

Y-CY-JZ

flexible, Cu-screened, transparent, EMC-preferred type, meter marking



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
- **Mutual capacitance**
acc. to different cross sections
0,5 up to 2,5 mm²:
core/core approx. 150 nF/km
core/screen approx. 270 nF/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
- Inner sheath of PVC, grey
- Tinned copper braided screen, approx. 85% coverage
- Outer sheath of special PVC
- Sheath colour: transparent
- With meter marking

Properties

- Extensively oil resistant, oil-/chemical resistance see "Technical Informations"
- 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)
- AWG sizes are approximate equivalent values. The actual cross section is in mm².
- Unscreened analogue type:

JZ-500

Application

For use as a data and control cable in machinery, computer systems etc. as well as a signal cable for electronics. The high level of screening ensures a high degree of interference protection. The screening density assures disturbancefree transmission of all signals and impulses. The PVC-inner sheaths of those cables raise the mechanical stress. The applied clear transparent PVC outer sheath accentuates the optical view of the tinned copper braid.

EMC = Electromagnetic compatibility

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

CC = 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.
CC2X0.5CY	16200	2 x 0.5	7.0	41.0	67.0	20
CC3G0.5CY	16201	3 G 0.5	7.3	45.0	83.0	20
CC3X0.5CY	16169	3 x 0.5	7.3	45.0	83.0	20
CC4G0.5CY	16202	4 G 0.5	7.9	54.0	94.0	20
CC4X0.5CY	16170	4 x 0.5	7.9	54.0	94.0	20
CC5G0.5CY	16203	5 G 0.5	8.4	66.0	108.0	20
CC5X0.5CY	16171	5 x 0.5	8.4	66.0	108.0	20
CC6G0.5CY	16204	6 G 0.5	9.1	73.0	125.0	20
CC7G0.5CY	16205	7 G 0.5	9.1	79.0	136.0	20
CC7X0.5CY	17172	7 x 0.5	9.1	79.0	136.0	20
CC8G0.5CY	16206	8 G 0.5	9.7	82.0	150.0	20
CC10G0.5CY	16207	10 G 0.5	10.7	107.0	170.0	20
CC12G0.5CY	16208	12 G 0.5	11.5	137.0	195.0	20
CC14G0.5CY	16209	14 G 0.5	12.2	142.0	223.0	20
CC16G0.5CY	16210	16 G 0.5	12.7	147.0	250.0	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.
CC18G0.5CY	16211	18 G 0.5	13.5	156.0	277.0	20
CC20G0.5CY	16212	20 G 0.5	14.2	173.0	310.0	20
CC21G0.5CY	16315	21 G 0.5	14.2	189.0	331.0	20
CC24G0.5CY	16213	24 G 0.5	15.5	236.0	390.0	20
CC25G0.5CY	16214	25 G 0.5	15.7	250.0	407.0	20
CC30G0.5CY	16215	30 G 0.5	16.2	297.0	520.0	20
CC32G0.5CY	16216	32 G 0.5	17.0	312.0	550.0	20
CC36G0.5CY	16217	36 G 0.5	17.7	320.0	585.0	20
CC40G0.5CY	16218	40 G 0.5	18.4	345.0	654.0	20
CC41G0.5CY	16453	41 G 0.5	18.9	348.0	671.0	20
CC50G0.5CY	16219	50 G 0.5	20.7	407.0	740.0	20
CC61G0.5CY	16220	61 G 0.5	22.0	520.0	850.0	20
CC80G0.5CY	16221	80 G 0.5	25.0	690.0	1080.0	20
CC100G0.5CY	16222	100 G 0.5	27.4	805.0	1350.0	20

