FRNC power cable
N2XCH (B2ca)

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

Construction and technical data:

CPR-classification according to EN 50575:	B2ca
Standard:	VDE 0276-604
Conductor material:	copper, bare
Conductor construction:	class 1, from 25 sqmm class 2
Insulation:	XLPE 2XI1
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
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	-30 - +70 °C
Permitted outer cable temperature, moved, °C:	-5 - +70 °C
Bending radius, fixed installation:	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.

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Nominal voltage Uo: 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		Rl [Ohm/km]	Wi [mm]	Ibl [A]	Ik [kA]	Rbv [mm]	Ø [mm]	Fzv [N]	Cu	G [kg]
014974	02X1.5/1.5	RE	12.1	0.7	25	0.21	144	10	150	52	250
014975	02X2.5/2.5	RE	7.41	0.7	33	0.36	144	11	250	80	280
014976	02X4/4	RE	4.61	0.7	43	0.57	168	12.5	400	123	320
014977	03X1.5/1.5	RE	12.1	0.7	25	0.21	228	10.5	225	66	250
014978	03X2.5/2.5	RE	7.41	0.7	33	0.36	156	12	375	104	320
014979	03X4/4	RE	4.61	0.7	43	0.57	168	12.7	600	161	400
014980	03X6/6	RE	3.08	0.7	54	0.86	192	14	900	240	500
014981	03X10/10	RE	1.83	0.7	75	1.43	216	15.5	1500	408	750
014982	03X16/16	RE	1.15	0.7	100	2.29	252	18	2400	643	1000
014983	03X25/16	RM	0.727	0.9	136	3.58	288	20	3750	902	1600
014984	03X50/25	SMv	0.387	1	201	7.15	360	27.5	7500	1723	2400
015373	03X70/35	SMv	0.268	1.1	255	10.1	450	30.4	10500	2410	2645
015327	03X95/50	SMv	0.193	1.1	314	13.59	500	33.5	14250	3296	3562
014985	03X185/95	SMv	0.0991	1.6	480	26.46	600	46.5	27750	6383	6680
014986	04X1.5/1.5	RE	12.1	0.7	25	0.21	156	11.5	300	81	235
014987	04X2.5/2.5	RE	7.41	0.7	33	0.36	168	12.5	500	128	302
014988	04X4/4	RE	4.61	0.7	43	0.57	180	14	800	200	411
014989	04X6/6	RE	3.08	0.7	54	0.86	204	16	1200	297	527
014990	04X10/10	RE	1.83	0.7	75	1.43	228	19	2000	504	762
014991	04X16/16	RE	1.15	0.7	100	2.29	264	21	3200	796	1139
014992	04X25/16	RM	0.727	0.9	136	3.58	324	25	5000	1142	1634
014993	04X35/16	SM	0.524	0.9	165	5.01	348	27.5	7000	1526	2080
014994	04X50/25	SMv	0.387	1	201	7.15	396	31	10000	2203	2790
014995	04X70/35	SMv	0.268	1.1	255	10.01	492	35.5	14000	3082	3550
014996	04X95/50	SMv	0.193	1.1	314	13.59	552	39	19000	4208	4800
014997	04X120/70	SMv	0.153	1.2	364	17.16	600	44	24000	5388	6556
014998	04X150/70	SMv	0.124	1.4	416	21.45	660	49	30000	6540	7904
014999	04X185/95	SMv	0.0991	1.6	480	26.46	744	53	37000	8159	9950
015000	04X240/120	SMv	0.0754	1.7	565	34.32	816	59	48000	10546	12912
015001	07X1.5/2.5	RE	12.1	0.7	24	0.36	192	14	525	133	380
015002	07X2.5/2.5	RE	7.41	0.7	32	0.36	216	15.5	875	200	480
015003	07X4/4	RE	4.61	0.7	42	0.57	228	16.5	1400	315	650
015004	07X6/6	RE	3.08	0.7	53	0.86	240	17.5	2100	470	850
015005	12X1.5/2.5	RE	12.1	0.7	24	0.21	240	16.5	900	205	550
015006	12X2.5/4	RE	7.41	0.7	32	0.36	252	19	1500	334	750
015007	24X1.5/6	RE	12.1	0.7	24	0.21	300	23	1800	413	950

Rl	Conductor resistance
Wi	Insulation wall thickness
Ibl	Ampacity in air (30 °C)
Ik	Short-circuit current (1 s)
Rbv	Bending radius, fixed installation
Ø	outer diameter approx.
Fzv	Tensile strength (during installation)
Cu	Copper weight (GER)
G	net weight per 1000

