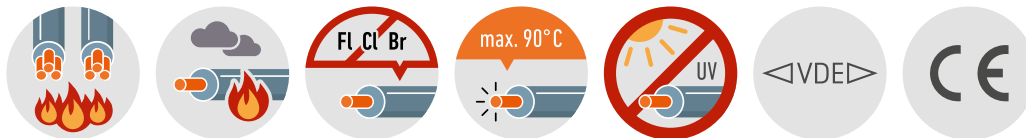


FRNC power cable N2XCH acc. to VDE 0276-604



CPR-performance:	Cca
Conductor material:	copper, bare
Conductor class:	class 1, from 25 sqmm class 2
Insulation:	XLPE 2XI1
Concentric conductor:	Cu
Sheathing material:	FRNC-compound HM4
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
Maximum permitted conductor temperature, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	-30 - +70 °C
Permitted outer cable temperature, in motion/ during installation, °C:	-5 - +70 °C
Bending radius, fixed installation:	15 x DA
Nominal voltage U₀:	600 V
Nominal voltage U:	1 kV
Maximum permitted operating voltage in three-phase systems:	1,2 kV
Test voltage:	4 kV
Core identification:	colours acc. to HD 308; more than 5 cores: numbers

Application: Zero-halogen, low-smoke power cable with improved flame-retardance. For fixed installation indoors, in air as well as in concrete, but not for direct burial in the ground or application in water.



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.

Table: Technical characteristics N2XCH

p/n	part name		R _i [Ω/km]	W _i [mm]	I _{bl} [A]	I _k [kA]	R _{bv} [mm]	D _A [mm]	F _{ZV} [N]	Cu [kg/km]	G [kg/km]
014367	N2XCH 01X500/16 SW	RMv						36,2		4982	5034
013122	(N)2XCH 01X500/35 SW	RMv	0,0366	2,2	825	71,5	600	40	25000	5194	6854
011128	N2XCH 02X1,5/1,5 SW	RE	12,1	0,7	25	0,21	144	12	150	52	250
011129	N2XCH 02X2,5/2,5 SW	RE	7,41	0,7	33	0,36	144	12	250	80	280
011508	N2XCH 02X4/4 SW	RE	4,61	0,7	43	0,57	168	14	400	123	320
012528	N2XCH 02X6/6 SW	RE	3,08	0,7	54	0,86	180	15	600	182	410

