

AFUMEX N2XH 0,6/1KV CPR E

Low smoke zero halogen cables (LSOH)



E_{ca}
CPR

Afumex halogen free cables with LSOH outer sheath are ideal to be used in fixed installations in areas with medium to high risk of fire and high density of people. In the event of fire, it has a low rate of flame spread, releases less heat, less toxic smoke and corrosive acids compared to conventional PVC cables. For these reasons, the cables are recommended for use in public places such as commercial buildings, offices, personal residences, etc. Specified cables may be laid indoors, in air or concrete. Direct laying in the soil or in water is not permitted. Conductor shape sector, class 2 = stranded; black outer sheath

STANDARDS AND CERTIFICATIONS



RoHS



EN 60228
HD 604

EN 60754-1

EN 60754-2

EN 13501-6

Conductors of insulated cables

Power cables with special fire performance for 0,6/1 kV and 1,9/3,3 kV

Test on gases evolved during combustion of materials from cables. Halogen acid gas content.

Test on gases evolved during combustion of materials from cables. Acidity and corrosivity

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

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
Laying temperature (min) [°C]	-15
Laying temperature (max) [°C]	50

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CHEMICAL PROPERTIES

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

CHARACTERISTICS

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
1x25	-O	20264804	Talc	10.7	297	161	0.727	3.73	1004973
1x25RM	-O	20224650	Talc	11.9	337	179	0.727	3.7	1005189
1x35RM	-O	20394035	Talc	12.3	412	185	0.524	5.2	1005189
1x35RM	-J	20224624	Talc	13	433	195	0.524	5.2	1005189
1x50RM	-O	20224653	Talc	14.4	560	216	0.387	7.4	1005189
1x70RM	-O	20224654	Talc	16.5	770	248	0.268	10.3	1005189
1x95RM	-O	20395643	Talc	16.8	973	252	0.193	13.9	1005189
1x95RM	-J	20224627	Talc	17.8	1,014	267	0.193	13.9	1005189
1x120RM	-O	20224646	Talc	19.3	1,247	290	0.153	17.5	1005189
1x150RM	-O	20224647	Talc	21.2	1,514	318	0.124	21.8	1005189
1x185RM	-O	20224648	Talc	23.3	1,875	350	0.0991	26.9	1005189
1x240RM	-O	20224649	Talc	26	2,422	389	0.0754	34.8	1005189
1x300	-O	20224514	Talc	27.7	2,951	416	0.0601	43.44	1004973
1x300RM	-O	20224651	Talc	28.3	2,980	424	0.0601	43.4	1005189
1x400RM	-O	20224652	Talc	31.7	3,783	476	0.047	57.8	1005189
1x500RM	-J	131500100018	Talc	34.5	4,873	518	0.0366	72.2	1005189
3x1,5RE	-J	20275665	Extruded	9	124	108	12.1	0.26	1004938
3x2,5RE	-J	20227619	Extruded	9.8	161	118	7.41	0.41	1004938
3x4RE	-J	20227644	Extruded	10.8	218	130	4.61	0.64	1004938
3x4RE	-O	20227645	Extruded	10.8	218	130	4.61	0.64	1004938
3x6RE	-J	20227649	Extruded	12.1	297	145	3.08	0.94	1004938
3x25RM/16RM	-J	20313741	Tape	22.8	1,071	274	0.727	3.7	1005188
3x35SM/16RM	-O	20224659	Tape	23.7	1,350	284	0.524	5.2	1005191
3x35SM/16RM	-J	20224629	Tape	23.7	1,344	284	0.524	5.2	1005191
3x35RM/16RM	-J	20313742	Tape	24.7	1,347	297	0.524	5.2	1005188
3x50SM/25RM	-O	20224660	Tape	26.3	1,818	316	0.387	7.4	1005191
3x50SM/25RM	-J	20224630	Tape	26.3	1,811	316	0.387	7.4	1005191
3x70SM/35RM	-O	20224661	Tape	30.5	2,513	366	0.268	10.3	1005191
3x70SM/35RM	-J	20224631	Tape	30.5	2,513	366	0.268	10.3	1005191
3x70RM/35RM	-J	20315223	Tape	33	2,538	396	0.268	10.3	1005188
3x95SM/50SM	-J	20417903	Tape	33	3,374	396	0.193	13.9	1005191
3x95SM/50RM	-O	20224662	Tape	33	3,395	396	0.193	13.9	1005191
3x95SM/50RM	-J	20224632	Tape	33	3,386	396	0.193	13.9	1005191
3x120SM/70RM	-O	20224655	Tape	36.2	4,306	434	0.153	17.5	1005191
3x150/70	-J	20224501	Extruded	42.5	5,310	510	0.124	21.83	1004939

