

for use in water
direct burial

The robust 0,6/1 kV cable



Application

NYJ is used as a power and control cable in static installations, indoors, outdoors, underground, in concrete and in water.

Conductor configurations:

according to VDE 0295/
IEC 60228



re =
round conductor,
single wire



rm =
round conductor,
multi wire



sm =
sectorial conductor

Note

The use of NYJ cables is in accordance to VDE 0298 part 1, the current capacity is according to HD 603 S.1 and VDE 0276 part 1000. Applicable is the chart T12 for installation in buildings. The product is conform to EEC directive 73/23 (Low Voltage Directive) CE.

Cable Make-up

Single or multi-wire conductors of plain copper wires, PVC core insulation, cores twisted concentrically, various core colours according to VDE 0293, common core sheathing, outer sheath of PVC, standard colour black, flame-retardant.

New colour code VDE 0293-308

The new VDE 0293-308 was published in January 2003. New coded versions will substitute the old ones from July 2004.

Technical Data

Minimum bending radius for
single core:
15 x cable diameter
multi core:
12 x cable diameter

Temperature range:
at installation:
-5°C up to +50°C
after installation:
-40°C up to +70°C

Core ident code:
VDE 0293 or VDE 0293-308,
see table T9

Test voltage:
4 kV

Nominal voltage U0/U:
0,6/1,0 kV

Approval:
VDE 0276, part 603 (for 1-5 cores)
part 627, HD 627 (up to 7 cores)

Part number	Old colour code	New Part.No.	New colour code	No. of cores and mm ² per cond.	Approx. outside in mm ca.	Copper weight kg/km	Approx. weight kg/km ca.
NYJ							
1550 030	GN-YE	—	identical	1 x 25 re	13	240,0	360
1550 038	GN-YE	—	identical	1 x 35 re	14	336,0	470
1550 032	GN-YE	—	identical	1 x 50 re	15	480,0	640
1550 033	GN-YE	—	identical	1 x 70 re	17	672,0	850
1550 001	GN-YE,BK,BU	1550 0013	GN-YE,BU,BN	3 x 1,5 re	12	43,0	200
1550 010	GN-YE,BK,BU	1550 0103	GN-YE,BU,BN	3 x 2,5 re	13	72,0	260
1550 058	GN-YE,BK,BU	1550 0583	GN-YE,BU,BN	3 x 4 re	15	115,0	330
1550 059	GN-YE,BK,BU	1550 0593	GN-YE,BU,BN	3 x 6 re	16	173,0	430
1550 060	GN-YE,BK,BU	1550 0603	GN-YE,BU,BN	3 x 10 re	18	288,0	590
1550 061	GN-YE,BK,BU	1550 0613	GN-YE,BU,BN	3 x 16 re	20	461,0	810
1550 071	GN-YE,BK,BU,BN	1550 0713	GN-YE,BN,BK,GY	3 x 25 sm/16 re	26	874,0	1520
1550 015	GN-YE,BK,BU,BN	1550 0153	GN-YE,BN,BK,GY	3 x 35 sm/16 re	28	1162,0	1800
1550 016	GN-YE,BK,BU,BN	1550 0163	GN-YE,BN,BK,GY	3 x 50 sm/25 re	31	1680,0	2500
1550 017	GN-YE,BK,BU,BN	1550 0173	GN-YE,BN,BK,GY	3 x 70 sm/35 re	35	2352,0	3300
1550 018	GN-YE,BK,BU,BN	1550 0183	GN-YE,BN,BK,GY	3 x 95 sm/50 re	40	3216,0	4400
1550 072	GN-YE,BK,BU,BN	1550 0723	GN-YE,BN,BK,GY	3 x 120 sm/70 re	43	4128,0	5400
1550 073	GN-YE,BK,BU,BN	1550 0733	GN-YE,BN,BK,GY	3 x 150 sm/70 re	48	4992,0	6700
1550 074	GN-YE,BK,BU,BN	1550 0743	GN-YE,BN,BK,GY	3 x 185 sm/95 re	52	6240,0	8000
1550 019	GN-YE,BK,BU,BN	1550 0193	GN-YE,BN,BK,GY	3 x 240 sm/120 re	59	8064,0	10400
1550 050	GN-YE,BK,BU,BN	1550 0503	GN-YE,BN,BK,GY	3 x 300/150 sm	65	10080,0	13000
1550 002	GN-YE,BK,BU,BN	1550 0023	GN-YE,BN,BK,GY	4 x 1,5 re	13	58,0	230
1550 011	GN-YE,BK,BU,BN	1550 0113	GN-YE,BN,BK,GY	4 x 2,5 re	14	96,0	300
1550 020	GN-YE,BK,BU,BN	1550 0203	GN-YE,BN,BK,GY	4 x 4 re	16	154,0	400
1550 021	GN-YE,BK,BU,BN	1550 0213	GN-YE,BN,BK,GY	4 x 6 re	17	230,0	510
1550 022	GN-YE,BK,BU,BN	1550 0223	GN-YE,BN,BK,GY	4 x 10 re	19	384,0	720
1550 023	GN-YE,BK,BU,BN	1550 0233	GN-YE,BN,BK,GY	4 x 16 re	22	614,0	1050
1550 024	GN-YE,BK,BU,BN	1550 0243	GN-YE,BN,BK,GY	4 x 25 re	28	960,0	1650
1550 075	GN-YE,BK,BU,BN	1550 0753	GN-YE,BN,BK,GY	4 x 35 re	28	1344,0	2000
1550 025	GN-YE,BK,BU,BN	1550 0253	GN-YE,BN,BK,GY	4 x 50 re	31	1920,0	2700
1550 076	GN-YE,BK,BU,BN	1550 0763	GN-YE,BN,BK,GY	4 x 70 re	35	2688,0	3600
1550 077	GN-YE,BK,BU,BN	1550 0773	GN-YE,BN,BK,GY	4 x 95 re	40	3648,0	4800
1550 078	GN-YE,BK,BU,BN	1550 0783	GN-YE,BN,BK,GY	4 x 120 re	43	4608,0	5900
1550 079	GN-YE,BK,BU,BN	1550 0793	GN-YE,BN,BK,GY	4 x 150 re	48	5760,0	7300

No surplus for cutting of original make-ups (50, 100, 250, 500, 1000 m). Colours acc. IEC 757: BK = black, BN = brown, BU = blue, GY = grey, GN-YE = green-yellow