

## GAMAFLEX 25-JZ CY GAMAFLEX 25-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  $U_0/U$  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 03-17-02 A 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 - 20 D;  
fixed - 6 D (D - outer cable diameter)
- flame test: flame-retardant acc. to IEC 60332-1
- sheath colour: silver grey RAL7001 or other color upon request

### Cable design

- copper conductors class 5 according to IEC 60228
- insulation: PVC compound type TI2 according to HD 21.1
- wrapping: polyester foil overlapping
- 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 25-JZ CY** - all cores black, with imprinted numbers and green-yellow protective conductor in the outer layer

**GAMAFLEX 25-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 Weight
No x mm <sup>2</sup>	mm	kg/km	kg/km		No x mm <sup>2</sup>	mm	kg/km	kg/km
2 x 0,5	6,1	36,0	51		2 x 1,5	8,1	65,0	87
3 x 0,5	6,3	43,0	60		3 x 1,5	8,6	82,0	112
4 x 0,5	6,9	49,0	74		4 x 1,5	9,2	100,0	136
5 x 0,5	7,5	57,0	86		5 x 1,5	10,1	119,0	167
7 x 0,5	8,2	69,0	109		7 x 1,5	10,9	154,0	207
12 x 0,5	10,3	104,0	168		12 x 1,5	14,1	268,0	335
18 x 0,5	12,2	141,0	234		18 x 1,5	17,2	373,0	509
25 x 0,5	14,4	211,0	316		25 x 1,5	20,3	530,0	678

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No x mm <sup>2</sup>	mm	kg/km	kg/km		No x mm <sup>2</sup>	mm	kg/km	kg/km
2 x 0,75	6,7	43,0	63		2 x 2,5	9,7	91,0	127
3 x 0,75	7,0	52,0	77		3 x 2,5	10,4	118,0	166
4 x 0,75	7,6	61,0	92		4 x 2,5	11,1	147,0	205
5 x 0,75	8,4	72,0	113		5 x 2,5	12,4	176,0	253
7 x 0,75	9,0	89,0	137		7 x 2,5	13,6	253,0	324
12 x 0,75	11,6	138,0	218		12 x 2,5	17,8	430,0	546
18 x 0,75	13,7	211,0	310		18 x 2,5	21,6	647,0	826
25 x 0,75	16,4	280,0	433					
2 x 1,0	7,0	51,0	71					
3 x 1,0	7,2	62,0	86					
4 x 1,0	7,8	74,0	104					
5 x 1,0	8,7	88,0	128					
7 x 1,0	9,3	112,0	157					
12 x 1,0	12,1	185,0	252					
18 x 1,0	14,4	268,0	365					
25 x 1,0	17,0	354,0	501					