

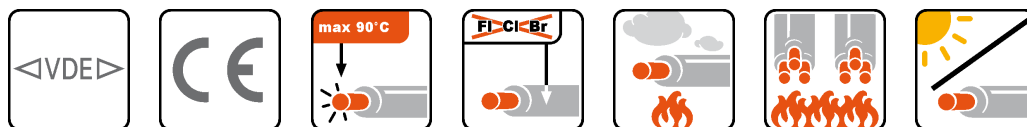
# FRNC power cable N2XH-J/-0 acc. to VDE 0276-604



<b>conductor material:</b>	bare copper	
<b>conductor construction:</b>	class 1, from 25 sqmm class 2	
<b>insulation:</b>	XLPE 2XI1	
<b>sheathing material:</b>	FRNC-compound HM4	
<b>flame retardant:</b>	VDE 0482-266-2-4/IEC 60332-3-24	
<b>smoke density:</b>	DIN EN 61034/IEC 61034	
<b>halogen free:</b>	DIN EN 50267/IEC 60754	
<b>maximum temperature at conductor:</b>	90 °C	
<b>max. operating temperature, fixed:</b>	-30 - +70 °C	
<b>temperature, moved/during installation:</b>	-5 - +70 °C	
<b>bending radius, fixed installation:</b>	15 x DA	
	<i>N2XH-J</i>	<i>N2XH-0</i>
<b>core identification:</b>	colours acc. VDE 0293 (HD308)	colours acc. VDE 0293 (HD308)
<b>protective conductor:</b>	yes	no
<b>nominal voltage U<sub>0</sub>:</b>	0,6 kV	0,6 kV
<b>nominal voltage U:</b>	1 kV	1 kV
<b>test voltage:</b>	4 kV	4 kV
<b>maximum permitted operating voltage in 3-phase systems:</b>	1,2 kV	1,2 kV

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

<b>Austria:</b>	<i>E-2XH</i>
<b>Belgium:</b>	<i>XGB</i>
<b>Finnland:</b>	<i>XMK-HF</i>
<b>Switzerland:</b>	<i>CH-N1XZ1</i>



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 acc. to HD 308

number of cores	with protective conductor	without protective conductor
1	green-yellow	black
2		blue, brown
3	green-yellow, blue, brown	brown, black, gray
4	green-yellow, brown, black, gray	blue, brown, black, gray
5	green-yellow, blue, brown, black, gray	blue, brown, black, gray, black

## table: technical data N2XH-J

Art.-Nr.	part-name		RI [Ω/km]	I <sub>bl</sub> [A]	I <sub>k</sub> [kA]	DA [mm]	F <sub>z</sub> [N]	G [kg/km]
012570	N2XH-J 01X16 SW	RE	1,15	102	2,29	12	800	270
012460	N2XH-J 01X120 SW	RMv	0,153	380	17,16	22	6000	1500
011070	N2XH-J 03X1,5 SW	RE	12,1	24	0,21	12	225	179
011071	N2XH-J 03X2,5 SW	RE	7,41	32	0,36	13	375	225
011073	N2XH-J 03X4 SW	RE	4,61	42	0,57	14	600	291

