

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

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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. *)
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.