

JZ-500

flexible, number coded, meter marking



VDE-REG.-Nr.



HELUKABEL VDE-REG.-Nr. 7032 JZ-500 25G1,5 QMM / 10110 300/500 V 001041117 CE

Technical data

- Special-PVC control cable adapted to DIN VDE 0285-525-2-51 / DIN EN 50525-2-51
- **Temperature range**
flexing -15°C to +80°C
fixed installation -40°C to +80°C
- **Nominal voltage**
U₀/U 300/500 V
- **Test voltage**
4000 V
- **Breakdown voltage**
min. 8000 V
- **Insulation resistance**
min. 20 MOhm x km
- **Minimum bending radius**
flexing 7,5x cable Ø
fixed installation 4x 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 (also available in other colours on request)
- GN-YE conductor, 3 cores and above in the outer layer
- Cores stranded in layers with optimal lay length
- Outer sheath of special PVC compound type TM2 to DIN VDE 0207-363-4-1 / DIN EN 50363-4-1
- Sheath colour: grey (RAL 7001)
- With meter marking

Properties

- Extensively oil resistant, oil-/chemical resistance see "Technical Informations"
- Conditional drag chain compatible
- Conditional suitability for torsion
- The materials used during manufacturing are cadmium-free, contain no silicone and are free from substances harmful to the wetting properties of lacquers

Tests

- PVC self-extinguishing and flame retardant acc. to DIN VDE 0482-332-1-2, DIN EN 60332-1-2, IEC 60332-1-2 (equivalent DIN VDE 0472 part 804 test method B)

Note

- G = with GN-YE conductor
x = without GN-YE conductor (OZ)
- We supply any "desired length" of stranded cores without outer sheath, core insulation colour acc. RAL 9005 with number combination acc. customers requirement.
- Please note "cleanroom qualified" when ordering.
- AWG sizes are approximate equivalent values. The actual cross section is in mm².
- Screened analogue type:

**F-CY-JZ,
F-CY-OZ (LiY-CY),
Y-CY-JB,
Y-CY-JZ**

Application

These cables are appropriate for flexible use with medium mechanical stresses, and free movement without tensile stress or forced movements in dry, moist and wet rooms but not open air. Suitable to be used as measuring and control cables in tool machines, conveyor belts, assembly lines, plant engineering, AC technology, steel production and other manufacturing environments. Selected PVC compounds guarantee good flexibility as well as an economic and fast installation.

CE = Product conforms with Low-Voltage Directive 2014/35/EU.

DKSH Part No.	Supplier Part No.	No. cores x cross-sec. mm ²	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
CC2X0.5	10001	2 x 0.5	4.8	9.6	40.0	20
CC3G0.5	10002	3 G 0.5	5.1	14.4	46.0	20
CC3X0.5	10003	3 x 0.5	5.1	14.4	46.0	20
CC4G0.5	10004	4 G 0.5	5.5	19	56.0	20
CC4X0.5	10005	4 x 0.5	5.5	19	56.0	20
CC5G0.5	10006	5 G 0.5	6.2	24	65.0	20
CC5X0.5	10007	5 x 0.5	6.2	24	65.0	20
CC6G0.5	10008	6 G 0.5	6.7	29	75.0	20
CC7G0.5	10009	7 G 0.5	6.7	33.6	80.0	20
CC7X0.5	10010	7 x 0.5	6.7	33.6	80.0	20
CC8G0.5	10011	8 G 0.5	7.7	38	97.0	20
CC8X0.5	10172	8 x 0.5	7.7	38	97.0	20
CC10G0.5	10012	10 G 0.5	8.6	48	116.0	20
CC12G0.5	10013	12 G 0.5	9.1	58	135.0	20
CC12X0.5	10014	12 x 0.5	9.1	58	135.0	20
CC14G0.5	10015	14 G 0.5	9.5	67	150.0	20

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CC16G0.5	10183	16 G 0.5	10.0	76.0	175.0	20
CC18G0.5	10016	18 G 0.5	10.7	86.0	196.0	20
CC20G0.5	10017	20 G 0.5	11.3	96.0	215.0	20
CC21G0.5	10018	21 G 0.5	11.3	101.0	240.0	20
CC25G0.5	10019	25 G 0.5	12.6	120.0	270.0	20
CC30G0.5	10020	30 G 0.5	13.5	144.0	310.0	20
CC32G0.5	10021	32 G 0.5	14.0	154.0	323.0	20
CC34G0.5	10022	34 G 0.5	14.7	163.0	362.0	20
CC40G0.5	10023	40 G 0.5	15.3	192.0	434.0	20
CC42G0.5	10024	42 G 0.5	15.8	202.0	449.0	20
CC50G0.5	10025	50 G 0.5	17.3	240.0	513.0	20
CC52G0.5	10169	52 G 0.5	17.3	252.0	534.0	20
CC61G0.5	10026	61 G 0.5	18.5	293.0	625.0	20
CC65G0.5	10027	65 G 0.5	19.8	312.0	682.0	20
CC80G0.5	10028	80 G 0.5	21.3	384.0	780.0	20
CC100G0.5	10029	100 G 0.5	23.8	480.0	980.0	20

