

GAALFLEX® VFD 2XSLCYK

acc. to CPR UE 305/11, EN 50575:2014 + A1:2016, Cca-s3, d1, a3

ELETTROTEK KABEL® GAALFLEX® VFD 2XSLCYK-J, Cca-s3, d1, a3



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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,
EN 50399

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)
suitable for application acc. to EN 55011, DIN VDE 0875 and EN 61800-3
low mutual capacitance
low coupling resistance
installation in hazardous areas
low coupling resistance for high electromagnetic compatibility
acc. to CPR UE 305/11, EN 50575:2014 + A1:2016, Cca-s3,d1,a3
classification (CEI UNEL 35016), EN 13501-6
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. *)
33045G72041M15	4 G 1,5	11,3	95	230	16
33045G72041M25	4 G 2,5	12,4	150	300	14
33045G72041M40	4 G 4	13,6	235	485	12
33045G72041M60	4 G 6	14,8	320	630	10
33045G72041M61	4 G 10	17,5	533	860	8
33045G72041M62	4 G 16	20,2	789	1290	6
33045G72041M63	4 G 25	24,8	1236	1860	4
33045G72041M64	4 G 35	27,4	1662	2610	2
33045G72041M65	4 G 50	32,0	2345	2950	1
33045G72041M66	4 G 70	37,1	3196	3950	2/0
33045G72041M67	4 G 95	41,6	4316	5300	3/0
33045G72041M68	4 G 120	45,2	5435	6600	4/0
33045G72041M69	4 G 150	52,0	6394	7040	250 MCM
33045G72041M70	4 G 185	58,1	7639	8380	350 MCM
33045G72041M71	4 G 240	66,1	10020	11300	450 MCM
33045G72041M72	4 G 300	71,5	12570	13800	550 MCM
33045G72037M15	3 x 1,5 + 3 G 0,25	12	91	234	16 / 24
33045G72037M25	3 x 2,5 + 3 G 0,5	13	152	282	14 / 20
33045G72037M40	3 x 4 + 3 G 0,75	14	224	447	12 / 19
33045G72037M60	3 x 6 + 3 G 1	16	298	575	10 / 18
33045G72037M61	3 x 10 + 3 G 1,5	18	491	650	8 / 16
33045G72037M62	3 x 16 + 3 G 2,5	20	723	846	6 / 14
33045G72037M63	3 x 25 + 3 G 4	24	1204	1325	4 / 12
33045G72037M64	3 x 35 + 3 G 6	26	1535	1840	2 / 10
33045G72037M65	3 x 50 + 3 G 10	30	2156	2718	1 / 8
33045G72037M66	3 x 70 + 3 G 10	34	2980	3470	2/0 / 8
33045G72037M67	3 x 95 + 3 G 16	37	3953	4540	3/0 / 6
33045G72037M68	3 x 120 + 3 G 16	42	4836	5865	4/0 / 6
33045G72037M69	3 x 150 + 3 G 25	46	5412	6490	250 MCM / 4
33045G72037M70	3 x 185 + 3 G 35	51	7329	8595	350 MCM / 2
33045G72037M71	3 x 240 + 3 G 42,5	59	10230	11720	450 MCM / 1
33045G72037M72	3 x 300 + 3 G 50	65	11050	13380	550 MCM / 1

Other dimension and colours available on request.