

GAALFLEX® VFD 2XSLCHK-J

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



ELETTROTEK KABEL® GAALFLEX® VFD 2XSLCHK-J



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Construction:

Conductor:	flexible red copper conductor Cl. 5, acc to IEC 60228, DIN VDE 0295
Insulation:	special XLPE compound acc. to IEC 60502-4
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), halogen free type HM4 acc. to IEC 60092-353

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

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 60332-3-22



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



Low smoke density acc. to:
DIN VDE 0482 part. 268-1-2
IEC 61034-1-2

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
- 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

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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. *)
33050G72041M15	4 G 1,5	10,6	95	230	16
33050G72071M15	7 G 1,5	12,9	151	362	16
33050G72041M25	4 G 2,5	12,3	150	300	14
33050G72071M25	7 G 2,5	14	265	450	14
33050G72041M40	4 G 4	14,5	235	485	12
33050G72041M60	4 G 6	16,2	320	633	10
33050G72041M61	4 G 10	19,2	533	863	8
33050G72041M62	4 G 16	22	789	1291	6
33050G72041M63	4 G 25	27	1236	1862	4
33050G72041M64	4 G 35	30	1662	2611	2
33050G72041M65	4 G 50	35	2345	2955	1
33050G72041M66	4 G 70	40,8	3196	3953	2/0
33050G72041M67	4 G 95	45,8	4316	5304	3/0
33050G72041M68	4 G 120	49,7	5435	6604	4/0
33050G72041M69	4 G 150	57	6394	7043	250 MCM
33050G72041M70	4 G 185	61,1	7639	8384	350 MCM
33050G72041M71	4 G 240	67	10013	11010	450 MCM
33050G72041M72	4 G 300	71,5	12570	13800	550 MCM
33050G72037M15	3 x 1,5 + 3 G 0,25	10,2	86	140	16 / 24
33050G72037M25	3 x 2,5 + 3 G 0,5	11,4	144	220	14 / 20
33050G72037M40	3 x 4 + 3 G 0,75	13	224	323	12 / 19
33050G72037M60	3 x 6 + 3 G 1	15	298	420	10 / 18
33050G72037M61	3 x 10 + 3 G 1,5	18,4	491	615	8 / 16
33050G72037M62	3 x 16 + 3 G 2,5	21,6	723	819	6 / 14
33050G72037M63	3 x 25 + 3 G 4	25,3	1000	1200	4 / 12
33050G72037M64	3 x 35 + 3 G 6	27,8	1350	1600	2 / 10
33050G72037M65	3 x 50 + 3 G 10	32,6	2208	2399	1 / 8
33050G72037M66	3 x 70 + 3 G 10	39	2871	3080	2/0 / 8
33050G72037M67	3 x 95 + 3 G 16	44,3	3953	4180	3/0 / 6
33050G72037M68	3 x 120 + 3 G 16	46,3	4300	4700	4/0 / 6
33050G72037M69	3 x 150 + 3 G 25	53,5	5450	5900	250 MCM / 4
33050G72037M70	3 x 185 + 3 G 35	59,5	6969	7189	350 MCM / 2
33050G72037M71	3 x 240 + 3 G 42,5	65,2	8850	9540	450 MCM / 1
33050G72037M72	3 x 300 + 3 G 50	69,5	10700	11560	550 MCM / 1

Other dimension and colours available on request.