



## 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 **operating temperature** at conductor +70 °C
- Permissible **short circuit temperature** +160 °C (short circuit duration 5 sec.)
- Nominal voltage** U<sub>0</sub>/U 0,6/1 kV
- Test voltage** 4 kV
- Max. permissible **tensile stress** with cable grip for Alu-conductor = 30 N/mm<sup>2</sup>
- 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 for single core approx. 15x cable ø
- Current carrying capacity** see Technical Informations
- Caloric load values** see Technical Informations

## Cable structure

- 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 VDE 0482-332-1-2, DIN EN 60332-1-2/ 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  
Both conductors insulated 1,4 kV  
single-phase systems  
One conductor earthed 0,7 kV
- three-phase systems 1,2 kV

## Note

- re = round solid core;
- se = sectional core;
- rm = stranded core.

## 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 2006/95/EG.

No. cores x cross-sec. mm <sup>2</sup>		Outer ø approx. mm	Alu weight approx. kg / km	Weight approx. kg / km	J type Part no.	AWG-No.	O type Part no.	AWG-No.
4 x 16	re	23,0	186,0	750,0	32301	6	32184	6
4 x 25	re	26,0	290,0	950,0	32302	4	32185	4
4 x 35	re	28,5	406,0	1120,0	32303	2	32186	2
4 x 50	se	30,0	580,0	1151,0	32304	1	32187	1
4 x 70	se	35,0	812,0	1549,0	32305	2/0	32188	2/0
4 x 95	se	39,5	1102,0	2030,0	32306	3/0	32189	3/0
4 x 95	sm	39,5	1102,0	2030,0	32177	3/0	32190	3/0
4 x 120	se	44,0	1392,0	2400,0	32307	4/0	32191	4/0
4 x 120	sm	44,0	1392,0	2400,0	32178	4/0	32192	4/0
4 x 150	se	46,0	1740,0	3030,0	32308	300 kcmil	32193	300 kcmil
4 x 150	sm	46,0	1740,0	3030,0	32179	300 kcmil	32194	300 kcmil
4 x 185	se	51,0	2146,0	3650,0	32309	350 kcmil	32195	350 kcmil
4 x 185	sm	51,0	2146,0	3650,0	32180	350 kcmil	32196	350 kcmil
4 x 240	se	56,0	2784,0	4800,0	32310	500 kcmil	32197	500 kcmil
4 x 240	sm	56,0	2784,0	4800,0	32181	500 kcmil	32198	500 kcmil
4 x 300	se	64,0	3480,0	5596,0	32182	600 kcmil	32199	600 kcmil
4 x 300	sm	64,0	3480,0	5596,0	32183	600 kcmil	32258	600 kcmil

Continuation □

# NAYY power cable, 0,6/1 kV, VDE approved



No. cores x cross-sec. mm <sup>2</sup>		Outer Ø approx. mm	Alu weight kg / km	Weight approx. kg / km	J type Part no.	AWG-No.	O type Part no.	AWG-No.
5 x 10	re	22,0	145,0	637,0	33275	8	33283	8
5 x 16	re	25,0	232,0	832,0	33276	6	33284	6
5 x 25	re	28,0	363,0	1175,0	33277	4	33285	4
5 x 35	re	31,0	508,0	1399,0	33278	2	33286	2
5 x 50	sm	35,0	725,0	1855,0	33279	1	33287	1
5 x 70	sm	40,0	1015,0	2351,0	33280	2/0	33288	2/0
5 x 95	sm	45,0	1378,0	3071,0	33281	3/0	33289	3/0
5 x 120	sm	49,0	1740,0	3631,0	33282	4/0	33290	4/0

No. cores x cross-sec. mm <sup>2</sup>		Outer Ø approx. mm	Alu weight kg / km	Weight approx. kg / km	J type Part no.	AWG-No.	O type Part no.	AWG-No.
1 x 35	re	13,0	102,0	240,0	32328	2	32311	2
1 x 50	rm	15,0	145,0	360,0	32329	1	32312	1
1 x 70	rm	16,5	203,0	410,0	32390	2/0	32313	2/0
1 x 95	rm	19,0	276,0	570,0	32391	3/0	32314	3/0
1 x 120	rm	20,5	348,0	691,0	32392	4/0	32315	4/0
1 x 150	rm	22,5	435,0	804,0	32393	300 kcmil	32321	300 kcmil
1 x 185	rm	25,0	537,0	979,0	32394	350 kcmil	32322	350 kcmil
1 x 240	rm	28,0	696,0	1253,0	32395	500 kcmil	32323	500 kcmil
1 x 300	rm	30,0	870,0	1395,0	32396	600 kcmil	32324	600 kcmil
1 x 400	rm	34,0	1160,0	1890,0	32397	750 kcmil	32325	750 kcmil
1 x 500	rm	38,0	1450,0	2600,0	32398	1000 kcmil	32326	1000 kcmil
1 x 630	rm	43,0	1827,0	2780,0	32399	-	32327	-

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