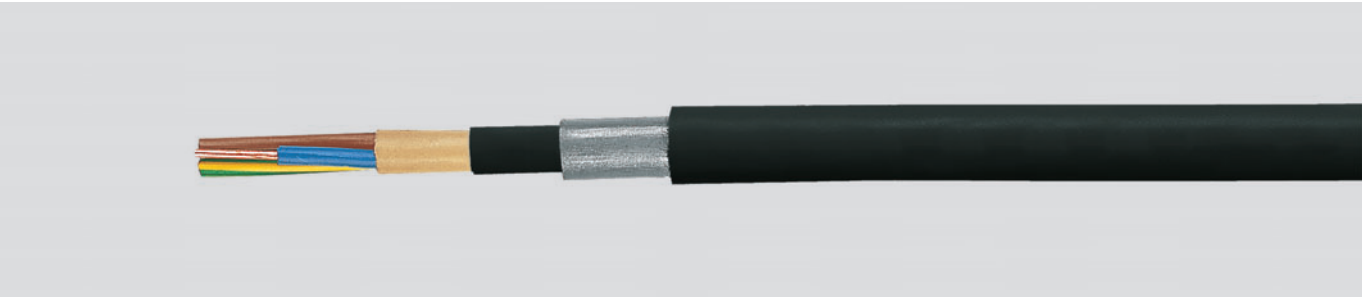
NYKY-J 0,6/1kV with lead sheath, VDE approved



Technical data

- Power and control cable, PVC insulation and lead inner-sheath to DIN VDE 0265
- **Temperature range**
  flexing -5 °C to +50 °C
  fixed installation -30 °C to +70 °C
- Permissible **operating temperature** at conductor +70 °C
- Permissible **short circuit temperature** +160 °C (short circuit duration 5 sec.)
- **Short circuit temperature** +160 °C (short circuit duration 5 sec.)
- **Nominal voltage** U_0/U 0,6/1 kV
  nominal voltage U
  for three-phase system 1,0 kV
  for one-phase system 1,2 kV
  (outer conductor insulated)
  for one phase system 0,6 kV
  (one outer conductor earthed)
  nominal voltage
  U_0 = between conductor and lead sheath
  U = voltage between the outer conductors,
  e. g. U_0/U for cables:
  For three-phase system U1/√3
  For one-phased.c. system, U_0 = U½
  (both outer conductor insulated)
  For one-phase andd.c. system U_0 = U
  (one outer conductor earthed)
- **operating voltage**
  the voltage between the conductors of a current-circuit (or between conductor and earth) in a given time during undisturbed operation under specified condition
- **Test voltage** (5 min.) 6,0 kV
- Min. permissible **bending radius**
  approx. 12x cable ø
- **Power ratings table**
  see Technical Informations

Cable structure

- Bare copper conductor to DIN VDE 0295, BS 6360, IEC 60228 and HD 383
- Core insulation of PVC, compound type DIV4 to VDE 0276 part 603
- Core identification to DIN VDE 0293-308
  up to 5 cores coloured
  7 cores black with numbering
- Green-yellow earth core
- Cores stranded concentrically
- Overall jacket of soft plastics material, if exists, permits also as extrusion or taping or a combination of both
- Lead inner-sheath, jointless and enclosed
- PVC outer jacket black, DMV5 to DIN VDE 0276 part 603
- Sheath colour black

Properties

- **Advantage**
  Good coupling resistance due to enclosed lead sheath is suitable for special **EMC-requirements** (Electromagnetic Compatibility)
- **Resistant to**
  Turpentine substitute
  Xylol
  Fuels
  Trichlor
  Oils
  Petroleum
  Toluene
  Hydrocarbon
- The lead sheath is **not** permitted to use as neutral-conductor (N)
- If drain-wire exists, only for use as earthing of lead sheath in a grounding system e.g. in hazardous areas to DIN VDE 0165. This drain-wire is **not** allowed to install as protective, neutral or earth conductor

Note

- AWG sizes are approximate equivalent values. The actual cross-section is in mm².
- re = round solid core;
  sm = sectional core.

Application

These cables of PVC insulation and lead inner-sheath are installed everywhere, where the danger of chemical reaction of solvents, energy fuels, oils, gasolines or of that kind in filling stations particularly in petrol pump areas for carburetor propellants, in refining plants and in chemical industries are to be caused. Suitable for installation under ground, in water, indoor areas and cable conduits.

CE = The product is conformed with the EC Low-Voltage Directive 2006/95/EG.

