



# HALLEY CABLES

# NYY-Flex

## Low Voltage Power Cable (0.6/1 kV)

PVC insulated, PVC sheathed, flexible copper conductor energy cable



### Construction:

Conductor	: plain flexible copper wires, class 5.
Insulation	: PVC compound, DIV4.
Core identification	: black cores with white numerals; green/yellow from 3 cores.
Lay-up	: cores laid up in layers of optimum pitch.
Filler	: PVC filler compound.
Outer sheath	: PVC compound, DMV5.
Sheath colour	: RAL 9005, Black.

Note: Other core configurations can be produced upon request.

### Technical data and tests:

Rated voltage $U_0/U$	: 0,6 / 1 kV.
Test voltage (AC 50 Hz)	: 4 kV.
Temperature at conductor	: 90° C.
Temperature range	: fixed : - 30° C ~ + 90° C. mobile : - 5° C ~ + 50° C.
Minimum bending radius	: single-core: 15 x D; multi-core : 12 x D.

### Standards:

Standard	: DIN VDE 0276-627, HD 627 S1 & IEC 60502-1.
Conductor	: IEC 60228 Class 5, DIN EN 60228 Class 5.
Insulation	: HD 603 S1.
Core identification	: DIN EN 50334.
Outer sheath	: HD 603 S1.
Flame retardance	: IEC 60332-1 & EN 50265-2-1.

### Applications:

This power cable is used for distribution and signal and can be installed in static applications outdoor (with protection against direct UV-irradiation), in ground, in water, in cable canals, within buildings, in concrete and in conditions where heavy mechanical loads and especially tensile strains, are not expected. NYY-Flex should be used in electric power plants, industrial plants, transformer stations, metropolitan networks and in other electric plants, same as for connection of signalling devices in industry, traffic and similar.



**HALLEY CABLES****NYY-Flex****Low Voltage Power Cable (0.6/1 kV)**

PVC insulated, PVC sheathed, flexible copper conductor energy cable

www.halleycables.com

**DIMENSIONS**

Nominal Cross Section mm <sup>2</sup>	Overall Diameter (approx.) mm	Net Weight (approx.) kg/km	Conductor DC Resistance 20° C ohm/km	Current Carrying Capacity in	
				Ground (A)	Air (A)
2x6	13,7	307	3,30	34	43
2x10	16,4	468	1,91	46	60
2x16	19,4	680	1,21	62	80
2x25	23,7	1019	0,780	80	101
2x35	25,7	1269	0,554	99	126
2x50	30,1	1777	0,386	118	153
2x70	33,7	2302	0,272	149	196
3x6	14,4	368	3,30	34	43
3x10	17,4	569	1,91	46	60
3x16	20,5	835	1,21	62	80
3x25	25,1	1254	0,780	80	101
3x35	27,3	1581	0,554	99	126
3x50	32	2225	0,386	118	153
3x70	36,1	2919	0,272	149	196
3x95	41,9	3918	0,206	179	238
3x120	43,3	4651	0,161	206	276
3x150	48,3	5841	0,129	225	318
3x185	55,4	7317	0,106	255	434
3x240	61,7	9340	0,0801	297	514
3x16+10	21,6	957	1,21/1,91	62	80
3x25+16	26,1	1424	0,780/1,21	80	101
3x35+16	28,0	1732	0,554/1,21	99	126
3x50+25	34,5	2584	0,386/0,780	118	153
3x70+35	38,3	3346	0,272/0,554	149	196
3x95+50	45,5	4634	0,206/0,386	179	238
3x120+70	50,3	5926	0,161/0,272	206	276
3x150+70	50,4	6583	0,129/0,272	225	318
3x185+95	58,1	8336	0,106/0,206	255	434
3x240+120	64,5	10625	0,0801/0,161	297	514

**NYY-Flex**