

SY-JB

flexible, colour coded, with steel wire braiding, meter marking



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 2,5 mm² U₀/U 300/500 V
from 4 mm² U₀/U 450/750 V
- **Test voltage**
4000 V
- **Breakdown voltage**
min. 8000 V
- **Minimum bending radius**
flexing 20x cable Ø
fixed installation 6x 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 special PVC
- Galvanized steel wire screening
- Outer sheath of special PVC compound type TM2 to DIN VDE 0207-363-4-1/DIN EN 50363-4-1
- 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 2,5 mm² with VDE REG-No.
- AWG sizes are approximate equivalent values. The actual cross section is in mm².
- Please note the cleanroom qualification when ordering.
- Screened analogue type:

SY-JZ

Application

SY-JB cables are used as connecting and control cables in tool machinery, plant installation, power stations and in data equipment. The braided screen offers best possible protection against mechanical damage. The galvanized coating on the steel wire braiding not only helps protect against corrosion, but also notably improves the soldering performance.

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.
12200	2 x 0,5	7,0	9,6	80,0	20
12201	3 G 0,5	7,5	14,4	92,0	20
12202	4 G 0,5	7,9	19,2	102,0	20
12203	5 G 0,5	8,6	24,0	119,0	20
12204	7 G 0,5	9,3	33,6	157,0	20
12205	10 G 0,5	10,6	48,0	205,0	20
12206	12 G 0,5	11,4	58,0	218,0	20
12218	2 x 0,75	7,7	14,4	98,0	19
12219	3 G 0,75	8,0	21,6	103,0	19
12220	4 G 0,75	8,9	28,8	122,0	19
12221	5 G 0,75	9,5	36,0	142,0	19
12312	6 G 0,75	10,1	43,2	180,0	19
12222	7 G 0,75	10,1	50,0	185,0	19
12223	9 G 0,75	11,9	65,0	249,0	19
12313	10 G 0,75	11,9	72,0	252,0	19
12224	12 G 0,75	12,8	86,0	292,0	19
12234	2 x 1	8,0	19,2	112,0	18
12235	3 G 1	8,6	28,8	132,0	18
12236	4 G 1	9,3	38,4	143,0	18
12237	5 G 1	9,9	48,0	166,0	18
12238	6 G 1	10,7	58,0	220,0	18
12239	7 G 1	10,7	67,0	227,0	18
12240	8 G 1	11,8	77,0	277,0	18
12241	9 G 1	12,6	86,0	295,0	18
12242	12 G 1	13,9	115,0	340,0	18

Part no.	No. cores x cross-sec. mm ²	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
12256	2 x 1,5	9,0	29,0	129,0	16
12257	3 G 1,5	9,4	43,0	149,0	16
12258	4 G 1,5	10,0	58,0	185,0	16
12259	5 G 1,5	10,9	72,0	205,0	16
12260	6 G 1,5	12,0	87,0	255,0	16
12261	7 G 1,5	12,0	101,0	285,0	16
12262	8 G 1,5	13,0	115,0	340,0	16
12263	9 G 1,5	14,1	130,0	347,0	16
12264	10 G 1,5	14,1	144,0	418,0	16
12265	11 G 1,5	14,1	158,0	430,0	16
12266	12 G 1,5	15,3	173,0	444,0	16
12277	2 x 2,5	10,4	48,0	185,0	14
12278	3 G 2,5	10,9	72,0	248,0	14
12279	4 G 2,5	12,0	96,0	290,0	14
12280	5 G 2,5	12,9	120,0	347,0	14
12281	7 G 2,5	14,2	168,0	420,0	14
12282	12 G 2,5	18,3	288,0	660,0	14
12291	2 x 4	13,6	77,0	330,0	12
12318	3 G 4	14,3	115,0	375,0	12
12292	4 G 4	15,7	154,0	428,0	12
12293	5 G 4	17,2	192,0	504,0	12
12294	7 G 4	18,6	269,0	640,0	12
12295	3 G 6	16,2	173,0	543,0	10
12296	4 G 6	17,6	230,0	571,0	10
12297	5 G 6	19,4	288,0	671,0	10
12298	7 G 6	21,0	403,0	845,0	10

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.
12319	3 G 10	19,8	288,0	735,0	8
12299	4 G 10	21,5	384,0	943,0	8
12300	5 G 10	24,0	480,0	1065,0	8
12301	7 G 10	26,6	672,0	1551,0	8
12320	3 G 16	23,5	461,0	1080,0	6
12302	4 G 16	26,1	614,0	1360,0	6
12303	5 G 16	28,7	768,0	1740,0	6
12304	7 G 16	31,4	1075,0	2166,0	6
12321	3 G 25	28,6	720,0	1630,0	4
12305	4 G 25	31,4	960,0	2020,0	4
12306	5 G 25	34,9	1200,0	2465,0	4
12322	3 G 35	31,3	1008,0	1932,0	2
12307	4 G 35	34,2	1344,0	2570,0	2
12308	5 G 35	38,2	1680,0	3185,0	2

Part no.	No. cores x cross-sec. mm ²	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
12323	3 G 50	36,4	1440,0	2679,0	1
12309	4 G 50	40,4	1920,0	3513,0	1
12314	5 G 50	44,6	2400,0	4248,0	1
12324	3 G 70	41,1	2016,0	2790,0	2/0
12310	4 G 70	45,5	2688,0	4810,0	2/0
12315	5 G 70	50,4	3360,0	5880,0	2/0
12325	3 G 95	47,0	2736,0	4870,0	3/0
12311	4 G 95	51,7	3648,0	6360,0	3/0
12316	5 G 95	57,2	4560,0	8071,0	3/0
12326	3 G 120	51,6	3456,0	6230,0	4/0
12317	4 G 120	56,7	4608,0	8170,0	4/0
12328	4 G 150	62,9	5760,0	9970,0	300 kcmil

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