

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 4,0 mm² U₀/U 450/750 V
- **Test voltage** 4000 V
- **Breakdown voltage** min. 8000 V
- **Insulation resistance**
min. 20 MΩm x km
- **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 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).
- 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, confer page 55

Application

SY-JB cables are used as measuring 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= The product is conformed with the EC Low-Voltage Directive 2006/95/EC.

Part no.	No. cores x cross-sec. mm ²	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
12200	2 x 0,5	7,2	9,6	80,0	20
12201	3 G 0,5	7,5	14,4	92,0	20
12202	4 G 0,5	8,1	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	10,7	48,0	205,0	20
12206	12 G 0,5	11,7	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	8,7	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	11,8	65,0	249,0	19
12313	10 G 0,75	12,0	72,0	252,0	19
12224	12 G 0,75	12,8	86,0	292,0	19
12234	2 x 1	8,2	19,2	112,0	18
12235	3 G 1	8,5	28,8	132,0	18
12236	4 G 1	9,2	38,4	143,0	18
12237	5 G 1	9,9	48,0	166,0	18
12238	6 G 1	10,5	58,0	220,0	18
12239	7 G 1	10,5	67,0	227,0	18
12240	8 G 1	11,4	77,0	277,0	18
12241	9 G 1	12,8	86,0	295,0	18
12242	12 G 1	13,4	115,0	340,0	18
12256	2 x 1,5	8,8	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	11,8	87,0	255,0	16
12261	7 G 1,5	11,8	101,0	285,0	16
12262	8 G 1,5	12,7	115,0	340,0	16
12263	9 G 1,5	13,9	130,0	347,0	16
12264	10 G 1,5	14,3	144,0	418,0	16
12265	11 G 1,5	14,8	158,0	430,0	16
12266	12 G 1,5	15,0	173,0	444,0	16

Part no.	No. cores x cross-sec. mm ²	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
12277	2 x 2,5	10,2	48,0	185,0	14
12278	3 G 2,5	10,9	72,0	248,0	14
12279	4 G 2,5	11,6	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	17,7	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	15,4	154,0	428,0	12
12293	5 G 4	16,9	192,0	504,0	12
12294	7 G 4	18,4	269,0	640,0	12
12295	3 G 6	15,6	173,0	543,0	10
12296	4 G 6	17,0	230,0	571,0	10
12297	5 G 6	18,6	288,0	671,0	10
12298	7 G 6	20,6	403,0	845,0	10
12319	3 G 10	19,2	288,0	735,0	8
12299	4 G 10	21,1	384,0	943,0	8
12300	5 G 10	23,3	480,0	1065,0	8
12301	7 G 10	25,4	672,0	1551,0	8
12320	3 G 16	23,0	461,0	1080,0	6
12302	4 G 16	25,5	614,0	1360,0	6
12303	5 G 16	28,2	768,0	1740,0	6
12304	7 G 16	30,8	1075,0	2166,0	6
12321	3 G 25	28,2	720,0	1630,0	4
12305	4 G 25	31,0	960,0	2020,0	4
12306	5 G 25	34,3	1200,0	2465,0	4
12322	3 G 35	31,0	1008,0	1932,0	2
12307	4 G 35	34,0	1344,0	2570,0	2
12308	5 G 35	38,0	1680,0	3185,0	2
12323	3 G 50	36,7	1440,0	2679,0	1
12309	4 G 50	40,4	1920,0	3513,0	1
12314	5 G 50	45,2	2400,0	4248,0	1
12324	3 G 70	42,3	2016,0	2790,0	2/0
12310	4 G 70	46,2	2688,0	4810,0	2/0
12315	5 G 70	50,5	3360,0	5880,0	2/0

Continuation ▶

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Part no.	No. cores x cross-sec. mm ²	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
12325	3 G 95	47,2	2736,0	4870,0	3/0
12311	4 G 95	51,3	3648,0	6360,0	3/0
12316	5 G 95	56,3	4560,0	8071,0	3/0

Part no.	No. cores x cross-sec. mm ²	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
12326	3 G 120	51,9	3456,0	6230,0	4/0
12317	4 G 120	56,4	4608,0	8170,0	4/0
12328	4 G 150	64,4	5760,0	9970,0	300 kcmil

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

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Suitable accessories can be found in Chapter X.

- Cable Gland - HELUTOP® HT-MS-EP4