JZ-500 / OZ-500

TECHNICAL DATA

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

Temperature range	flexible -15°C to +80°C fixed -40°C to +80°C
Nominal voltage	AC U_o/U 300/500 V
Test voltage core/core	4000 V
Breakdown voltage	8000 V
Minimum bending radius	flexible 7,5x Outer-Ø fixed 4x 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
- Outer sheath: PVC acc. to DIN VDE 0207-363-4-1 / DIN EN 50363-4-1 (compound type TM2)
- Sheath colour: grey (RAL 7001)
- Length marking: in metres

PROPERTIES

- largely resistant to: oil, for details, see "Technical Information"
- conditionally suitable for drag chains
- conditionally torsional
- 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

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, however, not suitable for outdoor use. Used as a connection and control cable in machine tools, assembly lines and conveyor belts, production lines, in plant construction, air-conditioning technology, in smelters and steel mills. Select PVC compounds guarantee good flexibility, efficient and quick installation.

NOTES

- the conductor is metrically (mm²) constructed, AWG numbers are approximated, and are for reference only
- please note "cleanroom qualification" in your order
- VDE-Reg.-No. 7032

Part no.	No. cores x cross-sec. mm²	AWG, approx.	Outer Ø mm, approx.	Cu-weight kg/km	Weight kg/km, approx.
10001	2 x 0.5	20	4.8	9.6	40.0
10002	3 G 0.5	20	5.1	14.4	46.0
10003	3 x 0.5	20	5.1	14.4	46.0
10004	4 G 0.5	20	5.5	19.0	56.0
10005	4 x 0.5	20	5.5	19.0	56.0
10006	5 G 0.5	20	6.2	24.0	65.0
10007	5 x 0.5	20	6.2	24.0	65.0
10008	6 G 0.5	20	6.7	29.0	75.0
10009	7 G 0.5	20	6.7	33.6	80.0
10010	7 x 0.5	20	6.7	33.6	80.0
10011	8 G 0.5	20	7.4	38.0	97.0
10172	8 x 0.5	20	7.4	38.0	97.0
10012	10 G 0.5	20	8.6	48.0	116.0
10013	12 G 0.5	20	9.1	58.0	135.0
10014	12 x 0.5	20	9.1	58.0	135.0
10015	14 G 0.5	20	9.5	67.0	150.0
10183	16 G 0.5	20	10.0	76.0	175.0
10016	18 G 0.5	20	10.7	86.0	196.0
10017	20 G 0.5	20	11.3	96.0	215.0
10018	21 G 0.5	20	11.3	101.0	240.0
10019	25 G 0.5	20	12.6	120.0	270.0
10020	30 G 0.5	20	13.5	144.0	310.0
10021	32 G 0.5	20	14.0	154.0	323.0
10022	34 G 0.5	20	14.7	163.0	362.0
10023	40 G 0.5	20	15.3	192.0	434.0
10024	42 G 0.5	20	15.8	202.0	449.0
10025	50 G 0.5	20	17.3	240.0	513.0
10169	52 G 0.5	20	17.3	252.0	534.0
10026	61 G 0.5	20	18.5	293.0	625.0
10027	65 G 0.5	20	19.2	312.0	682.0
10028	80 G 0.5	20	21.3	384.0	780.0
10029	100 G 0.5	20	23.8	480.0	980.0
10030	2 x 0.75	19	5.3	14.4	46.0
10031	3 G 0.75	19	5.6	21.6	54.0
10032	3 x 0.75	19	5.6	21.6	54.0
10033	4 G 0.75	19	6.3	28.8	66.0
10034	4 x 0.75	19	6.3	28.8	66.0
10035	5 G 0.75	19	6.9	36.0	80.0
10036	5 x 0.75	19	6.9	36.0	80.0
10037	6 G 0.75	19	7.7	43.0	99.0
10177	6 x 0.75	19	7.7	43.0	99.0
10038	7 G 0.75	19	7.7	50.0	110.0
10039	7 x 0.75	19	7.7	50.0	110.0
10040	8 G 0.75	19	8.3	58.0	130.0
10173	8 x 0.75	19	8.3	58.0	130.0
10041	9 G 0.75	19	9.1	65.0	153.0
10042	10 G 0.75	19	9.8	72.0	162.0
10043	12 G 0.75	19	10.1	86.0	179.0