

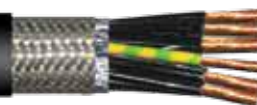
CONTROL AND CONNECTION CABLES

GAALFLEX® TRAY 1002 CY Lean

Special PVC oil resistant, flexible tray cable, Machine-Tool cable,
with overall copper screen, acc. to UL 1277 (TC-ER) and UL 1063 (MTW), 600 V TC & MTW, 1000 V AWM & IEC



ELETTROTEK KABEL® GAALFLEX® TRAY 1002 CY lean



Construction:

Conductor:	flexible red copper conductor Cl. 5, acc to IEC 60228, DIN VDE 0295 and UL standard 83 from 18 to 16 AWG: cores type TFF from 14 AWG and over: cores type THHW
Insulation:	GAALTHERM® 522
Colour cores:	black cores with consecutive numbers acc. to EN 50334, green-yellow from 3 cores
Stranding:	in layers
Screen:	aluminium tape and tinned copper braid
Outer sheath:	black (RAL 9005), special PVC oil resistant compound acc. to UL 1277 and UL 1063

Technical data:

Nominal voltage:	UL-TC/MTW 600 V
Nominal voltage:	IEC / UL-AWM 1000 V
Test voltage:	4 kV
Temperature range	
<i>Fixed laying:</i>	- 40°C up to +90°C (UL-AWM up to +105°C)
<i>Flexible application:</i>	- 5°C up to +90°C (UL-AWM up to +105°C)
Min. bending radius:	
<i>Fixed laying:</i>	6 x d
<i>Flexible installation:</i>	20 x d

Resistance:



Fire performance acc. to:
(UL) FT4/IEEE, UL 1685



Oil resistance acc. to:
to UL OIL RES I



UV resistant / Sunlight resistant:
acc. to EN 50396 and HD 605 A1, UL 1581

Features:

AWM style 10012/21179 90°C 600 or 1000 V, CSA AWM I/II A/B
acc. to UL 1063 UL(MTW) and UL 1277 (TC-ER)
oil resistant acc. to UL OIL RES I,
water resistance and UL Wet approval 75°C
acc. to UL 2277: Flexible Motor Supply Lead Cable
(Flexible VFD Servo Cable) and Wind Turbine Tray Cable (WTTC)
acc. to NFPA 79 2007 and NEC 336.10(7)
class 1 Div. 2 art 336, 392, 501
Direct burial acc. to UL 1277 part. 5.2. (wet location insulations)
and 18.1 - 18.6 (crushing test)
outdoor use
exposed runs
cable for tray use
oil resistance
water resistance
RoHS and CE approval



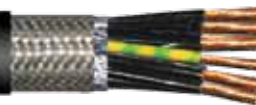
CONTROL AND CONNECTION CABLES

GAALFLEX® TRAY 1002 CY Lean

Special PVC oil resistant, flexible tray cable, Machine-Tool cable,
with overall copper screen, acc. to UL 1277 (TC-ER) and UL 1063 (MTW), 600 VTC & MTW, 1000 V AWM & IEC



ELETTROTEK KABEL® GAALFLEX® TRAY 1002 CY lean



Part no.	No. of cores x cross section n x mm ²	Outer-Ø ca. mm ± 10%	Copper weight kg/km	Cable weight approx. kg/km	AWG no. *)
32240H71020A18	2 x 1	8,5	44,0	100	18
32240H70031A18	3 G 1	8,9	58,4	122	18
32240H70041A18	4 G 1	9,7	67,9	145	18
32240H70051A18	5 G 1	10,5	82,6	175	18
32240H70071A18	7 G 1	11,4	106,7	212	18
32240H70121A18	12 G 1	15,5	185,2	350	18
32240H70181A18	18 G 1	17,9	260,5	485	18
32240H70251A18	25 G 1	20,3	336,3	610	18
32240H71020A16	2 x 1,5	9,2	58,4	125	16
32240H70031A16	3 G 1,5	9,7	72,7	145	16
32240H70041A16	4 G 1,5	10,5	92,2	185	16
32240H70051A16	5 G 1,5	11,4	111,5	220	16
32240H70071A16	7 G 1,5	12,4	145,3	270	16
32240H70121A16	12 G 1,5	16,9	251,8	450	16
32240H70181A16	18 G 1,5	19,6	355,6	630	16
32240H70251A16	25 G 1,5	23,4	474,0	770	16
32240H71020A14	2 x 2,5	10,0	82,5	158	14
32240H70031A14	3 G 2,5	10,5	106,6	190	14
32240H70041A14	4 G 2,5	11,4	135,6	240	14
32240H70051A14	5 G 2,5	12,5	164,4	290	14
32240H70071A14	7 G 2,5	14,6	229,6	390	14
32240H70121A14	12 G 2,5	18,5	375,9	610	14
32240H70181A14	18 G 2,5	22,6	537,5	850	14
32240H70031A12	3 G 4	11,9	154,6	260	12
32240H70041A12	4 G 4	13,0	198,1	335	12
32240H70051A12	5 G 4	15,2	262,1	435	12
32240H70071A12	7 G 4	16,5	348,0	550	12
32240H70031A10	3 G 6	13,9	217,2	355	10
32240H70041A10	4 G 6	15,3	300,7	480	10
32240H70051A10	5 G 6	16,7	367,0	570	10
32240H70041A08	4 G 10	19,4	480,8	770	8
32240H70051A08	5 G 10	22,4	585,4	960	8
32240H70041A06	4 G 16	24,6	737,3	1210	6
32240H70051A06	5 G 16	27,1	899,7	1450	6
32240H70041A04	4 G 25	28,1	1100,6	1700	4
32240H70041A02	4 G 35	31,0	1502,0	2210	2
32240H70041A01	4 G 50	37,7	2166,7	3210	1
32240H70041A2C	4 G 70	44,2	2976,1	4400	2/0
32240H70041A3C	4 G 95	47,7	3963,5	5570	3/0
32240H70041A4C	4 G 120	50,3	4937,2	6660	4/0
32240H70041A5C	4 G 150	55,9	6130,5	8260	250 MCM

Other dimension and colours available on request.

CONTROL AND CONNECTION CABLES

GAALFLEX® TRAY INSTRUMENTATION 600 POS

Special paired XLPE/PVC UV and oil resistant, with overall Aluminium tape screen, TC-ER 90°C 600V Dry or wet, UL 1277 type TC



ELETTROTEK KABEL® GAALFLEX® INSTRUMENTATION 600 POS



Construction:

Conductor:	stranded red copper conductor similar Cl. 2, acc. to IEC 60228, ASTM B33 and B8
Insulation:	special XLPE compound flame-retardant
Colour cores:	acc. to ICEA table E1: pairs: black and white numbered
Stranding:	in pairs
Screen:	aluminium tape + PETP foil
Outer sheath:	black (RAL 9005), special PVC oil and UV resistance compound

Resistance:



Fire performance acc. to:
UL 1581 / IEEE 383



Low smoke emission acc. to:
UL 1685

Technical data:

Nominal voltage:	UL: 600V
Test voltage:	4 kV
Temperature range	UL: - 40°C up to +90°C
Min. bending radius:	
<i>Fixed laying:</i>	5 x d
<i>Flexible installation:</i>	8 x d

Features:

- on request tinned copper conductor
- on request flexible conductors
- on request Method 4 color code
- on request fire performance acc. to FT4 and IEEE 1202

UV and weather resistance
abrasion and chemical resistance

Type TC-ER UL 600V 90°C dry or wet
sunlight resistant oil resistant I direct burial

TC: UL Standard 1277

acc. to UL 1581

acc. to EPA 40 CFR, Part 261, Subpart C,
heavy metals per table 1, TCLP method

acc. to ICEA S-95-658 (WC70)

approved for class 1 div 2 hazardous location
acc. to NEC article 501 (TC)

acc. to NEC article 336 applications

RoHS and CE approval



Part no.	No. of pair(s) x cross section n x AWG	Outer-Ø ca. mm ± 10%	Copper weight Lbs/Mft - kg/km	Cable weight approx. Lbs/Mft - kg/km
32090F7T012A18	1 x 2 x 18	0,314 - 7,98	-	45 - 67
32090F7T022A18	2 x 2 x 18	0,476 - 12,09	-	89 - 132
32090F7T042A18	4 x 2 x 18	0,582 - 14,78	-	156 - 132
32090F7T082A18	8 x 2 x 18	0,733 - 18,61	-	255 - 380
32090F7T122A18	12 x 2 x 18	0,902 - 22,91	-	383 - 570
32090F7T242A18	24 x 2 x 18	1,198 - 30,43	-	665 - 990
32090F7T362A18	36 x 2 x 18	1,360 - 34,54	-	909 - 1353
32090F7T012A16	1 x 2 x 16	0,338 - 8,59	-	56 - 83
32090F7T022A16	2 x 2 x 16	0,548 - 13,92	-	184 - 274
32090F7T042A16	4 x 2 x 16	0,632 - 16,05	-	218 - 324
32090F7T082A16	8 x 2 x 16	0,800 - 20,32	-	328 - 488
32090F7T122A16	12 x 2 x 16	0,988 - 25,10	-	496 - 738
32090F7T162A16	16 x 2 x 16	1,108 - 28,14	-	625 - 930
32090F7T242A16	24 x 2 x 16	1,312 - 33,32	-	869 - 1293
32090F7T362A16	36 x 2 x 16	1,530 - 38,86	-	1258 - 1872

Other dimension and colours available on request.

CONTROL AND CONNECTION CABLES

GAALFLEX® TRAY INSTRUMENTATION 600 SPOS

Special paired XLPE/PVC UV and oil resistant, with individual and overall Aluminium tape screen, TC-ER 90°C 600V Dry or wet, UL 1277 type TC



ELETTROTEK KABEL® GAALFLEX® INSTRUMENTATION 600 SPOS



Construction:

Conductor:	stranded red copper conductor similar Cl. 2, acc. to IEC 60228, ASTM B33 and B8
Insulation:	special XLPE compound flame-retardant
Colour cores:	acc. to ICEA table E1: pairs: black and white numbered
Stranding:	in pairs
Screen	
<i>Individual:</i>	aluminium tape + PETP foil on each pair
<i>Overall:</i>	aluminium tape + PETP foil
Outer sheath:	black (RAL 9005), special PVC oil and UV resistance compound

Resistance:



Fire performance acc. to:
UL 1581 / IEEE 383



Low smoke emission acc. to:
UL 1685

Technical data:

Nominal voltage:	UL: 600V
Test voltage:	4 kV
Temperature range	UL: - 40°C up to +90°C
Min. bending radius:	
<i>Fixed laying:</i>	5 x d
<i>Flexible installation:</i>	8 x d

Features:

- on request tinned copper conductor
- on request flexible conductors
- on request Method 4 color code
- on request fire performance acc. to FT4 and IEEE 1202
- UV and weather resistance
- abrasion and chemical resistance
- Type TC-ER UL 600V 90°C dry or wet sunlight resistant oil resistant I direct burial
- TC: UL Standard 1277
- acc. to UL 1581
- acc. to EPA 40 CFR, Part 261, Subpart C, heavy metals per table 1, TCLP method
- acc. to ICEA S-95-658 (WC70)
- approved for class 1 div 2 hazardous location
- acc. to NEC article 501 (TC)
- acc. to NEC article 336 applications
- RoHS and CE approval



Part no.	No. of triads x cross section n x AWG	Outer-Ø ca. mm ± 10%	Copper weight Lbs/Mft - kg/km	Cable weight approx. Lbs/Mft - kg/km
32100F7T022A18	2 x 2 x 18	0,490 - 12,45	-	98 - 146
32100F7T042A18	4 x 2 x 18	0,598 - 15,19	-	176 - 262
32100F7T082A18	8 x 2 x 18	0,755 - 19,18	-	290 - 432
32100F7T122A18	12 x 2 x 18	0,930 - 23,62	-	438 - 652
32100F7T242A18	24 x 2 x 18	1,254 - 31,85	-	796 - 1185
32100F7T362A18	36 x 2 x 18	1,442 - 36,63	-	968 - 1440
32100F7T022A16	2 x 2 x 16	0,562 - 14,27	-	140 - 208
32100F7T042A16	4 x 2 x 16	0,674 - 17,07	-	227 - 338
32100F7T082A16	8 x 2 x 16	0,800 - 20,32	-	375 - 558
32100F7T122A16	12 x 2 x 16	1,015 - 25,78	-	571 - 850
32100F7T242A16	24 x 2 x 16	1,368 - 34,75	-	1044 - 1554
32100F7T362A16	36 x 2 x 16	1,574 - 39,98	-	1477 - 2198

Other dimension and colours available on request.