Part no.	No.cores x cross-sec. mm²	Outer Ø approx. mm	Cop. weight kg / km	Lead weight kg / km	Weight approx. kg / km	AWG-No.
32640	3 x 1,5 re	13,5	43,0	427,0	598,0	16
32686	3 x 1,5 re / 1,5	14,5	57,0	427,0	610,0	16
32641	3 x 2,5 re	14,8	72,0	487,0	690,0	14
32642	3 x 4 re	16,2	115,0	555,0	840,0	12
32643	3 x 6 re	17,3	173,0	610,0	990,0	10
32644	3 x 25 rm / 16	27,8	874,0	1290,0	2550,0	4
32645	3 x 35 sm / 16	29,2	1162,0	1340,0	3080,0	2
32646	3 x 50 sm / 25	32,7	1680,0	1670,0	3850,0	1
32647	3 x 70 sm / 35	35,8	2352,0	2020,0	5360,0	2/0
32648	3 x 95 sm / 50	40,3	3216,0	2440,0	6950,0	3/0
32649	3 x 120 sm / 70	43,2	4128,0	2770,0	8235,0	4/0
32650	3 x 150 sm / 70	48,8	4992,0	3530,0	9620,0	300 kcmil
32651	3 x 185 sm / 95	53,4	6240,0	4230,0	11940,0	350 kcmil
32652	3 x 240 sm / 120	59,8	8064,0	5230,0	15380,0	500 kcmil

Continuation ▸

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Part no.	No.cores x cross-sec. mm²	Outer Ø approx. mm	Cop. weight kg / km	Lead weight kg / km	Weight approx. kg / km	AWG-No.
32653	4 x 1,5 re	14,5	58,0	464,0	650,0	16
32687	4 x 1,5 re / 1,5	15,3	72,0	464,0	650,0	16
32654	4 x 2,5 re	15,5	96,0	530,0	760,0	14
32655	4 x 4 re	17,5	154,0	605,0	960,0	12
32656	4 x 6 re	18,5	230,0	665,0	1100,0	10
32657	4 x 10 re	21,3	384,0	750,0	1400,0	8
32658	4 x 16 re	24,2	614,0	975,0	1910,0	6
32659	4 x 25 rm	28,5	960,0	1290,0	2750,0	4
32660	4 x 35 rm	30,5	1344,0	1340,0	3630,0	2
32661	4 x 50 sm	33,3	1920,0	1680,0	4580,0	1
32662	4 x 70 sm	37,5	2688,0	2020,0	5340,0	2/0
32663	4 x 95 sm	42,3	3648,0	2440,0	7120,0	3/0
32664	5 x 1,5 re	15,3	72,0	505,0	710,0	16
32688	5 x 1,5 re / 1,5	16,4	86,0	505,0	780,0	16
32665	5 x 2,5 re	17,2	120,0	580,0	910,0	14
32666	5 x 4 re	19,4	192,0	665,0	1090,0	12
32667	5 x 6 re	20,2	288,0	730,0	1270,0	10
32668	5 x 10 re	22,8	480,0	930,0	1700,0	8
32669	5 x 16 re	26,4	768,0	1070,0	2231,0	6
32670	7 x 1,5 re	17,2	101,0	545,0	810,0	16
32689	7 x 1,5 re / 1,5	17,2	115,0	545,0	970,0	16
32678	7 x 2,5 re	18,0	168,0	625,0	1070,0	14
32671	10 x 1,5 re	21,3	144,0	680,0	918,0	16
32679	10 x 2,5 re	22,4	240,0	865,0	1330,0	14
32672	12 x 1,5 re	21,3	173,0	710,0	988,0	16
32680	12 x 2,5 re	23,2	288,0	940,0	1440,0	14
32673	14 x 1,5 re	21,3	202,0	735,0	1100,0	16
32681	14 x 2,5 re	24,5	336,0	980,0	1530,0	14
32674	19 x 1,5 re	23,0	274,0	900,0	1440,0	16
32682	19 x 2,5 re	26,0	456,0	1170,0	1680,0	14
32675	24 x 1,5 re	27,3	346,0	1170,0	1610,0	16
32683	24 x 2,5 re	31,0	576,0	1370,0	2160,0	14
32676	30 x 1,5 re	28,2	432,0	1240,0	1830,0	16
32684	30 x 2,5 re	32,3	720,0	1550,0	2530,0	14
32677	40 x 1,5 re	31,4	576,0	1390,0	2300,0	16
32685	40 x 2,5 re	36,4	960,0	1770,0	3310,0	14

Dimensions and specifications may be changed without prior notice. (RQ01)