

NHXMH B2ca 300/500V

NHXMH B2ca with enhanced fire properties for building installations



B2_{ca}
CPR

The insulated wire PRYSMIAN NHXMH B2ca (s1a, d1, a1) with enhanced properties in case of fire is suited for installations in buildings and industries. It can lay in, on and under plaster in dry, humid and wet rooms in concrete without shake and tamp concrete. The wire can also be laid outdoors, but only if protected against direct sunlight. Not suitable for an installation in ground or water.
DoP code:1016570.

STANDARDS



DIN VDE 0250-214	General
DIN VDE 0298-3	Application
DIN EN 60228	Conductor
DIN VDE 0293-308	Core identification
DIN EN 60332-3-10 / DIN EN 60332-3-24	Fire performance
DIN EN 50575	Fire performance
DIN EN 61034-2	Fire performance
DIN EN 50267-2-2	Fire performance
DIN VDE 0298-4	Electrical parameters

CABLE DESIGN

Conductor	Copper: round single wire, class 1 or round, multi wire, compacted, class 2
Conductor material	Copper
Conductor surface	Bare
Core insulation material	XLPE
Material outer sheath	HFFR

ELECTRICAL & THERMAL PARAMETERS

Test voltage [kV]	2
Max. conductor temperature [°C]	70
Laying temperature (min) [°C]	5
Ambient temperature fix installation (min) [°C]	-40
Ambient temperature fix installation (max) [°C]	50

CHARACTERISTICS

Outdoor installation	Yes
Bending radius (rule)	4xD

CHEMICAL PROPERTIES

CPR reaction to fire	B2ca
CPR smoke development	s1a
CPR flaming particles	d1
CPR acidity	a1
Halogen free	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

Basic construction	Type	Conductor category	SAP code	Nominal outer diameter [mm]	Cable weight [kg/km]	Short circuit current conductor (1sec) [kA]
3x1,5	-J	Class 1 = solid	20406156	9	115	0.17
3x2,5	-J	Class 1 = solid	20406184	9.8	150	0.29
4x1,5	-J	Class 1 = solid	20406160	9.6	135	0.17
4x2,5	-J	Class 1 = solid	20406190	10.5	175	0.29
5x1,5	-J	Class 1 = solid	20406261	10.2	155	0.17
5x2,5	-J	Class 1 = solid	20406252	11.2	205	0.29

CURRENT CARRYING CAPACITY

Basic construction	Type	SAP Code	Current carrying capacity on/in the wall or under plaster reference method C [A]	Current carrying capacity tubes on the wall reference methods B1 or B2 [A]
3x1,5	-J	20406156	19,5	16,5
3x2,5	-J	20406184	24	20
4x1,5	-J	20406160	17,5	15
4x2,5	-J	20406190	24	20
5x1,5	-J	20406261	17,5	15
5x2,5	-J	20406252	24	20

Current carrying capacity according to DIN VDE 0298-4, values for two or three loaded cores