

FLEXI-CONTROL® -JZ/OZ 300/500 V**Application**

Control cables for the use in tool-machines, conveyor belts, production lines in machinery production, in air-conditioning and in steel production. As well as in energy generating plants, electric substations and factories automation.

For fixed laying and flexible application and medium mechanical stresses with free movement without tensile stress.

These cables are suitable for the installation in dry, moist and wet rooms. Outdoor use only with UV-protection and not for underground laying.

Cable construction

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| • Conductor | bare copper strand, fine wired |
| • Conductor class | acc. to DIN VDE 0295 cl. 5 / IEC 60228 cl. 5 |
| • Core insulation | special PVC |
| • Core identification | acc. to DIN VDE 0293 black with white numbering and green-yellow earth core (G = JZ) with protective conductor and (X = OZ) without protective conductor |
| • Stranding | cores stranded in layers |
| • Outer sheath | special PVC, meter marking |
| • Sheath colour | grey, RAL 7001 |

Technical Data

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| • Nominal voltage | U ₀ /U 300/500 V |
| • Test voltage | 4000 V |
| • Conductor resistance | acc. to DIN VDE 0295 cl. 5 / IEC 60228 cl. 5 |
| • Insulation resistance | min. 20 MΩ x km |
| • Minimum bending radius | fixed 4 x Ø / flexible installation 15 x Ø |
| • Temperature range | fixed - 40 °C / - 80 °C
flexible - 5 °C / - 70 °C |
| • Temperature at conductor | + 70 °C in operation |
| • Temperature at short-circuit | + 150 °C for 5 seconds |
| • Flame test | PVC self-extinguishing and flame retardant acc. to IEC 60332-1 |
| • Norms | similar to EN 50525-2-51 |

Special features

- Testing voltage 4000 V
- Largely resistant to acids, bases and usual oils under normal operation conditions.
- LABS-/silicone-free (during production)

Remarks

- **RoHS** conform
- **CE** conform to the EC Low-Voltage directive 2014/35/EU
- Other outer sheath colours and sections upon customer request.



Part no.	Section mm ²	Outer-Ø mm	Cu-weight kg / km	Weight kg / km
110052	16 G 0,75	11,3	116,0	219,0
110053	18 G 0,75	11,7	130,0	238,0
110054	19 G 0,75	12,0	137,0	251,0
110055	20 G 0,75	12,7	144,0	286,0
110056	21 G 0,75	13,3	151,0	292,0
110057	25 G 0,75	14,0	180,0	334,0
110058	32 G 0,75	15,8	230,0	426,0
110059	34 G 0,75	16,0	245,0	430,0
110060	37 G 0,75	16,2	266,4	467,0
110061	41 G 0,75	17,7	296,0	535,0
110062	42 G 0,75	17,4	302,0	529,0
110063	50 G 0,75	19,2	360,0	648,0
110065	61 G 0,75	21,0	439,0	765,0
110066	65 G 0,75	21,5	468,0	829,0
110067	80 G 0,75	24,3	576,0	1016,0
110068	2 X 1	5,6	19,2	50,0
110069	3 G 1	5,9	29,0	60,0
110070	3 X 1	5,9	29,0	60,0
110071	4 G 1	6,7	38,4	76,0
110072	4 X 1	6,7	38,4	76,0
110073	5 G 1	7,3	48,0	94,0
110074	5 X 1	7,3	48,0	94,0
110075	6 G 1	8,1	58,0	116,0
110076	7 G 1	8,1	67,0	121,0
110077	7 X 1	8,1	67,0	121,0
110078	8 G 1	9,4	77,0	139,0
110079	9 G 1	9,8	86,0	161,0
110080	10 G 1	10,0	96,0	176,0
110081	10 X 1	10,0	96,0	176,0
110082	12 G 1	10,5	115,0	200,0
110083	12 X 1	10,5	115,0	200,0
110084	14 G 1	11,4	134,0	234,0
110085	16 G 1	12,0	154,0	261,0
110086	18 G 1	12,8	173,0	298,0
110087	18 X 1	12,8	173,0	298,0
110088	19 G 1	13,0	182,4	309,0
110089	20 G 1	13,5	192,0	328,0
110090	20 X 1	13,5	192,0	328,0
110091	21 G 1	13,7	202,0	339,0
110092	24 G 1	14,7	230,0	401,0
110093	25 G 1	14,9	240,0	406,0
110094	25 X 1	14,9	240,0	406,0
110095	26 G 1	15,0	250,0	408,0
110096	27 G 1	15,0	260,0	414,0
110097	30 X 1	16,3	288,0	482,0
110098	34 G 1	17,2	326,0	548,0
110099	36 G 1	17,6	346,0	568,0
110100	37 G 1	17,3	355,2	562,0
110101	40 G 1	19,1	384,0	643,0
110102	40 X 1	19,1	384,0	643,0