

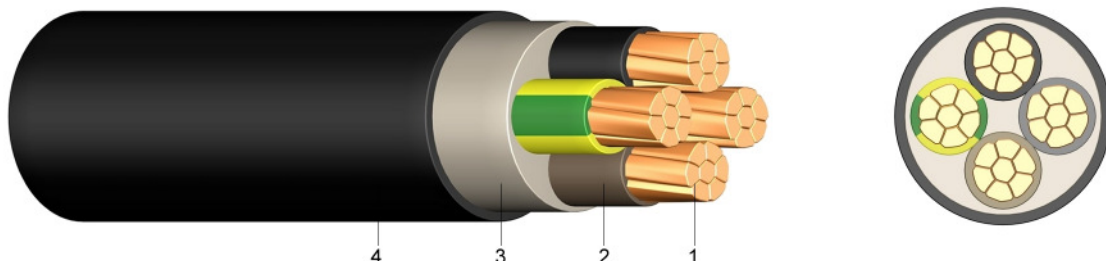
## Datasheet N2XH

Version 1/2009

### Halogen-Free Cable with Improved Fire Behaviour

#### Application:

Safety cables are used in all locations where a high degree of protection against fire and fire-damage has to be provided for human life and equipment and are, therefore, subject to high security requirements. These cables may be used indoors and outdoors. They may not be installed directly into the ground and into the water. This cable conforms to Safety Class II standards.



#### Construction:

- 1 ..... solid or stranded bare copper
- 2 ..... core insulation of halogen-free, cross-linked polyethylene
- 3 ..... core covering of a halogen-free compound
- 4 ..... outer sheath of halogen-free, cross-linked polymer compound, black

#### According to:

DIN VDE 0276-604  
 HD 604 S1 part 1 + part 5 G  
 DIN EN 60228 class 1 and 2 (construction)  
 HD 308 S2 (core identification)

#### Technical data:

Nominal voltage U <sub>0</sub> /U		[V]	600 / 1000 Volt
Test voltage		[V] <sub>AC</sub>	4000
Temperature range	in motion		-5°C till +90°C
Operating temperature	short circuit	°C	250
Short circuit time	max.	[sec]	5
Bending radius	single core style	x diameter	15
	multi core style	x diameter	12
Flammability	standard		EN 50266-2-4 EN 60332-1 IEC 60332-3 Kat.C

Number of cores and nominal cross section mm <sup>2</sup>	Copper figure kg/km	Overall diameter appr. mm	Calorific potential kWh / m	Weight appr. kg / km
1 x 6 RE	60	7,8	0,33	112
1 x 16 RM	160	9,8	0,46	226
1 x 25 RM	250	11,4	0,62	327
1 x 35 RM	350	12,6	0,71	429
1 x 50 RM	500	13,8	0,82	555
1 x 70 RM	700	15,7	1,00	765
1 x 95 RM	950	17,4	1,14	1.024
1 x 120 RM	1.200	19,0	1,32	1.263
1 x 150 RM	1.500	20,9	1,59	1.542
1 x 185 RM	1.850	23,1	1,91	1.918
1 x 240 RM	2.400	25,6	2,24	2.466
1 x 300 RM	3.000	28,1	2,58	3.065

Number of cores and nominal cross section mm <sup>2</sup>	Copper figure kg/km	Overall diameter appr. mm	Calorific potential kWh / m	Weight appr. kg / km
2 x 1,5 RE	30	9,3	0,45	125
2 x 2,5 RE	50	10,1	0,52	158
3 x 1,5 RE	45	9,7	0,51	142
3 x 2,5 RE	75	10,6	0,59	184
3 x 4 RE	120	11,7	0,70	247
3 x 6 RE	180	12,8	0,80	322
3 x 10 RE	300	14,9	1,02	480
3 x 16 RM	480	17,7	1,36	732
3 x 25 RM	750	24,0	2,25	1.200
3 x 35 RM	1.050	27,0	2,56	1.600
3 x 50 RM	1.500	29,0	3,19	1.800
3 x 50/25 SM/RM	1.750	32,0	3,53	2.200
3 x 70/35 SM/RM	2.450	37,0	4,31	2.950
3 x 95/50 SM	3.216	41,0	5,58	3.900
3 x 120/70 RM	4.300	45,0	6,58	4.800
3 x 150/70 RM	5.200	49,0	7,64	5.750
3 x 185/95 RM	6.500	55,0		7.200
3 x 240/120 RM	8.400	62,0		9.150
4 x 1,5 RE	60	10,4	0,60	166
4 x 2,5 RE	100	11,4	0,69	220
4 x 4 RE	160	12,6	0,84	298
4 x 6 RE	240	13,8	0,95	391
4 x 10 RE	400	16,3	1,26	599
4 x 16 RM	640	19,2	1,63	908
4 x 25 RM	1.000	23,9	2,48	1.413
4 x 35 RM	1.400	26,7	2,93	1.863
4 x 50 SM	2.000	29,1	3,76	2.362
4 x 70 SM	2.800	32,2	4,55	3.151
4 x 95 SM	3.800	37,2	5,72	4.339
4 x 120 SM	4.800	40,8	6,36	5.332
4 x 150 SM	6.000	50,0	7,14	6.350
5 x 1,5 RE	75	11,2	0,71	195
5 x 2,5 RE	125	12,3	0,84	260
5 x 4 RE	200	13,7	1,00	357
5 x 6 RE	300	15,4	1,21	486
5 x 10 RE	500	17,8	1,52	723
5 x 16 RE	800	21,6	2,17	1.138
5 x 16 RM	800	21,6	2,17	1.138
5 x 25 RM	1.250	27,0	3,14	1.420
5 x 35 RM	1.750	37,0	3,95	2.400
7 x 1,5 RE	105	12,0	0,80	239
12 x 1,5 RE	180	16,0	1,29	395
19 x 1,5 RE	285	18,6	1,80	557
24 x 1,5 RE	360	22,2	2,35	736
30 x 1,5 RE	450	24,0	2,72	900
7 x 2,5 RE	175	15,0	1,31	400
12 x 2,5 RE	300	19,0	2,00	600
19 x 2,5 RE	475	22,0	2,69	840
24 x 2,5 RE	600	25,0	3,28	1.050
7 x 4 RE	280	14,9	1,48	457