CONTROL AND CONNECTION CABLES

GAALFLEX® TRAY INSTRUMENTATION 600 TOS

Special triads XLPE/PVC UV and oil resistant, with overall Aluminium tape screen, TC-ER 90°C 600V Dry or wet, UL 1277 type TC



ELETTROTEK KABEL® GAALFLEX® INSTRUMENTATION 600 TOS



Construction:

Conductor:	stranded red copper conductor similar Cl. 2, acc. to IEC 60228, ASTM B33 and B8
Insulation:	special XLPE compound flame-retardant
Colour cores:	acc. to ICEA table E1: triads: black, white and red numbered
Stranding:	in triads
Screen:	aluminium tape + PETP foil
Outer sheath:	black (RAL 9005), special PVC oil and UV resistance compound

Resistance:



Fire performance acc. to:
UL 1581 / IEEE 383



Low smoke emission acc. to:
UL 1685

Technical data:

Nominal voltage:	UL: 600V
Test voltage:	4 kV
Temperature range	UL: - 40°C up to +90°C
Min. bending radius:	
<i>Fixed laying:</i>	5 x d
<i>Flexible installation:</i>	8 x d

Features:

- on request tinned copper conductor
- on request flexible conductors
- on request acc. to Method 4 color coded
- on request fire performance acc. to FT4 and IEEE 1202
- UV and weather resistance
abrasion and chemical resistance
- Type TC-ER UL 600V 90°C dry or wet
sunlight resistant oil resistant | direct burial
- TC: UL Standard 1277
- acc. to UL 1581
- acc. to EPA 40 CFR, Part 261, Subpart C,
heavy metals per table 1, TCLP method
- acc. to ICEA S-95-658 (WC70)
- approved for class 1 div 2 hazardous location
acc. to NEC article 501 (TC)
- acc. to NEC article 336 applications
- RoHS and CE approval



Part no.	No. of triads x cross section n x AWG	Outer-Ø ca. mm ± 10%	Copper weight Lbs/Mft - kg/km	Cable weight approx. Lbs/Mft - kg/km
32110F7T023A18	2 x 3 x 18	0,604 - 15,34	-	138 - 206
32110F7T043A18	4 x 3 x 18	0,703 - 17,86	-	228 - 339
32110F7T083A18	8 x 3 x 18	0,903 - 22,91	-	388 - 577
32110F7T123A18	12 x 3 x 18	1,142 - 29,01	-	596 - 887
32110F7T163A18	16 x 3 x 18	1,330 - 33,78	-	807 - 1200
32110F7T243A18	24 x 3 x 18	1,632 - 41,45	-	1133 - 1685
32110F7T363A18	36 x 3 x 18	1,869 - 47,47	-	1586 - 2360
32110F7T023A16	2 x 3 x 16	0,656 - 16,66	-	156 - 232
32110F7T043A16	4 x 3 x 16	0,780 - 19,81	-	291 - 433
32110F7T083A16	8 x 3 x 16	1,028 - 26,11	-	545 - 811
32110F7T123A16	12 x 3 x 16	1,271 - 32,28	-	735 - 1094
32110F7T163A16	16 x 3 x 16	1,452 - 36,88	-	973 - 1448
32110F7T243A16	24 x 3 x 16	1,808 - 45,92	-	1516 - 2256
32110F7T363A16	36 x 3 x 16	2,071 - 52,60	-	2136 - 3178

Other dimension and colours available on request.

CONTROL AND CONNECTION CABLES

GAALFLEX® TRAY INSTRUMENTATION 600 STOS

Special triads XLPE/PVC UV and oil resistant, with individual and overall Aluminium tape screen, TC-ER 90°C 600V Dry or wet, UL 1277 type TC



ELETTROTEK KABEL® GAALFLEX® INSTRUMENTATION 600 STOS



Construction:

Conductor:	stranded red copper conductor similar Cl. 2, acc. to IEC 60228, ASTM B33 and B
Insulation:	special XLPE compound flame-retardant
Colour cores:	acc. to ICEA table E1: triads: black, white and red numbered
Stranding:	in triads
Screen	
<i>Individual:</i>	aluminium tape + PETP foil on each pair
<i>Overall:</i>	aluminium tape + PETP foil
Outer sheath:	black (RAL 9005), special PVC oil and UV resistance compound

Resistance:



Fire performance acc. to:
UL 1581 / IEEE 383



Low smoke emission acc. to:
UL 1685

Technical data:

Nominal voltage:	UL: 600V
Test voltage:	4 kV
Temperature range	UL: - 40°C up to +90°C
Min. bending radius:	
<i>Fixed laying:</i>	5 x d
<i>Flexible installation:</i>	8 x d

Features:

on request tinned copper conductor
on request flexible conductors
on request Method 4 color code
on request fire performance acc. to FT4 and IEEE 1202

UV and weather resistance
abrasion and chemical resistance

Type TC-ER UL 600V 90°C dry or wet
sunlight resistant oil resistant I direct burial

TC: UL Standard 1277
acc. to UL 1581

acc. to EPA 40 CFR, Part 261, Subpart C,
heavy metals per table 1, TCLP method

acc. to ICEA S-95-658 (WC70)

approved for class 1 div 2 hazardous location
acc. to NEC article 501 (TC)

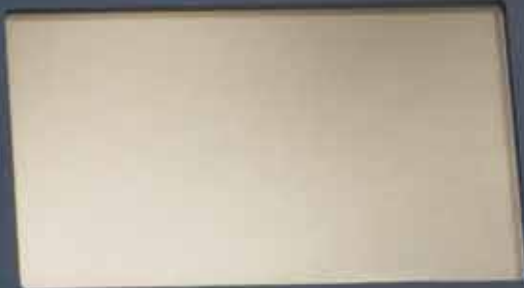
acc. to NEC article 336 applications

RoHS and CE approval



Part no.	No. of triads x cross section n x AWG	Outer-Ø ca. mm ± 10%	Copper weight Lbs/Mft - kg/km	Cable weight approx. Lbs/Mft - kg/km
32120F7T013A18	1 x 3 x 18	0,331 - 8,41	-	59 - 75
32120F7T013A16	1 x 3 x 16	0,357 - 9,07	-	75 - 94
32120F7T013A14	1 x 3 x 14	0,387 - 9,83	-	98 - 146

Other dimension and colours available on request.



GAALFLEX® VFD CABLES



GAALFLEX® VFD 2YSLCY-J

Inverter, connection to frequency converters, 0,6/1 kV



Construction:

Conductor:	flexible red copper conductor Cl. 5, acc to IEC 60228, DIN VDE 0295
Insulation:	PE compound
Cores color:	acc. to DIN VDE 0293-308, HD 308 S2 3 conductors + 3 earth conductors: grey, brown, black and green/yellow divided in interstices 4 cores: green/yellow, brown, black, grey
Stranding:	in layers
Screen:	aluminium tape + PETP foil and tinned copper braid
Outer Sheath:	transparent, PVC compound (4 conductors), transparent-orange, PVC compound (3 + 3G/Y conductor version)

Resistance:



Self-extinguishing and flame retardant acc. to:
DIN VDE 0482 part 265-2-1,
EN 50265-2-1,
IEC 60332-1-2

Technical data:

Nominal voltage:	U ₀ /U 0,6/1 kV
Test voltage:	4 kV
Max. operating voltage:	A.C. and 3 phase 0,7/1,2 kV D.C. operation 0,9/1,8 kV
Peak value \hat{U}:	1,7 kV
Temperature range	
<i>Fixed laying:</i>	- 40 °C up to + 70 °C
<i>Flexible application:</i>	- 5 °C up to + 70 °C
Max. temperature on conductor:	+ 90°C
Max. temperature in short circuit:	+ 250 °C
Min. bending radius	
<i>Fixed laying:</i>	up to 12 mm: 5 x d > 12 to 20 mm: 7,5 x d > 20 mm: 10 x d
<i>Flexible application:</i>	up to 12 mm: 10 x d > 12 to 20 mm: 15 x d > 20 mm: 2 0 x d
Insulation resistance:	min. 200 MOhm x km
Radiation resistance:	up to 80x10 ⁶ cJ/kg
Coupling resistance:	depending on the cross-section: max. 250 Ohm/km
Mutual capacitance (4 conductors version):	depending on the cross-section core/core 70 to 250 nF/km core/screen 110 to 410 nF/km

Features:

installation in hazardous areas
acc. to DIN VDE 0250
EMC (electromagnetic compatibility)
acc. to EN 55011 and DIN VDE 0875 part 11
low mutual capacitance
low coupling resistance
RoHS and CE approval

On request is possible:

2XSLCH-J Halogen-free Version

Insulation: XLPE special compound, acc. to IEC 60502-4 (max. core temperature + 90°C)

Outer Sheath: special type SHF1 (HM2)
acc. to IEC 60092-353



Applications:

suitable for motor power supply for the frequency converters, used in automotive and food industry, packaging industry, machine tools and handling equipment

GAALFLEX® VFD CABLES

GAALFLEX® VFD 2YSLCY-J

Inverter, connection to frequency converters, 0,6/1 kV



Part no.	No. of cores x cross section n x mm ²	Outer-Ø ca. mm ± 10%	Copper weight kg/km	Cable weight approx. kg/km	AWG no. *)
33010GT2041M15	4 G 1,5	11,1	95	226	16
33010GT2041M25	4 G 2,5	12,5	150	290	14
33010GT2041M40	4 G 4	14,2	235	444	12
33010GT2041M60	4 G 6	16	320	569	10
33010GT2041M61	4 G 10	19,5	533	803	8
33010GT2041M62	4 G 16	22	789	1195	6
33010GT2041M63	4 G 25	26	1236	1710	4
33010GT2041M64	4 G 35	28,8	1662	2390	2
33010GT2041M65	4 G 50	33,6	2345	2867	1
33010GT2041M66	4 G 70	38,7	3196	3830	2/0
33010GT2041M67	4 G 95	42,9	4316	5010	3/0
33010GT2041M68	4 G 120	48	5435	6227	4/0
33010GT2041M69	4 G 150	54	6394	7002	250 MCM
33010GT2041M70	4 G 185	59	7639	8347	350 MCM
33010GT2041M71	4 G 240	67	10013	10989	450 MCM
33010GT2041M72	4 G 300	71,5	12570	13800	550 MCM
33010GS2037M15	3 x 1,5 + 3 G 0,25	10,2	89	195	16 / 22
33010GS2037M25	3 x 2,5 + 3 G 0,5	11,5	144	240	14 / 20
33010GS2037M40	3 x 4 + 3 G 0,75	12,9	224	373	12 / 19
33010GS2037M60	3 x 6 + 3 G 1	15	298	480	10 / 18
33010GS2037M61	3 x 10 + 3 G 1,5	18,7	491	650	8 / 16
33010GS2037M62	3 x 16 + 3 G 2,5	21,1	723	871	6 / 14
33010GS2037M63	3 x 25 + 3 G 4	25,2	1138	1328	4 / 12
33010GS2037M64	3 x 35 + 3 G 6	27,7	1535	1799	2 / 10
33010GS2037M65	3 x 50 + 3 G 10	32	2182	2555	1 / 8
33010GS2037M66	3 x 70 + 3 G 10	36,3	2871	3170	2/0 / 8
33010GS2037M67	3 x 95 + 3 G 16	40,2	3953	4319	3/0 / 6
33010GS2037M68	3 x 120 + 3 G 16	44,7	4836	5154	4/0 / 6
33010GS2037M69	3 x 150 + 3 G 25	50	5412	6687	250 MCM / 4
33010GS2037M70	3 x 185 + 3 G 35	55,2	7023	8211	350 MCM / 2
33010GS2037M71	3 x 240 + 3 G 42,5	61,1	8808	9733	450 MCM / 1
33010GS2037M72	3 x 300 + 3 G 50	69	11050	13450	550 MCM / 1

Other dimension and colours available on request.

GAALFLEX® VFD 2YSLCYK-J

Inverter, connection to frequency converters, UV Resistant, 0,6/1 kV



Construction:

Conductor:	flexible red copper conductor Cl. 5, acc to IEC 60228, DIN VDE 0295
Insulation:	PE compound
Cores color:	acc. to DIN VDE 0293-308, HD 308 S2 3 conductors + 3 earth conductors: grey, brown, black and green/yellow divided in interstices 4 cores: green/yellow, brown, black, grey
Stranding:	in layers
Screen:	aluminium tape + PETP foil and tinned copper braid
Outer Sheath:	black (similar RAL 9005), PVC compound

Resistance:



Self-extinguishing and flame retardant acc. to:
DIN VDE 0482 part 265-2-1,
EN 50265-2-1,
IEC 60332-1-2

Technical data:

Nominal voltage:	U ₀ /U 0,6/1 kV
Test voltage:	4 kV
Max. operating voltage:	A.C. and 3 phase 0,7/1,2 kV D.C. operation 0,9/1,8 kV
Peak value \hat{U}:	1,7 kV
Temperature range	
<i>Fixed laying:</i>	- 40 °C up to + 70 °C
<i>Flexible installation:</i>	- 5 °C up to + 70 °C
Max. temperature on conductor:	+ 90°C
Max. temperature in short circuit:	+ 250 °C
Min. bending radius:	
<i>Fixed laying:</i>	up to 12 mm: 5 x d > 12 to 20 mm: 7,5 x d > 20 mm: 10 x d
<i>Flexible application:</i>	up to 12 mm: 10 x d > 12 to 20 mm: 15 x d > 20 mm: 20 x d
Insulation resistance:	min. 200 MOhm x km
Radiation resistance:	up to 80x10 ⁶ cJ/kg
Coupling resistance:	depending on the cross-section: max. 250 Ohm/km
Mutual capacitance (4 conductors version):	depending on the cross-section core/core 70 to 250 nF/km core/screen 110 to 410 nF/km

Features:

Suitable for Mining applications!

