

MOTOR POWER SUPPLY CABLES



GAALFLEX® NYCWY

Power Cable 0,6/1 kV with concentric copper conductor, connection to frequency converters

CE



Construction:

Conductor:	plain copper conductors, as for VDE 0295 cl.1 od. cl.2, IEC 60228, BS 6360 cl.1 and HD 383, solid or stranded version, conductor types 10-16 mm ² - round, solid cores (re) alt. 10-25 mm ² - stranded conductor (rm) 35-240 mm ² - sector shaped conductor (rm), stranded (sm). Concentration conductor (Ceander), inner layer of corrugated copper wires, outer layer with copper tape
Insulation:	PVC core insulation, DIV4 to HD 603.1
Colour:	colour coded to DIN VDE 0293 and HD 186
Cores:	cores stranded concentrically.
Outer sheath:	PVC outer sheath, DMV5 to HD 603.1, sheath colour black.
Fire performance:	PVC self extinguishing and flame retardant acc. to DIN VDE 0482 part 265-2-1/EN 50265-2-1/IEC 60332-1 (equivalent DIN VDE 0472 part 804 test method B).

Application:

Power cables for energy supply, preferably used for underground laying, especially in subscriber networks, power station as well as control impulses and test datas. Overall, where increased electrical and also mechanical protection are required.

Those cables are installed in open air, in underground, in water, indoors and in cable ducts.

The corrugated concentric conductor (CW) is allowed to use as neutral, protective or earth conductor. Simultaneously this is also permitted to apply as a screen for example earthed-connected protection against contact.

Due to the typical construction of corrugated concentric conductors (Ceander), many more cable joints are possible to obtain, without cutting any conductor. In that way the operating reliability is guaranteed.

Technical data:

Temperature range:	
<i>Fixed installation:</i>	- 30°C to + 70°C
<i>Flexible application:</i>	- 5°C to + 50°C
Nominal voltage:	U ₀ /U 0,6/1 kV
Test voltage:	4 kV
Min. bending radius:	12 x d
Max. permissible:	max. permissible tensile stress with cable grip for Cu-conductor = 50 N/mm ²
Current carrying capacity:	as for DIN VDE 0276 part 603



Item no.	No. of cores x cross section no. x mm ²	Outer-Ø mm	Current capacity at +30°C	Alu weight kg/km	Cable weight kg/km	AWG. no.)*
03500261	2x10 re/10	19.0	67	312	650	8
03500262	2x16 re/16	21.0	89	489	850	6
03500263	2x25 rm/25	24.0	119	763	1210	4
03500361	3x10 re/10	19.5	67	408	730	8
03500362	3x16 re/16	22.0	89	643	1000	6
03500363	3x25 rm/16	26.0	119	902	1550	4
03500364	3x35 sm/16	27.0	146	1190	1750	2
03500365	3x50 sm/25	29.0	177	1723	2250	1
03500366	3x70 sm/35	33.0	221	2410	2950	2/0
03500367	3x95 sm/50	38.0	270	3296	4100	3/0
03500368	3x120 sm/70	41.0	310	4236	5050	4/0
03500369	3x150 sm/70	45.0	350	5100	6000	250 MCM
03500370	3x185 sm/95	50.0	399	6383	7550	350 MCM
03500371	3x240 sm/120	57.0	462	8242	9950	450 MCM
035003631	3x25 rm/25	26.0	119	1003	1600	4
035003641	3x35 sm/35	27.5	146	1402	1850	2

Temperature °C: 15 | 20 | 25 | 35 | 40 | 45 | 50 | 55 | 60
K Factor: 1,17 | 1,12 | 1,06 | 0,94 | 0,87 | 0,79 | 0,71 | 0,61 | 0,50

Item no.	No. of cores x cross section no. x mm ²	Outer-Ø mm	Current capacity at +30°C	Copper weight kg/km	Cable weight kg/km	AWG. no.)*
035003651	3x50 sm/50	29.5	177	2000	2450	1
035003661	3x70 sm/70	34.0	221	2796	3350	2/0
035003671	3x95 sm/95	38.5	270	3791	4550	3/0
035003681	3x120 sm/120	42.0	310	4786	5550	4/0
035003691	3x150 sm/150	46.0	350	5970	6900	250 MCM
035003701	3x185 sm/185	51.0	399	7363	8500	350 MCM
03500461	4x10 sm/10	20.5	67	504	890	8
03500462	4x16 re/16	23.5	89	796	1250	6
03500463	4x25 re/16	28.0	119	1142	1800	4
03500464	4x35 rm/16	29.0	146	1526	2050	2
03500465	4x50 sm/25	33.0	177	2203	2700	1
03500466	4x70 sm/35	37.0	221	3082	3750	2/0
03500467	4x95 sm/50	43.5	270	4208	5000	3/0
03500468	4x120 sm/70	47.2	310	5388	6350	4/0
03500469	4x150 sm/70	51.0	350	6540	7650	250 MCM
03500470	4x185 sm/95	56.0	399	8159	9350	350 MCM
03500471	4x240 sm/120	62.5	462	10546	11600	450 MCM

Other dimensions and colours available on request.



Thomas Cable