JZ-500-C-BLACK / OZ-500-C-BLACK

EMC-preferred type



TECHNICAL DATA

PVC control and connection cable in alignment with DIN VDE 0285-525-2-51 / DIN EN 50525-2-51

Temperature range	flexible -10°C to +80°C fixed -40°C to +80°C
Nominal voltage	AC U_0/U 300/500 V
Test voltage core/core	4000 V
Test voltage core/screen	2000 V
Breakdown voltage	8000 V
Coupling resistance	at 30 MHz, approx. 250 Ohm/km
Minimum bending radius	flexible 10x Outer-Ø fixed 5x Outer-Ø

CABLE STRUCTURE

- Copper wire bare, finely stranded acc. to DIN VDE 0295 Class 5 / IEC 60228 Class 5
- Core insulation: PVC, compound type Z 7225
- Core identification acc. to DIN VDE 0293-334, black cores with consecutive labeling in white digits
- Protective conductor: starting with 3 cores, G = with protective conductor GN-YE, in the outer layer, x = without protective conductor (OZ)
- Cores stranded in layers with optimal lay lengths
- Foil wrapping
- Screen: braided screen of tinned copper wires, approx. coverage 85%
- Outer sheath: PVC acc. to DIN VDE 0207-363-4-1 / DIN EN 50363-4-1 (compound type TM2)
- Sheath colour: black (RAL 9005)
- Length marking: in metres

PROPERTIES

- resistant to: UV radiation, weathering effects
- largely resistant to: oil, for details, see "Technical Information"
- for outdoor use
- the materials used during manufacturing are cadmium-free, contain no silicone and are free from substances harmful to the wetting properties of lacquers

TESTS

- flame-retardant acc. to DIN VDE 0482-332-1-2 / DIN EN 60332-1-2 / IEC 60332-1-2
- UV-resistant acc. to DIN EN ISO 4892-2
- weather-resistant acc. to DIN EN ISO 4892-2
- certifications and approvals: EAC

APPLICATION

Used for flexible applications involving medium mechanical stress with free movement, without tensile stress and without forced motion control in dry, damp and wet rooms, as well as outdoors. Used as a connection and control cable in machine and plant construction, in machine tools, production lines, assembly lines and conveyor belts. EMC= Electromagnetic Compatibility; in order to optimise EMC properties, we recommend a double-sided and all-round large contact area of the copper braiding.

NOTES

- the conductor is metrically (mm²) constructed, AWG numbers are approximated, and are for reference only

Part no.	No. cores x cross-sec. mm²	AWG, approx.	Outer Ø mm, approx.	Cu factor per km	Weight kg/km, approx.
10934	2 x 0.5	20	5.7	35.0	45.0
10935	3 G 0.5	20	6.0	42.0	55.0
11479	3 x 0.5	20	6.0	42.0	55.0
10936	4 G 0.5	20	6.5	47.0	61.0
11480	4 x 0.5	20	6.5	47.0	61.0
10937	5 G 0.5	20	6.9	56.0	74.0
11481	5 x 0.5	20	6.9	56.0	74.0
10938	7 G 0.5	20	7.6	69.0	98.0
11482	7 x 0.5	20	7.6	69.0	98.0
10939	12 G 0.5	20	9.8	108.0	157.0
11483	12 x 0.5	20	9.8	108.0	157.0
10940	18 G 0.5	20	11.4	145.0	217.0
10941	25 G 0.5	20	13.7	240.0	314.0
10942	2 x 0.75	19	6.2	40.0	59.0
10943	3 G 0.75	19	6.6	52.0	66.0
11484	3 x 0.75	19	6.6	52.0	66.0
10944	4 G 0.75	19	7.1	60.0	77.0
11485	4 x 0.75	19	7.1	60.0	77.0
10945	5 G 0.75	19	7.8	71.0	93.0

Part no.	No. cores x cross-sec. mm²	AWG, approx.	Outer Ø mm, approx.	Cu factor per km	Weight kg/km, approx.
11486	5 x 0.75	19	7.8	71.0	93.0
10946	7 G 0.75	19	8.4	91.0	130.0
11487	7 x 0.75	19	8.4	91.0	130.0
10947	12 G 0.75	19	11.1	142.0	202.0
11488	12 x 0.75	19	11.1	142.0	202.0
10948	18 G 0.75	19	12.9	212.0	292.0
10949	25 G 0.75	19	15.4	281.0	415.0
11018007	42 G 0.75	19	18.2	430.0	595.3
10950	2 x 1	18	6.5	50.0	65.0
10951	3 G 1	18	6.9	60.0	80.0
11493	3 x 1	18	6.9	60.0	80.0
10952	4 G 1	18	7.6	71.0	98.0
11495	4 x 1	18	7.6	71.0	98.0
10953	5 G 1	18	8.2	88.0	127.0
11496	5 x 1	18	8.2	88.0	127.0
10954	7 G 1	18	9.0	111.0	158.0
11497	7 x 1	18	9.0	111.0	158.0
11007470	8 x 1	18	10.0	127.0	197.0
10955	12 G 1	18	11.9	184.0	260.0

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Part no.	No. cores x cross-sec. mm²	AWG, approx.	Outer Ø mm, approx.	Cu factor per km	Weight kg/km, approx.
11499	12 x 1	18	11.9	184.0	260.0
10956	18 G 1	18	14.0	260.0	380.0
10957	25 G 1	18	16.5	349.0	534.0
10958	2 x 1.5	16	7.1	63.0	88.0
10959	3 G 1.5	16	7.7	80.0	100.0
11500	3 x 1.5	16	7.7	80.0	100.0
10960	4 G 1.5	16	8.3	97.0	126.0
11502	4 x 1.5	16	8.3	97.0	126.0
10961	5 G 1.5	16	9.2	119.0	160.0
11503	5 x 1.5	16	9.2	119.0	160.0
10962	7 G 1.5	16	9.9	147.0	208.0
11520	7 x 1.5	16	9.9	147.0	208.0
10963	12 G 1.5	16	13.5	267.0	338.0
11522	12 x 1.5	16	13.5	267.0	338.0
10964	18 G 1.5	16	15.7	374.0	479.0
10965	25 G 1.5	16	18.5	526.0	705.0
10966	2 x 2.5	14	8.5	96.0	130.0
10967	3 G 2.5	14	9.2	144.0	167.0
11523	3 x 2.5	14	9.2	144.0	167.0
10968	4 G 2.5	14	10.0	148.0	195.0
11524	4 x 2.5	14	10.0	148.0	195.0
10969	5 G 2.5	14	11.0	181.0	223.0
11526	5 x 2.5	14	11.0	181.0	223.0
10970	7 G 2.5	14	12.1	255.0	344.0
11527	7 x 2.5	14	12.1	255.0	344.0
10971	12 G 2.5	14	16.4	441.0	570.0
11550	12 x 2.5	14	16.4	441.0	570.0
10972	18 G 2.5	14	19.3	570.0	681.0
10973	4 G 4	12	12.3	230.0	310.0
10974	5 G 4	12	13.8	273.0	385.0
10975	4 G 6	10	14.2	305.0	415.0
10976	5 G 6	10	15.6	439.0	509.0
10977	4 G 10	8	18.2	535.0	783.0
10978	4 G 16	6	21.0	740.0	880.0
10979	4 G 25	4	26.4	1140.0	1570.0
10980	4 G 35	2	29.0	1576.0	2070.0

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