UV resistant
outdoor use
acc. to DIN VDE 0250
EMC (electromagnetic compatibility)
acc. to EN 55011 and DIN VDE 0875 part 11
low mutual capacitance
low coupling resistance
RoHS and CE approval

On request is possible:
2XSLCHK-J Halogen-free Version
Insulation: XLPE special compound. acc. to IEC 60502-4
(max. core temperature + 90°C)
Outer Sheath: special type SHF1 (HM2)
acc. to IEC 60092-353



Applications:

suitable for motor power supply for the frequency converters, used in automotive and food industry, packaging industry, machine tools and handling equipment

GAALFLEX® VFD CABLES

GAALFLEX® VFD 2YSLCYK-J

Inverter, connection to frequency converters, UV Resistant, 0,6/1 kV

ELETTROTEK KABEL® GAALFLEX® VFD 2YSLCYK-J



ELETTROTEK KABEL® GAALFLEX® VFD 2YSLCYK-J



Part no.	No. of cores x cross section n x mm ²	Outer-Ø ca. mm ± 10%	Copper weight kg/km	Cable weight approx. kg/km	AWG no. *)
33020G72041M15	4 G 1,5	11,1	95	226	16
33020G72041M25	4 G 2,5	12,5	150	290	14
33020G72041M40	4 G 4	14,5	235	444	12
33020G72041M60	4 G 6	15,9	320	569	10
33020G72041M61	4 G 10	19,5	533	813	8
33020G72041M62	4 G 16	22,1	789	1195	6
33020G72041M63	4 G 25	25,9	1236	1710	4
33020G72041M64	4 G 35	28,8	1662	2390	2
33020G72041M65	4 G 50	33,7	2345	2867	1
33020G72041M66	4 G 70	38,7	3196	3830	2/0
33020G72041M67	4 G 95	42,9	4316	5023	3/0
33020G72041M68	4 G 120	48,1	5435	6243	4/0
33020G72041M69	4 G 150	54	6394	7015	250 MCM
33020G72041M70	4 G 185	59	7639	8362	350 MCM
33020G72041M71	4 G 240	67	10013	11036	450 MCM
33020G72041M72	4 G 300	71,5	12570	13800	550 MCM
33020G72037M15	3 x 1,5 + 3 G 0,25	10,8	89	195	16 / 22
33020G72037M25	3 x 2,5 + 3 G 0,5	12,2	144	240	14 / 20
33020G72037M40	3 x 4 + 3 G 0,75	13,9	224	373	12 / 19
33020G72037M60	3 x 6 + 3 G 1	15	298	480	10 / 18
33020G72037M61	3 x 10 + 3 G 1,5	18,7	491	650	8 / 16
33020G72037M62	3 x 16 + 3 G 2,5	21,2	723	871	6 / 14
33020G72037M63	3 x 25 + 3 G 4	25,3	1137	1328	4 / 12
33020G72037M64	3 x 35 + 3 G 6	27,7	1535	1799	2 / 10
33020G72037M65	3 x 50 + 3 G 10	32,1	2182	2555	1 / 8
33020G72037M66	3 x 70 + 3 G 10	36,3	2871	3170	2/0 / 8
33020G72037M67	3 x 95 + 3 G 16	40,3	3953	4319	3/0 / 6
33020G72037M68	3 x 120 + 3 G 16	44,7	4836	5154	4/0 / 6
33020G72037M69	3 x 150 + 3 G 25	50	5412	6687	250 MCM / 4
33020G72037M70	3 x 185 + 3 G 35	54,9	7023	8211	350 MCM / 2
33020G72037M71	3 x 240 + 3 G 50	60,8	8808	9733	450 MCM / 1
33020G72037M72	3 x 300 + 3 G 50	69	11050	13450	550 MCM / 1

Other dimension and colours available on request.

GAALFLEX® VFD 1000 (2YSLCYK-J UL)

Inverter, connection to frequency converters, UV Resistant, 0,6/1 kV



ELETTROTEK KABEL® GAALFLEX® VFD 1000 (2YSLCYK-J UL)
 AWM Style 2570 1000V 80°C VW-1
 AWM //II A/B 1000 V 80° FT-1



ELETTROTEK KABEL® GAALFLEX® VFD 1000 (2YSLCYK-J UL)
 AWM Style 2570 1000V 80°C VW-1
 AWM //II A/B 1000 V 80° FT-1



Construction:

Conductor:	flexible red copper conductor Cl. 5, acc to IEC 60228, DIN VDE 0295
Insulation:	PE compound
Cores color:	acc. to DIN VDE 0293-308, HD 308 S2 3 conductors + 3 earth conductors: grey, brown, black and green/yellow divided in interstices 4 cores: green/yellow, brown, black, grey
Stranding:	in layers
Screen:	aluminium tape + PETP foil and tinned copper braid
Outer Sheath:	black (similar RAL 9005), PVC compound

Resistance:



Self-extinguishing and flame retardant acc. to:
 DIN VDE 0482 part 265-2-1,
 EN 50265-2-1,
 IEC 60332-1-2

Technical data:

Nominal voltage:	U ₀ /U 0,6/1 kV
Nominal voltage UL:	1000 V
Test voltage:	4 kV
Max. operating voltage:	A.C. and 3 phase 0,7/1,2 kV D.C. operation 0,9/1,8 kV
Peak value \hat{U}:	1,7 kV
Temperature range	
<i>Fixed laying:</i>	- 40 °C up to + 70 °C
<i>Flexible installation:</i>	- 5 °C up to + 70 °C
Temperature range UL:	
<i>Fixed laying:</i>	+ 80 °C
<i>Flexible application:</i>	+ 80 °C
Max. temperature on conductor:	+ 90°C
Max. temperature in short circuit:	+ 250 °C
Min. bending radius	
<i>Fixed laying:</i>	up to 12 mm: 5 x d > 12 to 20 mm: 7,5 x d > 20 mm: 10 x d
<i>Flexible installation:</i>	up to 12 mm: 10 x d > 12 to 20 mm: 15 x d > 20 mm: 20 x d
Insulation resistance:	min. 200 MOhm x km
Radiation resistance:	up to 80x10 ⁶ cJ/kg
Coupling resistance:	depending on the cross-section: max. 250 Ohm/km
Mutual capacitance (4 conductors version):	depending on the cross-section core/core 70 to 250 nF/km core/screen 110 to 410 nF/km

Features:

- UV resistant
- outdoor use
- acc. to DIN VDE 0250
- EMC (electromagnetic compatibility)
- acc. to EN 55011 and DIN VDE 0875 part 11
- low mutual capacitance
- low coupling resistance
- AWM Style 2570 1000 V 80°C VW-1
- AWM //II A/B 1000 V 80° FT-1

RoHS and CE approval



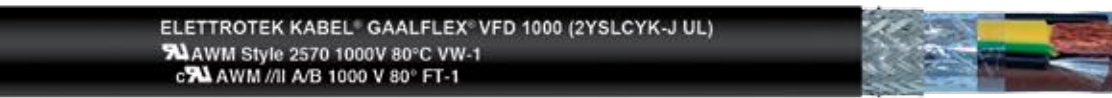
Applications:

suitable for motor power supply for the frequency converters, used in automotive and food industry, packaging industry, machine tools and handling equipment

GAALFLEX® VFD CABLES

GAALFLEX® VFD 1000 (2YSLCYK-J UL)

Inverter, connection to frequency converters, UV Resistant, 0,6/1 kV



Part no.	No. of cores x cross section n x mm ²	Outer-Ø ca. mm ± 10%	Copper weight kg/km	Cable weight approx. kg/km	AWG no. *)
33150H72041A16	4 G 1,5	10,4	95	230	16
33150H72041A14	4 G 2,5	12,5	150	300	14
33150H72041A12	4 G 4	14,2	235	485	12
33150H72041A10	4 G 6	15,2	320	630	10
33150H72041A08	4 G 10	19,5	533	860	8
33150H72041A06	4 G 16	22,9	789	1290	6
33150H72041A04	4 G 25	27,1	1236	1860	4
33150H72041A02	4 G 35	29,6	1662	2610	2
33150H72041A01	4 G 50	35,2	2345	2950	1
33150H72041A2C	4 G 70	41,4	3196	3950	2/0
33150H72041A3C	4 G 95	46,0	4316	5300	3/0
33150H72041A4C	4 G 120	50,8	5435	6600	4/0
33150H72041A5C	4 G 150	58,3	6394	7040	250 MCM
33150H72041A7C	4 G 185	65,5	7639	8380	350 MCM
33150H72041A9C	4 G 240	67,0	10013	11010	450 MCM
33150H72041ABC	4 G 300	71,5	12570	13800	550 MCM
33150H72037A16	3 x 1,5 + 3 G 0,25	10	86	140	16 / 22
33150H72037A14	3 x 2,5 + 3 G 0,5	11,4	144	220	14 / 20
33150H72037A12	3 x 4 + 3 G 0,75	13	224	323	12 / 19
33150H72037A10	3 x 6 + 3 G 1	15	298	420	10 / 18
33150H72037A08	3 x 10 + 3 G 1,5	18,4	491	615	8 / 16
33150H72037A06	3 x 16 + 3 G 2,5	21	723	819	6 / 14
33150H72037A04	3 x 25 + 3 G 4	25,3	1138	1325	4 / 12
33150H72037A02	3 x 35 + 3 G 6	27,8	1535	1718	2 / 10
33150H72037A01	3 x 50 + 3 G 10	32,6	2208	2399	1 / 8
33150H72037A2C	3 x 70 + 3 G 10	38,1	2871	3056	2/0 / 8
33150H72037A3C	3 x 95 + 3 G 16	41	3953	4162	3/0 / 6
33150H72037A4C	3 x 120 + 3 G 16	46,4	4836	5075	4/0 / 6
33150H72037A5C	3 x 150 + 3 G 25	53,5	5412	6128	250 MCM / 4
33150H72037A7C	3 x 185 + 3 G 35	59,5	6969	7189	350 MCM / 2
33150H72037A9C	3 x 240 + 3 G 42,5	65,1	8540	9540	450 MCM / 1
33150H72037ABC	3 x 300 + 3 G 50	69,5	11050	11560	550 MCM / 1

Other dimension and colours available on request.

GAALFLEX® VFD I 300 A

Inverter, connection to frequency converters, UV Resistant, acc. to BS 5467



Construction:

Conductor:	flexible red copper conductor Cl. 5, acc to IEC 60228, DIN VDE 0295
Insulation:	GAALTHERM® 580
Cores color:	acc. to DIN VDE 0293-308, HD 308 S2 3 conductors + 3 earth conductors: grey, brown, black and green/yellow divided in interstices 4 cores: green/yellow, brown, black, grey
Stranding:	in layers
Screen:	aluminium tape + PETP foil and tinned copper braid
Inner Sheath:	black (RAL 9005), special PVC compound
Armouring:	steel wires
Outer Sheath:	black (similar RAL 9005), special PVC compound

Resistance:



Self-extinguishing and flame retardant acc. to:
DIN VDE 0482 part 265-2-1,
EN 50265-2-1,
IEC 60332-1-2

Technical data:

Nominal voltage:	U ₀ /U 0,6/1 kV
Test voltage:	4 kV
Max. operating voltage:	A.C. and 3 phase 0,7/1,2 kV D.C. operation 0,9/1,8 kV
Peak value \hat{U}:	1,7 kV
Temperature range	
<i>Fixed laying:</i>	- 40 °C up to + 70 °C
<i>Flexible installation:</i>	- 5 °C up to + 70 °C
Max. temperature on conductor:	+ 90°C
Max. temperature in short circuit:	+ 250 °C
Min. bending radius:	12 x d
Insulation resistance:	min. 200 MOhm x km
Radiation resistance:	up to 80x10 ⁸ cJ/kg
Coupling resistance:	depending on the cross-section: max. 250 Ohm/km
Mutual capacitance (4 conductors version):	depending on the cross-section core/core 70 to 250 nF/km core/screen 110 to 410 nF/km

Features:

UV resistant
outdoor use
acc. to DIN VDE 0250
EMC (electromagnetic compatibility)
acc. to EN 55011 and DIN VDE 0875 part 11
low mutual capacitance
low coupling resistance
acc. to BS 5467
RoHS and CE approval



GAALFLEX® VFD CABLES

GAALFLEX® VFD I 300 A

Inverter, connection to frequency converters, UV Resistant, acc. to BS 5467



Part no.	No. of cores x cross section n x mm ²	Outer-Ø ca. mm ± 10%	Copper weight kg/km	Cable weight approx. kg/km	AWG no. *)
33030G72041M15	4 G 1,5	12,2	95	265	16
33030G72041M25	4 G 2,5	14,1	150	345	14
33030G72041M40	4 G 4	16,7	235	560	12
33030G72041M60	4 G 6	16,4	320	730	10
33030G72041M61	4 G 10	18,9	533	995	8
33030G72041M62	4 G 16	26,9	789	1485	6
33030G72041M63	4 G 25	31	1236	2145	4
33030G72041M64	4 G 35	35,3	1662	3000	2
33030G72041M65	4 G 50	41,5	2345	3400	1
33030G72041M66	4 G 70	48,6	3196	4550	2/0
33030G72041M67	4 G 95	54,9	4316	6100	3/0
33030G72041M68	4 G 120	59,7	5435	7600	4/0
33030G72041M69	4 G 150	66,1	6394	8100	250 MCM
33030G72041M70	4 G 185	70,3	7639	9640	350 MCM
33030G72041M71	4 G 240	77,1	10013	12660	450 MCM
33030G72041M72	4 G 300	82,2	12570	15870	550 MCM
33030G72037M15	3 x 1,5 + 3 G 0,25	11,7	86	160	16 / 22
33030G72037M25	3 x 2,5 + 3 G 0,5	13,1	144	255	14 / 20
33030G72037M40	3 x 4 + 3 G 0,75	15	224	371	12 / 19
33030G72037M60	3 x 6 + 3 G 1	17,2	298	485	10 / 18
33030G72037M61	3 x 10 + 3 G 1,5	21,2	491	710	8 / 16
33030G72037M62	3 x 16 + 3 G 2,5	24,9	723	819	6 / 14
33030G72037M63	3 x 25 + 3 G 4	29,1	1138	945	4 / 12
33030G72037M64	3 x 35 + 3 G 6	32	1535	1975	2 / 10
33030G72037M65	3 x 50 + 3 G 10	37,5	2208	2760	1 / 8
33030G72037M66	3 x 70 + 3 G 10	44,9	2871	3514	2/0 / 8
33030G72037M67	3 x 95 + 3 G 16	50,9	3953	4790	3/0 / 6
33030G72037M68	3 x 120 + 3 G 16	53,2	4836	5835	4/0 / 6
33030G72037M69	3 x 150 + 3 G 25	61,5	5412	7050	250 MCM / 4
33030G72037M70	3 x 185 + 3 G 35	68,4	6969	8270	350 MCM / 2
33030G72037M71	3 x 240 + 3 G 42,5	75	8540	10975	450 MCM / 1
33030G72037M72	3 x 300 + 3 G 50	79,9	11050	13295	550 MCM / 1

Other dimension and colours available on request.

