



Technical data

- Special PVC control cables
- Adapted to DIN VDE 0281, 0293, 0295
- **Temperature range**
flexing -15 °C¹⁾ to +80 °C
fixed installation -40 °C to +80 °C
- **Nominal voltage**
U₀/U 300/500 V up to 2,5 mm²
U₀/U 450/750 V as of 4,0 mm²
- **Test voltage** 4000 V
- **Breakdown voltage** min. 8000 V
- **Insulation resistance**
min. 20 MOhm 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)
- ¹⁾ cold bending test, impact resistance test at low temperatures, elongation test at low temperatures. Tested according VDE 0473 part 811-1-4, EN 60811-1-4

Cable structure

- 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 Z 7225
- 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)
- with meter marking, change-over in 2011

Properties

- Extensively oil resistant, oil-/ chemical Resistance - see table Technical Informations
- PVC self-extinguishing and flame retardant according to VDE 0482-332-1-2, DIN EN 60332-1-2/ 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 mm².
- Please note the cleanroom qualification when ordering.
- **screened analogue type:**
SY-JZ, see page A 34

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/EG.

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	7,3	9,6	80,0	20
12201	3 G 0,5	7,6	14,4	92,0	20
12202	4 G 0,5	8,2	19,2	102,0	20
12203	5 G 0,5	8,9	24,0	119,0	20
12204	7 G 0,5	9,5	33,6	157,0	20
12205	10 G 0,5	11,1	48,0	205,0	20
12206	12 G 0,5	11,8	58,0	218,0	20
12218	2 x 0,75	7,9	14,4	98,0	18
12219	3 G 0,75	8,2	21,6	103,0	18
12220	4 G 0,75	8,7	28,8	122,0	18
12221	5 G 0,75	9,5	36,0	142,0	18
12312	6 G 0,75	10,1	43,2	180,0	18
12222	7 G 0,75	10,3	50,0	185,0	18
12223	9 G 0,75	11,8	65,0	249,0	18
12313	10 G 0,75	11,8	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	9,2	38,4	143,0	17
12237	5 G 1	9,9	48,0	166,0	17
12238	6 G 1	10,5	58,0	220,0	17
12239	7 G 1	10,7	67,0	227,0	17
12240	8 G 1	11,3	77,0	277,0	17
12241	9 G 1	12,6	86,0	295,0	17
12242	12 G 1	13,4	115,0	340,0	17
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	13,9	144,0	418,0	16
12265	11 G 1,5	15,0	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	13,5	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	16,4	269,0	640,0	12
12295	3 G 6	15,5	173,0	543,0	10
12296	4 G 6	16,9	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	19,1	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	23,1	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	31,0	1075,0	2166,0	6
12321	3 G 25	28,4	720,0	1630,0	4
12305	4 G 25	31,2	960,0	2020,0	4
12306	5 G 25	34,5	1200,0	2465,0	4
12322	3 G 35	30,9	1008,0	1932,0	2
12307	4 G 35	34,0	1344,0	2570,0	2
12308	5 G 35	37,7	1680,0	3185,0	2
12323	3 G 50	37,0	1440,0	2679,0	1
12309	4 G 50	40,6	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	46,3	2688,0	4810,0	2/0
12315	5 G 70	50,7	3360,0	5880,0	2/0

Continuation ►

SY-JB flexible, colour coded, with steel wire braiding, meter marking



Part no.	No. cores x cross-sec. mm²	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
12325	3 G 95	47,1	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. mm²	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
12326	3 G 120	51,8	3456,0	6230,0	4/0
12317	4 G 120	56,4	4608,0	8170,0	4/0
12328	4 G 150	64,2	5760,0	9970,0	300 kcmil

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

Tools

Cable shears
Box spanners
Strippers
Crimping tools
Pliers
Skinning knife



You can find tools in our catalogue Cable Accessories.
Request it now at www.helukabel.de

