

FRNC power cable N2XCH



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.

Construction and technical data:

CPR-classification according to EN 50575:	Cca
Standard:	VDE 0276-604
Conductor material:	copper, bare
Conductor construction:	class 1, from 25 sqmm class 2
Insulation:	XLPE 2X11
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



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.

N2XCH**Nominal voltage U_o:** 0.6 kV**Nominal voltage U:** 1 kV**Maximum permitted operating voltage in** 1.2 kV**three-phase systems:****Test voltage:** 4 kV**Core identification:** colours acc. to HD 308;
more than 5 cores: numbers

part no.	part name		Rl [Ohm/km]	Wi [mm]	Ibl [A]	Ik [kA]	Rbv [mm]	Ø [mm]	Fzv [N]	Cu [kg/km]	G [kg]
014367	01X500/16 (with reference to)	RMv	0.0366	2.2	825	71.5	543	36.2	25000	4982	5034
013122	01X500/35 (with reference to)	RMv	0.0366	2.2	825	71.5	600	40	25000	5194	6854
011128	02X1.5/1.5	RE	12.1	0.7	25	0.21	144	12	150	52	250
011129	02X2.5/2.5	RE	7.41	0.7	33	0.36	144	12	250	80	280
011508	02X4/4	RE	4.61	0.7	43	0.57	168	14	400	123	320
012528	02X6/6	RE	3.08	0.7	54	0.86	180	15	600	182	410
012529	02X10/10	RE	1.83	0.7	75	1.43	204	17	1000	312	550
012530	02X16/16	RE	1.15	0.7	100	2.29	228	19	1600	489	780
011130	03X1.5/1.5	RE	12.1	0.7	25	0.21	228	12	225	66	250
011131	03X2.5/2.5	RE	7.41	0.7	33	0.36	156	13	375	104	320
011132	03X4/4	RE	4.61	0.7	43	0.57	168	14	600	161	400
011133	03X6/6	RE	3.08	0.7	54	0.86	192	16	900	240	500
011134	03X10/10	RE	1.83	0.7	75	1.43	216	18	1500	408	750
011135	03X16/16	RE	1.15	0.7	100	2.29	252	21	2400	643	1000
011136	03X25/16	RM	0.727	0.9	136	3.58	288	24	3750	902	1600
011137	03X35/16	SM	0.524	0.9	165	5.01	324	27	5250	1190	1900
011138	03X50/25	SMv	0.387	1	201	7.15	360	30	7500	1723	2400
012063	03X70/35	SMv	0.268	1.1	255	10.01	408	34	10500	2410	2615
013018	03X95/50	SMv	0.193	1.1	314	13.59	457	38.1	14250	3296	3636
013019	03X120/70	SMv	0.153	1.2	364	17.16	510	42.5	18000	4236	4606
013020	03X150/70	SMv	0.124	1.4	416	21.45	564	47	22500	5100	5552
012064	03X185/95	SMv	0.0991	1.6	480	26.46	600	50	27750	6383	6680
013021	03X240/120	SMv	0.0754	1.7	565	34.32	685	57.1	36000	8242	8964
011139	04X1.5/1.5	RE	12.1	0.7	25	0.21	156	13	300	81	235
011140	04X2.5/2.5	RE	7.41	0.7	33	0.36	168	14	500	128	302
011141	04X4/4	RE	4.61	0.7	43	0.57	180	15	800	200	411
011142	04X6/6	RE	3.08	0.7	54	0.86	204	17	1200	297	527
011029	04X10/10	RE	1.83	0.7	75	1.43	228	19	2000	504	762
011143	04X16/16	RE	1.15	0.7	100	2.29	264	22	3200	796	1139
011144	04X25/16	RM	0.727	0.9	136	3.58	324	27	5000	1142	1634
011145	04X35/16	SM	0.524	0.9	165	5.01	348	29	7000	1526	2080
011146	04X50/25	SMv	0.387	1	201	7.15	396	33	10000	2203	2790
011147	04X70/35	SMv	0.268	1.1	255	10.01	492	41	14000	3082	3550
011148	04X95/50	SMv	0.193	1.1	314	13.59	552	46	19000	4208	4800
011149	04X120/70	SMv	0.153	1.2	364	17.16	600	50	24000	5388	6556
011150	04X150/70	SMv	0.124	1.4	416	21.45	660	55	30000	6540	7904
011151	04X185/95	SMv	0.0991	1.6	480	26.46	744	62	37000	8159	9950
011152	04X240/120	SMv	0.0754	1.7	565	34.32	816	68	48000	10546	12912
012215	05X1.5/1.5	RE	12.1	0.7	25	0.21	168	14	375	95	283
015630	05X2.5/2,5	RE	7.41	0.7	33	0.36	204	13.6	625	152	300
015589	05X4/4 (with reference to)	RE	4.61	0.7	43	0.57	228	15.2	1000	238	409
015590	05X6/6 (with reference to)	RE	3.08	0.7	54	0.86	255	17	1500	355	547
015591	05X10/10 (with reference to)	RE	1.83	0.7	75	1.43	290	19.3	2500	600	807
011153	07X1.5/2.5	RE	12.1	0.7	24	0.21	192	16	525	133	380

part no.	part name		RI [Ohm/km]	Wi [mm]	Ibl [A]	Ik [kA]	Rbv [mm]	Ø [mm]	Fzv [N]	Cu [kg/km]	G [kg]
011154	07X2.5/2.5	RE	7.41	0.7	32	0.36	216	18	875	200	480
011155	07X4/4	RE	4.61	0.7	42	0.57	228	19	1400	315	650
011156	07X6/6	RE	3.08	0.7	53	0.86	240	20	2100	470	850
011979	10X2.5/4	RE	7.41	0.7	32	0.36	216	18	1250	286	550
011157	12X1.5/2.5	RE	12.1	0.7	24	0.21	240	20	900	205	550
011158	12X2.5/4	RE	7.41	0.7	32	0.36	252	21	1500	334	750
013889	12X4/6	RE	4.61	0.7	42	0.57	246	20.5	2400	528	775
012458	14X1.5/2.5	RE	12.1	0.7	24	0.21	211	17.6	1050	234	486
013884	19X2.5/6	RE	7.41	0.7	32	0.57	260	21.7	2375	523	838
011980	21X2.5/10	RE	7.41	0.7	32	0.36	276	23	2625	624	1050
011159	24X1.5/6	RE	12.1	0.7	24	0.21	300	25	1800	413	950
011973	24X2.5/10	RE	7.41	0.7	32	0.36	312	26	3000	696	1106
011160	30X1.5/6	RE	12.1	0.7	24	0.21	324	27	2250	499	1100
011858	30X2.5/6	RE	7.41	0.7	32	0.36	336	28	3750	840	1500
011161	30X2.5/10	RE	7.41	0.7	32	0.36	360	30	3750	840	1500

RI	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