GAALFLEX® VFD 2XSLCYK-J

Inverter, connection to frequency converters, UV Resistant, 0,6/1 kV

ELETTROTEK KABEL® GAALFLEX® VFD 2XSLCYK-J



ELETTROTEK KABEL® GAALFLEX® VFD 2XSLCYK-J



Construction:

Conductor:	flexible red copper conductor Cl. 5, acc to IEC 60228, DIN VDE 0295
Insulation:	special XLPE compound
Cores color:	acc. to DIN VDE 0293-308, HD 308 S2 3 conductors + 3 earth conductors: grey, brown, black and green/yellow divided in interstices 4 cores: green/yellow, brown, black, grey
Stranding:	in layers
Screen:	aluminium tape + PETP foil and tinned copper braid
Outer Sheath:	black (similar RAL 9005), special PVC compound

Resistance:



Self-extinguishing and flame retardant acc. to:
DIN VDE 0482 part 265-2-1,
EN 50265-2-1,
IEC 60332-1-2

Technical data:

Nominal voltage:	U ₀ /U 0,6/1 kV
Test voltage:	4 kV
Max. operating voltage:	A.C. and 3 phase 0,7/1,2 kV D.C. operation 0,9/1,8 kV
Peak value \hat{U}:	1,7 kV
Temperature range	
<i>Fixed laying:</i>	- 40 °C up to + 70 °C
<i>Flexible installation:</i>	- 15 °C up to + 70 °C
Max. temperature on conductor:	+ 90°C
Max. temperature in short circuit:	+ 250 °C
Min. bending radius	
<i>Fixed laying:</i>	up to 12 mm: 5 x d > 12 to 20 mm: 7,5 x d > 20 mm: 10 x d
<i>Flexible application:</i>	up to 12 mm: 10 x d > 12 to 20 mm: 15 x d > 20 mm: 20 x d
Insulation resistance:	min. 200 MOhm x km
Radiation resistance:	up to 80x10 ⁶ cJ/kg
Coupling resistance:	depending on the cross-section: max. 250 Ohm/km
Mutual capacitance (4 conductors version):	depending on the cross-section core/core 70 to 250 nF/km core/screen 110 to 410 nF/km

Features:

Suitable for Mining applications!

- UV resistant
- outdoor use
- acc. to DIN VDE 0250
- EMC (electromagnetic compatibility)
- acc. to EN 55011 and DIN VDE 0875 part 11
- low mutual capacitance
- low coupling resistance
- installation in hazardous areas
- low coupling resistance for high electromagnetic compatibility
- RoHS and CE approval



Applications:

suitable in plants and buildings, as a supply and connecting cable for medium mechanical stresses in fixed installations and forced movements in dry, moist and wet environments for outdoor applications. Used in the automobile industry, food industry, environmental engineering, packaging industry, toolmaking machinery, handling equipment, for SIMOVERT drivers, they are particularly suitable for use with industrial pumps, ventilators, conveyor belts and air-conditioning installations and similar applications.

GAALFLEX® VFD CABLES

GAALFLEX® VFD 2XSLCYK-J

Inverter, connection to frequency converters, UV Resistant, 0,6/1 kV

ELETTROTEK KABEL® GAALFLEX® VFD 2XSLCYK-J



ELETTROTEK KABEL® GAALFLEX® VFD 2XSLCYK-J



Part no.	No. of cores x cross section n x mm ²	Outer-Ø ca. mm ± 10%	Copper weight kg/km	Cable weight approx. kg/km	AWG no. *)
33040G72041M15	4 G 1,5	11,3	95	230	16
33040G72041M25	4 G 2,5	12,4	150	300	14
33040G72041M40	4 G 4	13,6	235	485	12
33040G72041M60	4 G 6	14,8	320	630	10
33040G72041M61	4 G 10	17,5	533	860	8
33040G72041M62	4 G 16	20,2	789	1290	6
33040G72041M63	4 G 25	24,8	1236	1860	4
33040G72041M64	4 G 35	27,4	1662	2610	2
33040G72041M65	4 G 50	32,0	2345	2950	1
33040G72041M66	4 G 70	37,1	3196	3950	2/0
33040G72041M67	4 G 95	41,6	4316	5300	3/0
33040G72041M68	4 G 120	45,2	5435	6600	4/0
33040G72041M69	4 G 150	52,0	6394	7040	250 MCM
33040G72041M70	4 G 185	58,1	7639	8380	350 MCM
33040G72041M71	4 G 240	66,1	10020	11300	450 MCM
33040G72041M72	4 G 300	71,5	12570	13800	550 MCM
33040G72037M15	3 x 1,5 + 3 G 0,25	12	91	234	16 / 24
33040G72037M25	3 x 2,5 + 3 G 0,5	13	152	282	14 / 20
33040G72037M40	3 x 4 + 3 G 0,75	14	224	447	12 / 19
33040G72037M60	3 x 6 + 3 G 1	16	298	575	10 / 18
33040G72037M61	3 x 10 + 3 G 1,5	18	491	650	8 / 16
33040G72037M62	3 x 16 + 3 G 2,5	20	723	846	6 / 14
33040G72037M63	3 x 25 + 3 G 4	24	1204	1325	4 / 12
33040G72037M64	3 x 35 + 3 G 6	26	1535	1840	2 / 10
33040G72037M65	3 x 50 + 3 G 10	30	2156	2718	1 / 8
33040G72037M66	3 x 70 + 3 G 10	34	2980	3470	2/0 / 8
33040G72037M67	3 x 95 + 3 G 16	37	3953	4540	3/0 / 6
33040G72037M68	3 x 120 + 3 G 16	42	4836	5865	4/0 / 6
33040G72037M69	3 x 150 + 3 G 25	46	5412	6490	250 MCM / 4
33040G72037M70	3 x 185 + 3 G 35	51	7329	8595	350 MCM / 2
33040G72037M71	3 x 240 + 3 G 42,5	59	10230	11720	450 MCM / 1
33040G72037M72	3 x 300 + 3 G 50	65	11050	13380	550 MCM / 1

Other dimension and colours available on request.

GAALFLEX® VFD 2XSLCHK-J

Inverter, connection to frequency converters, UV Resistant, halogen-free, 0,6/1 kV



ELETTROTEK KABEL® GAALFLEX® VFD 2XSLCHK-J



ELETTROTEK KABEL® GAALFLEX® VFD 2XSLCHK-J



Construction:

Conductor:	flexible red copper conductor Cl. 5, acc to IEC 60228, DIN VDE 0295
Insulation:	special XLPE compound
Cores color:	acc. to DIN VDE 0293-308, HD 308 S2 3 conductors + 3 earth conductors: grey, brown, black and green/yellow divided in interstices 4 cores: green/yellow, brown, black, grey
Stranding:	in layers
Screen:	aluminium tape + PETP foil and tinned copper braid
Outer Sheath:	black (similar RAL 9005), special halogen-free compound

Resistance:



Self-extinguishing and flame retardant acc. to:

DIN VDE 0482 part 265-2-1,
EN 50265-2-1,
IEC 60332-1-2,
DIN VDE 0482 part 266-4-2,
EN 50266-4-2,
IEC 60332-3-24



Halogen-free acc. to:

DIN VDE 0482, part 267
EN 50267-2-1,
IEC 60754-1



Corrosiveness of conflagration gases acc. to:

DIN VDE 0482 part 267
EN 50267-2-2
IEC 60754-2



Low smoke density acc. to:

DIN VDE 0482 part. 268-1-2
IEC 61034-1-2

Technical data:

Nominal voltage:	U ₀ /U 0,6/1 kV
Test voltage:	4 kV
Max. operating voltage:	A.C. and 3 phase 0,7/1,2 kV D.C. operation 0,9/1,8 kV
Peak value \hat{U}:	1,7 kV
Temperature range	
<i>Fixed laying:</i>	- 40 °C up to + 90 °C
<i>Flexible installation:</i>	- 15 °C up to + 90 °C
Max. temperature on conductor:	+ 90°C
Max. temperature in short circuit:	+ 250 °C
Min. bending radius	
<i>Fixed laying:</i>	up to 12 mm: 5 x d > 12 to 20 mm: 7,5 x d > 20 mm: 10 x d
<i>Flexible application:</i>	up to 12 mm: 10 x d > 12 to 20 mm: 15 x d > 20 mm: 20 x d
Insulation resistance:	min. 200 MOhm x km
Radiation resistance:	up to 80x10 ⁶ cJ/kg
Coupling resistance:	depending on the cross-section: max. 250 Ohm/km
Mutual capacitance (4 conductors version):	depending on the cross-section core/core 70 to 250 nF/km core/screen 110 to 410 nF/km

Features:

Suitable for Mining applications!

- UV resistant
- outdoor use
- acc. to DIN VDE 0250
- EMC (electromagnetic compatibility)
- acc. to EN 55011 and DIN VDE 0875 part 11
- low mutual capacitance
- low coupling resistance
- installation in hazardous areas
- low coupling resistance for high electromagnetic compatibility
- RoHS and CE approval



Applications:

suitable in plants and buildings, as a supply and connecting cable for medium mechanical stresses in fixed installations and forced movements in dry, moist and wet environments for outdoor applications. Used in the automobile industry, food industry, environmental engineering, packaging industry, toolmaking machinery, handling equipment, for SIMOVERT drivers, they are particularly suitable for use with industrial pumps, ventilators, conveyor belts and air-conditioning installations and similar applications.

GAALFLEX® VFD CABLES

GAALFLEX® VFD 2XSLCHK-J

Inverter, connection to frequency converters, UV Resistant, halogen-free, 0,6/1 kV



Part no.	No. of cores x cross section n x mm ²	Outer-Ø ca. mm ± 10%	Copper weight kg/km	Cable weight approx. kg/km	AWG no. *)
33050G72041M15	4 G 1,5	11,3	95	230	16
33050G72071M15	7 G 1,5	12,9	151	310	16
33050G72041M25	4 G 2,5	12,4	150	300	14
33050G72071M25	7 G 2,5	14	265	450	14
33050G72041M40	4 G 4	13,6	235	485	12
33050G72041M60	4 G 6	14,8	320	630	10
33050G72041M61	4 G 10	19,3	533	794	8
33050G72041M62	4 G 16	22,6	789	1138	6
33050G72041M63	4 G 25	26,9	1236	1843	4
33050G72041M64	4 G 35	30,2	1662	2610	2
33050G72041M65	4 G 50	35,5	2345	2933	1
33050G72041M66	4 G 70	40,1	3196	3940	2/0
33050G72041M67	4 G 95	44,8	4316	5270	3/0
33050G72041M68	4 G 120	49,6	5435	6558	4/0
33050G72041M69	4 G 150	55,5	6394	7078	250 MCM
33050G72041M70	4 G 185	62,6	7639	8408	350 MCM
33050G72041M71	4 G 240	66,6	10017	11113	450 MCM
33050G72041M72	4 G 300	71,5	12570	13800	550 MCM
33050G72037M15	3 x 1,5 + 3 G 0,25	10,8	89	186	16 / 24
33050G72037M25	3 x 2,5 + 3 G 0,5	11,8	148	252	14 / 20
33050G72037M40	3 x 4 + 3 G 0,75	12,9	224	384	12 / 19
33050G72037M60	3 x 6 + 3 G 1	14,6	298	501	10 / 18
33050G72037M61	3 x 10 + 3 G 1,5	16,6	491	630	8 / 16
33050G72037M62	3 x 16 + 3 G 2,5	19,3	723	845	6 / 14
33050G72037M63	3 x 25 + 3 G 4	22,9	1137	1322	4 / 12
33050G72037M64	3 x 35 + 3 G 6	25,1	1535	1782	2 / 10
33050G72037M65	3 x 50 + 3 G 10	30,1	2182	2559	1 / 8
33050G72037M66	3 x 70 + 3 G 10	34,5	2871	3325	2/0 / 8
33050G72037M67	3 x 95 + 3 G 16	38,9	3953	4566	3/0 / 6
33050G72037M68	3 x 120 + 3 G 16	42,1	4836	5609	4/0 / 6
33050G72037M69	3 x 150 + 3 G 25	47,5	5412	6301	250 MCM / 4
33050G72037M70	3 x 185 + 3 G 35	52,3	7023	7892	350 MCM / 2
33050G72037M71	3 x 240 + 3 G 42,5	58,2	9130	10358	450 MCM / 1
33050G72037M72	3 x 300 + 3 G 50	69,5	11050	11560	550 MCM / 1

Other dimension and colours available on request.

GAALFLEX® VFD 1100 PH

Inverter, connection to frequency converters, UV Resistant, halogen-free, 0,6/1 kV



Construction:

Conductor:	flexible red copper conductor Cl. 5, acc to IEC 60228, DIN VDE 0295
Insulation:	GAALTHERM® 630
Cores color:	acc. to DIN VDE 0293-308, HD 308 S2 3 conductors + 3 earth conductors: grey, brown, black and green/yellow divided in interstices 4 cores: green/yellow, brown, black, grey
Stranding:	in layers
Screen:	aluminium tape + PETP foil and tinned copper braid
Outer Sheath:	black (similar RAL 9005) special PUR compound

Technical data:

Nominal voltage:	U ₀ /U 0,6/1 kV
Test voltage:	4 kV
Max. operating voltage:	A.C. and 3 phase 0,7/1,2 kV D.C. operation 0,9/1,8 kV
Peak value \hat{U}:	1,7 kV
Temperature range	
<i>Fixed laying:</i>	- 50 °C up to + 90 °C
<i>Flexible installation:</i>	- 40 °C up to + 90 °C
Max. temperature on conductor:	+ 90°C
Max. temperature in short circuit:	+ 250 °C
Min. bending radius	
<i>Fixed laying:</i>	up to 12 mm: 5 x d > 12 to 20 mm: 7,5 x d > 20 mm: 10 x d
<i>Flexible applicaton:</i>	up to 12 mm: 10 x d > 12 to 20 mm: 15 x d > 20 mm: 20 x d
Insulation resistance:	min. 200 MOhm x km
Radiation resistance:	up to 80x10 ⁶ cJ/kg
Coupling resistance:	depending on the cross-section: max. 250 Ohm/km
Mutual capacitance (4 conductors version):	depending on the cross-section core/core 70 to 250 nF/km core/screen 110 to 410 nF/km

Resistance:



Self-extinguishing and flame retardant acc. to:
DIN VDE 0482 part 265-2-1,
EN 50265-2-1,
IEC 60332-1-2



Halogen-free acc. to:
DIN VDE 0482, part 267
EN 50267-2-1,
IEC 60754-1

Features:

NEW VERSION! FOR HEAVY APPLICATIONS

- UV resistant
- outdoor use
- acc. to DIN VDE 0250
- EMC (electromagnetic compatibility)
- acc. to EN 55011 and DIN VDE 0875 part 11
- low mutual capacitance
- low coupling resistance
- installation in hazardous areas
- low coupling resistance for high electromagnetic compatibility
- RoHS and CE approval

On request:

acc. to DIN VDE 0482 part 265-5-2 / EN 50266-5-2 / IEC 60332-3-24
identified with "5" on the 5th number of the Part. no



Applications:

suitable in plants and buildings, as a supply and connecting cable for medium mechanical stresses in fixed installations and forced movements in dry, moist and wet environments for outdoor applications. Used in the automobile industry, food industry, environmental engineering, packaging industry, toolmaking machinery, handling equipment, for SIMOVERT drivers, they are particularly suitable for use with industrial pumps, ventilators, conveyor belts and air-conditioning installations and similar applications.

