outdoor installation	Yes
Bending radius (rule)	During installation: 15 x D single-core cables; 12 x D multi-core cables Final bending for fixed installation: 10 x D

CHEMICAL PROPERTIES

Silicon free	Yes
Lead free	Yes
Flame retardant	In accordance with EN 13501-6
Halogen free	acc. IEC/EN 60754-1/2
Low smoke (acc. EN 61034-2)	Yes
CPR reaction to fire	B2ca
Resistant to UV	Yes

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

SAP code	Basic construction	Type	Conductor category	Nominal outer diameter [mm]	Cable weight [kg/km]	DOP number
R30009573800000500	1X16 RMV	-J	Class 2 = stranded	13.2	325	1019411
20464169	1x16 RMV	-O	Class 2 = stranded	14	348	1019411
20458420	1x25 RMV	-J	Class 2 = stranded	15.7	477	1019411
20464170	1x25 RMV	-O	Class 2 = stranded	16	489	1019411
20464231	1x35 RMV	-O	Class 2 = stranded	17	594	1019411
20477877	1x35 RMV	-J	Class 2 = stranded	17	594	1019411
20464232	1x50 RMV	-O	Class 2 = stranded	18.2	732	1019411
20477860	1x50 RMV	-J	Class 2 = stranded	18.2	732	1019411
20464233	1x70 RMV	-O	Class 2 = stranded	20	958	1019411
20477878	1x70 RMV	-J	Class 2 = stranded	20	958	1019411
20477911	1x95 RMV	-J	Class 2 = stranded	21.7	1,225	1019411
20456296	1x95 RMV	-O	Class 2 = stranded	21.7	1,225	1019411
20474435	1x120 RMV	-J	Class 2 = stranded	23.3	1,480	1019411
20456392	1x120 RMV	-O	Class 2 = stranded	23.3	1,480	1019411
20500562	1X150 RMV	-J	Class 2 = stranded	25.1	1,767	1019411
20456393	1x150 RMV	-O	Class 2 = stranded	25.1	1,767	1019411
20456297	1x185 RMV	-O	Class 2 = stranded	27.2	2,149	1019411
20500539	1X185 RMV	-J	Class 2 = stranded	27.2	2,149	1019411
20456298	1x240 RMV	-O	Class 2 = stranded	29.8	2,726	1019411
20500563	1X240 RMV	-J	Class 2 = stranded	29.8	2,726	1019411
20507168	1X300 RM/V	-J	Class 2 = stranded	32.2	3,323	1019411
20456394	1x300 RMV	-O	Class 2 = stranded	32.2	3,322	1019411

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20456395	1x400 RMV	-O	Class 2 = stranded	35.4	4,174	1019411
R23602773800000500	1X400 RMV	-J	Class 2 = stranded	35.4	4,174	1019411
R23602774800000500	1X500 RMV	-J	Class 2 = stranded	39	5,243	1019411
20456401	1x500 RMV	-O	Class 2 = stranded	39	5,243	1019411
20464234	1x630 RMV	-O	Class 2 = stranded	43.2	6,675	1019411
20431407	1x630 RMV	-J	Class 2 = stranded	43.2	6,675	1019411
20506034	2x1,5 RE	-O	Class 1 = solid	10.1	147	1019412
R30009535800200000	2x2,5 RE	-O	Class 1 = solid	11	184	1019412
R30009534800200500	2x4 RE	-O	Class 1 = solid	11.9	232	1019412
R30009533800200500	2x6 RE	-O	Class 1 = solid	12.5	276	1019412
R30009532800200500	2x10 RE	-O	Class 1 = solid	14.6	406	1019412
R30009531800000500	2x16 RMV	-O	Class 2 = stranded	19.6	719	1019412
R30009530800000500	2x25 RMV	-O	Class 2 = stranded	22.9	1,024	1019412
R30009529800000500	2x35 RMV	-O	Class 2 = stranded	24.9	1,287	1019412
R23603007800100500	2x95 RMV	-O	Class 2 = stranded	35.5	2,923	1019412
20457104	3x1,5 RE	-J	Class 1 = solid	10.9	174	1019412
20474827	3x2.5 RE	-J	Class 1 = solid	11.5	209	1019412
20458472	3x4 RE	-J	Class 1 = solid	13.7	307	1019412
20458473	3x6 RE	-J	Class 1 = solid	15.1	399	1019412
20458474	3x10 RE	-J	Class 1 = solid	17.1	565	1019412
R30009540800000000	3X16 RE	-J	Class 1 = solid	20.3	855	1019412
20458475	3x16 RMV	-J	Class 2 = stranded	20.6	862	1019412

