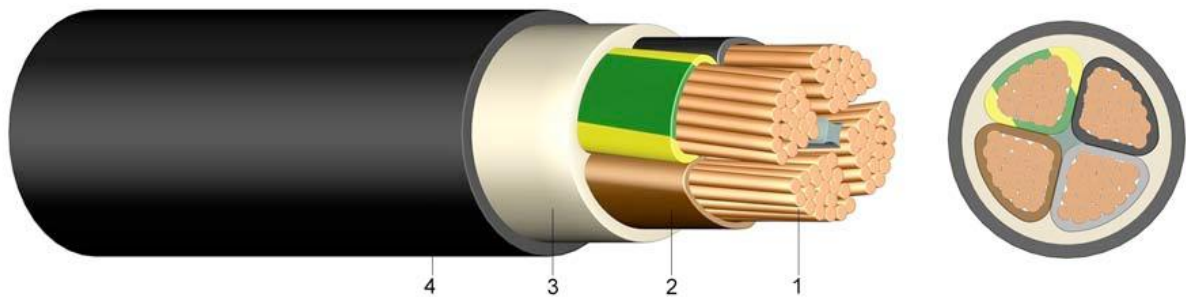


Power cables Енергетски кабли

NYY (PPOO)

Distribution cables of rated voltage U_0/U 0.6/1 k V



Designation

NYY
PP00-Y
PVC/PVC

Standard

HD 603 S1 3G-2, DIN VDE 0276-603
MKS N.C5.220
IEC 60502

Application

Have been built for use in underground, in water, indoors, in cable ducts, power stations. For fixed installation in concrete.

Construction

- 1 Conductor : solid plain copper class 1, stranded copper wires (round and sector shaped) class 2
- 2 Insulation : PVC compound DIV 4 correspond to HD 603-1.
- 3 Filler : Epdm rubber or polyester tape
- 4 Sheathing material: PVC compound DMV 5 to HD 603-1.

Technical data

Number of cores, nominal cross sectional area mm ²	Conductor shape	Maximum resistance of conductor at 20°C	Overall diameter (approx.)	Rated current-carrying capacity in earth	Rated current-carrying capacity in air	Total net weight (approx.)	Packing – drum
Number x mm ²		Ω/km	mm	A	A	kg/km	m/drum number
1x1.5	RE	12.1	6.7	41	27	62	1000/ N°6
1x2.5	RE	7.41	7.2	55	35	73	1000/ N°6
1x4.0	RE	4.61	7.8	71	47	99	1000/ N°7
1x6.0	RE	3.08	8.5	90	59	124	1000/ N°7
1x10	RE	1.83	10.2	124	81	178	1000/ N°7
1x16	RM	1.15	11.9	160	107	250	1000/ N°8
1x25	RM	0.727	12.8	208	144	348	1000/ N°9
1x35	RM	0.524	13.5	250	176	454	1000/ N°10
1x50	RM	0.387	15	296	214	594	1000/ N°10
1x70	RM	0.268	17.2	365	270	822	1000/ N°12
1x95	RM	0.193	19.4	438	334	1049	1000/ N°12
1x120	RM	0.153	21	501	389	1326	1000/ N°14
1x150	RM	0.124	23.7	563	446	1600	1000/ N°14
1x185	RM	0.0991	25	639	516	2001	1000/ N°14
1x240	RM	0.0754	28	746	618	2500	1000/ N°16
1x300	RM	0.0601	30.4	848	717	3180	500/ N°14
1x400	RM	0.0470	33.7	975	843	4240	500/ N°18
1x500	RM	0.0366	37.8	1125	994	5200	500/ N°20
Cable design NYY-0 (PPOO-O) and NYY-J(PPOO-Y) : Three-core cables							
2x1.5	RE	12.1	12.2	30	21	29	1000/ N°8
2x2.5	RE	7.41	13	39	28	44	1000/ N°9
2x4.0	RE	4.61	15	50	37	77	1000/ N°9
2x6.0	RE	3.08	15.8	62	47	108	1000/ N°10
2x10	RE	1.83	17.4	83	64	187	1000/ N°10
2x16	RM	1.15	19.8	107	84	289	1000/ N°12
2x25	RM	0.727	24	138	114	482	1000/ N°14
Cable design NYY-0 (PPOO-O) and NYY-J(PPOO-Y) : Four-core cables							
3x1.5	RE	12.1	12.4	27	19.5	200	1000/ N°9
3x2.5	RE	7.41	13	36	25	244	1000/ N°9
3x4.0	RE	4.61	14.8	47	34	350	1000/ N°10
3x6.0	RE	3.08	16.1	59	43	432	1000/ N°10
3x10	RE	1.83	18	79	59	601	1000/ N°12
3x16	RM	1.15	20.2	102	79	820	1000/ N°12
4x1.5	RE	12.1	13	27	19.5	232	1000/ N°10
4x2.5	RE	7.41	13.9	36	25	277	1000/ N°10
4x4	RE	4.61	16	47	34	401	1000/ N°12
4x6	RE	3.08	17.5	59	43	522	1000/ N°12
4x10	RE	1.83	18.8	79	59	742	1000/ N°12
4x16	RM	1.15	22	102	79	1021	1000/ N°14
4x25	RM	0.727	27.2	133	106	1614	500/ N°12

