

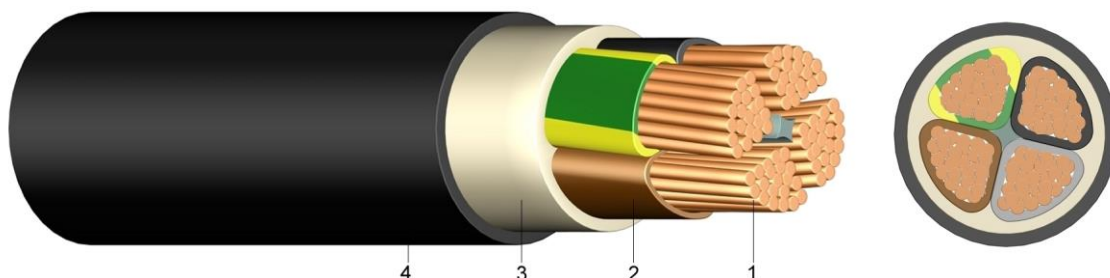


NY Y

PVC Insulated Heavy Current Cable 0,6/1kV Single and Multicore

Application:

This power cable is suitable for fixed installations, preferably in cable ducts, indoors, outdoors, in water or underground if no mechanical damage is to be expected.



Construction:

- 1 solid (RE) or stranded (RM/SM) bare copper
- 2 core insulation of polyvinylchloride (PVC)
- 3 PVC core covering or taping
- 4 outer sheath of polyvinylchloride (PVC), black, UV-resistant

Information:

short circuit temperature on core (max. 5 sec.)
 $\leq 300\text{mm}^2 \rightarrow 160^\circ\text{C}$
 $> 300\text{mm}^2 \rightarrow 140^\circ\text{C}$

Standards:

DIN VDE 0276-603
 HD 603 S1:1994 + A2:2003
 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 +70°C
	fixed	-20°C till +70°C
Bending radius	single-core style	x diameter
	multi-core style	x diameter
Flammability	standard	EN 60332-1-2

Number of cores and nominal cross section	from stock	from stock	Copper figure	Overall diameter	Weight	Current carrying capacity ground	Current carrying capacity air
1 x 4 RE	○	○	40	8	120	50	37
1 x 6 RE	○	○	60	9	131	62	47
1 x 10 RE	●	○	100	10	171	83	64
1 x 16 RE	●	●	160	11	233	107	84
1 x 25 RM	●	●	250	12	370	138	114
1 x 35 RM	●	●	350	14	480	164	139
1 x 50 RM	●	●	500	16	640	195	169
1 x 70 RM	●	●	700	17	850	238	213
1 x 95 RM	●	●	950	19	1.120	286	264
1 x 120 RM	●	●	1.200	21	1.375	325	307
1 x 150 RM	●	●	1.500	23	1.660	365	352
1 x 185 RM	●	●	1.850	25	2.050	413	406
1 x 240 RM	●	●	2.400	28	2.634	479	483
1 x 300 RM	●	●	3.000	30	3.295	541	557



