

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)
suitable for application acc. to EN 55011, DIN VDE 0875
and EN 61800-3
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.