

FRNC power cable (N)A2XCH



Application: Low-smoke, zero-halogen flame retardant power cable. For fixed installation indoor, outdoor installation as well as in concrete and for direct burial in ground, but not in water.

Construction and technical data:

Standard:	VDE 0276-604 (with ref. to)
Conductor material:	aluminium
Conductor construction:	Class 2 = stranded
Insulation:	XLPE
Material inner sheath:	halogen-free
Concentric conductor:	Cu
Sheathing material:	FRNC-compound HM4
Colour of outer sheath:	black
Flame-retardant:	VDE 0482-266-2-4/IEC 60332-3-24 (Cat. C)
Smoke density:	DIN EN 61034/IEC 61034
Halogen-free:	DIN EN 50267/IEC 60754
UV-resistant:	yes
Max. temperature at conductor, °C:	90 °C
Max. short circuit temperature at conductor, °C:	250 °C
Permitted outer cable temperature, fixed, °C:	-40 - +90 °C
Permitted outer cable temperature, moved, °C:	-5 - +90 °C
Bending radius, fixed installation, multicore:	12 x Ø
Bending radius, fixed installation, singlecore:	15 x Ø



The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

Core identification

Number of cores	colours
1	black
2	blue, brown
3	brown, black, grey
4	blue, brown, black, grey
5	blue, brown, black, grey, black

(N)A2XCH 0.6/1 kV

Nominal voltage U_o: 0.6 kV

Nominal voltage U: 1 kV

Maximum permitted operating voltage in three-phase systems: 1.2 kV

Test voltage: 4 kV

part no.	part name		RI [Ohm/km]	I _{bl} [A]	I _{be} [A]	Ø [mm]	F _{zv} [N]	Al	Cu	G [kg]
090506	01X120/25	RM	0.253	308	303	20.6	3600	348	283	735
090507	01X185/35	RM	0.164	401	340	24.9	5500	537	394	1075
090540	03X70/35	SM	0.443	194	197	30.4	6300	609	394	1425
090541	03X95/50	SM	0.32	239	236	33.5	8550	827	560	1860
090542	03X240/120	SM	0.125	430	197	52.1	21600	2088	1330	4510
090508	04X70/35	SM	0.443	194	197	34.1	8400	812	394	1721
090509	04X150/70	SM	0.206	316	302	47.8	18000	1740	780	3857

RI	Conductor resistance
I _{bl}	Ampacity in air (30 °C)
I _{be}	Ampacity in ground (20 °C)
Ø	outer diameter approx.
F _{zv}	Tensile strength (during installation)
Al	Aluminium weight (GER)
Cu	Copper weight (GER)
G	net weight per 1000