



Flexible Control Cables / PVC Control Cables

JB-500 flexible, colour coded, metermarking



Technical data

- Adapted to DIN VDE 0285-525-2-11 / DIN EN 50525-2-11
- **Temperature range**
flexing -15°C to +80°C
fixed installation -40°C to +80°C
- **Nominal voltage** U₀/U 300/500 V
- **Test voltage** 4000 V
- **Breakdown voltage** min. 8000 V
- **Insulation resistance**
min. 20 MOhm x km
- **Minimum bending radius**
flexing 7,5x cable Ø
fixed installation 4x cable Ø
- **Radiation resistance**
up to 80x10⁶ cJ/kg (up to 80 Mrad)

Cable structure

- Bare copper-conductor, to DIN VDE 0295 cl.5, fine-wire, BS 6360 cl.5, IEC 60228 cl.5
- Core insulation of special PVC compound type Z 7225
- Core identification to JB/OB colour code
- GN-YE conductor, 3 cores and above in the outer layer
- Cores stranded in layers with optimal lay-length
- Outer sheath of special PVC compound type TM2 to DIN VDE 0207-363-4-1 / DIN EN 50363-4-1
- Sheath colour grey (RAL 7001)
- with meter marking
- from 5 cores with VDE-Reg-Nr.

Properties

- Extensively oil resistant, oil- /chemical resistance see table Technical Informations
- The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers

Tests

- PVC self-extinguishing and flame retardant acc. to DIN VDE 0482-332-1-2, DIN EN 60332-1-2, IEC 60332-1 (equivalent DIN VDE 0472 part 804 test method B)

Note

- G = with green-yellow conductor
x = without green-yellow conductor (OB).
- AWG sizes are approximate equivalent values. The actual cross-section is in mm².
- screened analogue type:
Y-CV-JB, confer page 62

Application

These cables are used for flexible use for medium mechanical stresses with free movement without tensile stress or forced movements in dry, moist and wet rooms but not suitable for open air, as measuring and control cables in tool machinery, conveyorbelts, production lines, as well as in machinery production, in air-conditioning and steel production plants. The earth core is located immediately below the outer sheath. JB cables are suitable for use in all electrical equipment either in dry or damp areas. They should not, however, be installed in the open air.

☑= The product is conformed with the EC Low-Voltage Directive 2006/95/EC.

Part no.	No.cores x cross-sec. mm ²	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
11001	2 x 0,5	4,8	9,6	40,0	20
11002	3 G 0,5	5,1	14,4	46,0	20
11003	3 x 0,5	5,1	14,4	46,0	20
11004	4 G 0,5	5,5	19,2	56,0	20
11005	4 x 0,5	5,5	19,2	56,0	20
11006	5 G 0,5	6,2	24,0	65,0	20
11007	5 x 0,5	6,2	24,0	65,0	20
11008	6 G 0,5	6,7	29,0	75,0	20
11009	7 G 0,5	6,7	34,0	80,0	20
11010	7 x 0,5	6,7	34,0	84,0	20
11011	8 G 0,5	7,4	38,0	97,0	20
11012	10 G 0,5	8,2	48,0	116,0	20
11013	12 G 0,5	8,7	58,0	135,0	20
11014	14 G 0,5	9,5	67,0	150,0	20
11015	16 G 0,5	10,0	77,0	172,0	20
11019	30 G 0,5	13,5	144,0	310,0	20
11026	2 x 0,75	5,3	14,4	46,0	19
11027	3 G 0,75	5,6	21,6	54,0	19
11028	3 x 0,75	5,6	21,6	54,0	19
11029	4 G 0,75	6,3	28,8	66,0	19
11030	4 x 0,75	6,3	28,8	66,0	19
11031	5 G 0,75	6,9	36,0	80,0	19
11032	5 x 0,75	6,9	36,0	80,0	19
11033	6 G 0,75	7,5	43,2	99,0	19
11034	7 G 0,75	7,5	50,0	110,0	19
11035	7 x 0,75	7,5	50,0	110,0	19
11036	8 G 0,75	8,3	58,0	130,0	19
11037	9 G 0,75	8,9	65,0	153,0	19
11038	10 G 0,75	9,2	72,0	162,0	19
11039	12 G 0,75	9,8	86,0	179,0	19
11040	15 G 0,75	11,4	108,0	218,0	19
11041	18 G 0,75	12,2	130,0	257,0	19
11042	21 G 0,75	12,7	151,0	320,0	19
11043	25 G 0,75	14,3	180,0	365,0	19
11050	2 x 1	5,6	19,2	60,0	18
11051	3 G 1	5,9	29,0	72,0	18
11052	3 x 1	5,9	29,0	72,0	18
11053	4 G 1	6,6	38,4	86,0	18
11054	4 x 1	6,6	38,4	86,0	18
11055	5 G 1	7,3	48,0	104,0	18
11056	5 x 1	7,3	48,0	104,0	18

Part no.	No.cores x cross-sec. mm ²	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
11057	6 G 1	8,1	58,0	125,0	18
11058	6 x 1	8,1	58,0	125,0	18
11059	7 G 1	8,1	67,0	141,0	18
11060	7 x 1	8,1	67,0	141,0	18
11061	8 G 1	8,8	77,0	175,0	18
11062	9 G 1	9,7	87,0	200,0	18
11063	10 G 1	9,8	96,0	207,0	18
11064	12 G 1	10,4	115,0	230,0	18
11065	14 G 1	11,4	134,0	271,0	18
11066	16 G 1	12,3	154,0	300,0	18
11067	18 G 1	12,9	173,0	343,0	18
11068	20 G 1	13,8	192,0	375,0	18
11069	24 G 1	15,1	230,0	468,0	18
11070	25 G 1	15,4	240,0	485,0	18
11077	2 x 1,5	6,4	29,0	70,0	16
11078	3 G 1,5	6,8	43,0	90,0	16
11079	3 x 1,5	6,8	43,0	90,0	16
11080	4 G 1,5	7,4	58,0	109,0	16
11081	4 x 1,5	7,4	58,0	109,0	16
11082	5 G 1,5	8,3	72,0	131,0	16
11083	5 x 1,5	8,3	72,0	131,0	16
11084	6 G 1,5	9,2	86,4	157,0	16
11085	7 G 1,5	9,2	101,0	184,0	16
11086	7 x 1,5	9,2	101,0	184,0	16
11087	8 G 1,5	10,0	115,0	216,0	16
11088	11 G 1,5	11,6	158,0	300,0	16
11089	12 G 1,5	11,8	173,0	309,0	16
11090	14 G 1,5	13,0	202,0	345,0	16
11091	16 G 1,5	13,9	230,0	386,0	16
11092	18 G 1,5	14,6	259,0	440,0	16
11093	20 G 1,5	15,6	288,0	490,0	16
11094	25 G 1,5	17,4	360,0	620,0	16
11104	2 x 2,5	7,8	48,0	112,0	14
11105	3 G 2,5	8,3	72,0	148,0	14
11106	3 x 2,5	8,3	72,0	148,0	14
11107	4 G 2,5	9,2	96,0	178,0	14
11108	4 x 2,5	9,2	96,0	178,0	14
11109	5 G 2,5	10,1	120,0	221,0	14
11110	5 x 2,5	10,1	120,0	221,0	14
11111	6 G 2,5	11,2	144,0	293,0	14
11112	7 G 2,5	11,2	168,0	306,0	14