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20458377	3x25 RMV	-J	Class 2 = stranded	24.1	1,245	1019412
20431328	3x35 SM/16 RMV /V	-J	Class 2 = stranded	28.5	1,759	1019406
20458476	3x35 SM	-J	Class 2 = stranded	24.9	1,442	1019413
20456398	3x35 RMV	-J	Class 2 = stranded	27.3	1,634	1019412
R20009563800000500	3X50 SM	-J	Class 2 = stranded	27.2	1,827	1019413
20458477	3x50 SM/25 RMV /V	-J	Class 2 = stranded	31	2,235	1019406
20456402	3x50 RMV	-J	Class 2 = stranded	29.9	2,081	1019412
R20009589800000000	3X70 SM/35 RMV /V	-J	Class 2 = stranded	35.2	3,043	1019406
20458479	3x70 SM/ 35 SM	-J	Class 2 = stranded	32.9	2,875	1019413
20458378	3x70 SM	-J	Class 2 = stranded	30.9	2,498	1019413
20456300	3x70 RMV	-J	Class 2 = stranded	33.9	2,823	1019412
20458478	3x95 SM	-J	Class 2 = stranded	33.9	3,263	1019413
R20009590800000000	3X95 SM/50 RMV /V	-J	Class 2 = stranded	39	3,990	1019406
20458480	3x95 SM/ 50 SM	-J	Class 2 = stranded	36.8	3,789	1019413
20456397	3x95 RMV	-J	Class 2 = stranded	37.7	3,711	1019412
R20009585800100000	3X120 SM/70 SM	-J	Class 2 = stranded	40.5	4,791	1019413
20458379	3x120 SM	-J	Class 2 = stranded	37.4	4,067	1019413
R20009593800000000	3X120 SM/70 RMV /V	-J	Class 2 = stranded	42.2	4,969	1019406
20456299	3x120 RMV	-J	Class 2 = stranded	41.8	4,617	1019412
R20009567800000500	3X150 SM	-J	Class 2 = stranded	41.4	4,963	1019413
R20009594800100000	3X150 SM/70 RMV /V	-J	Class 2 = stranded	46.3	5,971	1019406
R20009586800000000	3X150 SM/70 SM	-J	Class 2 = stranded	44.7	5,690	1019413

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20456396	3x150 RMV	-J	Class 2 = stranded	45.8	5,610	1019412
R20009568800000500	3X185 SM	-J	Class 2 = stranded	45.2	6,091	1019413
R20009591800100000	3X185 SM/95 RMV /V	-J	Class 2 = stranded	50.8	7,398	1019406
R20009587800100000	3X185 SM/95 SM	-J	Class 2 = stranded	49	7,072	1019413
20456414	3x185 RMV	-J	Class 2 = stranded	50.4	6,928	1019412
R20009588800100000	3X240 SM/120 SM	-J	Class 2 = stranded	54.5	9,049	1019413
R20009569800000500	3X240 SM	-J	Class 2 = stranded	49.7	7,819	1019413
20431431	3x240 SM/120RMV /V	-J	Class 2 = stranded	56.5	9,472	1019406
20456403	3x240 RMV	-J	Class 2 = stranded	56.3	8,905	1019412
R20009571800000500	3X300 SM	-J	Class 2 = stranded	54.8	9,613	1019413
20477880	4x1.5 RE	-J	Class 1 = solid	11.6	200	1019412
R30009555	4x2.5 RE	-O	Class 1 = solid	12.7	259	1019412
20477912	4x2.5 RE	-J	Class 1 = solid	12.7	259	1019412
R300095648	4x4 RE	-O	Class 1 = solid	14.6	363	1019412
20458380	4x4 RE	-J	Class 1 = solid	14.6	363	1019412
R300095658	4x6 RE	-O	Class 1 = solid	15.9	464	1019412
20458482	4x6 RE	-J	Class 1 = solid	15.9	466	1019412
20458481	4x10 RE	-J	Class 1 = solid	18.1	670	1019412
R300095668	4x10 RE	-O	Class 1 = solid	18.2	670	1019412
R300095678	4x16 RMV	-O	Class 2 = stranded	21.2	987	1019412
20458491	4x16 RMV	-J	Class 2 = stranded	21.2	987	1019412
R22000481800000000	4X25 RMV/16 RMV	-J	Class 2 = stranded	28	1,751	1019412

