NAYY-J power cable, 0,6/1 kV, VDE approved

Technical data

- Power and control cable to DIN VDE 0276 part 603, HD 603 S1 and IEC 60502
- Insulation and jacket-compound of thermoplastic PVC
- **Temperature range**
  flexing -5°C to +50°C
  fixed installation -40°C to +70°C
- Permissible **short circuit temperature** +160°C (short circuit duration 5 sec.)
- **Nominal voltage** U_0/U 0,6/1 kV
- **Test voltage** 4 kV
- Max. permissible **tensile stress** with cable grip for Alu-conductor = 30 N/mm²
- **Current carrying capacity** as per DIN VDE 0276 part 603, in normal operation table 14 and 15, under short circuit conditions table 17
- **Minimum bending radius** for multi core approx. 12x cable Ø
- **Power ratings table** see Technical Informations
- **Caloric load values** see Technical Informations

Cable construction

- Solid aluminium conductor, as per VDE 0295 cl. 1 or cl. 2 (round and sector shaped), BS 6360 cl. 1 or cl. 2, IEC 60228 and HD 383
- PVC core insulation, DIV4 to HD 603.1
- Conductor colours: green-yellow, brown, black, grey
- Cores stranded in layers
- Inner covering
- PVC outer jacket black, 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 solid core;
  se = sectional core.
- AWG sizes are approximate equivalent values. The actual cross-section is in mm².

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 be expected.

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

Part No.	No.cores x cross-sec. mm²		Outer ø ca. mm	Alu weight ca. mm	Weight ca. kg / km	AWG-No.
32301	4 x 16	re	23,0	186,0	750,0	6
32302	4 x 25	re	26,0	290,0	950,0	4
32303	4 x 35	re	28,5	406,0	1120,0	2
32304	4 x 50	se	30,0	580,0	1151,0	1
32305	4 x 70	se	35,0	812,0	1549,0	2/0
32306	4 x 95	se	39,5	1102,0	2030,0	3/0
32307	4 x 120	se	44,0	1392,0	2400,0	4/0
32308	4 x 150	se	46,0	1740,0	3030,0	300 kcmil
32309	4 x 185	se	51,0	2146,0	3650,0	350 kcmil
32310	4 x 240	se	56,0	2784,0	4800,0	500 kcmil

Dimensions and specifications may be changed without prior notice.