

N2XH

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

Conductor material	Solid or stranded copper conductor
Insulation	Core insulation of halogen-free, cross-linked polyethylene
Filling	Core covering of a halogen-free compound
Outer sheath	Outer sheath of halogen-free

Standards and Certifications

DIN VDE 0276-604
 HD 604 S1 part 5 G
 DIN EN 60228 class 1 and 2 (construction)
 This cable is OICPE certified



Core Identification

HD 308 S2

Technical Data

Nominal voltage U_0/U	[V]	600 / 1000V
Test voltage	[V]AC	4000
Temperature range	in motion°C	-5°C till +90°C
Operating temperature	short circuit°C	250°C
Short circuit time	max. [sec]	5
Bending radius	single core x diameter	15
	multi core x diameter	12

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Fire classification CPR class

Reaction to fire EN 60332-1-2

Tests-Flame-test acc. to VDE 0276-604

Corrosiveness of combustion gases according to DIN VDE 0482-754-2

Haolgen-free according to DIN VDE 0482-754-1

Smoke density according to DIN VDE 0482 part 1034-1+2, DIN EN 61034-1+2

Number of cores x Cross- section	Overall diameter (approx.) [mm]	Weight (approx.) [kg/km]	Maximum electrical resistance at 20° C [Ω/km]
1 x 4 RE	7.3	89	4.61
1 x 6 RE	7.8	113	3.08
1 x 10 RE	8.5	150	1.83
1 x 16 RE	9	200	1.15
1 x 16 RM	9.9	230	1.15
1 x 25 RM	11.2	320	0.727
1 x 35 RM	12.5	430	0.524
1 x 50 RM	13.8	550	0.387
1 x 70 RM	15.7	770	0.268
1 x 95 RM	17.4	1030	0.193
1 x 120 RM	19	1263	0.153
1 x 150 RM	21	1550	0.124
1 x 185 RM	23.2	1921	0.101
1 x 240 RM	25.7	2469	0.0775
1 x 300 RM	28.2	3095	0.062
1 x 400 RM	30	3950	0.047
1 x 500 RM	32	5124	0.0366
2 x 1.5 RE	9.2	125	12.1
2 x 2.5 RE	10.3	160	7.41
2 x 4 RE	11	243	4.61
2 x 6 RE	12	296	3.08
2 x 10 RE	14	360	1.83
2 x 16 RE	16	528	1.15
2 x 16 RM	17	550	1.15
2 x 25 RM	20	844	0.727
2 x 35 RM	22	1000	0.524
3 x 1.5 RE	9.7	143	12.1
3 x 2.5 RE	10.7	189	7.41
3 x 4 RE	11.7	250	4.61
3 x 6 RE	12.5	325	3.08
3 x 10 RE	14.7	482	1.83
3 x 16 RE	16	700	1.15
3 x 16 RM	17.5	733	1.15
3 x 25 RM	22	1200	0.727
3 x 35 RM	24	1600	0.524

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Number of cores x Cross- section	Overall diameter (approx.) [mm]	Weight (approx.) [kg/km]	Maximum electrical resistance at 20° C [Ω/km]
3 x 50 SM	25	1800	0.387
3 x 70 SM	28	2267	0.268
3 x 95 SM	32	2982	0.193
3 x 120 SM	35	3708	0.153
3 x 150 SM	39	4552	0.124
3 x 185 SM	44	5669	0.101
3 x 240 SM	49	7370	0.0775
4 x 1.5 RE	10.6	169	12.1
4 x 2.5 RE	11.6	225	7.41
4 x 4 RE	12.4	300	4.61
4 x 6 RE	13.7	390	3.08
4 x 10 RE	14	600	1.83
4 x 10 RM	16	650	1.83
4 x 16 RE	18	850	1.15
4 x 16 RM	19.3	920	1.15
4 x 25 RM	24	1413	0.727
4 x 35 SM	26	1863	0.524
4 x 50 SM	28	2362	0.387
4 x 70 SM	32	3151	0.268
4 x 95 SM	36	4339	0.193
4 x 120 SM	39	5332	0.153
4 x 150 SM	44	6350	0.124
4 x 185 SM	49	7300	0.101
4 x 240 SM	55	8000	0.0775
5 x 1.5 RE	12	195	12.1
5 x 2.5 RE	13	260	7.41
5 x 4 RE	14	357	4.61
5 x 6 RE	15	486	3.08
5 x 10 RE	18	723	1.83
5 x 16 RE	20	1138	1.15
5 x 16 RM	24	1150	1.15
5 x 25 RM	27	1420	0.727
5 x 35 RM	30	2400	0.524
5 x 50 RM	31	3030	0.387
5 x 70 RM	36	4217	0.268
5 x 95 RM	42	5697	0.193
5 x 120 RM	46	6511	0.153
5 x 150 RM	53	8170	0.124
5 x 185 RM	59	10125	0.101
5 x 240 RM	64	12697	0.0775
7 x 1.5 RE	14	239	12.1
7 x 2.5 RE	15	400	7.41
7 x 4 RE	17	457	4.61
7 x 6 RE	19	616	3.08
7 x 10 RE	20	911	1.83

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Number of cores x Cross- section	Overall diameter (approx.) [mm]	Weight (approx.) [kg/km]	Maximum electrical resistance at 20° C [Ω/km]
12 x 1.5 RE	16	395	12.1
12 x 2.5 RE	18	600	7.41
19 x 1.5 RE	21	557	12.1
19 x 2.5 RE	22	840	7.41
24 x 1.5 RE	25	736	12.1
24 x 2.5 RE	27	1050	7.41
30 x 1.5 RE	31	900	12.1

Designation

- RE Solid round conductors
- RM Stranded round conductors
- SM Sector stranded conductors

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