DKSH Part No.	Supplier Part no.	No.cores x cross-sec. mm ²	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
CC2X0.75	10030	2 x 0.75	5.3	14.4	46.0	19
CC3G0.75	10031	3 G 0.75	5.6	21.6	54.0	19
CC3X0.75	10032	3 x 0.75	5.6	21.6	54.0	19
CC4G0.75	10033	4 G 0.75	6.3	28.8	66.0	19
CC4X0.75	10034	4 x 0.75	6.3	29.0	66.0	19
CC5G0.75	10035	5 G 0.75	6.9	36.0	80.0	19
CC5X0.75	10036	5 x 0.75	6.9	36.0	80.0	19
CC6G0.75	10037	6 G 0.75	7.7	43.0	99.0	19
CC6X0.75	10177	6 x 0.75	7.7	43.0	99.0	19
CC7G0.75	10038	7 G 0.75	7.7	50.0	110.0	19
CC7X0.75	10039	7 x 0.75	7.7	50.0	110.0	19
CC8G0.75	10040	8 G 0.75	8.5	58.0	130.0	19
CC8X0.75	10173	8 x 0.75	8.5	58.0	130.0	19
CC9G0.75	10041	9 G 0.75	9.8	65.0	153.0	19
CC10G0.75	10042	10 G 0.75	9.8	72.0	162.0	19
CC12G0.75	10043	12 G 0.75	10.1	86.0	179.0	19
CC12X0.75	10044	12 x 0.75	10.1	86.0	179.0	19
CC14G0.75	10045	14 G 0.75	10.8	101.0	214.0	19
CC15G0.75	10046	15 G 0.75	11.4	108.0	218.0	19
CC18G0.75	10047	18 G 0.75	12.2	130.0	257.0	19
CC19G0.75	10533	19 G 0.75	12.2	137.0	264.0	19
CC20G0.75	10048	20 G 0.75	12.8	144.0	286.0	19
CC21G0.75	10049	21 G 0.75	12.8	151.0	320.0	19
CC25G0.75	10050	25 G 0.75	14.3	180.0	365.0	19
CC27G0.75	10534	27 G 0.75	14.8	195.0	382.0	19
CC32G0.75	10051	32 G 0.75	15.9	230.0	455.0	19
CC34G0.75	10052	34 G 0.75	16.7	245.0	510.0	19
CC37G0.75	10182	37 G 0.75	16.7	266.0	537.0	19
CC40G0.75	10053	40 G 0.75	17.3	288.0	595.0	19
CC41G0.75	10054	41 G 0.75	18.2	296.0	607.0	19
CC42G0.75	10055	42 G 0.75	18.2	302.0	612.0	19
CC50G0.75	10056	50 G 0.75	19.8	360.0	735.0	19
CC61G0.75	10057	61 G 0.75	21.2	439.0	845.0	19
CC65G0.75	10178	65 G 0.75	22.6	468.0	895.0	19
CC80G0.75	10058	80 G 0.75	24.3	576.0	1070.0	19
CC100G0.75	10059	100 G 0.75	27.1	720.0	1322.0	19
CC2X1	10060	2 x 1	5.6	19.2	60.0	18
CC3G1	10061	3 G 1	6.1	29.0	72.0	18
CC3X1	10062	3 x 1	6.1	29.0	72.0	18
CC4G1	10063	4 G 1	6.7	38.0	86.0	18
CC4X1	10064	4 x 1	6.7	38.0	86.0	18
CC5G1	10065	5 G 1	7.5	48.0	104.0	18
CC5X1	10066	5 x 1	7.5	48.0	104.0	18
CC6G1	10067	6 G 1	8.1	58.0	125.0	18
CC7G1	10068	7 G 1	8.1	67.0	141.0	18
CC7X1	10069	7 x 1	8.1	67.0	141.0	18
CC8G1	10070	8 G 1	9.2	77.0	175.0	18
CC9G1	10071	9 G 1	10.6	86.0	200.0	18
CC10G1	10180	10 G 1	10.6	96.0	217.0	18
CC10X1	10170	10 x 1	10.6	96.0	217.0	18

