

# Y-CY-JB

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



## Technical data

- PVC 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**  
up to 1,5 mm<sup>2</sup> U<sub>0</sub>/U 300/500 V  
from 2,5 mm<sup>2</sup> U<sub>0</sub>/U 450/750 V
- **Test voltage**  
4000 V
- **Breakdown voltage**  
min. 8000 V
- **Mutual capacitance**  
acc. to different cross sections  
0,5 up to 2,5 mm<sup>2</sup>:  
core/core approx. 150 pF/m  
core/screen approx. 270 pF/m
- **Coupling resistance**  
max. 250 Ohm/km
- **Minimum bending radius**  
flexing 10x cable Ø  
fixed installation 5x cable Ø

## Cable structure

- Bare copper conductor, fine wire  
acc. to DIN VDE 0295 cl.5 /  
IEC 60228 cl.5
- Core insulation of PVC  
compound type Z 7225
- Core identification to JB/OB colour code
- GN-YE conductor, 3 cores and above  
in the outer layer
- Cores stranded in layers with  
optimal lay length
- Inner sheath of PVC
- Tinned copper braided screen,  
approx. 85% coverage
- Outer sheath of PVC
- Sheath colour: transparent
- With meter marking

## Properties

- Extensively oil resistant,  
oil-/chemical resistance  
see "Technical Information"
- 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

## Note

- G = with GN-YE conductor  
x = without GN-YE conductor (OB).
- Up to 5 cores and conductor cross section  
up to 1,5 mm<sup>2</sup> with VDE REG-No.
- AWG sizes are approximate equivalent  
values. The actual cross section is in mm<sup>2</sup>.
- Unscreened analogue type:

**JB-500**

**JB-750**

## Application

For use as connecting 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 disturbance-free 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. These cables are suitable for flexible use for medium mechanical stresses with free movements. The dense screening assures disturbance-free transmission of all signals and impulses. An ideal disturbance-free control cable for the above application.

**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 <sup>2</sup>	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
16121	2 x 0,5	7,0	41,0	67,0	20
16122	3 G 0,5	7,5	45,0	83,0	20
16123	4 G 0,5	7,9	54,0	94,0	20
16124	5 G 0,5	8,6	66,0	108,0	20
16125	2 x 0,75	7,7	46,0	87,0	19
16126	3 G 0,75	8,0	57,0	98,0	19
16127	4 G 0,75	8,9	63,0	113,0	19
16128	5 G 0,75	9,5	76,0	130,0	19
16129	2 x 1	8,0	54,0	97,0	18
16130	3 G 1	8,6	64,0	103,0	18
16131	4 G 1	9,3	76,0	146,0	18
16132	5 G 1	9,9	89,0	169,0	18
16133	2 x 1,5	9,0	64,0	130,0	16
16134	3 G 1,5	9,4	82,0	152,0	16
16135	4 G 1,5	10,0	99,0	168,0	16
16136	5 G 1,5	10,9	123,0	202,0	16

Part no.	No. cores x cross-sec. mm <sup>2</sup>	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
16137	2 x 2,5	11,2	110,0	180,0	14
16138	3 G 2,5	12,2	148,0	216,0	14
16139	4 G 2,5	13,2	169,0	267,0	14
16140	5 G 2,5	14,4	220,0	347,0	14
16141	2 x 4	13,6	124,0	302,0	12
16142	3 G 4	14,3	178,0	340,0	12
16143	4 G 4	15,7	234,0	410,0	12
16144	5 G 4	17,2	284,0	502,0	12
16145	2 x 6	15,0	176,0	350,0	10
16146	3 G 6	16,2	245,0	450,0	10
16147	4 G 6	17,6	316,0	559,0	10
16148	5 G 6	19,4	442,0	702,0	10
16149	2 x 10	18,4	260,0	500,0	8
16150	3 G 10	19,8	367,0	750,0	8
16151	4 G 10	21,5	549,0	1020,0	8
16152	5 G 10	24,0	604,0	1115,0	8

Continuation ▶

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Part no.	No. cores x cross-sec. mm <sup>2</sup>	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
16153	4 G 16	26,1	807,0	1380,0	6
16154	5 G 16	28,7	940,0	1553,0	6
16469	4 G 25	31,4	1169,0	1890,0	4
16155	5 G 25	34,9	1420,0	2270,0	4
16470	4 G 35	34,2	1680,0	2390,0	2
16156	5 G 35	38,2	2020,0	2885,0	2

Part no.	No. cores x cross-sec. mm <sup>2</sup>	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
16471	4 G 50	40,4	2370,0	3315,0	1
16119	5 G 50	44,6	2880,0	4150,0	1
16472	4 G 70	45,5	3257,0	4600,0	2/0
16473	4 G 95	51,7	4060,0	6060,0	3/0
16474	4 G 120	56,7	5231,0	7315,0	4/0
16247	4 G 150	62,9	7760,0	9340,0	300 kcmil
16319	4 G 185	69,0	8104,0	11120,0	350 kcmil

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