Art.-Nr.	part-name		RI [Ω/km]	Ibl [A]	Ik [kA]	DA [mm]	Fz [N]	G [kg/km]
011074	N2XH-J 03X6 SW	RE	3,08	53	0,86	15	900	371
011075	N2XH-J 03X10 SW	RE	1,83	74	1,43	16	1500	523
011076	N2XH-J 03X16 SW	RE	1,15	98	2,29	20	2400	773
011077	N2XH-J 03X25 SW	RM	0,727	133	3,58	22	3750	1200
011078	N2XH-J 03X35 SW	SM	0,524	162	5,01	25	5250	1600
011079	N2XH-J 03X50 SW	SMv	0,387	197	7,15	26	7500	1800
011514	N2XH-J 03X25/16 SW	RM	0,727	133	3,58	24	3750	1200
011515	N2XH-J 03X35/16 SW	SM	0,524	162	5,01	26	5250	1640
011080	N2XH-J 03X50/25 SW	SMv	0,387	197	7,15	32	7500	2200
011081	N2XH-J 03X70/35 SW	SMv	0,268	250	10,01	37	10500	2950
011082	N2XH-J 03X95/50 SW	SMv	0,193	308	13,59	41	14250	3900
011083	N2XH-J 03X120/70 SW	SMv	0,153	359	17,16	45	18000	4800
011084	N2XH-J 03X150/70 SW	SMv	0,124	412	21,45	49	22500	5750
011085	N2XH-J 03X185/95 SW	SMv	0,0991	475	26,46	55	27750	7200
011086	N2XH-J 03X240/120 SW	SMv	0,0754	564	34,32	62	36000	9150
<b>011087</b>	<b>N2XH-J 04X1,5 SW</b>	<b>RE</b>	<b>12,1</b>	<b>24</b>	<b>0,21</b>	<b>13</b>	<b>300</b>	<b>208</b>
011088	N2XH-J 04X2,5 SW	RE	7,41	32	0,36	14	500	265
011089	N2XH-J 04X4 SW	RE	4,61	42	0,57	15	800	352
011090	N2XH-J 04X6 SW	RE	3,08	53	0,86	16	1200	454
011091	N2XH-J 04X10 SW	RE	1,83	74	1,43	18	2000	647
011092	N2XH-J 04X16 SW	RE	1,15	98	2,29	20	3200	964
011093	N2XH-J 04X25 SW	RM	0,727	133	3,58	26	5000	1446
011094	N2XH-J 04X35 SW	SM	0,524	162	5,01	29	7000	1906
011095	N2XH-J 04X50 SW	SMv	0,387	197	7,15	32	10000	2530
011096	N2XH-J 04X70 SW	SMv	0,268	250	10,01	37	14000	3418
011097	N2XH-J 04X95 SW	SMv	0,193	308	13,59	41	19000	4574
011098	N2XH-J 04X120 SW	SMv	0,153	359	17,16	48	24000	5300
011099	N2XH-J 04X150 SW	SMv	0,124	412	21,45	50	30000	6350
011100	N2XH-J 04X185 SW	SMv	0,0991	475	26,46	53	37000	7800
011101	N2XH-J 04X240 SW	SMv	0,0754	564	34,32	58	48000	10300
013238	{N2XH-J 04X25/16 SW}	RM	0,727	133	3,58	26,1	5800	1539
013239	{N2XH-J 04X35/16 SW}	SMv	0,524	162	5,01	29,4	7800	1965
013240	{N2XH-J 04X50/25 SW}	SMv	0,387	197	7,15	30,8	11250	2445
013241	{N2XH-J 04X70/35 SW}	SMv	0,268	250	10,01	34,6	15570	3342
013242	{N2XH-J 04X185/95 SW}	SMv	0,0991	475	26,46	52,8	41750	8508
<b>011102</b>	<b>N2XH-J 05X1,5 SW</b>	<b>RE</b>	<b>12,1</b>	<b>24</b>	<b>0,21</b>	<b>14</b>	<b>375</b>	<b>243</b>
011103	N2XH-J 05X2,5 SW	RE	7,41	32	0,36	15	625	310
011104	N2XH-J 05X4 SW	RE	4,61	42	0,57	16	1000	413
011105	N2XH-J 05X6 SW	RE	3,08	53	0,86	17	1500	536
011106	N2XH-J 05X10 SW	RE	1,83	74	1,43	19	2500	776
011107	N2XH-J 05X16 SW	RE	1,15	98	2,29	22	4000	1165
011169	N2XH-J 05X25 SW	RM	0,727	133	3,58	25	6250	1766
012993	N2XH-J 05X35 SW	RM	0,524	162	5,01	28,8	8750	2155
<b>011108</b>	<b>N2XH-J 07X1,5 SW</b>	<b>RE</b>	<b>12,1</b>	<b>24</b>	<b>0,21</b>	<b>14</b>	<b>525</b>	<b>206</b>
011115	N2XH-J 07X2,5 SW	RE	7,41	32	0,36	15	875	287
011122	N2XH-J 07X4 SW	RE	4,61	42	0,57	15	1400	530
011109	N2XH-J 10X1,5 SW	RE	12,1	24	0,21	17	750	287
011116	N2XH-J 10X2,5 SW	RE	7,41	32	0,36	18	1250	472
011110	N2XH-J 12X1,5 SW	RE	12,1	24	0,21	17	900	328
011111	N2XH-J 14X1,5 SW	RE	12,1	24	0,21	17	1050	383
011118	N2XH-J 14X2,5 SW	RE	7,41	32	0,36	19	1750	670
011112	N2XH-J 19X1,5 SW	RE	12,1	24	0,21	19	1425	484
011119	N2XH-J 19X2,5 SW	RE	7,41	32	0,36	21	2375	840
011113	N2XH-J 24X1,5 SW	RE	12,1	24	0,21	22	1800	603
011120	N2XH-J 24X2,5 SW	RE	7,41	32	0,36	25	3000	1050
011114	N2XH-J 30X1,5 SW	RE	12,1	24	0,21	23	2250	730
011121	N2XH-J 30X2,5 SW	RE	7,41	32	0,36	26	3750	1230
011170	N2XH-J 40X1,5 SW	RE	12,1	24	0,21	26	3000	1200

