GAMAFLEX 10-JZ CY
GAMAFLEX 10-OZ CY

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 Uo/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 03-12-01B of GAMAKABEL
- rated voltage Uo/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:
  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 - 20 D; fixed - 6 D (D - outer cable diameter)
- flame test: flame-retardant acc. to IEC 60332-1
- sheath colour: transparent
- Approval - VDE

Cable design

- copper conductors class 5 according to IEC 60228
- insulation: PVC compound type TI2 according to HD 21.1
- inner covering: PVC compound type TM2 according to HD 21.1
- screen of tinned copper wire braiding: coverage 85±5%
- sheath: PVC compound type TM2 according to HD 21.1

Core identification in accordance to EN 50334

GAMAFLEX 10-JZ CY - all cores black, with imprinted numbers and green-yellow protective conductor in the outer layer
GAMAFLEX 10-OZ CY - 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 Weigh t
No x mm^2	mm	kg/km	kg/km		No x mm^2	mm	kg/km	kg/km
2 x 0,5	6,9	41,0	75		2 x 1,5	8,3	66,0	140
3 x 0,5	7,1	45,5	83		3 x 1,5	8,9	83,0	163
4 x 0,5	7,7	55,0	99		4 x 1,5	9,4	100,0	178
5 x 0,5	8,2	66,0	112		5 x 1,5	10,1	125,0	211
6 x 0,5	8,9	73,0	135		6 x 1,5	11,0	154,0	290
7 x 0,5	8,9	81,0	140		7 x 1,5	11,0	163,0	310
10 x 0,5	10,6	115,0	172		10 x 1,5	13,9	211,0	349
12 x 0,5	10,6	138,5	202		12 x 1,5	13,9	280,0	393
14 x 0,5	11,2	146,0	218		14 x 1,5	14,8	299,0	482
19 x 0,5	12,7	195,0	284		19 x 1,5	16,5	427,0	598

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No x mm^2	mm	kg/km	kg/km		No x mm^2	mm	kg/km	kg/km
24 x 0,5	14,4	237,0	402		24 x 1,5	19,2	520,0	729
30 x 0,5	15,2	297,0	429		30 x 1,5	20,5	570,0	825
37 x 0,5	16,6	352,0	512		37 x 1,5	22,3	763,0	1080
2 x 0,75	7,5	46,0	86		2 x 2,5	9,8	112,0	157
3 x 0,75	7,8	57,9	100		3 x 2,5	10,4	146,0	204
4 x 0,75	8,3	64,0	115		4 x 2,5	11,2	167,0	233
5 x 0,75	9,1	77,4	130		5 x 2,5	12,4	200,0	283
6 x 0,75	9,6	89,0	160		6 x 2,5	13,5	248,0	342
7 x 0,75	9,6	102,0	161		7 x 2,5	13,5	288,0	403
10 x 0,75	12,1	140,0	179		10 x 2,5	16,9	402,0	563
12 x 0,75	12,1	177,0	247		12 x 2,5	16,9	477,3	668
14 x 0,75	12,7	192,0	269		14 x 2,5	18,4	518,0	725
19 x 0,75	14,2	250,0	348		19 x 2,5	20,7	625,0	845
24 x 0,75	16,3	298,0	448					
27 x 0,75	16,6	336,0	470		2 x 4,0	11,0	160,0	220
30 x 0,75	17,0	378,0	520		3 x 4,0	11,9	220,0	298
37 x 0,75	19,1	452,0	625		4 x 4,0	12,8	294,0	415
					5 x 4,0	14,0	328,0	480
2 x 1,0	7,8	56,0	98		6 x 4,0	15,2	360,0	552
3 x 1,0	8,1	65,3	111		7 x 4,0	15,2	388,0	610
4 x 1,0	8,6	78,1	130					
5 x 1,0	9,4	89,4	153		2 x 6,0	12,9	195,0	273
6 x 1,0	10,1	112,0	208		3 x 6,0	13,7	270,0	378
7 x 1,0	10,1	126,0	221		4 x 6,0	14,9	361,0	568
10 x 1,0	12,7	166,0	280		5 x 6,0	16,4	441,0	686
12 x 1,0	12,7	188,1	335		6 x 6,0	18,2	510,0	760
14 x 1,0	13,5	215,0	406		7 x 6,0	18,2	452,0	810
19 x 1,0	15,0	297,0	552					
24 x 1,0	17,1	362,0	618		2 x 10,0	17,0	330,0	510
27 x 1,0	17,3	414,0	700		3 x 10,0	18,5	475,0	640
30 x 1,0	18,5	452,0	774		4 x 10,0	20,2	558,0	735
37 x 1,0	20,1	550,0	948					
					2 x 16,0	19,4	502,0	680
					3 x 16,0	20,6	672,0	868
					4 x 16,0	22,5	910,0	1200
					2 x 25,0	23,0	750,0	960
					3 x 25,0	24,6	1020,0	1350