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R20006762800000001	4X25 RMV	-O	Class 2 = stranded	26.3	1,512	1019412
20477879	4x25 RMV	-J	Class 2 = stranded	26.3	1,510	1019412
R23602801800000500	4X35 SM	-O	Class 2 = stranded	28.1	1,828	1019413
R20006750800000500	4X35 SM	-J	Class 2 = stranded	28.1	1,828	1019413
20456406	4x35 RMV	-O	Class 2 = stranded	29.1	1,968	1019412
20431329	4x35 RMV	-J	Class 2 = stranded	29.1	1,968	1019413
R22000482800000000	4X35 RMV/16 RMV	-J	Class 2 = stranded	30.4	2,186	1019412
20456411	4x50 SM	-O	Class 2 = stranded	30.6	2,321	1019412
20431404	4x50 SM	-J	Class 2 = stranded	31.5	2,406	1019413
R22000483800000000	4X50 RMV/25 RMV	-J	Class 2 = stranded	34.2	2,915	1019412
20503514	4X50 RMV	-J	Class 2 = stranded	32.1	2,548	1019412
20456404	4x50 RMV	-O	Class 2 = stranded	32.1	2,548	1019412
20456399	4x70 SM	-O	Class 2 = stranded	34.8	3,184	1019412
20500540	4x70 SM	-J	Class 2 = stranded	34.9	3,194	1019413
R22000484800000000	4X70 RMV/35 RMV	-J	Class 2 = stranded	38.8	3,948	1019412
R20006793800100000	4X70 RMV	-O	Class 2 = stranded	36.9	3,507	1019412
20500538	4X70 RMV	-J	Class 2 = stranded	36.9	3,507	1019412
20456413	4x95 SM	-O	Class 2 = stranded	38.6	4,218	1019412
20472247	4x95 SM	-J	Class 2 = stranded	38.6	4,218	1019413
R20006794800000000	4X95 RMV	-J	Class 2 = stranded	41	4,460	1019412
R22000485800000000	4X95 RMV/50 RMV	-J	Class 2 = stranded	43.2	5,224	1019412
20476635	4x120 SM	-J	Class 2 = stranded	42.2	5,190	1019413

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20456400	4x120 SM	-O	Class 2 = stranded	42.2	5,190	1019412
R20006795800000000	4X120 RMV	-J	Class 2 = stranded	44	5,722	1019412
20456415	4x150 SM	-O	Class 2 = stranded	46.4	6,338	1019412
R20006796800000000	4X150 RMV	-J	Class 2 = stranded	49.6	6,976	1019412
20456412	4x185 SM	-O	Class 2 = stranded	51	7,815	1019412
20507219	4X185 SM	-J	Class 2 = stranded	50.5	7,757	1019413
R20006797800000000	4X185 RMV	-J	Class 2 = stranded	54.7	8,648	1019412
20431405	4x240 SM	-J	Class 2 = stranded	56.9	10,101	1019413
20456417	4x240 SM	-O	Class 2 = stranded	56.9	10,099	1019412
R20006798800000000	4X240 RMV	-J	Class 2 = stranded	61.2	11,167	1019412
20470384	5x1.5 RE	-J	Class 1 = solid	12.8	242	1019412
20474640	5x2.5 RE	-J	Class 1 = solid	13.8	306	1019412
20477921	5x4 RE	-J	Class 1 = solid	16.1	437	1019412
20477913	5x6 RE	-J	Class 1 = solid	17	546	1019412
20477914	5x10 RE	-J	Class 1 = solid	19.5	787	1019412
20478442	5x10 RMV	-J	Class 2 = stranded	20.3	812	1019412
20456416	5x16 RMV	-J	Class 2 = stranded	25.2	1,297	1019412
20456418	5x25 RMV	-J	Class 2 = stranded	28.6	1,838	1019412
20456405	5x35 RMV	-J	Class 2 = stranded	31.5	2,376	1019412
20456407	5x50 RMV	-J	Class 2 = stranded	35.1	3,100	1019412
20464235	5x70 RMV	-J	Class 2 = stranded	40.3	4,283	1019412
20464236	5x95 RMV	-J	Class 2 = stranded	45.2	5,712	1019412

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20464166	5x120 RMV	-J	Class 2 = stranded	50.2	7,126	1019412
20464168	5x150 RMV	-J	Class 2 = stranded	55.2	8,688	1019412
20464167	5x185 RMV	-J	Class 2 = stranded	60.9	10,773	1019412
20495497	5X240 RMV	-J	Class 2 = stranded	68	13,882	1019412

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CORE COLORS

Number of cores	Type	Core colors	Sheath color
1	-J	G/Y	Black
1	-O	Black	Black
2	-O	Brown-Blue	Black
3	-J	Brown-Blue-G/Y	Black
3	-O	Brown-Black-Grey	Black
4	-J	Grey-Black-Brown-G/Y	Black
4	-O	Grey-Black-Brown-Blue	Black
5	-J	Grey-Black-Brown-Blue-G/Y	Black
5	-O	Grey-Black-Brown-Blue-Black	Black

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