

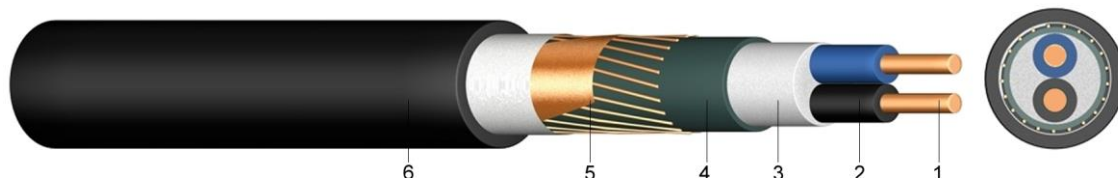


N2XCH

Halogen-Free Cable with Concentric Conductor 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.



Construction:

- 1 solid or stranded bare copper
- 2 core insulation of halogen-free, cross-linked polyethylene compound
- 3 core covering of halogen-free compound
- 4 anti-twist tape
- 5 concentric conductor formed by copper wires with counter helix of copper tape
- 6 outer sheath of halogen-free, cross-linked polyethylene compound, black

Standards:

- 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 ₀ /U	[V]	600 / 1000 Volt
Test voltage	[V] _{AC}	4000
Temperature range	in motion	-5°C till +90°C
Operating temperature	short circuit	250°C
Short circuit time	max.	[sec]
Bending radius	min.	x diameter
Flammability	standard	EN 50266-2-4 EN 60332-1 IEC 60332-3 Kat.C

Number of cores and nominal cross section mm ²	from stock	Copper figure kg/km	Cond. construction (appr. value) mm	Overall diameter appr. mm	Calorific potential kwh / m	Weight appr. kg / km
2 x 1,5 RE/ 1,5	●	54	1 x 1,38	11,5	0,44	177
2 x 2,5 RE/ 2,5	●	83	1 x 1,78	12,7	0,55	226
2 x 4 RE/ 4	●	128	1 x 2,25	13,5	0,60	280
2 x 6 RE/ 6	○	190	1 x 2,72	13,6	0,66	286
2 x 10 RE/ 10	●	325	1 x 3,56	16,5	0,72	500
3 x 1,5 RE/ 1,5	●	73	1 x 1,38	11,3	0,48	196
3 x 2,5 RE/ 2,5	●	113	1 x 1,78	13,2	0,55	253
3 x 4 RE/ 4	○	168	1 x 2,25	16,0	0,64	336
3 x 6 RE/ 6	○	250	1 x 2,76	16,0	0,72	441
3 x 10 RE/ 10	○	425	1 x 3,56	18,5	0,85	659
3 x 16 RE/ 16	○	670	1 x 4,51	21,3	1,18	979
3 x 25 RM/ 16	○	940	7 x 2,17	24,4	1,59	1.289
3 x 35 RM/ 16	○	1.240	7 x 2,53	26,7	1,91	1.625



Number of cores and nominal cross section mm ²	from stock	Copper figure kg/km	Cond. construction (appr. value) mm	Overall diameter appr. mm	Calorific potential kwh / m	Weight appr. kg / km
3 x 50 SM/ 25	○	1.795	19 x 1,83	29,5	2,27	1.946
3 x 70 SM/ 35	○	2.510	14 x 2,58	34,7	2,78	2.742
3 x 95 SM/ 50	○	3.433	19 x 2,58	38,1	3,35	3.636
3 x 120 SM/ 70	○	4.413	24 x 2,58	42,5	3,86	4.606
3 x 150 SM/ 70	○	5.313	30 x 2,58	44,0	4,80	5.450
3 x 185 SM/ 95	○	6.649	37 x 2,58	47,0	5,99	6.930
3 x 240 SM/120	○	8.585	37 x 2,90	52,0	7,25	8.900
4 x 1,5RE/ 1,5	●	88	1 x 1,38	12,6	0,54	221
4 x 2,5RE/ 2,5	●	138	1 x 1,78	14,0	0,62	291
4 x 4 RE/ 4	●	208	1 x 2,25	15,2	0,72	393
4 x 6 RE/ 6	●	309	1 x 2,76	17,4	0,82	527
4 x 10 RE/ 10	●	525	1 x 3,56	19,9	1,00	783
4 x 16 RE/ 16	●	829	1 x 4,51	23,4	1,37	1.188
4 x 16 RM/ 16	●	829	7 x 1,70	23,4	1,37	1.188
4 x 25 RM/ 16	●	1.190	7 x 2,13	28,1	1,94	1.716
4 x 35 RM/ 16	●	1.590	7 x 2,52	31,1	2,27	2.193
4 x 50 SM/ 25	●	2.295	19 x 1,89	33,7	2,77	2.784
4 x 70 SM/ 35	●	3.210	19 x 2,17	37,2	5,46	3.675
4 x 95 SM/ 50	●	4.383	19 x 2,52	43,0	6,97	5.063
4 x 120 SM/ 70	●	5.613	37 x 2,03	47,2	7,84	6.307
4 x 150 SM/ 70	●	6.813	37 x 2,27	52,0	9,66	7.617
4 x 185 SM/ 95	●	8.499	37 x 2,52	57,3	11,60	9.462
4 x 240 SM/120	○	10.985	61 x 2,24	64,3	14,06	12.264
5 x 1,5RE/ 1,5	○	103	1 x 1,38	12,5	0,52	220
5 x 2,5RE/ 2,5	○	163	1 x 1,75	13,3	0,61	248
5 x 4 RE/ 4	○	248	1 x 2,22	14,4	0,69	343
5 x 6 RE/ 6	○	370	1 x 2,72	16,7	0,83	478
7 x 1,5RE/ 2,5	○	139	1 x 1,38	14,4	0,50	314
12 x 1,5RE/ 2,5	○	214	1 x 1,38	19,0	0,74	503
19 x 1,5RE/ 4	○	333	1 x 1,38	19,2	1,02	513
24 x 1,5RE/ 6	○	430	1 x 1,38	25,0	1,25	950
30 x 1,5RE/ 6	○	519	1 x 1,38	27,5	1,47	1.061
7 x 2,5RE/ 2,5	○	208	1 x 1,78	16,0	0,57	413
12 x 2,5RE/ 4	○	348	1 x 1,78	20,9	0,86	667
30 x 2,5RE/ 10	○	875	1 x 1,78	30,1	1,77	1.431