



## Technical data

- Special PVC control cables
- Adapted to DIN VDE 0245, 0281, 0293, 0295
- **Temperature range**  
flexing -5°C to +80°C  
fixed installation -40°C to +80°C
- **Nominal voltage**  
U<sub>0</sub>/U 300/500 V up to 2,5 mm<sup>2</sup>  
U<sub>0</sub>/U 450/750 V as of 4,0 mm<sup>2</sup>
- **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 80x10<sup>6</sup> cJ/kg (up to 80 Mrad)

## Cable construction

- Bare copper, fine wire conductors, to DIN VDE 0295 cl. 5, BS 6360 cl. 5 and IEC 60228 cl. 5
- Core insulation of special PVC Z7225
- Cores colour coded as per JB/OB colour code, see Technical Informations
- Green-yellow earth core in the outer layer (3 cores and above)
- Cores stranded in layers with optimal lay-length
- Special PVC inner jacket
- Galvanized steel wire screening
- Special PVC outer jacket
- Colour transparent (also available in grey)

## Properties

- Extensively oil resistant  
Chemical Resistance - see table Technical Informations
- PVC self-extinguishing and flame retardant according to DIN VDE 0482 part 265-2-1/ EN 50265-2-1/ IEC 60332-1 (equivalent DIN VDE 0472 part 804 test method B)
- The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers

## Note

- G = with green-yellow earth core;  
x = without green-yellow earth core (OB).
- Further dimensions available on request.
- AWG sizes are approximate equivalent values. The actual cross-section is in mm<sup>2</sup>.
- Please note the cleanroom qualification when ordering.

## 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 73/23/EEC and 93/68/EEC.

Part No.	No. cores x cross-sec. mm <sup>2</sup>	Outer ø ca. mm	Cop. weight kg / km	Weight ca. kg / km	AWG-No.
12200	2 x 0,5	7,2	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	8,6	24,0	119,0	20
12204	7 G 0,5	9,8	33,6	157,0	20
12205	10 G 0,5	11,5	48,0	205,0	20
12206	12 G 0,5	11,6	58,0	218,0	20
12218	2 x 0,75	7,8	14,4	98,0	18
12219	3 G 0,75	8,1	21,6	103,0	18
12220	4 G 0,75	8,6	28,8	122,0	18
12221	5 G 0,75	9,4	36,0	142,0	18
12312	6 G 0,75	9,9	43,2	180,0	18
12222	7 G 0,75	10,7	50,0	185,0	18
12223	9 G 0,75	12,2	65,0	249,0	18
12313	10 G 0,75	12,5	72,0	252,0	18
12224	12 G 0,75	12,8	86,0	292,0	18
12234	2 x 1	8,2	19,2	112,0	17
12235	3 G 1	8,5	28,8	132,0	17
12236	4 G 1	9,3	38,4	143,0	17
12237	5 G 1	9,8	48,0	166,0	17
12238	6 G 1	10,6	58,0	220,0	17
12239	7 G 1	11,3	67,0	227,0	17
12240	8 G 1	12,1	77,0	277,0	17
12241	9 G 1	12,8	86,0	295,0	17
12242	12 G 1	13,6	115,0	340,0	17
12256	2 x 1,5	8,9	29,0	129,0	16
12257	3 G 1,5	9,3	43,0	149,0	16
12258	4 G 1,5	9,9	58,0	185,0	16
12259	5 G 1,5	10,8	72,0	205,0	16
12260	6 G 1,5	11,6	87,0	255,0	16
12261	7 G 1,5	12,5	101,0	285,0	16
12262	8 G 1,5	13,6	115,0	340,0	16
12263	9 G 1,5	14,3	130,0	347,0	16
12264	10 G 1,5	14,9	144,0	418,0	16
12265	11 G 1,5	15,1	158,0	430,0	16
12266	12 G 1,5	15,1	173,0	444,0	16

Part No.	No. cores x cross-sec. mm <sup>2</sup>	Outer ø ca. mm	Cop. weight kg / km	Weight ca. kg / km	AWG-No.
12277	2 x 2,5	10,4	48,0	185,0	14
12278	3 G 2,5	11,0	72,0	248,0	14
12279	4 G 2,5	11,9	96,0	290,0	14
12280	5 G 2,5	12,8	120,0	347,0	14
12281	7 G 2,5	15,2	168,0	420,0	14
12282	12 G 2,5	18,2	288,0	660,0	14
12291	2 x 4	11,9	77,0	330,0	12
12318	3 G 4	12,6	115,0	375,0	12
12292	4 G 4	13,9	154,0	428,0	12
12293	5 G 4	15,0	192,0	504,0	12
12294	7 G 4	16,4	269,0	640,0	12
12295	3 G 6	14,5	173,0	543,0	10
12296	4 G 6	15,8	230,0	571,0	10
12297	5 G 6	17,2	288,0	671,0	10
12298	7 G 6	18,9	403,0	845,0	10
12319	3 G 10	18,0	288,0	735,0	8
12299	4 G 10	20,0	384,0	943,0	8
12300	5 G 10	21,9	480,0	1065,0	8
12301	7 G 10	24,2	672,0	1551,0	8
12320	3 G 16	21,0	461,0	1080,0	6
12302	4 G 16	22,9	614,0	1360,0	6
12303	5 G 16	25,5	768,0	1740,0	6
12304	7 G 16	28,0	1075,0	2166,0	6
12321	3 G 25	26,2	720,0	1630,0	4
12305	4 G 25	28,9	960,0	2020,0	4
12306	5 G 25	31,8	1200,0	2465,0	4
12322	3 G 35	31,6	1008,0	1932,0	2
12307	4 G 35	32,2	1344,0	2570,0	2
12308	5 G 35	36,4	1680,0	3185,0	2
12323	3 G 50	37,4	1440,0	2679,0	1
12309	4 G 50	38,2	1920,0	3513,0	1
12314	5 G 50	43,2	2400,0	4248,0	1