

## AFUMEX 1000 N2XCH 0,6/1KV

AFUMEX 1000 are LSOH, used in places with high safety demand.



AFUMEX 1000 N2XCH cables are suitable for installation in buildings, outdoors, in cable conduits and tubes. Not suitable for the installation in ground or water. AFUMEX 1000 N2XCH with better properties in case of fire is intended for use in hospitals, schools and similar buildings. It is halogen free and low smoke.

### STANDARDS



<b>DIN VDE 0276-604</b>	General
<b>DIN EN 60228</b>	Conductor
<b>DIN VDE 0293-308</b>	Core identification
<b>DIN EN 60332-3-24</b>	Fire performance
<b>DIN EN 50575</b>	Fire performance
<b>DIN EN 61034-2</b>	Fire performance
<b>DIN VDE 0298-4</b>	Electrical parameters
<b>IEC 60754-1</b>	Halogen free
<b>IEC 60754-2</b>	Fire performance

### CABLE DESIGN

Conductor	Bare copper: round, single wire, class 1 or round, multi-wire, compacted, class 2 or sector shaped, multi-wire, class 2
Core insulation material	XLPE
Screen construction	Wire screen and counterhelix tape
Screen material	Copper, bare
Material outer sheath	Other

### CHARACTERISTICS

Permanent tensile strength (rule)	50 N/mm <sup>2</sup>
Bending radius (rule)	15 x OD

## CHEMICAL PROPERTIES

CPR reaction to fire	Eca
UV resistant	Yes

## ELECTRICAL & THERMAL PARAMETERS

Rated voltage U0/U (Um)	0.6/1 (1.2) kV
Max. voltage DC Um [V]	1,800
Max. conductor temperature [°C]	90
Max. conductor temperature at short circuit [°C]	250
Laying temperature (min) [°C]	-5
Ambient temperature fix installation (min) [°C]	-40
Ambient temperature fix installation (max) [°C]	90

## 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	SAP code	Shape of conductor	Conductor category	Nominal outer diameter [mm]	Cable weight [kg/km]	Short circuit current conductor [Isec] [kA]	DOP number
2x1,5/1,5	20002019	Round	Class 1 = solid	11	170	0.22	1004716
2x2,5/2,5	20002021	Round	Class 1 = solid	12	213	0.36	1004716
3x1,5/1,5	20002038	Round	Class 1 = solid	12	200	0.22	1004716
3x2,5/2,5	20002039	Round	Class 1 = solid	13	250	0.36	1004716
3x4/4	20100900	Round	Class 1 = solid	14	330	0.57	1004716
3x6/6	20002042	Round	Class 1 = solid	15	420	0.86	1004716
3x10/10	20100898	Round	Class 1 = solid	18	610	1.43	1004716
3x16/16	20100899	Round	Class 1 = solid	20	880	2.28	1004716
3x25/16	20007483	Round	Class 2 = stranded	25	1,300	3.57	1004716
3x50/25	20100901	Sector-shaped	Class 2 = stranded	28	1,960	7.15	1004717
3x120/70	20080333	Sector-shaped	Class 2 = stranded	39	4,520	17.2	1004717
3x150/70	20016664	Sector-shaped	Class 2 = stranded	44	6,220	21.4	1004717
4x1,5/1,5	20002075	Round	Class 1 = solid	13	220	0.22	1004716
4x2,5/2,5	20002076	Round	Class 1 = solid	14	280	0.36	1004716
4x4/4	20002078	Round	Class 1 = solid	15	380	0.57	1004716
4x6/6	20002080	Round	Class 1 = solid	16	490	0.86	1004716
4x10/10	20002082	Round	Class 1 = solid	19	730	1.43	1004716
4x16/16	20002084	Round	Class 1 = solid	21	1,050	2.28	1004716
4x25/16	20002086	Round	Class 2 = stranded	26	1,560	3.57	1004716
4x35/16	20002088	Round	Class 2 = stranded	29	1,990	5.01	1004716
4x50/25	20002090	Sector-shaped	Class 2 = stranded	30	2,450	7.15	1004717
4x70/35	20002092	Sector-shaped	Class 2 = stranded	36	3,450	10	1004717
4x95/50	20002094	Sector-shaped	Class 2 = stranded	41	4,580	13.6	1004717

## CABLE PROPERTIES

Basic construction	SAP code	Shape of conductor	Conductor category	Nominal outer diameter [mm]	Cable weight [kg/km]	Short circuit current conductor (1sec) [kA]	DOP number
4x120/70	20002096	Sector-shaped	Class 2 = stranded	44	5,790	17.2	1004717
4x150/70	20002098	Sector-shaped	Class 2 = stranded	48	6,970	21.4	1004717
4x185/95	20002100	Sector-shaped	Class 2 = stranded	53	8,790	26.4	1004717
4x240/120	20002101	Sector-shaped	Class 2 = stranded	59	11,400	34.3	1004717
5X6/6	20217029	Round	Class 1 = solid	17	570	0.86	1004716
7x1,5/2,5	20002113	Round	Class 1 = solid	14	300	0.22	1004716
7x2,5/2,5	20002114	Round	Class 1 = solid	16	380	0.36	1004716
7x4/4	20048367	Round	Class 1 = solid	17	530	0.57	1004716
12x1,5/2,5	20002118	Round	Class 1 = solid	18	460	0.22	1004716
12x2,5/4	20002119	Round	Class 1 = solid	19	610	0.36	1004716

## CURRENT CARRYING CAPACITY

Basic construction	SAP Code	Current carrying capacity wall laying reference C* 2 cores loaded [A]	Current carrying capacity wall laying reference C* 3 cores loaded [A]
2x1,5/1,5	20002019	24	N/A
2x2,5/2,5	20002021	33	N/A
3x1,5/1,5	20002038	24	22
3x2,5/2,5	20002039	33	30
3x4/4	20100900	45	40
3x6/6	20002042	58	52
3x10/10	20100898	80	71
3x16/16	20100899	107	96
3x25/16	20007483	138	119
3x50/25	20100901	209	179
3x120/70	20080333	382	322
3x150/70	20016664	441	371
4x1,5/1,5	20002075	24	22
4x2,5/2,5	20002076	33	30
4x4/4	20002078	45	40
4x6/6	20002080	58	52
4x10/10	20002082	80	71

## CURRENT CARRYING CAPACITY

Basic construction	SAP Code	Current carrying capacity wall laying reference C* 2 cores loaded [A]	Current carrying capacity wall laying reference C* 3 cores loaded [A]
4x16/16	20002084	107	96
4x25/16	20002086	138	119
4x35/16	20002088	171	147
4x50/25	20002090	209	179
4x70/35	20002092	269	229
4x95/50	20002094	328	278
4x120/70	20002096	382	322
4x150/70	20002098	441	371
4x185/95	20002100	506	424
4x240/120	20002101	599	500
5X6/6	20217029	58	52
7x1,5/2,5	20002113	24	22
7x2,5/2,5	20002114	33	30
7x4/4	20048367	45	40
12x1,5/2,5	20002118	24	22
12x2,5/4	20002119	33	30

Current carrying capacity according to IEC 60364-5-52