

Y-CY-JZ

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



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
- **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

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.

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

Part no.	No. cores x cross-sec. mm ²	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
16200	2 x 0,5	7,0	41,0	67,0	20
16201	3 G 0,5	7,5	45,0	83,0	20
16169	3 x 0,5	7,5	45,0	83,0	20
16202	4 G 0,5	7,9	54,0	94,0	20
16170	4 x 0,5	7,9	54,0	94,0	20
16203	5 G 0,5	8,6	66,0	108,0	20
16171	5 x 0,5	8,6	66,0	108,0	20
16204	6 G 0,5	9,3	73,0	125,0	20
16205	7 G 0,5	9,3	79,0	136,0	20
17172	7 x 0,5	9,3	79,0	136,0	20
16206	8 G 0,5	9,9	82,0	150,0	20
16207	10 G 0,5	10,6	107,0	170,0	20
16208	12 G 0,5	11,4	137,0	195,0	20
16209	14 G 0,5	12,3	142,0	223,0	20
16210	16 G 0,5	12,8	147,0	250,0	20

Part no.	No. cores x cross-sec. mm ²	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
16211	18 G 0,5	13,7	156,0	277,0	20
16212	20 G 0,5	14,3	173,0	310,0	20
16315	21 G 0,5	14,3	189,0	331,0	20
16213	24 G 0,5	15,8	236,0	390,0	20
16214	25 G 0,5	15,8	250,0	407,0	20
16215	30 G 0,5	16,7	297,0	520,0	20
16216	32 G 0,5	17,2	312,0	550,0	20
16217	36 G 0,5	17,9	320,0	585,0	20
16218	40 G 0,5	18,5	345,0	654,0	20
16453	41 G 0,5	19,4	348,0	671,0	20
16219	50 G 0,5	20,9	407,0	740,0	20
16220	61 G 0,5	22,1	520,0	850,0	20
16221	80 G 0,5	25,4	690,0	1080,0	20
16222	100 G 0,5	28,1	805,0	1350,0	20

