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

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Part no.	No. cores x cross-sec. mm²	AWG, approx.	Outer Ø mm, approx.	Cu-weight kg/km	Weight kg/km, approx.
10044	12 x 0.75	19	10.1	86.0	179.0
10045	14 G 0.75	19	10.8	101.0	214.0
10046	15 G 0.75	19	11.4	108.0	218.0
10047	18 G 0.75	19	12.2	130.0	257.0
10533	19 G 0.75	19	12.2	137.0	264.0
10048	20 G 0.75	19	12.8	144.0	286.0
10049	21 G 0.75	19	12.8	151.0	320.0
10050	25 G 0.75	19	14.3	180.0	365.0
10534	27 G 0.75	19	14.5	195.0	382.0
10051	32 G 0.75	19	15.9	230.0	455.0
10052	34 G 0.75	19	16.7	245.0	510.0
10182	37 G 0.75	19	16.7	266.0	537.0
10053	40 G 0.75	19	17.3	288.0	595.0
10054	41 G 0.75	19	18.1	296.0	607.0
10055	42 G 0.75	19	18.1	302.0	612.0
10056	50 G 0.75	19	19.8	360.0	735.0
10057	61 G 0.75	19	21.2	439.0	845.0
10178	65 G 0.75	19	22.0	468.0	895.0
10058	80 G 0.75	19	24.3	576.0	1070.0
10059	100 G 0.75	19	27.1	720.0	1322.0
10060	2 x 1	18	5.6	19.2	60.0
10061	3 G 1	18	6.1	29.0	72.0
10062	3 x 1	18	6.1	29.0	72.0
10063	4 G 1	18	6.6	38.0	86.0
10064	4 x 1	18	6.6	38.0	86.0
10065	5 G 1	18	7.5	48.0	104.0
10066	5 x 1	18	7.5	48.0	104.0
10067	6 G 1	18	8.1	58.0	125.0
10068	7 G 1	18	8.1	67.0	141.0
10069	7 x 1	18	8.1	67.0	141.0
10070	8 G 1	18	9.0	77.0	175.0
10071	9 G 1	18	9.8	86.0	200.0
10180	10 G 1	18	10.6	96.0	217.0
10170	10 x 1	18	10.6	96.0	217.0
10072	12 G 1	18	10.9	115.0	230.0
10073	12 x 1	18	10.9	115.0	230.0
10074	14 G 1	18	11.5	134.0	271.0
10075	16 G 1	18	12.3	154.0	300.0
10076	18 G 1	18	12.9	173.0	343.0
10174	18 x 1	18	12.9	173.0	343.0
10197	19 G 1	18	12.9	182.0	355.0
10077	20 G 1	18	13.8	192.0	375.0
10184	20 x 1	18	13.8	192.0	375.0
10179	21 G 1	18	13.8	205.0	420.0
10175	24 G 1	18	15.4	230.0	440.0
10078	25 G 1	18	15.4	240.0	485.0
10176	25 x 1	18	15.4	240.0	485.0
10196	26 G 1	18	15.4	252.0	500.0
10198	27 G 1	18	15.4	259.0	534.0
10168	30 x 1	18	16.5	288.0	550.0
10079	34 G 1	18	17.9	326.0	650.0
10080	36 G 1	18	17.9	346.0	668.0
10199	37 G 1	18	17.9	355.0	701.0
10081	40 G 1	18	18.6	384.0	755.0
10167	40 x 1	18	18.6	384.0	755.0
10082	41 G 1	18	19.4	394.0	770.0
10083	42 G 1	18	19.4	403.0	810.0
10084	50 G 1	18	21.3	480.0	936.0
10085	56 G 1	18	22.1	538.0	920.0
10086	61 G 1	18	22.7	586.0	1100.0
10087	65 G 1	18	23.6	628.0	1180.0
10088	80 G 1	18	26.3	768.0	1294.0
10089	100 G 1	18	29.3	960.0	1644.0
10090	2 x 1.5	16	6.4	29.0	70.0
10091	3 G 1.5	16	6.8	43.0	90.0
10092	3 x 1.5	16	6.8	43.0	90.0