GAALFLEX® VFD CABLES

GAALFLEX® VFD 1100 PH

Inverter, connection to frequency converters, UV Resistant, halogen-free, 0,6/1 kV



Part no.	No. of cores x cross section n x mm ²	Outer-Ø ca. mm ± 10%	Copper weight kg/km	Cable weight approx. kg/km	AWG no. *)
33060G72041M15	4 G 1,5	10,6	95	230	16
33060G72041M25	4 G 2,5	12,3	150	300	14
33060G72041M40	4 G 4	14,5	235	485	12
33060G72041M60	4 G 6	16,4	320	633	10
33060G72041M61	4 G 10	20,1	533	863	8
33060G72041M62	4 G 16	23,4	789	1291	6
33060G72041M63	4 G 25	27	1236	1862	4
33060G72041M64	4 G 35	30,7	1662	2611	2
33060G72041M65	4 G 50	36,1	2345	2955	1
33060G72041M66	4 G 70	42,3	3196	3953	2/0
33060G72041M67	4 G 95	47,7	4316	5304	3/0
33060G72041M68	4 G 120	51,9	5435	6604	4/0
33060G72041M69	4 G 150	57,5	6394	7043	250 MCM
33060G72041M70	4 G 185	61,1	7639	8384	350 MCM
33060G72041M71	4 G 240	67	10013	11010	450 MCM
33060G72041M72	4 G 300	71,5	12570	13800	550 MCM
33060G72037M15	3 x 1,5 + 3 G 0,25	10,2	86	140	16 / 24
33060G72037M25	3 x 2,5 + 3 G 0,5	11,4	144	220	14 / 20
33060G72037M40	3x4 +3 G 0,75	13	224	323	12 / 19
33060G72037M60	3 x 6 +3 G 1	15	298	420	10 / 18
33060G72037M61	3 x 10 + 3 G 1,5	18,4	491	615	8 / 16
33060G72037M62	3 x 16 + 3 G 2,5	21,6	723	819	6 / 14
33060G72037M63	3 x 25 + 3 G 4	25,3	1138	1325	4 / 12
33060G72037M64	3 x 35 + 3 G 6	27,8	1535	1718	2 / 10
33060G72037M65	3 x 50 + 3 G 10	32,6	2208	2399	1 / 8
33060G72037M66	3 x 70 + 3 G 10	39	2871	3056	2/0 / 8
33060G72037M67	3 x 95 +3 G 16	44,3	3953	4162	3/0 / 6
33060G72037M68	3 x 120 +3 G 16	46,3	4836	5074	4/0 / 6
33060G72037M69	3 x 150 + 3 G 25	53,5	5412	6128	250 MCM / 4
33060G72037M70	3 x 185 + 3 G 35	59,5	6969	7189	350 MCM / 2
33060G72037M71	3 x 240 +3 G 42,5	65,2	8540	9540	450 MCM / 1
33060G72037M72	3 x 300 + 3 G 50	69,5	11050	11560	550 MCM / 1

Other dimension and colours available on request.

GAALFLEX® TRAY VFD 1500 T

Inverter, connection to frequency converters, UV Resistant, UL 2277 WTTC 1000 V 90°C Dry 75°C Wet



Construction:

Conductor:	finely stranded red copper, acc.to ASTM B-3 or ASTM B-33 and B-172 or B-174
Insulation:	special PVC/Nylon compound
Cores color:	4 conductors: black conductors and green/yellow or 3 black conductors + 3 earth conductors
Stranding:	in layers
Screen:	aluminium tape + PETP foil and tinned copper braid + tinned copper drain wire
Ripcord:	high strenght ripcord under outer sheath
Outer Sheath:	black (similar RAL 9005), special TPE compound

Technical data:

Nominal voltage UL:	1000 V
Temperature range	
<i>Fixed laying:</i>	- 25 °C up to + 90 °C
<i>Flexible installation:</i>	- 25 °C up to + 90 °C
Min. bending radius	6 x D

Resistance:



Fire performance acc. to:
c(UL) FT4

Features:

- UV resistant
- outdoor use
- installation in hazardous areas
- UL Type TC-ER c(UL) Type CIC FT4, Sun Res, Oil Res I
- UL 1277 60°C 600 V WTTC and
- UL 1277, UL type TC-ER for 600 V on request
- UL 2277 WTTC 1000 V 90°C dry
- RoHS approval
- tinned copper on request
- on request MSHA approved



UL/CSA Standards:

- ASTM B-3
- ASTM B-33
- ASTM B-172
- ASTM B-174
- UL 66 basic construction, test and marking
- UL 83 600 V thermoplastic insulation
- UL 1277 60°C for Oil Res I
- CSA C22.2 No 230 for tray cable
- CSA C22.2 No 239 for control and instrumentation cable

GAALFLEX® VFD CABLES

GAALFLEX® TRAY VFD I 500 T

Inverter, connection to frequency converters, UV Resistant, UL 2277 WTTTC 1000V 90°C Dry 75°C Wet



ELETTROTEK KABEL® GAALFLEX® TRAY VFD 1500 T

UL Type TC-ER inRUJ Type CIG F1A, Sun Res, Oil Res I
UL style 2277 WTTTC 1000 V WTTTC and
UL 2277, UL type TC-ER for 600 V on request
UL style 2277 WTTTC 1000 V 90°C dry



ELETTROTEK KABEL® GAALFLEX® TRAY VFD 1500 T

UL Type TC-ER inRUJ Type CIG F1A, Sun Res, Oil Res I
UL style 2277 WTTTC 1000 V WTTTC and
UL 2277, UL type TC-ER for 600 V on request
UL style 2277 WTTTC 1000 V 90°C dry



Part no.	No. of cores x cross section n x AWG/MCM	Outer Ø inches/mm ±10%	Cable weight approx. Lbs/Mft - kg/km
33070H70041A16	4 G 16	0,395 - 10	121 - 180
33070H70041A14	4 G 14	0,435 - 11	153 - 228
33070H70041A12	4 G 12	0,475 - 12,1	197 - 293
33070H70041A10	4 G 10	0,595 - 15,1	296 - 441
33070H70041A08	4 G 8	0,73 - 18,5	440 - 654
33070H70041A06	4 G 6	0,825 - 21	609 - 907
33070H70041A04	4 G 4	1,045 - 26,5	940 - 1399
33070H70041A02	4 G 2	1,19 - 30,2	1328 - 1976
33070H70041A01	4 G 1	1,33 - 33,8	1651 - 2457
33070H70041A1C	4 G 1/0	1,425 - 36,2	1986 - 2955
33070H70041A2C	4 G 2/0	1,545 - 39,2	2405 - 3579
33070H70041A3C	4 G 3/0	1,665 - 42,3	2917 - 4340
33070H70041A4C	4 G 4/0	1,915 - 48,6	3721 - 5536
33070H70041A5C	4 G 250 MCM	2,09 - 53,1	4336 - 6452
33070H70041A6C	4 G 300 MCM	2,195 - 55,8	5036 - 7494
33070H70041A7C	4 G 350 MCM	2,33 - 59,2	5809 - 8644
33070H70041A8C	4 G 400 MCM	2,4 - 61	6442 - 9586
33070H70041AAC	4 G 500 MCM	2,615 - 66,4	7886 - 11705
33070H70037A08	3x8+3G14	0,7 - 17,8	401 - 597
33070H70037A02	3x6+3G12	0,785 - 19,9	554 - 824
33070H70037A04	3x4+3G12	0,975 - 24,8	809 - 1204
33070H70037A02	3x2+3G10	1,105 - 28,1	1147 - 1707
33070H70037A01	3x1+3G8	1,235 - 31,4	1471 - 2189
33070H70037A1C	3x1/0+3G8	1,315 - 33,4	1719 - 2558
33070H70037A2C	3x2/0+3G8	1,42 - 36,1	2032 - 3024
33070H70037A3C	3x3/0+3G6	1,53 - 38,9	2521 - 3751
33070H70037A4C	3x4/0+3G6	1,76 - 44,7	3139 - 4671
33070H70037A5C	3x250 MCM+3G6	1,915 - 48,6	3596 - 5351
33070H70037A6C	3x300 MCM+3G4	2,01 - 51,1	4296 - 6392
33070H70037A7C	3x350 MCM+3G4	2,13 - 54,1	4873 - 7521
33070H70037A8C	3x400 MCM+3G4	2,195 - 55,8	5347 - 7956
33070H70037AAC	3x500 MCM+3G2	2,39 - 60,7	6653 - 9900

Other dimension and colours available on request.

GAALFLEX® TRAY VFD 1510 T

Inverter, connection to frequency converters, UV Resistant, UL 2277 WTTC 1000 V 90°C Dry 75°C Wet



Construction:

- Conductor:** flexible red copper conductor Cl. 5, acc to IEC 60228, DIN VDE 0295
- Insulation:** special PVC/Nylon compound
- Cores color:** 4 conductors: black conductors and green/yellow or 3 black conductors + 3 earth conductors
- Stranding:** in layers
- Screen:** aluminium tape + PETP foil and tinned copper braid + tinned copper drain wire
- Ripcord:** high strength ripcord under outer sheath
- Outer Sheath:** black (similar RAL 9005), special TPE compound

Technical data:

- Nominal voltage UL:** 1000 V
- Temperature range**
- Fixed laying:* - 25 °C up to + 90 °C
- Flexible installation:* - 25 °C up to + 90 °C
- Min. bending radius** 6 x D

Resistance:



Fire performance acc. to:
c(UL) FT4

Features:

- UV resistant
- outdoor use
- installation in hazardous areas
- UL Type TC-ER c(UL) Type CIC FT4, Sun Res, Oil Res I
- UL 1277 60°C 600 V WTTC and
- UL 1277, UL type TC-ER for 600 V on request
- UL 2277 WTTC 1000 V 90°C dry
- RoHS approval
- tinned copper on request
- on request MSHA approved



UL/CSA Standards:

- ASTM B-3
- ASTM B-33
- ASTM B-172
- ASTM B-174
- UL 66 basic construction, test and marking
- UL 83 600 V thermoplastic insulation
- UL 1277 60°C for Oil Res I
- CSA C22.2 No 230 for tray cable
- CSA C22.2 No 239 for control and instrumentation cable

GAALFLEX® VFD CABLES

GAALFLEX® TRAY VFD 1510 T

Inverter, connection to frequency converters, UV Resistant, UL 2277 WTTC 1000 V 90°C Dry 75°C Wet



ELETTROTEK KABEL® GAALFLEX® TRAY VFD 1510 T

UL Type TC-ER or UL Type CIC FTA, Sun Res. Oil Res I
UL style 1277 90°C 600 V WTTC and
UL 1277, UL Type TC-ER for 600 V on request
UL style 2277 WTTC 1000 V 90°C dry



ELETTROTEK KABEL® GAALFLEX® TRAY VFD 1510 T

UL Type TC-ER or UL Type CIC FTA, Sun Res. Oil Res I
UL style 1277 90°C 600 V WTTC and
UL 1277, UL Type TC-ER for 600 V on request
UL style 2277 WTTC 1000 V 90°C dry



Part no.	No. of cores x cross section n x mm ²	Outer Ø inches/mm ±10%	Cable weight approx. Lbs/Mft - kg/km	AWG no.)*
33080H70041A16	4 G 1,5	0,395 - 10	121 - 180	16
33080H70041A14	4 G 2,5	0,435 - 11	153 - 228	14
33080H70041A12	4 G 4	0,475 - 12,1	197 - 293	12
33080H70041A10	4 G 6	0,595 - 15,1	296 - 441	10
33080H70041A08	4 G 10	0,73 - 18,5	440 - 654	8
33080H70041A06	4 G 16	0,825 - 21	609 - 907	6
33080H70041A04	4 G 25	1,045 - 26,5	940 - 1399	4
33080H70041A02	4 G 35	1,19 - 30,2	1328 - 1976	2
33080H70041A01	4 G 50	1,33- 33,8	1651 - 2457	1
33080H70041A2C	4 G 70	1,545 - 39,2	2405 - 3579	2/0
33080H70041A3C	4 G 95	1,665 - 42,3	2917 - 4340	3/0
33080H70041A4C	4 G 120	1,915 - 48,6	3721 - 5536	4/0
33080H70041A5C	4 G 150	2,09 - 53,1	4336 - 6452	250 MCM
33080H70041A7C	4 G 185	2,33 - 59,2	5809 - 8644	350 MCM
33080H70041A9C	4 G240	2,5 - 63,7	7437 - 11100	450 MCM
33080H70037A08	3x10+3G2,5	0,7 - 17,8	401 - 597	8 / 14
33080H70037A06	3x16+3G4	0,785 - 19,9	554 - 824	6 / 12
33080H70037A04	3x25+3G4	0,975 - 24,8	809 - 1204	4 / 12
33080H70037A02	3x35+3G6	1,105 - 28,1	1147 - 1707	2 / 10
33080H70037A01	3x50+3G10	1,235 - 31,4	1471 - 2189	1 / 8
33080H70037A2C	3x70+3G10	1,42 - 36,1	2032 - 3024	2/0 / 8
33080H70037A3C	3x95+3G16	1,53 - 38,9	2521 - 3751	3/0 / 6
33080H70037A4C	3x120+3G16	1,76 - 44,7	3139 - 4671	4/0 / 6
33080H70037A5C	3x150+3G16	1,915 - 48,6	3596 - 5351	250 MCM / 6
33080H70037A7C	3x185+3G25	2,13 - 54,1	4873 - 7521	350 MCM / 6
33080H70037A9C	3x240+3G35	2,26 - 57,3	6378 - 9520	450 MCM / 2

Other dimension and colours available on request.

