JZ-500 flexible, number coded, blue cores, meter marking

Technical data

- Control cables, special PVC
- Requirements adapted to DIN VDE 0245, 0281, 0293, 0295
- **Temperature range**
  flexing -15°C[1)] to +80°C
  fixed installation -40°C to +80°C
- **Nominal voltage** U_0/U 300/500 V
- **Test voltage** 4000 V
- **Breakdown voltage** min. 8000 V
- **Insulation resistance**
  min. 20MOhm x km
- **Minimum bending radius**
  flexing 7,5x cable Ø
  fixed installation 4x cable Ø
- **Radiation resistance**
  up to 80x10^6 cJ/kg (up to 80 Mrad)
- [1)] cold bending test, impact resistance test at low temperatures, elongation test at low temperatures. Tested according VDE 0473 Teil 811-1-4, EN 60811-1-4

Cable structure

- Bare copper, fine wire conductors,according to DIN VDE 0295 cl. 5, BS 6360 cl. 5 and IEC 60228 cl. 5
- Core insulation of special PVC Z 7225
- Cores blue with continuous white numbering according to DIN VDE 0293 (also available with other core colours)
- Green-yellow earth core in the outer layer (3 cores and above)
- Cores stranded in layers with optimal lay-lenght
- Outer sheath of special PVC, TM2 to DIN VDE 0281 part 1 and HD 21.1
- Colour grey (RAL 7001)
- with meter marking, change-over in 2009

Properties

- Extensively oil resistant.
  Chemical Resistance - see table Technical Informations
- PVC self-extinguishing and flame retardant according to VDE 0482-332-1-2, DIN EN 60332-1-2/ IEC 60332-1 (equivalent DIN VDE 0472 part 804 test method B)
- The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers

Note

- G = with green-yellow earth core;
  x = without green-yellow earth core (OZ).
- Important for assemblers: We supply any "desired length" of stranded cores without outer sheath, core insulation colour acc. RAL 5010 with number combination acc. customers requirement.

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 machines, conveyor belts, production lines in machinery production, in air-conditioning and in steel production. The cores have been numbered in such a way that there is no difficulty in recognising them, even if only a small piece of sheathing has been removed. The numbers have been underlined to avoid confusion. The earth core is laid in the outer layer. Selected PVC-compounds guarantee a good flexibility as well as an economic and fast installation.
CE= The product is conformed with the EC Low-Voltage Directive 2006/95/EG.

Part No.	No.cores x cross-sec. mm²	Outer ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
10200	2 x 0,5	4,9	9,6	40,0	20
10201	3 G 0,5	5,2	14,4	46,0	20
10202	4 G 0,5	5,6	19,0	56,0	20
10203	5 G 0,5	6,3	24,0	65,0	20
10205	7 G 0,5	6,9	33,6	80,0	20
10206	8 G 0,5	8,1	38,0	97,0	20
10208	12 G 0,5	9,2	58,0	135,0	20
10209	14 G 0,5	9,7	67,0	150,0	20
10210	18 G 0,5	11,0	86,0	196,0	20
10211	20 G 0,5	11,5	96,0	215,0	20
10212	21 G 0,5	12,2	96,0	240,0	20
10213	25 G 0,5	13,3	120,0	270,0	20
10214	30 G 0,5	13,8	144,0	310,0	20
10215	32 G 0,5	14,3	154,0	323,0	20
10216	34 G 0,5	15,1	163,0	362,0	20
10220	61 G 0,5	19,2	293,0	625,0	20
10223	100 G 0,5	24,3	480,0	980,0	20
10224	2 x 0,75	5,3	14,4	46,0	18
10225	3 G 0,75	5,6	21,6	54,0	18
10226	4 G 0,75	6,3	29,0	66,0	18
10227	5 G 0,75	6,9	36,0	80,0	18
10229	7 G 0,75	7,7	50,0	110,0	18
10232	10 G 0,75	9,8	72,0	162,0	18
10233	12 G 0,75	10,0	86,0	179,0	18
10234	14 G 0,75	10,8	101,0	214,0	18
10236	18 G 0,75	12,2	130,0	257,0	18
10237	20 G 0,75	12,7	144,0	286,0	18
10238	21 G 0,75	13,5	151,0	320,0	18
10239	25 G 0,75	14,5	180,0	365,0	18
10240	32 G 0,75	16,1	230,0	455,0	18
10241	34 G 0,75	16,7	245,0	510,0	18
10249	2 x 1	5,6	19,2	60,0	17
10250	3 G 1	6,1	29,0	72,0	17
10251	4 G 1	6,6	38,4	86,0	17
10252	5 G 1	7,5	48,0	104,0	17

Part No.	No.cores x cross-sec. mm²	Outer ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
10332	7 G 1	8,1	67,0	141,0	17
10256	12 G 1	10,8	115,0	230,0	17
10258	16 G 1	12,3	154,0	300,0	17
10259	18 G 1	12,9	173,0	343,0	17
10260	20 G 1	13,7	192,0	375,0	17
10261	25 G 1	15,6	240,0	485,0	17
10262	34 G 1	17,9	326,0	650,0	17
10265	41 G 1	19,4	394,0	770,0	17
10273	2 x 1,5	6,4	29,0	70,0	16
10274	3 G 1,5	6,8	43,0	90,0	16
10275	4 G 1,5	7,6	58,0	109,0	16
10276	5 G 1,5	8,3	72,0	131,0	16
10278	7 G 1,5	9,2	101,0	184,0	16
10279	8 G 1,5	10,6	115,0	216,0	16
10282	12 G 1,5	12,2	173,0	309,0	16
10283	14 G 1,5	13,0	202,0	345,0	16
10284	16 G 1,5	13,9	230,0	386,0	16
10285	18 G 1,5	14,8	259,0	440,0	16
10286	20 G 1,5	15,5	288,0	490,0	16
10288	25 G 1,5	17,8	360,0	620,0	16
10298	2 x 2,5	7,8	48,0	112,0	14
10299	3 G 2,5	8,3	72,0	148,0	14
10300	4 G 2,5	9,2	96,0	178,0	14
10301	5 G 2,5	10,1	120,0	221,0	14
10302	7 G 2,5	11,2	168,0	306,0	14
10315	3 G 4	9,7	115,0	230,0	12
10316	4 G 4	10,8	154,0	295,0	12
10317	5 G 4	12,1	192,0	361,0	12
10321	3 G 6	11,9	173,0	355,0	10
10322	4 G 6	13,0	230,0	424,0	10
10323	5 G 6	14,7	288,0	525,0	10
10324	7 G 6	16,2	403,0	625,0	10

Dimensions and specifications may be changed without prior notice. (RA01)