p/n	part name		R _l [Ω/km]	W _i [mm]	I _{bl} [A]	I _k [kA]	R _{bv} [mm]	D _A [mm]	F _{ZV} [N]	Cu [kg/km]	G [kg/km]
012529	N2XCH 02X10/10 SW	RE	1,83	0,7	75	1,43	204	17	1000	312	550
012530	N2XCH 02X16/16 SW	RE	1,15	0,7	100	2,29	228	19	1600	489	780
011130	N2XCH 03X1,5/1,5 SW	RE	12,1	0,7	25	0,21	228	12	225	66	250
011131	N2XCH 03X2,5/2,5 SW	RE	7,41	0,7	33	0,36	156	13	375	104	320
011132	N2XCH 03X4/4 SW	RE	4,61	0,7	43	0,57	168	14	600	161	400
011133	N2XCH 03X6/6 SW	RE	3,08	0,7	54	0,86	192	16	900	240	500
011134	N2XCH 03X10/10 SW	RE	1,83	0,7	75	1,43	216	18	1500	408	750
011135	N2XCH 03X16/16 SW	RE	1,15	0,7	100	2,29	252	21	2400	643	1000
011136	N2XCH 03X25/16 SW	RM	0,727	0,9	136	3,58	288	24	3750	902	1600
011137	N2XCH 03X35/16 SW	SM	0,524	0,9	165	5,01	324	27	5250	1190	1900
011138	N2XCH 03X50/25 SW	SMv	0,387	1	201	7,15	360	30	7500	1723	2400
012063	N2XCH 03X70/35 SW	SMv	0,268	1,1	255	10,01	408	34	10500	2410	2615
013018	N2XCH 03X95/50 SW	SMv	0,193	1,1	314	13,59	457	38,1	14250	3296	3636
013019	N2XCH 03X120/70 SW	SMv	0,153	1,2	364	17,16	510	42,5	18000	4236	4606
013020	N2XCH 03X150/70 SW	SMv	0,124	1,4	416	21,45	564	47	22500	5100	5552
012064	N2XCH 03X185/95 SW	SMv	0,0991	1,6	480	26,46	600	50	27750	6383	6680
013021	N2XCH 03X240/120 SW	SMv	0,0754	1,7	565	34,32	685	57,1	36000	8242	8964
011139	N2XCH 04X1,5/1,5 SW	RE	12,1	0,7	25	0,21	156	13	300	81	235
011140	N2XCH 04X2,5/2,5 SW	RE	7,41	0,7	33	0,36	168	14	500	128	302
011141	N2XCH 04X4/4 SW	RE	4,61	0,7	43	0,57	180	15	800	200	411
011142	N2XCH 04X6/6 SW	RE	3,08	0,7	54	0,86	204	17	1200	297	527
011029	N2XCH 04X10/10 SW	RE	1,83	0,7	75	1,43	228	19	2000	504	762
011143	N2XCH 04X16/16 SW	RE	1,15	0,7	100	2,29	264	22	3200	796	1139
011144	N2XCH 04X25/16 SW	RM	0,727	0,9	136	3,58	324	27	5000	1142	1634
011145	N2XCH 04X35/16 SW	SM	0,524	0,9	165	5,01	348	29	7000	1526	2080
011146	N2XCH 04X50/25 SW	SMv	0,387	1	201	7,15	396	33	10000	2203	2790
011147	N2XCH 04X70/35 SW	SMv	0,268	1,1	255	10,01	492	41	14000	3082	3550
011148	N2XCH 04X95/50 SW	SMv	0,193	1,1	314	13,59	552	46	19000	4208	4800
011149	N2XCH 04X120/70 SW	SMv	0,153	1,2	364	17,16	600	50	24000	5388	6556
011150	N2XCH 04X150/70 SW	SMv	0,124	1,4	416	21,45	660	55	30000	6540	7904
011151	N2XCH 04X185/95 SW	SMv	0,0991	1,6	480	26,46	744	62	37000	8159	9950
011152	N2XCH 04X240/120 SW	SMv	0,0754	1,7	565	34,32	816	68	48000	10546	12912
012215	N2XCH 05X1,5/1,5 SW	RE	12,1	0,7	25	0,21	168	14	375	95	283
011153	N2XCH 07X1,5/2,5 SW	RE	12,1	0,7	24	0,21	192	16	525	133	380
011154	N2XCH 07X2,5/2,5 SW	RE	7,41	0,7	32	0,36	216	18	875	200	480
011155	N2XCH 07X4/4 SW	RE	4,61	0,7	42	0,57	228	19	1400	315	650
011156	N2XCH 07X6/6 SW	RE	3,08	0,7	53	0,86	240	20	2100	470	850
011979	N2XCH 10X2,5/4 SW	RE	7,41	0,7	32	0,36	216	18	1250	286	550
011157	N2XCH 12X1,5/2,5 SW	RE	12,1	0,7	24	0,21	240	20	900	205	550
011158	N2XCH 12X2,5/4 SW	RE	7,41	0,7	32	0,36	252	21	1500	334	750
013889	N2XCH 12X4/6 SW	RE						20,5		528	775
012458	N2XCH 14X1,5/2,5 SW	RE	12,1	0,7	24	0,21	211	17,6	1050	234	486
013884	N2XCH 19X2,5/6 SW	RE						21,7		523	838
011980	N2XCH 21X2,5/10 SW	RE	7,41	0,7	32	0,36	276	23	2625	624	1050
011159	N2XCH 24X1,5/6 SW	RE	12,1	0,7	24	0,21	300	25	1800	413	950
011973	N2XCH 24X2,5/10 SW	RE	7,41	0,7	32	0,36	312	26	3000	696	1106
011160	N2XCH 30X1,5/6 SW	RE	12,1	0,7	24	0,21	324	27	2250	499	1100
011858	N2XCH 30X2,5/6 SW	RE	7,41	0,7	32	0,36	336	28	3750	840	1500
011161	N2XCH 30X2,5/10 SW	RE	7,41	0,7	32	0,36	360	30	3750	840	1500

RI Conductor resistance

Wi Insulation wall thickness

I_{bl} Ampacity in air (30 °C)

I_k Short-circuit current (1 s)

R_{bv} Bending radius, fixed installation

D_A Outer diameter approx.

F_{ZV} Tensile strength (during installation)

Cu Copper weight (GER)

G net weight