Continuation ►

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16223	2 x 0,75	7,7	46,0	87,0	19	16181	4 x 1,5	10,0	99,0	168,0	16
16224	3 G 0,75	8,0	57,0	98,0	19	16274	5 G 1,5	10,9	123,0	202,0	16
16173	3 x 0,75	8,0	57,0	98,0	19	16182	5 x 1,5	10,9	123,0	202,0	16
16225	4 G 0,75	8,9	63,0	113,0	19	16275	7 G 1,5	12,0	148,0	304,0	16
16196	4 x 0,75	8,9	63,0	113,0	19	16183	7 x 1,5	12,0	148,0	304,0	16
16226	5 G 0,75	9,5	76,0	130,0	19	16276	8 G 1,5	13,0	172,0	336,0	16
16174	5 x 0,75	9,5	76,0	130,0	19	16277	10 G 1,5	14,1	198,0	420,0	16
16227	6 G 0,75	10,1	82,0	156,0	19	16278	12 G 1,5	15,3	274,0	434,0	16
16228	7 G 0,75	10,1	100,0	184,0	19	16279	14 G 1,5	16,4	294,0	480,0	16
16175	7 x 0,75	10,1	100,0	184,0	19	16280	16 G 1,5	17,1	318,0	525,0	16
16229	8 G 0,75	10,9	112,0	221,0	19	16281	18 G 1,5	18,0	386,0	640,0	16
16230	10 G 0,75	11,9	140,0	270,0	19	16282	20 G 1,5	19,0	401,0	690,0	16
16231	12 G 0,75	12,8	175,0	292,0	19	16317	21 G 1,5	19,0	447,0	720,0	16
16232	14 G 0,75	13,8	190,0	315,0	19	16283	24 G 1,5	21,0	487,0	770,0	16
16233	16 G 0,75	14,4	204,0	335,0	19	16284	25 G 1,5	21,0	531,0	805,0	16
16234	18 G 0,75	15,2	240,0	358,0	19	16285	28 G 1,5	22,2	562,0	900,0	16
16235	20 G 0,75	16,2	262,0	420,0	19	16286	30 G 1,5	22,2	598,0	950,0	16
16316	21 G 0,75	16,2	274,0	454,0	19	16287	35 G 1,5	24,0	685,0	1100,0	16
16236	24 G 0,75	17,7	291,0	480,0	19	16288	40 G 1,5	25,0	759,0	1350,0	16
16237	25 G 0,75	17,7	306,0	508,0	19	16456	41 G 1,5	25,9	840,0	1381,0	16
16238	27 G 0,75	17,7	326,0	535,0	19	16289	50 G 1,5	28,4	997,0	1675,0	16
16239	30 G 0,75	18,5	340,0	640,0	19	16290	61 G 1,5	30,2	1120,0	1800,0	16
16240	32 G 0,75	19,5	349,0	688,0	19	16291	80 G 1,5	34,4	1360,0	2300,0	16
16241	36 G 0,75	20,1	358,0	730,0	19	16292	100 G 1,5	38,4	1690,0	2600,0	16
16242	40 G 0,75	20,9	371,0	950,0	19	16293	2 x 2,5	10,4	110,0	180,0	14
16454	41 G 0,75	21,5	403,0	971,0	19	16294	3 G 2,5	10,9	148,0	216,0	14
16243	50 G 0,75	23,6	470,0	1100,0	19	16295	4 G 2,5	12,0	169,0	267,0	14
16244	61 G 0,75	25,0	550,0	1290,0	19	16296	5 G 2,5	12,9	220,0	347,0	14
16245	80 G 0,75	28,6	715,0	1510,0	19	16297	7 G 2,5	14,2	284,0	407,0	14
16246	100 G 0,75	31,6	910,0	1640,0	19	16298	10 G 2,5	16,9	369,0	660,0	14
16248	2 x 1	8,0	54,0	97,0	18	16318	12 G 2,5	18,3	470,0	722,0	14
16249	3 G 1	8,6	64,0	103,0	18	16299	2 x 4	12,0	124,0	302,0	12
16176	3 x 1	8,6	64,0	103,0	18	16300	3 G 4	12,6	178,0	340,0	12
16250	4 G 1	9,3	76,0	146,0	18	16301	4 G 4	13,9	234,0	410,0	12
16177	4 x 1	9,3	76,0	146,0	18	16302	5 G 4	15,2	284,0	502,0	12
16251	5 G 1	9,9	89,0	169,0	18	16303	7 G 4	16,6	321,0	638,0	12
16178	5 x 1	9,9	89,0	169,0	18	16304	2 x 6	14,0	176,0	350,0	10
16252	6 G 1	10,7	101,0	199,0	18	16305	3 G 6	14,9	245,0	450,0	10
16253	7 G 1	10,7	114,0	219,0	18	16306	4 G 6	16,4	316,0	559,0	10
16179	7 x 1	10,7	114,0	219,0	18	16307	5 G 6	17,9	442,0	702,0	10
16254	8 G 1	11,8	130,0	270,0	18	16308	7 G 6	19,6	530,0	907,0	10
16255	10 G 1	12,6	156,0	330,0	18	16309	2 x 10	17,0	260,0	500,0	8
16256	12 G 1	13,9	186,0	350,0	18	16310	3 G 10	18,1	367,0	750,0	8
16257	14 G 1	14,7	198,0	400,0	18	16311	4 G 10	19,9	549,0	1020,0	8
16258	16 G 1	15,3	214,0	422,0	18	16312	5 G 10	22,0	604,0	1115,0	8
16259	18 G 1	16,3	284,0	514,0	18	16313	7 G 10	24,0	820,0	1500,0	8
16260	20 G 1	17,0	325,0	545,0	18	16460	4 G 16	24,1	807,0	1380,0	6
16261	24 G 1	18,6	366,0	640,0	18	16314	5 G 16	26,7	940,0	1553,0	6
16262	25 G 1	18,6	387,0	689,0	18	16461	4 G 25	29,1	1169,0	1890,0	4
16263	28 G 1	19,9	421,0	710,0	18	16462	5 G 25	32,2	1420,0	2270,0	4
16264	30 G 1	19,9	457,0	762,0	18	16463	4 G 35	32,1	1680,0	2390,0	2
16265	34 G 1	21,3	500,0	910,0	18	16464	5 G 35	35,5	2020,0	2885,0	2
16266	40 G 1	22,2	536,0	1070,0	18	16465	4 G 50	37,9	2370,0	3315,0	1
16455	41 G 1	23,0	578,0	1092,0	18	16157	5 G 50	42,0	2880,0	4150,0	1
16267	50 G 1	25,3	681,0	1315,0	18	16466	4 G 70	43,0	3257,0	4600,0	2/0
16268	61 G 1	26,9	710,0	1370,0	18	16158	5 G 70	47,8	4032,0	5750,0	2/0
16269	80 G 1	30,7	940,0	1610,0	18	16467	4 G 95	49,6	4060,0	6060,0	3/0
16270	100 G 1	33,9	1180,0	1840,0	18	16159	5 G 95	54,8	5244,0	7580,0	3/0
16271	2 x 1,5	9,0	64,0	130,0	16	16468	4 G 120	54,6	5231,0	7315,0	4/0
16272	3 G 1,5	9,4	82,0	152,0	16	16160	5 G 120	59,7	6624,0	9150,0	4/0
16180	3 x 1,5	9,4	82,0	152,0	16	16167	4 G 150	59,8	7760,0	9680,0	300 kcmil
16273	4 G 1,5	10,0	99,0	168,0	16	16168	5 G 150	65,5	8496,0	10170,0	300 kcmil

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