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CC12G1	10072	12 G 1	10.9	115.0	230.0	18
CC12X1	10073	12 x 1	10.9	115.0	230.0	18
CC14G1	10074	14 G 1	11.5	134.0	271.0	18
CC16G1	10075	16 G 1	12.3	154.0	300.0	18
CC18G1	10076	18 G 1	12.9	173.0	343.0	18
CC18X1	10174	18 x 1	12.9	173.0	343.0	18
CC19G1	10197	19 G 1	12.9	182.0	355.0	18
CC20G1	10077	20 G 1	13.8	192.0	375.0	18
CC20X1	10184	20 x 1	13.8	192.0	375.0	18
CC21G1	10179	21 G 1	13.8	205.0	420.0	18
CC24G1	10175	24 G 1	15.4	230.0	440.0	18
CC25G1	10078	25 G 1	15.4	240.0	485.0	18
CC25X1	10176	25 x 1	15.4	240.0	485.0	18
CC26G1	10196	26 G 1	15.4	252.0	500.0	18
CC27G1	10198	27 G 1	15.7	259.0	534.0	18
CC30X1	10168	30 x 1	16.5	308.0	550.0	18
CC34G1	10079	34 G 1	17.9	326.0	650.0	18
CC36G1	10080	36 G 1	17.9	346.0	668.0	18
CC37G1	10199	37 G 1	17.9	355.0	701.0	18
CC40G1	10081	40 G 1	18.6	384.0	755.0	18
CC40X1	10167	40 x 1	18.6	384.0	755.0	18
CC41G1	10082	41 G 1	19.5	394.0	770.0	18
CC42G1	10083	42 G 1	19.5	403.0	810.0	18
CC50G1	10084	50 G 1	21.3	480.0	936.0	18
CC56G1	10085	56 G 1	22.1	538.0	920.0	18
CC61G1	10086	61 G 1	22.7	586.0	1100.0	18
CC65G1	10087	65 G 1	24.3	628.0	1180.0	18
CC80G1	10088	80 G 1	26.3	768.0	1294.0	18
CC100G1	10089	100 G 1	29.3	960.0	1644.0	18
CC2X1.5	10090	2 x 1.5	6.4	29.0	70.0	16
CC3G1.5	10091	3 G 1.5	6.8	43.0	90.0	16
CC3X1.5	10092	3 x 1.5	6.8	43.0	90.0	16
CC4G1.5	10093	4 G 1.5	7.6	58.0	109.0	16
CC4X1.5	10094	4 x 1.5	7.6	58.0	109.0	16
CC5G1.5	10095	5 G 1.5	8.3	72.0	131.0	16
CC5X1.5	10096	5 x 1.5	8.3	72.0	131.0	16
CC6G1.5	10097	6 G 1.5	9.2	86.0	157.0	16
CC7G1.5	10098	7 G 1.5	9.2	101.0	184.0	16
CC7X1.5	10099	7 x 1.5	9.2	101.0	184.0	16
CC8G1.5	10100	8 G 1.5	10.5	115.0	216.0	16
CC9G1.5	10101	9 G 1.5	12.0	129.0	259.0	16
CC10G1.5	10181	10 G 1.5	12.0	144.0	275.0	16
CC11G1.5	10102	11 G 1.5	12.0	158.0	300.0	16
CC12G1.5	10103	12 G 1.5	12.4	173.0	309.0	16
CC12X1.5	10104	12 x 1.5	12.4	173.0	309.0	16
CC14G1.5	10105	14 G 1.5	13.0	202.0	345.0	16
CC16G1.5	10106	16 G 1.5	13.9	230.0	386.0	16
CC18G1.5	10107	18 G 1.5	14.8	259.0	440.0	16
CC19G1.5	10185	19 G 1.5	14.8	279.0	445.0	16
CC20G1.5	10108	20 G 1.5	15.6	288.0	490.0	16
CC21G1.5	10109	21 G 1.5	15.6	302.0	555.0	16
CC25G1.5	10110	25 G 1.5	17.6	360.0	620.0	16
CC27G1.5	10535	27 G 1.5	18.0	389.0	670.0	16
CC32G1.5	10111	32 G 1.5	19.5	461.0	790.0	16
CC34G1.5	10112	34 G 1.5	20.2	490.0	830.0	16
CC37G1.5	10536	37 G 1.5	20.2	533.0	892.0	16
CC41G1.5	10113	41 G 1.5	22.2	591.0	996.0	16
CC42G1.5	10114	42 G 1.5	22.2	605.0	1007.0	16
CC50G1.5	10115	50 G 1.5	24.2	720.0	1250.0	16
CC56G1.5	10116	56 G 1.5	25.1	806.0	1332.0	16
CC61G1.5	10117	61 G 1.5	25.8	878.0	1440.0	16
CC65G1.5	10187	65 G 1.5	27.8	936.0	1602.0	16
CC80G1.5	10118	80 G 1.5	29.8	1152.0	1871.0	16
CC100G1.5	10119	100 G 1.5	33.2	1440.0	2353.0	16
CC2X2.5	10120	2 x 2.5	7.8	48.0	112.0	14
CC3G2.5	10121	3 G 2.5	8.3	72.0	148.0	14
CC3X2.5	10122	3 x 2.5	8.3	72.0	148.0	14
CC4G2.5	10123	4 G 2.5	9.3	96.0	178.0	14
CC4X2.5	10124	4 x 2.5	9.3	96.0	178.0	14
CC5G2.5	10125	5 G 2.5	10.1	120.0	221.0	14
CC5X2.5	10126	5 x 2.5	10.1	120.0	221.0	14
CC7G2.5	10127	7 G 2.5	11.2	168.0	306.0	14
CC7X2.5	10128	7 x 2.5	11.2	168.0	306.0	14
CC8G2.5	10129	8 G 2.5	12.8	192.0	363.0	14
CC10G2.5	10548	10 G 2.5	14.8	240.0	429.0	14
CC12G2.5	10130	12 G 2.5	15.3	288.0	498.0	14
CC14G2.5	10131	14 G 2.5	16.2	336.0	569.0	14
CC18G2.5	10132	18 G 2.5	18.2	432.0	764.0	14
CC21G2.5	10133	21 G 2.5	19.4	504.0	914.0	14
CC25G2.5	10134	25 G 2.5	21.6	600.0	1044.0	14