Number of cores and nominal cross section		from stock	from stock	Copper figure	Overall diameter	Weight	Current carrying capacity ground	Current carrying capacity air
mm ²		J	O	kg/km	appr. mm	appr. kg / km	A	A
1 x 400	RM		●	4.000	32	4.231	614	646
1 x 500	RM		●	5.000	34	5.284	693	747
1 x 630	RM		○	6.300	42	6.850	777	858
2 x 1,5	RE		●	30	11	220	27	20
2 x 2,5	RE		○	50	12	267	36	25
2 x 4	RE		○	80	14	342	47	34
2 x 6	RE		●	120	15	412	59	43
2 x 10	RE		●	200	16	510	79	59
2 x 16	RM		●	320	18	670	102	79
3 x 1,5	RE	●	○	45	13	244	27	20
3 x 2,5	RE	●	○	75	14	294	36	25
3 x 4	RE	●	○	120	16	393	47	34
3 x 6	RE	●	○	180	17	481	59	43
3 x 10	RE	●	○	300	18	645	79	59
3 x 16	RE	●	○	480	20	872	102	79
3 x 16	RM	●	●	480	20	872	102	79
3 x 25	RM	●	●	750	25	1.350	133	106
3 x 35	SM	●	●	1.050	25	1.460	159	129
3 x 50	SM	●	●	1.500	29	1.750	188	157
3 x 70	SM	○	○	2.100	32	2.400	232	199
3 x 95	SM	○	○	2.850	35	3.560	280	246
3 x 120	SM	○	○	3.600	38	4.310	318	285
3 x 150	SM	○	○	4.500	42	5.310	359	326
3 x 185	SM	○	○	5.550	47	6.630	406	374
3 x 240	SM		○	7.200	53	8.480	473	445
3 x 25/16	RM/RE	●	○	910	25	1.513	133	106
3 x 35/16	SM/RE	●	○	1.210	27	1.804	159	129
3 x 50/25	SM/RM	●	○	1.750	31	2.349	188	157
3 x 70/ 35	SM	●	●	2.450	35	3.117	232	199
3 x 95/ 50	SM	●	●	3.350	39	4.167	280	246
3 x 120/ 70	SM	●	●	4.300	44	5.190	318	285
3 x 150/ 70	SM	●	●	5.200	47	6.161	359	326
3 x 185/ 95	SM	●	○	6.500	53	7.673	406	374
3 x 240/120	SM	●	○	8.400	59	9.850	473	445
3 x 300/150	SM	○		10.500	65	11.900	535	511
4 x 1,5	RE	●	○	60	14	278	27	20
4 x 2,5	RE	●	○	100	15	340	36	25
4 x 4	RE	●	○	160	17	460	47	34
4 x 6	RE	●	○	240	18	570	59	43
4 x 10	RE	●	○	400	20	775	79	59
4 x 10	RM	●	○	400	20	775	79	59
4 x 16	RE	●	○	640	22	1.072	102	79
4 x 16	RM	●	○	640	22	1.072	102	79
4 x 25	RM	●	●	1.000	27	1.632	133	106
4 x 35	SM	●	●	1.400	27	1.959	159	129
4 x 50	SM	●	●	2.000	32	2.595	188	157
4 x 70	SM	●	●	2.800	36	3.488	232	199
4 x 95	SM	●	●	3.800	41	4.637	280	246
4 x 120	SM	●	●	4.800	43	5.689	318	285
4 x 150	SM	●	●	6.000	49	6.973	359	326
4 x 185	SM	●	●	7.400	54	8.663	406	374
4 x 240	SM	●	●	9.600	60	11.140	473	445



Number of cores and nominal cross section	from stock	from stock	Copper figure	Overall diameter	Weight	Current carrying capacity ground	Current carrying capacity air
5 x 1,5 RE	●	○	75	15	317	*	*
5 x 2,5 RE	●		125	16	391	*	*
5 x 4 RE	●		200	18	537	*	*
5 x 6 RE	●		300	19	672	*	*
5 x 10 RE	●		500	21	921	*	*
5 x 10 RM	●		500	21	921	*	*
5 x 16 RE	●		800	24	1.294	*	*
5 x 16 RM	●		800	24	1.294	*	*
5 x 25 RM	●		1.250	29	2.004	*	*
5 x 35 RM	●		1.750	30	2.575	*	*
5 x 50 RM	●		2.500	36	3.193	*	*
5 x 70 RM	●		3.500	40	4.722	*	*
5 x 95 RM	●		4.750	46	6.393	*	*
5 x 120 RM	●		6.000	50	7.095	*	*
5 x 150 RM	●		7.500	59	8.240	*	*
5 x 185 RM	○		9.250	63	11.694	*	*
5 x 240 RM	○		12.000	74	15.730	*	*
7 x 1,5 RE	●	●	105	16	376	*	*
10 x 1,5 RE	●	●	150	19	495	*	*
12 x 1,5 RE	●	●	180	18	440	*	*
14 x 1,5 RE	●	●	210	20	494	*	*
16 x 1,5 RE	●	●	240	21	600	*	*
19 x 1,5 RE	●	●	285	22	614	*	*
21 x 1,5 RE	●	○	315	23	700	*	*
24 x 1,5 RE	●	●	360	24	769	*	*
30 x 1,5 RE	●	●	450	26	918	*	*
40 x 1,5 RE	●		600	29	1.250	*	*
7 x 2,5 RE	●	●	175	17	472	*	*
10 x 2,5 RE	●	○	250	20	530	*	*
12 x 2,5 RE	●	●	300	21	578	*	*
14 x 2,5 RE	●	○	350	22	680	*	*
16 x 2,5 RE	○		400	23	750	*	*
19 x 2,5 RE	●	○	475	24	870	*	*
21 x 2,5 RE	○		525	25	900	*	*
24 x 2,5 RE	●	●	600	26	1.035	*	*
30 x 2,5 RE	●	○	750	28	1.300	*	*
40 x 2,5 RE	○		1.000	31	1.700	*	*
7 x 4 RE	●		280	18	600	*	*
7 x 6 RE	●		420	20	760	*	*
7 x 10 RE	●		700	22	1.080	*	*

* The current carrying capacity of the cables depends on the number of cores loaded (see DIN VDE 0276-627)