

SY-JB

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



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 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

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
- Galvanized steel wire screening
- Outer sheath of 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 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 2,5 mm² with VDE REG-No.
- Please note the cleanroom qualification when
ordering.
- AWG sizes are approximate equivalent
values. The actual cross section is in mm².
- 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	7,4	9,6	80,0	20
12201	3 G 0,5	7,7	14,4	92,0	20
12202	4 G 0,5	8,1	19,2	102,0	20
12203	5 G 0,5	9,0	24,0	119,0	20
12204	7 G 0,5	9,5	33,6	157,0	20
12205	10 G 0,5	11,4	48,0	205,0	20
12206	12 G 0,5	11,9	58,0	218,0	20
12218	2 x 0,75	7,9	14,4	98,0	19
12219	3 G 0,75	8,2	21,6	103,0	19
12220	4 G 0,75	9,1	28,8	122,0	19
12221	5 G 0,75	9,7	36,0	142,0	19
12312	6 G 0,75	10,5	43,2	180,0	19
12222	7 G 0,75	10,5	50,0	185,0	19
12223	9 G 0,75	12,1	65,0	249,0	19
12313	10 G 0,75	12,8	72,0	252,0	19
12224	12 G 0,75	13,4	86,0	292,0	19
12234	2 x 1	8,2	19,2	112,0	18
12235	3 G 1	9,0	28,8	132,0	18
12236	4 G 1	9,5	38,4	143,0	18
12237	5 G 1	10,1	48,0	166,0	18
12238	6 G 1	10,9	58,0	220,0	18
12239	7 G 1	10,9	67,0	227,0	18
12240	8 G 1	12,0	77,0	277,0	18
12241	9 G 1	12,8	86,0	295,0	18
12242	12 G 1	14,0	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	9,2	29,0	129,0	16
12257	3 G 1,5	9,6	43,0	149,0	16
12258	4 G 1,5	10,4	58,0	185,0	16
12259	5 G 1,5	11,1	72,0	205,0	16
12260	6 G 1,5	12,2	87,0	255,0	16
12261	7 G 1,5	12,2	101,0	285,0	16
12262	8 G 1,5	13,2	115,0	340,0	16
12263	9 G 1,5	14,1	130,0	347,0	16
12264	10 G 1,5	15,0	144,0	418,0	16
12265	11 G 1,5	15,0	158,0	430,0	16
12266	12 G 1,5	15,4	173,0	444,0	16
12277	2 x 2,5	10,6	48,0	185,0	14
12278	3 G 2,5	11,1	72,0	248,0	14
12279	4 G 2,5	12,2	96,0	290,0	14
12280	5 G 2,5	13,3	120,0	347,0	14
12281	7 G 2,5	14,2	168,0	420,0	14
12282	12 G 2,5	18,5	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)