27.09.2016 / Dimensions and specifications may be changed without prior notice.

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CC34G2.5	10135	34 G 2.5	25.2	816.0	1470.0	14
CC42G2.5	10136	42 G 2.5	27.4	1008.0	1790.0	14
CC50G2.5	10137	50 G 2.5	30.1	1200.0	2095.0	14
CC61G2.5	10138	61 G 2.5	32.2	1464.0	2750.0	14
CC100G2.5	10139	100 G 2.5	41.4	2400.0	4450.0	14
CC2X4	10140	2 x 4	9.2	77.0	195.0	12
CC3G4	10141	3 G 4	9.8	115.0	230.0	12
CC4G4	10142	4 G 4	10.9	154.0	295.0	12
CC5G4	10143	5 G 4	12.1	192.0	361.0	12
CC7G4	10144	7 G 4	13.4	269.0	458.0	12
CC8G4	10145	8 G 4	15.2	307.0	590.0	12
CC10G4	10549	10 G 4	17.6	384.0	687.0	12
CC12G4	10146	12 G 4	18.2	461.0	790.0	12
CC3G6	10147	3 G 6	11.9	173.0	355.0	10
CC4G6	10148	4 G 6	13.2	230.0	424.0	10
CC5G6	10149	5 G 6	14.7	288.0	525.0	10
CC7G6	10150	7 G 6	16.2	403.0	625.0	10
CC3G10	10151	3 G 10	14.9	288.0	540.0	8
CC4G10	10152	4 G 10	16.6	384.0	701.0	8
CC5G10	10153	5 G 10	18.3	480.0	858.0	8
CC7G10	10154	7 G 10	20.2	672.0	1106.0	8
CC3G16	10190	3 G 16	18.5	461.0	827.0	6
CC4G16	10155	4 G 16	20.6	614.0	1035.0	6
CC5G16	10156	5 G 16	22.8	768.0	1259.0	6
CC7G16	10157	7 G 16	25.2	1075.0	1780.0	6
CC3G25	10191	3 G 25	22.5	720.0	1186.0	4
CC4G25	10158	4 G 25	25.2	960.0	1582.0	4
CC5G25	10159	5 G 25	27.9	1200.0	1999.0	4
CC7G25	10160	7 G 25	30.8	1680.0	2825.0	4
CC3G35	10192	3 G 35	25.3	1008.0	1585.0	2
CC4G35	10161	4 G 35	28.1	1344.0	2105.0	2
CC5G35	10162	5 G 35	31.0	1680.0	2633.0	2
CC3G50	10193	3 G 50	30.0	1440.0	2550.0	1
CC4G50	10163	4 G 50	33.3	1920.0	2940.0	1
CC5G50	10188	5 G 50	37.0	2400.0	2936.0	1
CC3G70	10194	3 G 70	34.2	2016.0	3180.0	2/0
CC4G70	10164	4 G 70	38.2	2688.0	4090.0	2/0
CC5G70	10189	5 G 70	42.4	3360.0	5443.0	2/0
CC3G95	10195	3 G 95	39.8	2736.0	4680.0	3/0
CC4G95	10165	4 G 95	44.2	3648.0	5540.0	3/0
CC5G95	10333	5 G 95	49.0	4560.0	6931.0	3/0
CC4G120	10166	4 G 120	49.4	4608.0	7000.0	4/0
CC4G150	13139	4 G 150	54.7	5760.0	8340.0	300 kcmil
CC4G185	13140	4 G 185	62.7	7104.0	9904.0	350 kcmil