GAALFLEX® VFD CABLES

GAALFLEX® TRAY VFD I 520

Inverter, connection to frequency converters, UV Resistant, UL 2277 WTTC 1000 V 90°C Dry 75°C Wet



Construction:

- Conductor:** flexible tinned copper conductor Cl. 5, acc. to IEC 60228, DIN VDE 0295
- Insulation:** GAALTHERM® 530
- Cores color:** 4 conductors: black conductors and green/yellow or 3 black conductors + 3 earth conductors
- Stranding:** in layers
- Screen:** aluminium tape + PETP foil and tinned copper braid + tinned copper drain wire
- Ripcord:** high strength ripcord under outer sheath
- Outer Sheath:** black (similar RAL 9005), special CPE compound

Technical data:

- Nominal voltage UL:** 1000 V
- Temperature range**
- Fixed laying:* - 25 °C up to + 90 °C
- Flexible installation:* - 25 °C up to + 90 °C
- Min. bending radius** 6 x D

Resistance:



Fire performance acc. to:
c(UL) FT4

Features:

- MSHA APPROVED
- UV resistant
- outdoor use
- installation in hazardous areas
- UL TC-ER c(UL) Type CIC FT4, Sun Res, Oil Res I
- UL 1277 60°C 600 V WTTC and UL 1277, UL type TC-ER for 600 V on request
- UL 2277 WTTC 1000 V 90°C dry
- RoHS approval



UL/CSA Standards:

- ASTM B-3
- ASTM B-33
- ASTM B-172
- ASTM B-174
- UL 66 basic construction, test and marking
- UL 83 600 V thermoplastic insulation
- UL 1277 60°C for Oil Res I
- CSA C22.2 No 230 for tray cable
- CSA C22.2 No 239 for control and instrumentation cable

GAALFLEX® VFD CABLES

GAALFLEX® TRAY VFD I 520

Inverter, connection to frequency converters, UV Resistant, UL 2277 WTTTC 1000V 90°C Dry 75°C Wet



ELETTROTEK KABEL® GAALFLEX® TRAY VFD 1520
 UL Type TC-ER c(UL) Type CJC FT4, Sun Res, Oil Res I
 UL style 1277 90°C 600 V WTTTC and
 UL 1277, UL type TC-ER for 600 V on request
 UL style 2277 WTTTC 1000 V 90°C dry



ELETTROTEK KABEL® GAALFLEX® TRAY VFD 1520
 UL Type TC-ER c(UL) Type CJC FT4, Sun Res, Oil Res I
 UL style 1277 90°C 600 V WTTTC and
 UL 1277, UL type TC-ER for 600 V on request
 UL style 2277 WTTTC 1000 V 90°C dry



Part no.	No. of cores x cross section n x mm ²	Outer Ø inches/mm ±10%	Cable weight approx. Lbs/Mft - kg/km	AWG no.)*
33090H70041A16	4 G 1,5	0,395 - 10	121 - 180	16
33090H70041A14	4 G 2,5	0,435 - 11	153 - 228	14
33090H70041A12	4 G 4	0,475 - 12,1	197 - 293	12
33090H70041A10	4 G 6	0,595 - 15,1	296 - 441	10
33090H70041A08	4 G 10	0,73 - 18,5	440 - 654	8
33090H70041A06	4 G 16	0,825 - 21	609 - 907	6
33090H70041A04	4 G 25	1,045 - 26,5	940 - 1399	4
33090H70041A02	4 G 35	1,19 - 30,2	1328 - 1976	2
33090H70041A01	4 G 50	1,33- 33,8	1651 - 2457	1
33090H70041A2C	4 G 70	1,545 - 39,2	2405 - 3579	2/0
33090H70041A3C	4 G 95	1,665 - 42,3	2917 - 4340	3/0
33090H70041A4C	4 G 120	1,915 - 48,6	3721 - 5536	4/0
33090H70041A5C	4 G 150	2,09 - 53,1	4336 - 6452	250 MCM
33090H70041A7C	4 G 185	2,33 - 59,2	5809 - 8644	350 MCM
33090H70041A9C	4 G240	2,5 - 63,7	7437 - 11100	450 MCM
33090H70037A08	3x10+3G2,5	0,7 - 17,8	401 - 597	8 / 14
33090H70037A06	3x16+3G4	0,785 - 19,9	554 - 824	6 / 12
33090H70037A04	3x25+3G4	0,975 - 24,8	809 - 1204	4 / 12
33090H70037A02	3x35+3G6	1,105 - 28,1	1147 - 1707	2 / 10
33090H70037A01	3x50+3G10	1,235 - 31,4	1471 - 2189	1 / 8
33090H70037A2C	3x70+3G10	1,42 - 36,1	2032 - 3024	2/0 / 8
33090H70037A3C	3x95+3G16	1,53 - 38,9	2521 - 3751	3/0 / 6
33090H70037A4C	3x120+3G16	1,76 - 44,7	3139 - 4671	4/0 / 6
33090H70037A5C	3x150+3G16	1,915 - 48,6	3596 - 5351	250 MCM / 6
33090H70037A7C	3x185+3G25	2,13 - 54,1	4873 - 7521	350 MCM / 6
33090H70037A9C	3x240+3G35	2,26 - 57,3	6378 - 9520	450 MCM / 2

Other dimension and colours available on request.

GAALFLEX® VFD CABLES

GAALFLEX® TRAY VFD I 400

Inverter, connection to frequency converters, UV Resistant, UL 2277 WTTC 1000 V 90°C Dry 75°C Wet



Construction:

- Conductor:** flexible red copper conductor Cl. 5, acc. to IEC 60228, DIN VDE 0295
- Insulation:** special PVC/Nylon compound
- Cores color:** 4 conductors: black conductors and green/yellow or 3 black conductors + 3 earth conductors
- Stranding:** in layers
- Screen:** aluminium tape + PETP foil and tinned copper braid + tinned copper drain wire
- Ripcord:** high strength ripcord under outer sheath
- Outer Sheath:** black (similar RAL 9005), special PVC compound

Technical data:

- Nominal voltage UL:** 1000 V
- Temperature range**
- Fixed laying:* - 25 °C up to + 90 °C
- Flexible installation:* - 25 °C up to + 90 °C
- Min. bending radius** 6 x D

Resistance:



Fire performance acc. to:
c(UL) FT4

Features:

- UV resistant
- outdoor use
- installation in hazardous areas
- UL Type TC-ER c(UL) Type CIC FT4, Sun Res, Oil Res I
- UL 1277 60°C 600 V WTTC and
- UL 1277, UL type TC-ER for 600 V on request
- UL 2277 WTTC 1000 V 90°C dry
- RoHS approval
- tinned copper on request
- on request MSHA approved



UL/CSA Standards:

- ASTM B-3
- ASTM B-33
- ASTM B-172
- ASTM B-174
- UL 66 basic construction, test and marking
- UL 83 600 V thermoplastic insulation
- UL 1277 60°C for Oil Res I
- CSA C22.2 No 230 for tray cable
- CSA C22.2 No 239 for control and instrumentation cable

GAALFLEX® VFD CABLES

GAALFLEX® TRAY VFD I 400

Inverter, connection to frequency converters, UV Resistant, UL 2277 WTTTC 1000V 90°C Dry 75°C Wet



Part no.	No. of cores x cross section n x mm ²	Outer Ø inches/mm ±10%	Cable weight approx. Lbs/Mft - kg/km	AWG no.)*
33100H70041A16	4 G 1,5	0,395 - 10	121 - 180	16
33100H70041A14	4 G 2,5	0,435 - 11	153 - 228	14
33100H70041A12	4 G 4	0,475 - 12,1	197 - 293	12
33100H70041A10	4 G 6	0,595 - 15,1	296 - 441	10
33100H70041A08	4 G 10	0,73 - 18,5	440 - 654	8
33100H70041A06	4 G 16	0,825 - 21	609 - 907	6
33100H70041A04	4 G 25	1,045 - 26,5	940 - 1399	4
33100H70041A02	4 G 35	1,19 - 30,2	1328 - 1976	2
33100H70041A01	4 G 50	1,33- 33,8	1651 - 2457	1
33100H70041A2C	4 G 70	1,545 - 39,2	2405 - 3579	2/0
33100H70041A3C	4 G 95	1,665 - 42,3	2917 - 4340	3/0
33100H70041A4C	4 G 120	1,915 - 48,6	3721 - 5536	4/0
33100H70041A5C	4 G 150	2,09 - 53,1	4336 - 6452	250 MCM
33100H70041A7C	4 G 185	2,33 - 59,2	5809 - 8644	350 MCM
33100H7004A9C	4 G240	2,5 - 63,7	7437 - 11100	450 MCM
33100H70037A08	3x10+3G2,5	0,7 - 17,8	1651 - 2457	8 / 14
33100H70037A06	3x16+3G4	0,785 - 19,9	2405 - 3579	6 / 12
33100H70037A04	3x25+3G4	0,975 - 24,8	2917 - 4340	4 / 12
33100H70037A02	3x35+3G6	1,105 - 28,1	3721 - 5536	2 / 10
33100H70037A01	3x50+3G10	1,235 - 31,4	4336 - 6452	1 / 8
33100H70037A2C	3x70+3G10	1,42 - 36,1	5809 - 8644	2/0 / 8
33100H70037A3C	3x95+3G16	1,53 - 38,9	7437 - 11100	3/0 / 6
33100H70037A4C	3x120+3G16	1,76 - 44,7	3139 - 4671	4/0 / 6
33100H70037A5C	3x150+3G16	1,915 - 48,6	3596 - 53 51	250 MCM / 6
33100H70037A7C	3x185+3G25	2,13 - 54,1	4873 - 7521	350 MCM / 6
33100H70037A9C	3x240+3G35	2,26 - 57,3	6378 - 9520	450 MCM / 2

Other dimension and colours available on request.

GAALFLEX® VFD CABLES

GAALFLEX® TRAY VFD I405

Inverter, connection to frequency converters, UV Resistant, UL 2277 WTTC 1000 V 90°C Dry or 90°C Wet or UL 2277 Flexible Motor Supply Cable 2000 V 90°C Dry up to 4/0 AWG or UL 1277 TC-ER 2000 V 90°C Dry or 90°C Wet



ELETTROTEK KABEL® GAALFLEX® TRAY VFD I405
 UL style 2277 WTTC 1000 V 90°C Dry or 90°C Wet or UL 2277 Flexible Motor Supply Cable 2000 V 90°C Dry up to 4/0 AWG
 or UL Listed Type TC-ER, 90°C DRY or WET, 2000 V, SUN RES, DIR BUR, FT4 acc. to UL 1277,
 c(UL) Listed Type CIC, FT4 acc. to CSA C22.2 No. 239



Construction:

- Conductor:** finely stranded red copper, acc.to ASTM B-3 and B-172
6 AWG and smaller acc.to ASTM B-3 and B-174
- Insulation:** GAALTHERM® 590
- Cores color:** 3 black conductors + 3 earth conductors
- Stranding:** in layers
- Screen:** aluminium tape + PETP foil and tinned copper braid + tinned copper drain wire
- Ripcord:** high strenght ripcord under outer sheath
- Outer Sheath:** black (similar RAL 9005), special PVC compound

Resistance:



Fire performance acc. to:
IEEE 1202, c(UL) FT4

Features:

- UV resistant
- outdoor use
- oil resistant
- installation in hazardous areas
- DIRECT BURIAL
- UL Listed Type TC-ER, 90°C DRY or WET, 2000V, SUN RES, DIR BUR, FT4 acc. to UL 1277, c(UL) Listed Type CIC, FT4 acc. to CSA C22.2 No. 239
- UL 2277 WTTC 1000 V 90°C Dry or 90°C Wet
- UL 2277 Flexible Motor Supply Cable 2000 V 90°C Dry up to 4/0 AWG
- on request MSHA approved
- on request tinned copper acc. to ASTM B-33
- RoHS approval



Technical data:

- Nominal voltage UL:** 2000 V
- Max. permissible Peak. voltage:** 2828 V A.C.
- Test voltage (acc. to UL 1277):**
- 14 AWG up to 8 AWG: 6000 V
 - 6 AWG up to 2 AWG: 7500 V
 - 1 AWG up to 4/0 AWG: 9000 V
 - 250 MCM up to 500 MCM: 10000 V
- Temperature range**
- Fixed laying: - 25 °C up to + 90 °C
 - Flexible installation: - 25 °C up to + 90 °C
- Min. bending radius** 6 x d

UL Standards:

- UL 44 2000 V thermoset insulation
- UL 2277 WTTC 1000 V 90°C Dry or 90°C Wet
- UL 2277 Flexible Motor Supply Cable 2000 V 90°C Dry up to 4/0 AWG
- UL 1277 Type TC-ER 2000 V 90°C Dry or 90°C Wet

Part no.	No. of cores x cross section n x AWG/MCM	Outer Ø inches/mm ±10%	Cable weight approx. Lbs/Mft - kg/km
33290170037A14	3 x 14 + 3 x 18	0,80 - 20	375 - 558
33290170037A12	3 x 12 + 3 x 16	0,82 - 20,8	410 - 610
33290170037A10	3 x 10 + 3 x 14	0,90 - 22,9	505 - 752
33290170037A08	3 x 8 + 3 x 14	0,97 - 24,63	615 - 915
33290170037A06	3 x 6 + 3 x 12	1,005 - 25,5	716 - 1065
33290170037A04	3 x 4 + 3 x 12	1,115 - 28,3	923 - 1373
33290170037A02	3 x 2 + 3 x 10	1,25 - 31,8	1273 - 1894
33290170037A01	3 x 1 + 3 x 10	1,42 - 36,1	1579 - 2350
33290170037A1C	3 x 1/0 + 3 x 10	1,515 - 38,5	1847 - 2748
33290170037A2C	3 x 2/0 + 3 x 10	1,62 - 41,1	2183 - 3248
33290170037A3C	3 x 3/0 + 3 x 8	1,735 - 44,1	2662 - 3961
33290170037A4C	3 x 4/0 + 3 x 8	1,975 - 50,2	3283 - 4885
33290170037A5C	3 x 250 + 3 x 6	2,16 - 54,9	3952 - 5881
33290170037A6C	3 x 300 + 3 x 6	2,255 - 57,3	4507 - 6706
33290170037A7C	3 x 350 + 3 x 6	2,38 - 60,5	5119 - 7617
33290170037A8C	3 x 400 + 3 x 6	2,45 - 62,2	5612 - 8351
33290170037AAC	3 x 500 + 3 x 6	2,645 - 67,2	6733 - 10019

Other dimension and colours available on request.