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CC2X0.75CY	16223	2 x 0.75	7.7	46.0	87.0	19	CC4X1.5CY	16181	4 x 1.5	9.8	99.0	168.0	16
CC3G0.75CY	16224	3 G 0.75	8.0	57.0	98.0	19	CC5G1.5CY	16274	5 G 1.5	10.8	123.0	202.0	16
CC3X0.75CY	16173	3 x 0.75	8.0	57.0	98.0	19	CC5X1.5CY	16182	5 x 1.5	10.8	123.0	202.0	16
CC4G0.75CY	16225	4 G 0.75	8.5	63.0	113.0	19	CC7G1.5CY	16275	7 G 1.5	11.7	148.0	304.0	16
CC4X0.75CY	16196	4 x 0.75	8.5	63.0	113.0	19	CC7X1.5CY	16183	7 x 1.5	11.7	148.0	304.0	16
CC5G0.75CY	16226	5 G 0.75	9.3	76.0	130.0	19	CC8G1.5CY	16276	8 G 1.5	12.6	172.0	336.0	16
CC5X0.75CY	16174	5 x 0.75	9.3	76.0	130.0	19	CC10G1.5CY	16277	10 G 1.5	14.2	198.0	420.0	16
CC6G0.75CY	16227	6 G 0.75	9.9	82.0	156.0	19	CC12G1.5CY	16278	12 G 1.5	14.9	274.0	434.0	16
CC7G0.75CY	16228	7 G 0.75	9.9	100.0	184.0	19	CC14G1.5CY	16279	14 G 1.5	15.8	294.0	480.0	16
CC7X0.75CY	16175	7 x 0.75	9.9	100.0	184.0	19	CC16G1.5CY	16280	16 G 1.5	16.7	318.0	525.0	16
CC8G0.75CY	16229	8 G 0.75	10.6	112.0	221.0	19	CC18G1.5CY	16281	18 G 1.5	17.4	386.0	640.0	16
CC10G0.75CY	16230	10 G 0.75	11.8	140.0	270.0	19	CC20G1.5CY	16282	20 G 1.5	18.5	401.0	690.0	16
CC12G0.75CY	16231	12 G 0.75	12.7	175.0	292.0	19	CC21G1.5CY	16317	21 G 1.5	18.5	447.0	720.0	16
CC14G0.75CY	16232	14 G 0.75	13.3	190.0	315.0	19	CC24G1.5CY	16283	24 G 1.5	20.4	487.0	770.0	16
CC16G0.75CY	16233	16 G 0.75	14.1	204.0	335.0	19	CC25G1.5CY	16284	25 G 1.5	20.8	531.0	805.0	16
CC18G0.75CY	16234	18 G 0.75	14.9	240.0	358.0	19	CC28G1.5CY	16285	28 G 1.5	21.4	562.0	900.0	16
CC20G0.75CY	16235	20 G 0.75	15.4	262.0	420.0	19	CC30G1.5CY	16286	30 G 1.5	21.6	598.0	950.0	16
CC21G0.75CY	16316	21 G 0.75	15.4	274.0	454.0	19	CC35G1.5CY	16287	35 G 1.5	23.2	685.0	1100.0	16
CC24G0.75CY	16236	24 G 0.75	17.3	291.0	480.0	19	CC40G1.5CY	16288	40 G 1.5	24.5	759.0	1350.0	16
CC25G0.75CY	16237	25 G 0.75	17.5	306.0	508.0	19	CC41G1.5CY	16456	41 G 1.5	25.0	840.0	1381.0	16
CC27G0.75CY	16238	27 G 0.75	17.7	326.0	535.0	19	CC50G1.5CY	16289	50 G 1.5	27.4	997.0	1675.0	16
CC30G0.75CY	16239	30 G 0.75	18.3	340.0	640.0	19	CC61G1.5CY	16290	61 G 1.5	29.2	1120.0	1800.0	16
CC32G0.75CY	16240	32 G 0.75	18.9	349.0	688.0	19	CC80G1.5CY	16291	80 G 1.5	33.4	1360.0	2300.0	16
CC36G0.75CY	16241	36 G 0.75	19.7	358.0	730.0	19	CC100G1.5CY	16292	100 G 1.5	36.8	1690.0	2600.0	16
CC40G0.75CY	16242	40 G 0.75	20.4	371.0	950.0	19	CC2X2.5CY	16293	2 x 2.5	10.1	110.0	180.0	14
CC41G0.75CY	16454	41 G 0.75	21.0	403.0	971.0	19	CC3G2.5CY	16294	3 G 2.5	10.8	148.0	216.0	14
CC50G0.75CY	16243	50 G 0.75	23.2	470.0	1100.0	19	CC4G2.5CY	16295	4 G 2.5	11.5	169.0	267.0	14
CC61G0.75CY	16244	61 G 0.75	24.6	550.0	1290.0	19	CC5G2.5CY	16296	5 G 2.5	12.8	220.0	347.0	14
CC80G0.75CY	16245	80 G 0.75	28.3	715.0	1510.0	19	CC7G2.5CY	16297	7 G 2.5	14.0	284.0	407.0	14
CC100G0.75CY	16246	100 G 0.75	31.1	910.0	1640.0	19	CC10G2.5CY	16298	10 G 2.5	16.8	369.0	660.0	14
