

GAMAFLEX 10-JZ

GAMAFLEX 10-OZ



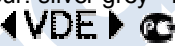
Application

As control and supply cables for control units in metal working machines, transportation equipment, production lines, as well as for control and measuring systems at rated voltage U_0/U 300 / 500 V .

The cables are suitable for flexible applications for free, non-continuous returning movement, without tensile load as well as for fixed laying.

They are oil and chemical resistant under normal operation conditions and are suitable for use in dry, damp or wet interiors. These cables may only be laid outdoors with UV-protection and in observance of the temperature range.

Technical data

- manufactured acc. to the technical specification TS 03-11-01 C of GAMAKABEL
- rated voltage U_0/U : 300/500 V
- test voltage: 4 kV
- insulation resistance at 70 °C: min 20 GΩ x cm
- maximum conductor temperature: + 70 °C
- max. conductor temperature at short circuit for 5 s : +160 °C
- temperature range:
occasional flexing: - 15 °C** to +70 °C; fixed installation : -40 °C to +80 °C
** Tested according EN 60811-1-4: cold bending test, impact resistance test at low temperatures, elongation test at low temperatures.
- minimum temperature during installation: - 5 °C
- minimum bending radius for: mobile - 15 D;
fixed - 4 D (D - outer cable diameter)
- flame test: flame-retardant acc. to IEC 60332-1
- sheath colour: silver grey - RAL 7001
- Approval - 

Cable design

- copper conductors class 5 according to IEC 60228
- insulation: PVC compound type TI2 according to HD 21.1
- sheath: PVC compound type TM2 according to HD 21.1

Core identification in accordance to EN 50334

GAMAFLEX 10-JZ - all cores black, with imprinted numbers and a green-yellow protective conductor in the outer layer

GAMAFLEX 10-OZ - all cores black, with imprinted numbers

Number of Conductors and Cross Section	Outer Diameter	Copper Weight	Cable Weight	Number of Conductors and Cross Section	Outer Diameter	Copper Weight	Cable Weight
No x mm ²	mm	kg/km	kg/km	No x mm ²	mm	kg/km	kg/km
2 x 0,5	4,7	9,6	35	2 x 1,5	6,1	29	69
3 x 0,5	4,9	14,4	42	3 x 1,5	6,5	43	85
4 x 0,5	5,3	19	55	4 x 1,5	7,0	58	106
5 x 0,5	6,0	24	66	5 x 1,5	7,9	72	129
6 x 0,5	6,5	29	75	6 x 1,5	8,6	86	148
7 x 0,5	6,5	34	79	7 x 1,5	8,6	101	159
10 x 0,5	8,2	48	109	10 x 1,5	11,3	144	234
12 x 0,5	8,2	58	125	12 x 1,5	11,3	173	272
14 x 0,5	9,0	67	153	14 x 1,5	12,2	202	312
19 x 0,5	10,1	91	197	19 x 1,5	13,8	274	424

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Number of Conductors and Cross Section No x mm ²	Outer Diameter mm	Copper Weight kg/km	Cable Weight kg/km	Number of Conductors and Cross Section No x mm ²	Outer Diameter mm	Copper Weight kg/km	Cable Weight kg/km
24 x 0,5	12,0	115	243	24 x 1,5	16,2	346	527
27 x 0,5	12,1	130	267	27 x 1,5	16,7	389	582
30 x 0,5	12,6	144	307	30 x 1,5	17,3	432	650
37 x 0,5	14,0	178	368	37 x 1,5	19,3	533	808
2 x 0,75	5,1	14,4	45	2 x 2,5	7,6	48	105
3 x 0,75	5,4	22	57	3 x 2,5	8,0	72	133
4 x 0,75	6,1	29	69	4 x 2,5	9,0	96	175
5 x 0,75	6,7	36	84	5 x 2,5	9,8	120	214
6 x 0,75	7,2	43	97	6 x 2,5	10,9	144	246
7 x 0,75	7,2	50	103	7 x 2,5	10,9	168	265
10 x 0,75	9,5	72	153	10 x 2,5	14,3	240	386
12 x 0,75	9,5	86	175	12 x 2,5	14,3	288	449
14 x 0,75	10,1	101	200	14 x 2,5	15,4	336	515
19 x 0,75	11,7	137	259	19 x 2,5	17,6	456	688
24 x 0,75	13,7	173	336	2 x 4,0	8,6	77	150
27 x 0,75	13,8	194	369	3 x 4,0	9,3	115	195
30 x 0,75	14,4	216	405	4 x 4,0	10,4	154	261
37 x 0,75	15,9	266	487	5 x 4,0	11,4	192	307
2 x 1,0	5,4	19,2	54	6 x 4,0	12,6	230	360
3 x 1,0	5,7	29	66	7 x 4,0	12,6	269	391
4 x 1,0	6,4	38	81	2 x 6,0	10,5	115	224
5 x 1,0	7,0	48	98	3 x 6,0	11,1	173	287
6 x 1,0	7,9	58	113	4 x 6,0	12,3	230	367
7 x 1,0	7,9	67	121	5 x 6,0	13,8	288	460
10 x 1,0	10,1	96	179	6 x 6,0	15,2	346	537
12 x 1,0	10,1	115	206	7 x 6,0	15,2	403	583
14 x 1,0	10,9	134	235	2 x 10,0	14,9	192	392
19 x 1,0	12,4	182	306	3 x 10,0	15,8	288	503
24 x 1,0	14,7	230	396	4 x 10,0	17,7	384	642
27 x 1,0	14,9	259	437	2 x 16,0	16,7	307	624
30 x 1,0	15,5	288	480	3 x 16,0	17,9	461	785
37 x 1,0	17,1	355	580	4 x 16,0	19,8	614	995
				2 x 25,0	20,5	480	943
				3 x 25,0	21,9	720	1186
				4 x 25,0	24,2	960	1506