



## 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**  
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
- **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, fine wire conductors, bunch stranded to DIN VDE 0295 cl.5, BS 6360 cl.5 and IEC 60228 cl.5
- Core insulation of special 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 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 (OB).
- by 5 cores 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 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 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= 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.
16121	2 x 0,5	7,0	41,0	67,0	20	16137	2 x 2,5	11,1	110,0	180,0	14
16122	3 G 0,5	7,3	45,0	83,0	20	16138	3 G 2,5	11,6	148,0	216,0	14
16123	4 G 0,5	7,9	54,0	94,0	20	16139	4 G 2,5	12,7	169,0	267,0	14
16124	5 G 0,5	8,4	66,0	108,0	20	16140	5 G 2,5	14,1	220,0	347,0	14
16125	2 x 0,75	7,7	46,0	87,0	19	16141	2 x 4	13,3	124,0	302,0	12
16126	3 G 0,75	8,0	57,0	98,0	19	16142	3 G 4	14,0	178,0	340,0	12
16127	4 G 0,75	8,5	63,0	113,0	19	16143	4 G 4	15,3	234,0	410,0	12
16128	5 G 0,75	9,3	76,0	130,0	19	16144	5 G 4	16,7	284,0	502,0	12
16129	2 x 1	8,0	54,0	97,0	18	16145	2 x 6	14,7	176,0	350,0	10
16130	3 G 1	8,3	64,0	103,0	18	16146	3 G 6	15,6	245,0	450,0	10
16131	4 G 1	9,0	76,0	146,0	18	16147	4 G 6	17,0	316,0	559,0	10
16132	5 G 1	9,7	89,0	169,0	18	16148	5 G 6	18,6	442,0	702,0	10
16133	2 x 1,5	8,6	64,0	130,0	16	16149	2 x 10	18,0	260,0	500,0	8
16134	3 G 1,5	9,2	82,0	152,0	16	16150	3 G 10	19,0	367,0	750,0	8
16135	4 G 1,5	9,8	99,0	168,0	16	16151	4 G 10	21,1	549,0	1020,0	8
16136	5 G 1,5	10,8	123,0	202,0	16	16152	5 G 10	23,1	604,0	1115,0	8

Continuation ▢

# Y-CY-JB flexible, Cu-screened, transparent, EMC-preferred type, meter marking



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.
16153	4 G 16	25,3	807,0	1380,0	6
16154	5 G 16	28,0	940,0	1553,0	6
16469	4 G 25	31,1	1169,0	1890,0	4
16155	5 G 25	34,3	1420,0	2270,0	4
16470	4 G 35	33,9	1680,0	2390,0	2
16156	5 G 35	37,8	2020,0	2885,0	2

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.
16471	4 G 50	40,1	2370,0	3315,0	1
16119	5 G 50	45,0	2880,0	4150,0	1
16472	4 G 70	46,0	3257,0	4600,0	2/0
16473	4 G 95	51,2	4060,0	6060,0	3/0
16474	4 G 120	56,3	5231,0	7315,0	4/0
16247	4 G 150	64,7	7760,0	9340,0	300 kcmil
16319	4 G 185	69,5	8104,0	11120,0	350 kcmil

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