CC2X1CY	16248	2 x 1	8.0	54.0	97.0	18	CC12G2.5CY	16318	12 G 2.5	17.9	470.0	722.0	14
CC3G1CY	16249	3 G 1	8.3	64.0	103.0	18	CC2X4CY	16299	2 x 4	11.6	124.0	302.0	12
CC3X1CY	16176	3 x 1	8.3	64.0	103.0	18	CC3G4CY	16300	3 G 4	12.5	178.0	340.0	12
CC4G1CY	16250	4 G 1	9.0	76.0	146.0	18	CC4G4CY	16301	4 G 4	13.7	234.0	410.0	12
CC4X1CY	16177	4 x 1	9.0	76.0	146.0	18	CC5G4CY	16302	5 G 4	14.9	284.0	502.0	12
CC5G1CY	16251	5 G 1	9.7	89.0	169.0	18	CC7G4CY	16303	7 G 4	16.2	321.0	638.0	12
CC5X1CY	16178	5 x 1	9.7	89.0	169.0	18	CC2X6CY	16304	2 x 6	13.7	176.0	350.0	10
CC6G1CY	16252	6 G 1	10.3	101.0	199.0	18	CC3G6CY	16305	3 G 6	14.4	245.0	450.0	10
CC7G1CY	16253	7 G 1	10.3	114.0	219.0	18	CC4G6CY	16306	4 G 6	15.7	316.0	559.0	10
CC7X1CY	16179	7 x 1	10.3	114.0	219.0	18	CC5G6CY	16307	5 G 6	17.3	442.0	702.0	10
CC8G1CY	16254	8 G 1	11.2	130.0	270.0	18	CC7G6CY	16308	7 G 6	19.0	530.0	907.0	10
CC10G1CY	16255	10 G 1	12.6	156.0	330.0	18	CC2X10CY	16309	2 x 10	16.6	260.0	500.0	8
CC12G1CY	16256	12 G 1	13.3	186.0	350.0	18	CC3G10CY	16310	3 G 10	17.6	367.0	750.0	8
CC14G1CY	16257	14 G 1	14.1	198.0	400.0	18	CC4G10CY	16311	4 G 10	19.4	549.0	1020.0	8
CC16G1CY	16258	16 G 1	14.8	214.0	422.0	18	CC5G10CY	16312	5 G 10	21.3	604.0	1115.0	8
CC18G1CY	16259	18 G 1	15.6	284.0	514.0	18	CC7G10CY	16313	7 G 10	23.4	820.0	1500.0	8
CC20G1CY	16260	20 G 1	16.4	325.0	545.0	18	CC4G16CY	16460	4 G 16	23.4	807.0	1380.0	6
CC24G1CY	16261	24 G 1	18.2	366.0	640.0	18	CC5G16CY	16314	5 G 16	26.0	940.0	1553.0	6
CC25G1CY	16262	25 G 1	18.5	387.0	689.0	18	CC4G25CY	16461	4 G 25	28.3	1169.0	1890.0	4
CC28G1CY	16263	28 G 1	19.1	421.0	710.0	18	CC5G25CY	16462	5 G 25	31.5	1420.0	2270.0	4
CC30G1CY	16264	30 G 1	19.2	457.0	762.0	18	CC4G35CY	16463	4 G 35	32.9	1680.0	2390.0	2
CC34G1CY	16265	34 G 1	20.9	500.0	910.0	18	CC5G35CY	16464	5 G 35	36.9	2020.0	2885.0	2
CC40G1CY	16266	40 G 1	21.5	536.0	1070.0	18	CC4G50CY	16465	4 G 50	38.6	2370.0	3315.0	1
CC41G1CY	16455	41 G 1	22.2	578.0	1092.0	18	CC5G50CY	16157	5 G 50	43.5	2880.0	4150.0	1
CC50G1CY	16267	50 G 1	24.8	681.0	1315.0	18	CC4G70CY	16466	4 G 70	46.1	3257.0	4600.0	2/0
CC61G1CY	16268	61 G 1	26.0	710.0	1370.0	18	CC5G70CY	16158	5 G 70	50.5	4032.0	5750.0	2/0
CC80G1CY	16269	80 G 1	30.0	940.0	1610.0	18	CC4G95CY	16467	4 G 95	51.1	4060.0	6060.0	3/0
CC100G1CY	16270	100 G 1	33.1	1180.0	1840.0	18	CC5G95CY	16159	5 G 95	56.0	5244.0	7580.0	3/0
CC2X1.5CY	16271	2 x 1.5	8.6	64.0	130.0	16	CC4G120CY	16468	4 G 120	56.5	5231.0	7315.0	4/0
CC3G1.5CY	16272	3 G 1.5	9.2	82.0	152.0	16	CC5G120CY	16160	5 G 120	62.1	6624.0	9150.0	4/0
CC3X1.5CY	16180	3 x 1.5	9.2	82.0	152.0	16	CC4G150CY	16167	4 G 150	64.6	7760.0	9680.0	300 kcmil
CC4G1.5CY	16273	4 G 1.5	9.8	99.0	168.0	16	CC5G150CY	16168	5 G 150	70.6	8496.0	10170.0	300 kcmil

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