

Y-CY-JB

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**
up to 1,5 mm² U₀/U 300/500 V
from 2,5 mm² U₀/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 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 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 "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 (OB).
- Up to 5 cores and conductor cross section up to 1,5 mm² with VDE REG-No.
- AWG sizes are approximate equivalent values. The actual cross section is in mm².
- 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 = 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.
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 ²	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 ²	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 ²	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	66,9	8104,0	11120,0	350 kcmil

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