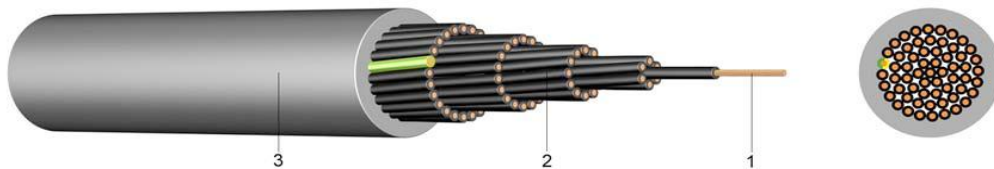
4x35	SM	0.524	28.9	159	129	2068	500 /N°12
4x50	SM	0.387	31	188	157	2911	500 /N°12
4x70	SM	0.268	33	232	199	3115	500 /N°14
4x95	SM	0.193	39	280	246	4281	500 /N°16
4x120	SM	0.153	41	318	285	5261	500 /N°16
4x150	SM	0.124	45.2	359	326	6480	500 /N°16
4x185	SM	0.0991	50.1	406	374	8039	500 /N°20
3x25/16	RM/RM	0.727/1.15	26	133	106	1389	500 /N°12
3x35/16	SM/RM	0.524/1.15	29	159	129	1748	500 /N°12
3x50/25	SM/RM	0.387/0.727	32	188	157	2008	500 /N°12
3x70/35	SM/SM	0.268/0.524	36	232	199	2841	500 /N°14
3x95/50	SM/SM	0.193/0.387	42	280	246	3819	500 /N°16
3x120/70	SM/SM	0.153/0.268	45	318	285	4687	500 /N°16
3x150/70	SM/SM	0.124/0.268	49	359	326	5701	500 /N°16
3x185/95	SM/SM	0.099/0.193	53	406	374	7200	500 /N°18
3x240/120	SM/SM	0.075/0.153	62	473	445	9105	500 /N°20
Cable design NYY-0(PPOO-O) and NYY-J(PPOO-Y) : Five-core cables							
5x1.5	RE	12.1	13.5	27	19.5	228	1000/ N°10
5x2.5	RE	7.41	14.8	36	25	330	1000/ N°10
5x4	RE	4.61	16	47	34	460	500 /N°9
5x6	RE	3.08	18	59	43	596	500 /N°9
5x10	RE	1.83	20	79	59	863	500 /N°10
5x16	RM	1.15	26	102	79	1190	500 /N°12

- Nominal voltage **0.6/1 kV**
- Test voltage **4 kV**
- Highest operation temperature **+70°C**
- Short circuit temperature (5s) **160°C for cross sections area $\leq 300\text{mm}^2$**
- Short circuit temperature (5s) **140°C for cross sections area $\geq 300\text{mm}^2$**
- Minimum banding radius **12x cable diameter for multi-core cable**
- Minimum banding radius **15x cable diameter for single-core cable**
- Insulation resistance (volume) $\Omega \cdot \text{sm}$ **10^{10}**
- Colour of jacket **Black**

- RM – multiwire round stranded conductor
- SM - multiwire sector stranded conductor
- RE – solid round conductor

Power cables –
Multicore cables for installation
above and below ground

NYY-0 (PPOO-O), NYY-J (PPOO-Y)
Signal power cables of rated voltage U_0/U 0.6/1 k V



Designation

NY
PP00-Y
PVC/PVC

Standard

HD 627 S1, DIN VDE 0276-627
MKS N.C5.220
IEC 60502

Application

HD 627 applies to multicore and multipair rigid and flexible conductor cables for fixed installations having a rated voltage up to 1 kV and operating at a voltage above 80 V rms.

Construction

- 1 Conductor : solid plain copper class 1
- 2 Insulation : PVC compound DIV 4 correspond to HD 603-1.
- Filler : Epdm rubber or polyester tape
- 3 Sheathing material: PVC compound DMV 5 to HD 603-1.

Technical data

Number of cores , nominal cross sectional area mm ²	Conductor shape	Maximum resistance of conductor at 20°C	Overall diameter (approx.)	Rated current- carrying capacity in earth	Rated current- carrying capacity in air	Total net weight (approx.)	Packing – drum
Number x mm ²		Ω/km	mm	A	A	kg/km	m/drum number
7x1.5	RE	12.1	17	16	12	284	1000/ N°10
10x1.5	RE	12.1	19	13	10	389	1000/ N°12
12x1.5	RE	12.1	20	12	10	430	1000/ N°12
14x1.5	RE	12.1	21	12	9	475	1000/ N°12
19x1.5	RE	12.1	22	10	8	638	1000/ N°12
24x1.5	RE	12.1	26	9	7	817	1000 /N°14
30x1.5	RE	12.1	27	9	7	908	1000 /N°16
40x1.5	RE	12.1	30	8	6	1193	1000 /N°16
7x2.5	RE	7.41	18	20	16	370	1000 /N°10
10x2.5	RE	7.41	21	17	14	524	1000 /N°12
12x2.5	RE	7.41	23	16	13	591	1000 /N°12
14x2.5	RE	7.41	24	15	13	642	1000 /N°12
19x2.5	RE	7.41	27	14	11	826	1000 /N°14
24x2.5	RE	7.41	30	12	10	1102	1000 /N°16
30x2.5	RE	7.41	32	11	9	1311	500 /N°16
40x2.5	RE	7.41	35	10	9	1699	500 /N°18

- Nominal voltage **0.6/1 kV**
- Test voltage **4 kV**
- Highest operation temperature **+70°C**
- Short circuit temperature (5s) **160°C**
- Minimum banding radius **12x cable diameter for multi-core cable**
- Colour of jacket **Black**

- RE – solid round conductor