Art.-Nr.	part-name		DI [mm]	RI [Ω/km]	l <sub>bl</sub> [A]	Ik [kA]	DA [mm]	Fz [N]	G [kg/km]
012541	N2XH-O 01X1,5 SW	RE		12,1	26	0,21		75	53
012542	N2XH-O 01X2,5 SW	RE		7,41	34	0,36		150	90
011049	N2XH-O 01X4 SW	RE		4,61	44	0,57	9	200	140
011072	N2XH-O 01X6 SW	RE		3,08	56	0,86	10	300	160
011051	N2XH-O 01X10 SW	RE		1,83	77	1,43	11	500	210
011052	N2XH-O 01X16 SW	RE		1,15	102	2,29	12	800	270
011053	N2XH-O 01X25 SW	RM		0,727	138	3,58	14	1250	380
011054	N2XH-O 01X35 SW	RM		0,524	170	5,01	15	1750	490
011055	N2XH-O 01X50 SW	RMv		0,387	207	7,15	16	2500	620
011056	N2XH-O 01X70 SW	RMv		0,268	263	10,01	18	3500	830
011057	N2XH-O 01X95 SW	RMv		0,193	325	13,59	20	4750	1200
011058	N2XH-O 01X120 SW	RMv		0,153	380	17,16	22	6000	1275
011059	N2XH-O 01X150 SW	RMv		0,124	437	21,45	24	7500	1700
011060	N2XH-O 01X185 SW	RMv		0,0991	507	26,46	26	9250	2200
011061	N2XH-O 01X240 SW	RMv		0,0754	604	34,32	29	12000	2750
011062	N2XH-O 01X300 SW	RMv		0,0601	697	42,9	30	15000	3300
011864	N2XH-O 01X400 SW	RMv		0,047	811	57,2	32	20000	4420
011543	N2XH-O 01X500 SW	RMv		0,0366	940	71,5	37	25000	4866
012621	(N)2XH-O 01X630 SW	RMv		0,0283	1083			31500	6650
011063	N2XH-O 02X1,5 SW	RE		12,1	24	0,21	12	150	180
011064	N2XH-O 02X2,5 SW	RE		7,41	32	0,36	12,1	250	210
011065	N2XH-O 02X4 SW	RE		4,61	42	0,57	13	400	270
011066	N2XH-O 02X6 SW	RE		3,08	53	0,86	14	600	340
011067	N2XH-O 02X10 SW	RE		1,83	74	1,43	16	1000	450
011068	N2XH-O 02X16 SW	RE		1,15	98	2,29	18	1600	600
011069	N2XH-O 02X25 SW	RM		0,727	133	3,58	23	2500	980
011997	N2XH-O 03X1,5 SW	RE		12,1	24	0,21	12	225	179
012622	N2XH-O 03X2,5 SW	RE		7,41	32	0,36	13		225
012057	N2XH-O 04X4 SW	RE		4,61	42	0,57	15	800	352
012456	N2XH-O 04X6 SW	RE		3,08	53	0,86	16	1200	454
011382	N2XH-O 04X10 SW	RE		1,83	74	1,43	18	2000	647
011547	N2XH-O 04X16 SW	RE		1,15	98	2,29	20	3200	964
012040	N2XH-O 04X25 SW	RM		0,727	133	3,58	26	5000	1446
012211	N2XH-O 04X35 SW	SM		0,524	162	5,01	29	7000	1906
012041	N2XH-O 04X50 SW	SMv		0,387	197	7,15	32	10000	2530
012212	N2XH-O 04X70 SW	SMv		0,268	250	10,01	37	14000	3418
012036	N2XH-O 04X95 SW	SMv		0,193	308	13,59	41	19000	4574
011381	N2XH-O 04X120 SW	SMv		0,153	359	17,16	48	24000	5300
012051	N2XH-O 10X1,5 SW	RE		12,1	24	0,21	17	750	287