GAALFLEX® TRAY VFD 1410

Inverter, connection to frequency converters, UV Resistant, UL 1277 type TC-ER 2000 V 90°C Dry 90°C Wet



ELETTROTEK KABEL® GAALFLEX® TRAY VFD 1410
 UL 1277 Type TC-ER, 2000 V
 UL Type RHH or RHW-2 conductors per UL 44
 and ICEA S-95-658, NEMA WC 70
 CSA: c (UL) CIC/TC FT4



Construction:

Conductor:	stranded red copper, acc.to ASTM B-3 and ASTM B-8
Insulation:	special XLPE compound
Cores color:	acc. to ICEA S-58 679 method 4 black conductors whit number printed
Earth conductor:	stranded red copper, acc.to ASTM B-3 and ASTM B-8
Earth conductor insulation:	uninsulated
Stranding:	in layers
Screen:	red copper tape
Outer Sheath:	black (similar RAL 9005), special PVC compound

Resistance:



Flame test acc. to:

UL 1581,
 UL 2556 VW-1,
 CSA FT4,
 UL 1685 vertical flame test,
 IEEE 383, IEEE 1202 vertical tray flame test,
 ICEA T-29-520

Technical data:

Nominal voltage UL:	2000 V
Temperature range	
<i>Fixed laying:</i>	- 25 °C up to + 90 °C
<i>Flexible application:</i>	- 25 °C up to + 90 °C
Min. bending radius:	12 x d

Features:

UV resistant
 outdoor use
 installation in hazardous areas
 on request special EPR compound insulation version
 on request 4 conductor version
 UL 1277 Type TC-ER, 2000 V
 UL: type RHH or RHW-2 conductors per UL 44
 and ICEA S-95-658, NEMA WC 70
 CSA: c (UL) CIC/TC FT4
 RoHS approval
 EPA 40 CFR, part 261
 OSHA and MSHA on request



UL/CSA Standards:

UL 44 2000 V thermoplastic insulation
 UL 1277 60°C for Oil Res I
 CSA C22.2 No 230 for tray cable
 CSA C22.2 No 239 for control and instrumentation cable

GAALFLEX® VFD CABLES

GAALFLEX® TRAYVFD I410

Inverter, connection to frequency converters, UV Resistant, UL 1277 type TC-ER 2000 V 90°C Dry 90°C Wet



ELETTROTEK KABEL® GAALFLEX® TRAY VFD I410
 UL 1277 Type TC-ER, 2000 V
 UL - type RHH or RHW-2 conductors per UL 44
 and IEEE 5-95-556, NEMA WC 70
 CSA - cUL1 DRGTG F14



Part no.	No. of cores x cross section n x AWG/MCM	Outer Ø inches/mm ±10%	Copper weight		Cable weight approx.	
			Lbs/Mft -	kg/km	Lbs/Mft -	kg/km
33110171037A14	3 x 14 + 3 x 18	0,58 - 14,73	91 - 135		212 - 315	
33110171037A12	3 x 12 + 3 x 16	0,615 - 15,37	127 - 189		260 - 387	
33110171037A10	3 x 10 + 3 x 14	0,67 - 24,8	183 - 272		329 - 490	
33110171037A08	3 x 8 + 3 x 14	0,77 - 28,1	246 - 366		441 - 656	
33110171037A06	3 x 6 + 3 x 12	0,895 - 31,4	368 - 548		618 - 920	
33110171037A04	3 x 4 + 3 x 12	0,995 - 36,1	522 - 777		830 - 1235	
33110171037A02	3 x 2 + 3 x 10	1,125 - 38,9	801 - 1192		1152 - 1714	
33110171037A1C	3 x 1/0 + 3 x 6	1,385 - 35,18	1348 - 2006		1853 - 2757	
33110171037A2C	3 x 2/0 + 3 x 6	1,48 - 37,59	1616 - 2405		2169 - 3227	
33110171037A3C	3 x 3/0 + 3 x 5	1,59 - 40,39	2010 - 2991		2619 - 3897	
33110171037A4C	3 x 4/0 + 3 x 4	1,78 - 45,21	2517 - 3745		3241 - 4823	
33110171037A5C	3 x 250 + 3 x 4	1,94 - 49,28	2895 - 4308		3763 - 5599	
33110171037A7C	3 x 350 + 3 x 2	2,16 - 54,86	4089 - 6084		5109 - 7602	
33110171037AAC	3 x 500 + 3 x 1	2,45 - 62,36	5693 - 8471		6933 - 10316	

Other dimension and colours available on request.

GAALFLEX® VFD 9YSLCY-J and 9YSLCYK-J

Inverter, connection to frequency converters, (UV resistant), 0,6/1 kV



Construction:

Conductor:	flexible red copper conductor Cl. 5, acc to IEC 60228, DIN VDE 0295
Insulation:	PP compound
Cores color:	(9YSLCY-J) 4 cores: green/yellow, brown, black, grey (9YSLCYK-J) acc. to DIN VDE 0293-308, HD 308 S2 3 conductors + 3 earth conductors: grey, brown, black and green/yellow divided in interstices
Stranding:	in layers
Screen:	aluminium tape + PETP foil and tinned copper braid
Outer Sheath:	transparent, PVC type YM2 or black (similar RAL 9005), PVC compound

Resistance:



Self-extinguishing and flame retardant acc. to:
DIN VDE 0482 part 265-2-1,
EN 50265-2-1,
IEC 60332-1-2,
UL VW-1, CSA FT-1

Technical data:

Nominal voltage:	U ₀ /U 0,6/1 kV
Nominal voltage UL:	1000 V
Test voltage:	4 kV
Temperature range	
<i>Fixed laying:</i>	- 50 °C up to + 90 °C
<i>Flexible application:</i>	- 5 °C up to + 90 °C
Temperature range UL:	
<i>Fixed laying:</i>	- 40 °C up to + 80 °C
<i>Flexible application:</i>	- 5 °C up to + 80 °C
Min. bending radius	
<i>Single bending:</i>	4 x d
<i>Multiple bending:</i>	20 x d
Insulation resistance:	min. 200 MOhm x km
Transfer impedance at 30 MHz Ω/km:	< 250
Mutual capacitance (4 conductors version):	depending on the cross-section core/core 70 to 250 nF/km core/screen 110 to 410 nF/km

Features:

USA: acc. to NFPA 79 Ed 08
UV resistant (9YSLCYK-J)
outdoor use (9YSLCYK-J)
acc. to EN 61800-3
EN VDE 90°C rated PP insulation
EMC (electromagnetic compatibility)
interconnection between frequency converter and motor
used in paper, chemical and heavy industry
low coupling resistance
UL AWM Style 2570 1000 V 80°C VW-1
UL AWM //III A/B 1000 V 80° FT-1
RoHS and CE approval



Applications:

these motor power supply cables are flexible and have a special EMC performance due a double screened, low capacitance design. Ideal for frequency converters for variable speed. This cables are suitable in dry damp and wet rooms, Good resistance against acids, caustic solution, oils. Suitable for free, as well as static use, not suitable for continuously moving appliance under tensile load or if during flexing, accompanied by guidance.

GAALFLEX® VFD CABLES

GAALFLEX® VFD 9YSLCY-J and 9YSLCYK-J

Inverter, connection to frequency converters, (UV resistant), 0,6/1 kV



Part no.	No. of cores x cross section n x mm ²	Outer Ø Ca. mm ±10%	Copper weight kg/km	Cable weight approx. kg/km	AWG no.*)
33130HT2041A16	4 G 1,5	10,5	87	230	16
33130HT2041A14	4 G 2,5	11,8	133	300	14
33130HT2041A12	4 G 4	13,3	213	485	12
33130HT2041A10	4 G 6	14,9	298	630	10
33130HT2041A08	4 G 10	17,7	460	860	8
33130HT2041A06	4 G 16	21,5	707	1290	6
33130HT2041A04	4 G 25	26,3	1100	1860	4
33130HT2041A02	4 G 35	29,7	1542	2610	2
33130HT2041A01	4 G 50	34,1	2206	2950	1
33130HT2041A2C	4 G 70	40,9	3002	3950	2/0
33130HT2041A3C	4 G 95	45,4	4004	5300	3/0
33130HT2041A4C	4 G 120	49,8	5108	6600	4/0
33130HT2041A5C	4 G 150	56,1	6225	7043	250 MCM
33130HT2041A7C	4 G 185	61,4	7658	8384	350 MCM
33130HT2041A9C	4 G 240	67,9	9940	12150	450 MCM
33140H72037A16	3 x 1,5 + 3 G 0,25	11,4	88	140	16 / 24
33140H72037A14	3 x 2,5 + 3 G 0,5	12,9	130	220	14 / 20
33140H72037A12	3 x 4 + 3 G 0,75	13,6	224	323	12 / 10
33140H72037A10	3 x 6 + 3 G 1	15,2	276	420	10 / 18
33140H72037A08	3 x 10 + 3 G 1,5	17,4	511	615	8 / 16
33140H72037A06	3 x 16 + 3 G 2,5	20	751	819	6 / 14
33140H72037A04	3 x 25 + 3 G 4	24,3	1204	1325	4 / 12
33140H72037A02	3 x 35 + 3 G 6	27,5	1535	1718	2 / 10
33140H72037A01	3 x 50 + 3 G 10	31,1	2156	2399	1 / 8
33140H72037A2C	3 x 70 + 3 G 10	37,1	2980	3056	2/0 / 8
33140H72037A3C	3 x 95 + 3 G 16	40	3953	4162	3/0 / 6
33140H72037A4C	3 x 120 + 3 G 16	42,6	4836	5074	4/0 / 6
33140H72037A5C	3 x 150 + 3 G 25	50	5412	6128	250 MCM / 4
33140H72037A7C	3 x 185 + 3 G 35	55,6	7077	7820	350 MCM / 2

Other dimension and colours available on request.

GAALFLEX® VFD NYCWY

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



ELETTROTEK KABEL® GAALFLEX® VFD NYCWY

Construction:

Conductor:	solid or stranded red copper conductor Cl. 1 or 2, acc. to IEC 60228, DIN VDE 0295 10-16 mm ² - round solid cores 25-240 mm ² - stranded conductor
Insulation:	PVC type DIV4
Cores color:	acc. to DIN VDE 0293-308, HD 308 S2
Stranding:	in layers
Inner sheath:	filler compound
Screen:	concentric conductor of corrugated copper wires + copper tape
Outer Sheath:	black (similar RAL 9005), PVC type DMV5

Resistance:



Self-extinguishing and flame retardant acc. to:
DIN VDE 0482 part 265-2-1,
EN 50265-2-1,
IEC 60332-1-2





Technical data:

Nominal voltage:	U ₀ /U 0,6/1 kV
Test voltage:	4 kV
Highest voltage:	
<i>Direct current system:</i>	1,8 kV
<i>Alternating current systems, single-phase system:</i>	1,4 kV
<i>One conductor earthed three phase systems:</i>	700 V
<i>One conductor earthed three phase systems:</i>	1,2 kV
<i>With concentric conductor and a cross-section of 240 mm² and above:</i>	3,6 kV
Temperature range	
<i>Fixed laying:</i>	- 30 °C up to + 70 °C
<i>Flexible installation:</i>	- 5 °C up to + 50 °C
Min. bending radius	
<i>Single core:</i>	15 x d
<i>Multi core:</i>	12 x d
Max tensile stress:	50 N/mm ²

Features:

Acc. to DIN VDE 0276 part 603, HD 603 S1
and IEC 60502

RoHS and CE approval

-  re: circular solid conductor
-  rm: circular stranded conductor
-  sm: sector-shaped stranded conductor
-  se: sector-shaped solid conductor



Applications:

suitable especially for underground laying,
for example in subscriber networks, power stations
also as control cable for transmission of control impulses
and test data

GAALFLEX® VFD CABLES

GAALFLEX® VFD NYCWY

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



ELETTROTEK KABEL® GAALFLEX® VFD NYCWY

Part no.	No. of cores x cross section n x mm ²	Outer Ø Ca. mm ±10%	Copper weight kg/km	Cable weight approx. kg/km	AWG no.*)
33250G73020M61	2 x 10 re / 10	19	312	650	8
33250G73020M62	2 x 16 re / 16	21	489	850	6
33250G73020M63	2 x 25 rm / 25	24	763	1210	4
33250G73030M61	3 x 10 re / 10	19,5	408	730	8
33250G73030M62	3 x 16 re / 16	22	643	1000	6
33250G73030M63	3 x 25 rm / 16	26	902	1550	4
33250G73030M64	3 x 35 sm / 16	27	1190	1750	2
33250G73030M65	3 x 50 sm / 25	29	1723	2250	1
33250G73030M66	3 x 70 sm / 35	33	2410	2950	2/0
33250G73030M67	3 x 95 sm / 50	38	3296	4100	3/0
33250G73030M68	3 x 120 sm / 70	41	4236	5050	4/0
33250G73030M69	3 x 150 sm / 70	45	5100	6000	250 MCM
33250G73030M70	3 x 185 sm / 95	50	6383	7550	350 MCM
33250G73030M71	3 x 240 sm / 120	57	8242	9950	450 MCM
33251G73030M63	3 x 25 rm / 25	26	1003	1600	4
33251G73030M64	3 x 35 sm / 35	27,5	1402	1850	2
33251G73030M65	3 x 50 sm / 50	29,5	2000	2450	1
33251G73030M66	3 x 70 sm / 70	34	2796	3350	2/0
33251G73030M67	3 x 95 sm / 95	38,5	3791	4550	3/0
33251G73030M68	3 x 120 sm / 120	42	4786	5550	4/0
33251G73030M69	3 x 150 sm / 150	46	5970	6900	250 MCM
33251G73030M70	3 x 185 sm / 185	51	7363	8500	350 MCM
33250G73040M61	4 x 10 re / 10	20,5	504	890	8
33250G73040M62	4 x 16 re / 16	23,5	796	1250	6
33250G73040M63	4 x 25 rm / 16	28	1142	1800	4
33250G73040M64	4 x 35 sm / 16	29	1526	2050	2
33250G73040M65	4 x 50 sm / 25	33	2203	2700	1
33250G73040M66	4 x 70 sm / 35	37	3082	3750	2/0
33250G73040M67	4 x 95 sm / 50	43,5	4208	5000	3/0
33250G73040M68	4x120 sm / 70	47,2	5388	6350	4/0
33250G73040M69	4 x 150 sm / 70	51	6540	7650	250 MCM
33250G73040M70	4 x 185 sm / 95	56	8159	9350	350 MCM
33250G73040M71	4 x 240 sm / 120	62,5	10546	11600	450 MCM

Other dimension and colours available on request.