Part no.	No. cores x cross-sec. mm²	AWG, approx.	Outer Ø mm, approx.	Cu-weight kg/km	Weight kg/km, approx.
10093	4 G 1.5	16	7.6	58.0	109.0
10094	4 x 1.5	16	7.6	58.0	109.0
10095	5 G 1.5	16	8.3	72.0	131.0
10096	5 x 1.5	16	8.3	72.0	131.0
10097	6 G 1.5	16	9.2	86.0	157.0
10098	7 G 1.5	16	9.2	101.0	184.0
10099	7 x 1.5	16	9.2	101.0	184.0
10100	8 G 1.5	16	10.1	115.0	216.0
11007735	8 x 1.5	16	10.1	115.0	216.0
10101	9 G 1.5	16	11.1	129.0	259.0
10181	10 G 1.5	16	12.0	144.0	275.0
10102	11 G 1.5	16	12.0	158.0	300.0
10103	12 G 1.5	16	12.4	173.0	309.0
10104	12 x 1.5	16	12.4	173.0	309.0
10105	14 G 1.5	16	13.0	202.0	345.0
10106	16 G 1.5	16	13.9	230.0	386.0
10107	18 G 1.5	16	14.8	259.0	440.0
10185	19 G 1.5	16	14.8	279.0	445.0
10108	20 G 1.5	16	15.6	288.0	490.0
10109	21 G 1.5	16	15.6	302.0	555.0
10110	25 G 1.5	16	17.6	360.0	620.0
10535	27 G 1.5	16	17.6	389.0	670.0
10111	32 G 1.5	16	19.5	461.0	790.0
10112	34 G 1.5	16	20.2	490.0	830.0
10536	37 G 1.5	16	20.2	533.0	892.0
10113	41 G 1.5	16	22.1	591.0	996.0
10114	42 G 1.5	16	22.1	605.0	1007.0
10115	50 G 1.5	16	24.2	720.0	1250.0
10116	56 G 1.5	16	25.1	806.0	1332.0
10117	61 G 1.5	16	25.8	878.0	1440.0
10187	65 G 1.5	16	26.9	936.0	1602.0
10118	80 G 1.5	16	29.8	1152.0	1871.0
10119	100 G 1.5	16	33.2	1440.0	2353.0
10120	2 x 2.5	14	7.8	48.0	112.0
10121	3 G 2.5	14	8.3	72.0	148.0
10122	3 x 2.5	14	8.3	72.0	148.0
10123	4 G 2.5	14	9.2	96.0	178.0
10124	4 x 2.5	14	9.2	96.0	178.0
10125	5 G 2.5	14	10.1	120.0	221.0
10126	5 x 2.5	14	10.1	120.0	221.0
10127	7 G 2.5	14	11.2	168.0	306.0
10128	7 x 2.5	14	11.2	168.0	306.0
10129	8 G 2.5	14	12.3	192.0	363.0
11007736	8 x 2.5	14	12.3	192.0	363.0
10548	10 G 2.5	14	14.8	240.0	429.0
10130	12 G 2.5	14	15.3	288.0	498.0
10131	14 G 2.5	14	16.2	336.0	569.0
10132	18 G 2.5	14	18.2	432.0	764.0
10133	21 G 2.5	14	19.4	504.0	914.0
10134	25 G 2.5	14	21.6	600.0	1044.0
10135	34 G 2.5	14	25.2	816.0	1470.0
10136	42 G 2.5	14	27.3	1008.0	1790.0
10137	50 G 2.5	14	30.0	1200.0	2095.0
10138	61 G 2.5	14	32.2	1464.0	2750.0
10139	100 G 2.5	14	41.4	2400.0	4450.0
10140	2 x 4	12	9.2	77.0	195.0
10141	3 G 4	12	9.7	115.0	230.0
10142	4 G 4	12	10.8	154.0	295.0
10143	5 G 4	12	12.1	192.0	361.0
10144	7 G 4	12	13.4	269.0	458.0
10145	8 G 4	12	14.7	307.0	590.0
10549	10 G 4	12	17.6	384.0	687.0
10146	12 G 4	12	18.2	461.0	790.0
10147	3 G 6	10	11.9	173.0	355.0
10148	4 G 6	10	13.2	230.0	424.0
10149	5 G 6	10	14.7	288.0	525.0

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Part no.	No. cores x cross-sec. mm²	AWG, approx.	Outer Ø mm, approx.	Cu-weight kg/km	Weight kg/km, approx.
10150	7 G 6	10	16.2	403.0	625.0
10151	3 G 10	8	14.8	288.0	540.0
10152	4 G 10	8	16.4	384.0	701.0
10153	5 G 10	8	18.3	480.0	858.0
10154	7 G 10	8	20.2	672.0	1106.0
10190	3 G 16	6	18.4	461.0	827.0
10155	4 G 16	6	20.4	614.0	1035.0
10156	5 G 16	6	22.8	768.0	1259.0
10157	7 G 16	6	25.2	1075.0	1780.0
10191	3 G 25	4	22.4	720.0	1186.0
10158	4 G 25	4	25.1	960.0	1582.0
10159	5 G 25	4	27.9	1200.0	1999.0
10160	7 G 25	4	30.8	1680.0	2825.0
10192	3 G 35	2	25.2	1008.0	1585.0

Part no.	No. cores x cross-sec. mm²	AWG, approx.	Outer Ø mm, approx.	Cu-weight kg/km	Weight kg/km, approx.
10161	4 G 35	2	27.9	1344.0	2105.0
10162	5 G 35	2	31.0	1680.0	2633.0
10193	3 G 50	1	29.9	1440.0	2550.0
10163	4 G 50	1	33.0	1920.0	2940.0
10188	5 G 50	1	37.0	2400.0	2936.0
10194	3 G 70	2/0	34.1	2016.0	3180.0
10164	4 G 70	2/0	37.9	2688.0	4090.0
10189	5 G 70	2/0	42.4	3360.0	5443.0
10195	3 G 95	3/0	39.6	2736.0	4680.0
10165	4 G 95	3/0	43.9	3648.0	5540.0
10333	5 G 95	3/0	49.0	4560.0	6931.0
10166	4 G 120	4/0	48.8	4608.0	7000.0
13139	4 G 150	300 kcmil	54.4	5760.0	8340.0
13140	4 G 185	350 kcmil	62.3	7104.0	9904.0