



Technical data

- Power distribution cables acc. to DIN VDE 0276-603 / HD 603 S1 / IEC 60502
- **Temperature range**
flexing -5°C to +50°C
fixed installation -40°C to +70°C
- Permissible conductor **operating temperature** +70°C
- Permissible **short circuit temperature** (short circuit duration max. 5 s)
≤ 300 mm² +160°C
> 300 mm² +140°C
- **Nominal voltage**
U₀/U 0,6/1 kV
- **Test voltage**
4 kV
- **Minimum bending radius**
single core 15x outer Ø
multi core 12x outer Ø
- **Caloric load values**
see "Technical Information"

Cable structure

- Aluminium conductor, single wire or multi wire acc. to DIN VDE 0295 cl.1 or cl.2 / IEC 60228 cl.1 or cl.2
- Core insulation of PVC compound type DIV4 acc. to HD 603 S1
- Core identification acc. to DIN VDE 0293-308 / 0276-603
- Cores concentrically stranded
- Common core sheath
- Outer sheath of PVC compound type DMV5 acc. to HD 603 S1
- Sheath colour: black

Properties

- The materials used during manufacturing are cadmium-free, contain no silicone and are free from substances harmful to the wetting properties of lacquers

Tests

- Flame retardant acc. to DIN VDE 0482-332-1-2 / DIN EN 60332-1-2 / IEC 60332-1-2

Highest permissible voltage

- Direct current systems
 - Conductor/conductor 1,8 kV
 - Conductor/earth 0,9 kV
- Alternating current systems
 - Single phase systems both outer conductors insulated 1,4 kV
 - Single phase systems one outer conductor earthed 0,7 kV
- Three phase systems 1,2 kV

Note

- re = round conductor, single wire
- rm = round conductor, multi wire
- se = sectional conductor, single wire
- sm = sectional conductor, multi wire
- J-version = with GN-YE conductor
- O-version = without GN-YE conductor
- Part no. 32182, 32183, 32199, 32258, 34047 in reference to VDE Designation (N)AYY
- The conductor is metrically constructed (mm²). The AWG designation is approximate and purely informative.

Application

Power cables for energy supply are installed in open air, in underground, in water, in concrete, 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 = Product conforms with Low-Voltage Directive 2014/35/EU.

No. cores x cross-sec. mm²		Outer Ø app. mm	Alu weight kg / km	Weight app. 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	re	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	26,5	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	39,5	1827,0	2780,0	32399	1250 kcmil	-	32327	1250 kcmil	-

Continuation ►

No. cores x cross-sec. mm ²		Outer Ø app. mm	Alu weight kg / km	Weight app. kg / km	J type Part no.	AWG-No.		O type Part no.	AWG-No.	
4 x 16	re	20,0	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	56,0	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	-

No. cores x cross-sec. mm ²		Outer Ø app. mm	Alu weight kg / km	Weight app. kg / km	J type Part no.	AWG-No.		O type Part no.	AWG-No.	
5 x 10	re	19,5	145,0	637,0	33275	8	-	33283	8	-
5 x 16	re	21,5	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	rm	35,0	725,0	1855,0	33279	1	-	33287	1	-
5 x 70	rm	40,0	1015,0	2351,0	33280	2/0	-	33288	2/0	-
5 x 95	rm	49,6	1378,0	3071,0	33281	3/0	-	33289	3/0	-
5 x 120	rm	49,0	1740,0	3631,0	33282	4/0	-	33290	4/0	-
5 x 150	rm	57,8	2175,0	4405,0	34041	300 kcmil	-	34042	300 kcmil	-
5 x 185	rm	61,5	2683,0	5420,0	34043	350 kcmil	-	34044	350 kcmil	-
5 x 240	rm	70,0	3480,0	6860,0	34045	500 kcmil	-	34046	500 kcmil	-
5 x 300	sm	69,0	4350,0	7240,0	34047	600 kcmil	-			-

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