JZ-500-C black EMC-preferred type, Cu-screened. flexible, meter marking

Technical data

- Special-PVC control cable adapted to DIN VDE 0285-525-2-51/ DIN EN 50525-2-51
- **Temperature range** flexing -10°C to +80°C fixed installation -40°C to +80°C
- **Nominal voltage** U_0/U 300/500 V
- **Test voltage** core/core 4000 V core/screen 2000 V
- **Breakdown voltage** min. 8000 V
- **Insulation resistance** min. 20 MOhm x km
- **Coupling resistance** max. 250 Ohm/km
- **Minimum bending radius** flexing 10x cable Ø fixed installation 5x 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 DIN VDE 0293 black cores with continuous white numbering
- GN-YE conductor, 3 cores and above in the outer layer
- Cores stranded in layers with optimal lay-length
- Foil separator
- Tinned copper braided screen, approx. 85% coverage
- Outer sheath of special PVC compound type TM2 to DIN VDE 0207-363-4-1/DIN EN 50363-4-1
- Sheath colour black (RAL 9005)
- with meter marking

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
- **UV- resistant**

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 (OZ)
- AWG sizes are approximate equivalent values. The actual cross-section is in mm².
- unscreened analogue type **JZ-500 black**, confer page 32

Application

For medium mechanical stress for flexible use with free movement without tensile stress or forced movements in dry, damp, wet rooms and **in open air**. Must not be laid directly in soil or water. When screened for measurement, control and control line etc. in mechanical and plant engineering, machine tools, production lines and conveyor belts.

EMC = Electromagnetic compatibillity

To optimize the EMC features we recommend a large round contact of the copper braiding on both ends.

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

Part no.	No.cores x cross-sec. mm²	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
10934	2 x 0,5	6,1	35,0	45,0	20
10935	3 G 0,5	6,4	42,0	55,0	20
11479	3 x 0,5	6,4	42,0	55,0	20
10936	4 G 0,5	6,8	47,0	61,0	20
11480	4 x 0,5	6,8	47,0	61,0	20
10937	5 G 0,5	7,5	56,0	74,0	20
11481	5 x 0,5	7,5	56,0	74,0	20
10938	7 G 0,5	8,1	69,0	98,0	20
11482	7 x 0,5	8,1	69,0	98,0	20
10939	12 G 0,5	10,6	108,0	157,0	20
11483	12 x 0,5	10,6	108,0	157,0	20
10940	18 G 0,5	12,4	145,0	217,0	20
10941	25 G 0,5	14,7	240,0	314,0	20
10942	2 x 0,75	6,7	40,0	59,0	19
10943	3 G 0,75	7,0	52,0	66,0	19
11484	3 x 0,75	7,0	52,0	66,0	19
10944	4 G 0,75	7,7	60,0	77,0	19
11485	4 x 0,75	7,7	60,0	77,0	19
10945	5 G 0,75	8,2	71,0	93,0	19
11486	5 x 0,75	8,2	71,0	93,0	19
10946	7 G 0,75	9,0	91,0	130,0	19
11487	7 x 0,75	9,0	91,0	130,0	19
10947	12 G 0,75	11,6	142,0	202,0	19
11488	12 x 0,75	11,6	142,0	202,0	19
10948	18 G 0,75	13,7	212,0	292,0	19
10949	25 G 0,75	16,4	281,0	415,0	19
10950	2 x 1	7,0	50,0	65,0	18
10951	3 G 1	7,5	60,0	80,0	18
11493	3 x 1	7,5	60,0	80,0	18
10952	4 G 1	8,0	71,0	98,0	18
11495	4 x 1	8,0	71,0	98,0	18
10953	5 G 1	8,8	88,0	127,0	18
11496	5 x 1	8,8	88,0	127,0	18
10954	7 G 1	9,5	111,0	158,0	18
11497	7 x 1	9,5	111,0	158,0	18
10955	12 G 1	12,4	184,0	260,0	18

Part no.	No.cores x cross-sec. mm²	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
11499	12 x 1	12,4	184,0	260,0	18
10956	18 G 1	14,7	260,0	380,0	18
10957	25 G 1	17,5	349,0	534,0	18
10958	2 x 1,5	7,8	63,0	88,0	16
10959	3 G 1,5	8,2	80,0	100,0	16
11500	3 x 1,5	8,2	80,0	100,0	16
10960	4 G 1,5	8,9	97,0	126,0	16
11502	4 x 1,5	8,9	97,0	126,0	16
10961	5 G 1,5	9,8	119,0	160,0	16
11503	5 x 1,5	9,8	119,0	160,0	16
10962	7 G 1,5	10,8	147,0	208,0	16
11520	7 x 1,5	10,8	147,0	208,0	16
10963	12 G 1,5	14,0	267,0	338,0	16
11522	12 x 1,5	14,0	267,0	338,0	16
10964	18 G 1,5	16,8	374,0	479,0	16
10965	25 G 1,5	19,8	526,0	705,0	16
10966	2 x 2,5	9,2	96,0	130,0	14
10967	3 G 2,5	9,8	144,0	167,0	14
11523	3 x 2,5	9,8	144,0	167,0	14
10968	4 G 2,5	10,6	148,0	195,0	14
11524	4 x 2,5	10,6	148,0	195,0	14
10969	5 G 2,5	11,7	181,0	223,0	14
11526	5 x 2,5	11,7	181,0	223,0	14
10970	7 G 2,5	12,8	255,0	344,0	14
11527	7 x 2,5	12,8	255,0	344,0	14
10971	12 G 2,5	17,0	441,0	570,0	14
11550	12 x 2,5	17,0	441,0	570,0	14
10972	18 G 2,5	19,8	570,0	681,0	14
10973	4 G 4	12,4	230,0	310,0	12
10974	5 G 4	13,7	273,0	385,0	12
10975	4 G 6	14,7	305,0	415,0	10
10976	5 G 6	16,2	439,0	509,0	10
10977	4 G 10	18,2	535,0	783,0	8
10978	4 G 16	21,1	740,0	880,0	6
10979	4 G 25	25,8	1140,0	1570,0	4
10980	4 G 35	29,7	1576,0	2070,0	2

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