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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
3x150SM/70RM	-O	20224656	Tape	39.8	5,147	478	0.124	21.8	1005191
3x150SM/70RM	-J	20224628	Tape	39.8	5,136	478	0.124	21.8	1005191
3x185/95	-J	20267496	Extruded	47.1	6,679	565	0.0991	21.83	1004939
3x185SM/95RM	-O	20224657	Tape	45.2	6,513	543	0.0991	26.9	1005191
3x240/120	-J	20267497	Extruded	53	8,645	636	0.0754	26.88	1004939
3x240SM/120RM	-O	20224658	Tape	53.6	8,499	643	0.0754	34.8	1005191
4x1,5RE	-J	20227618	Extruded	9.8	147	118	12.1	0.26	1004938
4x2,5RE	-J	20227642	Extruded	10.7	194	128	7.41	0.41	1004938
4x6RE	-J	20227651	Extruded	13.2	363	158	3.08	0.94	1004938
4x16RM	-J	20224635	Extruded	21.1	975	253	1.15	2.4	1005188
3x25+16	-J	20224502	Extruded	23	1,241	276	0.727	3.73	1004938
4x25RM	-J	20224639	Tape	23.6	1,166	284	0.727	3.7	1005188
4x25RM	-J	20224638	Extruded	24.9	1,442	299	0.727	3.7	1005188
4x35RM	-J	20396361	Tape	24.1	1,485	288	0.524	5.2	1005188
4x35RM	-J	20308400	Extruded	27.4	1,871	329	0.524	5.2	1005188
4x50SM	-J	131500104003	Tape	24.6	1,963	295	0.387	7.4	1005190
4x70SM	-J	20224640	Tape	28.5	2,826	341	0.268	10.3	1005190
4x70SM	-J	20415611	Extruded	32.3	3,130	485	0.268	10.3	1005190
4x95SM	-J	20224641	Tape	32	3,816	384	0.193	13.9	1005190
4x120SM	-J	20224633	Tape	36.2	4,755	434	0.153	17.5	1005190
3x120SM/70RM	-J	131500109006	Tape	38.7	5,036	464	0.153	17.5	1005191
4x150SM	-J	20224634	Tape	39.8	5,854	478	0.124	21.8	1005190
4x185SM	-J	20224636	Tape	45.2	7,330	543	0.0991	26.9	1005190
3x185SM/95RM	-J	131500109010	Tape	43.9	6,367	527	0.0991	26.9	1005191
4x240SM	-J	20224637	Tape	53.6	9,631	643	0.0754	34.8	1005190
3x240SM/120RM	-J	131500109008	Tape	52.3	8,305	628	0.0754	34.8	1005191
5x1,5RE	-J	20227641	Extruded	10.6	170	127	12.1	0.26	1004938
5x2,5RE	-J	20227647	Extruded	11.6	226	139	7.41	0.41	1004938
5x4RE	-J	20227650	Extruded	12.9	312	155	4.61	0.64	1004938
5x6RE	-J	20227652	Extruded	14.4	443	173	3.08	0.94	1004938
5x10RE	-J	20319764	Extruded	16.9	671	203	1.83	1.53	1004938
5x16	-J	20224509	Extruded	21.5	1,103	258	1.15	2.41	1004938
5x16RM	-J	20224643	Tape	21.6	979	260	1.15	2.4	1005188
5x25RM	-J	20224644	Tape	25.8	1,480	310	0.727	3.7	1005188
5x35RM	-J	20224645	Tape	28.5	1,949	343	0.524	5.2	1005188

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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