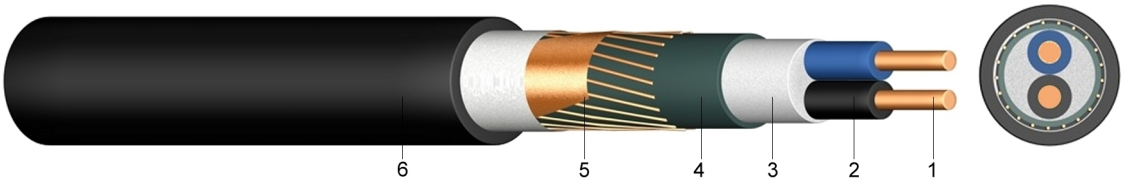
TESLA CABLES

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 Uo/U		[V]	600 / 1000 Volt
Test voltage		$[V]_{AC}$	4000
Temperature range	in motion		-5°C till +90°C
Operating temperature	short circuit	°C	250
Short circuit time	max.	[sec]	5
Bending radius	min.	x diameter	15
Flammability	standard		EN 50266-2-4 EN 60332-1 IEC 60332-3 Kat.C

Number of cores and nominal cross section mm²	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	51,8	1 x 1,38	11,5	0,44	177
2 x 2,5 RE/ 2,5	79,7	1 x 1,78	12,7	0,55	226
2 x 4 RE/ 4	122,9	1 x 2,25	13,5	0,60	280
2 x 6 RE/ 6	182,4	1 x 2,72	13,6	0,66	286
2 x 10 RE/ 10	312,0	1 x 3,56	16,5	0,72	500
3 x 1,5 RE/ 1,5	70,1	1 x 1,38	11,3	0,48	196
3 x 2,5 RE/ 2,5	108,5	1 x 1,78	13,2	0,55	253
3 x 4 RE/ 4	161,3	1 x 2,25	16,0	0,64	336
3 x 6 RE/ 6	240,0	1 x 2,76	16,0	0,72	441
3 x 10 RE/ 10	408,0	1 x 3,56	18,5	0,85	659
3 x 16 RE/ 16	643,2	1 x 4,51	21,3	1,18	979
3 x 25 RM/ 16	902,4	7 x 2,17	24,4	1,59	1.289
3 x 35 RM/ 16	1.190,4	7 x 2,53	26,7	1,91	1.625

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Number of cores and nominal cross section mm²	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	1.723,2	19 x 1,83	29,5	2,27	1.946
3 x 70 SM/ 35	2.409,6	14 x 2,58	34,7	2,78	2.742
3 x 95 SM/ 50	3.295,7	19 x 2,58	38,1	3,35	3.636
3 x 120 SM/ 70	4.236,5	24 x 2,58	42,5	3,86	4.606
3 x 150 SM/ 70	5.100,5	30 x 2,58	44,0	4,80	5.450
3 x 185 SM/ 95	6.383,0	37 x 2,58	47,0	5,99	6.930
3 x 240 SM/120	8.241,6	37 x 2,90	52,0	7,25	8.900
4 x 1,5RE/ 1,5	84,5	1 x 1,38	12,6	0,54	221
4 x 2,5RE/ 2,5	132,5	1 x 1,78	14,0	0,62	291
4 x 4 RE/ 4	199,7	1 x 2,25	15,2	0,72	393
4 x 6 RE/ 6	296,6	1 x 2,76	17,4	0,82	527
4 x 10 RE/ 10	504,0	1 x 3,56	19,9	1,00	783
4 x 16 RE/ 16	795,8	1 x 4,51	23,4	1,37	1.188
4 x 16 RM/ 16	795,8	7 x 1,70	23,4	1,37	1.188
4 x 25 RM/ 16	1.142,4	7 x 2,13	28,1	1,94	1.716
4 x 35 RM/ 16	1.526,4	7 x 2,52	31,1	2,27	2.193
4 x 50 SM/ 25	2.203,2	19 x 1,89	33,7	2,77	2.784
4 x 70 SM/ 35	3.081,6	19 x 2,17	37,2	5,46	3.675
4 x 95 SM/ 50	4.207,7	19 x 2,52	43,0	6,97	5.063
4 x 120 SM/ 70	5.388,5	37 x 2,03	47,2	7,84	6.307
4 x 150 SM/ 70	6.540,5	37 x 2,27	52,0	9,66	7.617
4 x 185 SM/ 95	8.159,0	37 x 2,52	57,3	11,60	9.462
4 x 240 SM/120	10.545,6	61 x 2,24	64,3	14,06	12.264
5 x 1,5RE/ 1,5	98,9	1 x 1,38	12,5	0,52	220
5 x 2,5RE/ 2,5	156,5	1 x 1,75	13,3	0,61	248
5 x 4 RE/ 4	238,1	1 x 2,22	14,4	0,69	343
5 x 6 RE/ 6	355,2	1 x 2,72	16,7	0,83	478
7 x 1,5RE/ 2,5	133,4	1 x 1,38	14,4	0,50	314
12 x 1,5RE/ 2,5	205,4	1 x 1,38	19,0	0,74	503
19 x 1,5RE/ 4	319,7	1 x 1,38	19,2	1,02	513
24 x 1,5RE/ 6	412,8	1 x 1,38	25,0	1,25	950
30 x 1,5RE/ 6	498,2	1 x 1,38	27,5	1,47	1.061
7 x 2,5RE/ 2,5	199,7	1 x 1,78	16,0	0,57	413
12 x 2,5RE/ 4	334,1	1 x 1,78	20,9	0,86	667
30 x 2,5RE/ 10	840,0	1 x 1,78	30,1	1,77	1.431

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