



HELUKABEL <VDE> 0276 NY-Y-J 0,6/1 kV



Technical data

- Power and control cable to DIN VDE 0276 part 603, HD 603.1 and IEC 60502, 7 core and above to DIN VDE 0276 part 627, HD 627 S1 and IEC 60502
- **Temperature range**
flexing -5°C to +50°C
fixed installation -40°C to +70°C
- **Nominal voltage** U_0/U 0,6/1 kV
- **Test voltage** 4 kV
- Max. permissible **tensile stress** with cable grip for Cu-conductor = 50 N/mm²
- **Minimum bending radius**
for single core approx. 15x cable Ø
for multi core approx. 12x cable Ø
- **Power ratings table**
see Technical Informations
- **Caloric load values**
see Technical Informations

Cable construction

- Plain copper conductor, to DIN VDE 0295 cl. 1 or cl. 2 solid or stranded type, BS 6360 cl. 1 or cl. 2, IEC 60228 and HD 383
- PVC core insulation, DIV4 to HD 603.1
- Cores stranded concentrically
- Colour coded to DIN VDE 0293-308, 0276 part 603 or HD 186
- Core colour for 3+1/2 conductor
J-type: gnye (1/2), bn, bk, gy
O-type: bu (1/2), bn, bk, gy
- PVC outer jacket, DMV5 to HD 603.1
- Sheath colour black

Properties

- PVC self-extinguishing and flame retardant according to DIN VDE 0482 part 265-2-1/ EN 50265-2-1/ IEC 60332-1 (equivalent DIN VDE 0472 part 804 test method B)
- The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers

Highest permissible voltage

- Direct current systems 1,8 kV
- Alternating current systems, single-phase systems 1,4 kV
Both conductors insulated, single-phase systems 0,7 kV
One conductor earthed, three-phase systems 1,2 kV
With concentric conductor and a cross-section of 240 mm² and above 3,6 kV

Note

- re = round conductor, single-wire;
rm = round conductor, multiple-wire;
sm = stranded, sectional core.
- Also available in NYFGBY, NYBY versions etc.
- 2 cores = adapted to DIN VDE.
- **In respect to 3+1/2 conductors**
Whereby only one conductor is allowed to contain a smaller cross-section (as per DIN VDE 0276 part 603 table 5) and permitted to place as insulated core (gree-yellow and blue as 1/2-conductor), stranded in layer.

Application

Power cables for energy supply are installed in open air, in underground, in water, indoors, in cable ducts, power stations, for industry and distribution boards as well as in subscriber networks, where mechanical damages are not to be expected.

CE= The product is conformed with the EC Low-Voltage Directive 73/23/EEC and 93/68/EEC.

No. cores x cross-sec. mm ²		Outer ø ca. mm	Cop. weight kg / km	Weight ca. kg / km	J-type Part No.	AWG-No.	O-type Part No.	AWG-No.
1 x 4	re	9,0	38,0	115,0	32001	12	32089	12
1 x 6	re	9,5	58,0	135,0	32002	10	32090	10
1 x 10	re	10,0	96,0	179,0	32003	8	32091	8
1 x 16	re	11,0	154,0	245,0	32004	6	32092	6
1 x 25	rm	12,0	240,0	360,0	32005	4	32093	4
1 x 35	rm	13,0	336,0	470,0	32006	2	32094	2
1 x 50	rm	15,0	480,0	620,0	32007	1	32095	1
1 x 70	rm	16,5	672,0	810,0	32008	2/0	32096	2/0
1 x 95	rm	19,0	912,0	1110,0	32009	3/0	32097	3/0
1 x 120	rm	20,5	1152,0	1360,0	32010	4/0	32098	4/0
1 x 150	rm	22,5	1440,0	1670,0	32011	300 kcmil	32099	300 kcmil
1 x 185	rm	25,0	1776,0	2050,0	32012	350 kcmil	32100	350 kcmil
1 x 240	rm	28,0	2304,0	2630,0	32013	500 kcmil	32101	500 kcmil
1 x 300	rm	30,0	2880,0	3200,0	32014	600 kcmil	32102	600 kcmil
1 x 400	rm	34,0	3840,0	4150,0	32015	750 kcmil	32103	750 kcmil
1 x 500	rm	38,0	4800,0	5200,0	32556	1000 kcmil	32558	1000 kcmil
1 x 630	rm	43,0	6048,0	6650,0	32557		32559	-

Dimensions and specifications may be changed without prior notice.

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