

**Y-CY-JZ** flexible, Cu-screened, transparent, EMC-preferred type, meter marking

A

**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** U<sub>0</sub>/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 mm<sup>2</sup>:  
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 80x10<sup>6</sup> 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 table Technical Informations
- The materials used in manufacture are cadmium-free and contain no silicone and 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 (equivalent DIN VDE 0472 part 804 test method B)

**Note**

- G = with green-yellow conductor  
x = without green-yellow conductor (OZ)
- AWG sizes are approximate equivalent values. The actual cross-section is in mm<sup>2</sup>.
- unscreened analogue type:  
**JZ-500**, confer page 30

**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 = The product is conformed with the EC Low-Voltage Directive 2006/95/EC.

Part no.	No. cores x cross-sec. mm <sup>2</sup>	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.	Part no.	No. cores x cross-sec. mm <sup>2</sup>	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
16200	2 x 0,5	7,0	41,0	67,0	20	16219	50 G 0,5	20,7	407,0	740,0	20
16201	3 G 0,5	7,3	45,0	83,0	20	16220	61 G 0,5	22,0	520,0	850,0	20
16169	3 x 0,5	7,3	45,0	83,0	20	16221	80 G 0,5	25,0	690,0	1080,0	20
16202	4 G 0,5	7,9	54,0	94,0	20	16222	100 G 0,5	27,4	805,0	1350,0	20
16170	4 x 0,5	7,9	54,0	94,0	20	16223	2 x 0,75	7,7	46,0	87,0	19
16203	5 G 0,5	8,4	66,0	108,0	20	16224	3 G 0,75	8,0	57,0	98,0	19
16171	5 x 0,5	8,4	66,0	108,0	20	16173	3 x 0,75	8,0	57,0	98,0	19
16204	6 G 0,5	9,1	73,0	125,0	20	16225	4 G 0,75	8,5	63,0	113,0	19
16205	7 G 0,5	9,1	79,0	136,0	20	16196	4 x 0,75	8,5	63,0	113,0	19
17172	7 x 0,5	9,1	79,0	136,0	20	16226	5 G 0,75	9,3	76,0	130,0	19
16206	8 G 0,5	9,7	82,0	150,0	20	16174	5 x 0,75	9,3	76,0	130,0	19
16207	10 G 0,5	10,7	107,0	170,0	20	16227	6 G 0,75	9,9	82,0	156,0	19
16208	12 G 0,5	11,5	137,0	195,0	20	16228	7 G 0,75	9,9	100,0	184,0	19
16209	14 G 0,5	12,2	142,0	223,0	20	16175	7 x 0,75	9,9	100,0	184,0	19
16210	16 G 0,5	12,7	147,0	250,0	20	16229	8 G 0,75	10,6	112,0	221,0	19
16211	18 G 0,5	13,5	156,0	277,0	20	16230	10 G 0,75	11,8	140,0	270,0	19
16212	20 G 0,5	14,2	173,0	310,0	20	16231	12 G 0,75	12,7	175,0	292,0	19
16315	21 G 0,5	14,2	189,0	331,0	20	16232	14 G 0,75	13,3	190,0	315,0	19
16213	24 G 0,5	15,5	236,0	390,0	20	16233	16 G 0,75	14,1	204,0	335,0	19
16214	25 G 0,5	15,7	250,0	407,0	20	16234	18 G 0,75	14,9	240,0	358,0	19
16215	30 G 0,5	16,2	297,0	520,0	20	16235	20 G 0,75	15,4	262,0	420,0	19
16216	32 G 0,5	17,0	312,0	550,0	20	16316	21 G 0,75	15,4	274,0	454,0	19
16217	36 G 0,5	17,7	320,0	585,0	20	16236	24 G 0,75	17,3	291,0	480,0	19
16218	40 G 0,5	18,4	345,0	654,0	20	16237	25 G 0,75	17,5	306,0	508,0	19
16453	41 G 0,5	18,9	348,0	671,0	20	16238	27 G 0,75	17,7	326,0	535,0	19
						16239	30 G 0,75	18,3	340,0	640,0	19

Continuation ▶