

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 III A/B 1000 V 80° FT-1



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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 III A/B 1000 V 80° FT-1

RoHS and CE approval



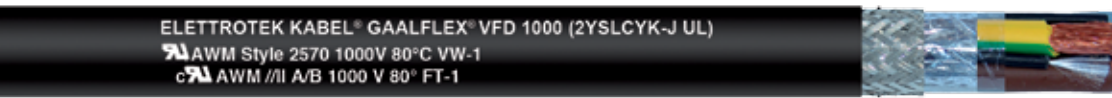
Applications:

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

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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.