GAALFLEX® VFD 1000 P

Inverter, connection to frequency converters, UV Resistant, 0,6/1 kV

ELETTROTEK KABEL® GAALFLEX® VFD 1000 P



Construction:

- Conductor:** flexible red copper conductor Cl. 5, acc to IEC 60228, DIN VDE 0295
- Insulation:** GAALTHERM® 530
- Cores color:** acc. to DIN VDE 0293-308, HD 308 S2
3 phase cores: brown-black-gray
- Stranding:** in layers
- Screen:** aluminium tape (100% covering), red copper braid of the same section as the phase conductor (for sections up to 16 mm²) or equal to half phase conductor, with a minimum of 16 mm² (for section greater than 25 mm²)
- Outer Sheath:** black (similar RAL 9005), special PUR compound

Resistance:



Self-extinguishing and flame retardant acc. to:
DIN VDE 0482 part 265-2-1,
EN 50265-2-1,
IEC 60332-1-2

Technical data:

- Nominal voltage:** U₀/U 0,6/1 kV
- Test voltage:** 4 kV
- Temperature range**
- Fixed laying:* - 50 °C up to + 90 °C
- Flexible installation:* - 40 °C up to + 90 °C
- Max. temperature on conductor:** + 90 °C
- Max. temperature in short circuit:** + 250 °C
- Min. bending radius** 8 x d

Features:

- UV resistant
- acc. to IEC 60502-1 and CEI 20-13, CEI-UNEL 35375
- RoHS and CE approval
- On request is possible:
GAALFLEX® VFD 1000 PH, Halogen free Version
Insulation: GAALTHERM® 630



Part no.	No. of cores x cross section n x mm ²	Outer Ø Ca. mm ±10%	Copper weight kg/km	Cable weight approx. kg/km	AWG no.®)
33160G73030M25	3 x 2,5 + SH	14,6	96	340	14
33160G73030M40	3 x 4 + SH	15,8	134	400	12
33160G73030M60	3 x 6 + SH	18,7	231	490	10
33160G73030M61	3 x 10 + SH	21,7	336	720	8
33160G73030M62	3 x 16 + SH	25,3	615	1040	6
33160G73030M63	3 x 25 + SH	28,8	873	1410	4
33160G73030M64	3 x 35 + SH	32,2	1162	1870	2
33160G73030M65	3 x 50 + SH	36	1680	2400	1
33160G73030M66	3 x 70 + SH	40,7	2352	3360	2/0
33160G73030M67	3 x 95 + SH	47,6	3192	4350	3/0
33160G73030M68	3 x 120 + SH	52,2	4032	5540	4/0
33160G73030M69	3 x 150 + SH	56,4	5040	6880	250 MCM
33160G73030M70	3 x 185 + SH	64,8	6216	8350	350 MCM
33160G73030M71	3 x 240 + SH	74,5	8604	11540	450 MCM
33160G73030M72	3 x 300 + SH	85,5	10080	13480	550 MCM

Other dimension and colours available on request.

GAALFLEX® VFD I 200

Inverter, connection to frequency converters, UV Resistant, 0,6/1 kV

ELETTROTEK KABEL® GAALFLEX® VFD 1200

Construction:

Conductor:	stranded red copper conductor Cl. 2, acc to IEC 60228, DIN VDE 0295
Insulation:	GAALTHERM® 590
Cores color:	acc. to DIN VDE 0293-308, HD 308 S2 3 phase cores: brown-black-gray
Stranding:	in layers
Screen:	aluminium tape (100% covering), red copper wires screen wrapped of the same section as the phase conductor (for sections up to 16 mm ²) or equal to half phase conductor, with a minimum of 16 mm ² (for section greater than 25 mm ²)
Outer Sheath:	black (similar RAL 9005), special PUR compound

Resistance:



Self-extinguishing and flame retardant acc. to:
DIN VDE 0482 part 265-2-1,
EN 50265-2-1,
IEC 60332-1-2

Technical data:

Nominal voltage:	U ₀ /U 0,6/1 kV
Test voltage:	4 kV
Temperature range	
<i>Fixed laying:</i>	- 50 °C up to + 90 °C
<i>Flexible installation:</i>	- 40 °C up to + 90 °C
Max. temperature on conductor:	+ 90°C
Max. temperature in short circuit:	+ 250 °C
Min. bending radius	8 x d

Features:

UV resistant
acc. to IEC 60502-1
RoHS and CE approval



Part no.	No. of cores x cross section n x mm ²	Outer Ø Ca. mm ± 10%	Copper weight kg/km	Cable weight approx. kg/km	AWG no.®)
33270G73030M25	3 x 2,5 + SH	14,6	96	340	14
33270G73030M40	3 x 4 + SH	15,8	134	400	12
33270G73030M60	3 x 6 + SH	18,7	231	490	10
33270G73030M61	3 x 10 + SH	21,7	336	720	8
33270G73030M62	3 x 16 + SH	25,3	615	1040	6
33270G73030M63	3 x 25 + SH	28,8	873	1410	4
33270G73030M64	3 x 35 + SH	32,2	1162	1870	2
33270G73030M65	3 x 50 + SH	36	1680	2400	1
33270G73030M66	3 x 70 + SH	40,7	2352	3360	2/0
33270G73030M67	3 x 95 + SH	47,6	3192	4350	3/0
33270G73030M68	3 x 120 + SH	52,2	4032	5540	4/0
33270G73030M69	3 x 150 + SH	56,4	5040	6880	250 MCM
33270G73030M70	3 x 185 + SH	64,8	6216	8350	350 MCM
33270G73030M71	3 x 240 + SH	74,5	8604	11540	450 MCM
33270G73030M72	3 x 300 + SH	85,5	10080	13480	550 MCM

Other dimension and colours available on request.

GAALFLEX® VFD FG7OHH2R

Inverter, connection to frequency converters, 0,6/1 kV

ELETTROTEK KABEL® GAALFLEX® VFD FG7OHH2R



Construction:

Conductor:	flexible red copper conductor Cl. 5, acc to IEC 60228, DIN VDE 0295
Insulation:	rubber HEPR compound
Cores color:	acc. to DIN VDE 0293-308, HD 308 S2 3 phase cores: brown-black-gray
Stranding:	in layers
Screen:	aluminium tape (100% covering), red copper braid of the same section as the phase conductor (for sections up to 16 mm ²) or equal to half phase conductor, with a minimum of 16 mm ² (for section greater than 25 mm ²)
Outer Sheath:	grey (similar RAL 7035), special PVC type RZ

Resistance:



Self-extinguishing and flame retardant acc. to:

DIN VDE 0482 part 265-2-1,
EN 50265-2-1,
IEC 60332-1-2,
DIN VDE 0482 part 266-2-4,
EN 50266-2-4,
IEC 60332-3-24

Technical data:

Nominal voltage:	U ₀ /U 0,6/1 kV
Test voltage:	4 kV
Temperature range	
<i>Fixed laying:</i>	- 15 °C up to + 90 °C
<i>Flexible installation:</i>	- 0 °C up to + 90 °C
Max. temperature on conductor:	+ 90°C
Max. temperature in short circuit:	+ 250 °C
Min. bending radius	8 x d

Features:

acc. to IEC 60502-1 and CEI 20-13, CEI-UNEL 35375

RoHS and CE approval

On request is possible:

FG7OHH2M1 0,6/1 kV, Halogen free Version

Outer Sheath: green M1 LSZH thermoplastic



Part no.	No. of cores x cross section n x mm ²	Outer Ø Ca. mm ±10%	Copper weight kg/km	Cable weight approx. kg/km	AWG no.®)
33170G83030M25	3 x 2,5 + SH	14,6	96	340	14
33170G83030M40	3 x 4 + SH	15,8	134	400	12
33170G83030M60	3 x 6 + SH	18,5	231	490	10
33170G83030M61	3 x 10 + SH	21	336	720	8
33170G83030M62	3 x 16 + SH	23,5	615	1040	6
33170G83030M63	3 x 25 + SH	27	873	1410	4
33170G83030M64	3 x 35 + SH	30,5	1162	1870	2
33170G83030M65	3 x 50 + SH	35	1680	2400	1
33170G83030M66	3 x 70+SH	40	2352	3360	2/0
33170G83030M67	3 x 95+SH	45	3192	4350	3/0
33170G83030M68	3 x 120+SH	50	4032	5540	4/0
33170G83030M69	3 x 150+SH	55,4	5040	6880	250 MCM
33170G83030M70	3 x 185+SH	61,5	6216	8350	350 MCM
33170G83030M71	3 x 240+SH	68	8604	11540	450 MCM
33170G83030M72	3 x 300+SH	73,5	10080	13480	550 MCM

Other dimension and colours available on request.

GAALFLEX® VFD FE4OHH2R

Inverter, connection to frequency converters, 0,6/1 kVV

ELETTROTEK KABEL® GAALFLEX® VFD FE4OHH2R

Construction:

- Conductor:** flexible red copper conductor Cl. 5, acc to IEC 60228, DIN VDE 0295
- Insulation:** XLPE compound
- Cores color:** acc. to DIN VDE 0293-308, HD 308 S2
3 phase cores: brown-black-gray
- Stranding:** in layers
- Screen:** aluminium tape (100% covering), red copper braid of the same section as the phase conductor (for sections up to 16 mm²) or equal to half phase conductor, with a minimum of 16 mm² (for section greater than 25 mm²)
- Outer Sheath:** black (similar RAL 7035), special PVC type RZ

Resistance:



Self-extinguishing and flame retardant acc. to:

DIN VDE 0482 part 265-2-1,
EN 50265-2-1,
IEC 60332-1-2,
DIN VDE 0482 part 266-2-4,
EN 50266-2-4,
IEC 60332-3-24

Technical data:

- Nominal voltage:** U₀/U 0,6/1 kV
- Test voltage:** 4 kV
- Temperature range**
- Fixed laying:* -20 °C up to +90 °C
- Flexible installation:* -0 °C up to +90 °C
- Max. temperature on conductor:** +90 °C
- Max. temperature in short circuit:** +250 °C
- Min. bending radius** 8 x d

Features:

acc. to IEC 60502-1 and CEI 20-13, CEI-UNEL 35375

RoHS and CE approval



Part no.	No. of cores x cross section n x mm ²	Outer Ø Ca. mm ±10%	Copper weight kg/km	Cable weight approx. kg/km	AWG no.®)
33180G73020M61	2 x 10 / 10	19	312	650	8
33180G73020M62	2 x 16 / 16	21	489	850	6
33180G73020M63	2 x 25 / 25	24	763	1210	4
33180G73030M61	3 x 10 / 10	19,5	408	730	8
33180G73030M62	3 x 16 / 16	22	643	1000	6
33180G73030M63	3 x 25 / 16	26	902	1550	4
33180G73030M64	3 x 35 / 16	27	1190	1750	2
33180G73030M65	3 x 50 / 25	29	1723	2250	1
33180G73030M66	3 x 70 / 35	33	2410	2950	2/0
33180G73030M67	3 x 95 / 50	38	3296	4100	3/0
33180G73030M68	3 x 120 / 70	41	4236	5050	4/0
33180G73030M69	3 x 150 / 70	45	5100	6000	250 MCM
33180G73030M70	3 x 185 / 95	50	6383	7550	350 MCM
33180G73030M71	3 x 240 / 120	57	8242	9950	450 MCM
33182G73030M63	3 x 25 / 25	26	1003	1600	4
33182G73030M64	3 x 35 / 35	27,5	1402	1850	2

GAALFLEX® VFD CABLES

GAALFLEX® VFD FE4OHH2R

Inverter, connection to frequency converters, 0,6/1 kVV

ELETTROTEK KABEL® GAALFLEX® VFD FE4OHH2R

Part no.	No. of cores x cross section n x mm ²	Outer Ø Ca. mm ±10%	Copper weight kg/km	Cable weight approx. kg/km	AWG no.*)
33182G73030M65	3 x 50 / 50	29,5	2000	2450	1
33182G73030M66	3 x 70 / 70	34	2796	3350	2/0
33182G73030M67	3 x 95 / 95	38,5	3791	4550	3/0
33182G73030M68	3 x 120 / 120	42	4786	5550	4/0
33182G73030M69	3 x 150 / 150	46	5970	6900	250 MCM
33182G73030M70	3 x 185 / 185	51	7363	8500	350 MCM
33180G73040M61	4 x 10 / 10	20,5	504	890	8
33180G73040M62	4 x 16 / 16	23,5	796	1250	6
33180G73040M63	4 x 25 / 16	28	1142	1800	4
33180G73040M64	4 x 35 / 16	29	1526	2050	2
33180G73040M65	4 x 50 / 25	33	2203	2700	1
33180G73040M66	4 x 70 / 35	37	3082	3750	2/0
33180G73040M67	4 x 95 / 50	43,5	4208	5000	3/0
33180G73040M68	4x120 / 70	47,2	5388	6350	4/0
33180G73040M69	4 x 150 / 70	51	6540	7650	250 MCM
33180G73040M70	4 x 185 / 95	56	8159	9350	350 MCM
33180G73040M71	4 x 240 / 120	62,5	10546	11600	450 MCM

Other dimension and colours available on request.