SY-JB / SY-OB

galvanised steel wire braid, with inner sheath

TECHNICAL DATA

PVC control and connection cable in alignment with DIN VDE 0285-525-2-51 / DIN EN 50525-2-51

Temperature range	flexible -15°C to +80°C fixed -40°C to +80°C
Nominal voltage	0.5 - 2.5 mm²: AC U_0/U 300/500 V 4 - 150 mm²: AC U_0/U 450/750 V
Test voltage core/core	4000 V
Test voltage core/screen	2000 V
Minimum bending radius	flexible 20x Outer-Ø fixed 6x Outer-Ø

CABLE STRUCTURE

- Copper wire bare, finely stranded acc. to DIN VDE 0295 Class 5 / IEC 60228 Class 5
- Core insulation: Special-PVC
- Core identification acc. to JB/OB colour code, colour coded
- Protective conductor: starting with 3 cores, G = with protective conductor GN-YE, in the outer layer (JB), X = without protective conductor (OB)
- Cores stranded in layers with optimal lay lengths
- Inner sheath: PVC acc. to DIN VDE 0207-363-4-1 / DIN EN 50363-4-1 (compound type TM2)
- Steel wire braid, galvanised
- Outer sheath: PVC acc. to DIN VDE 0207-363-4-1 / DIN EN 50363-4-1 (compound type TM2)
- Sheath colour: transparent
- Length marking: in metres

PROPERTIES

- largely resistant to: oil, for details, 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
- certifications and approvals: EAC

APPLICATION

Used as a connection and control cable for flexible applications involving medium mechanical stress with free movement, without tensile stress and without forced motion control in dry rooms, however, not suitable for outdoor use in machine tools, plant construction and in data processing technology. Due to the dense braiding, the cable is well protected against mechanical damage. The galvanisation of the braid prevents corrosion and guarantees improved solderability of the braid.

NOTES

- the conductor is metrically (mm²) constructed, AWG numbers are approximated, and are for reference only
- please note "cleanroom qualification" in your order

Part no.	No. cores x cross-sec. mm²	AWG, approx.	Outer Ø mm, approx.	Cu factor per km	Weight kg/km, approx.
12200	2 x 0.5	20	7.4	9.6	80.0
12201	3 G 0.5	20	7.7	14.4	92.0
12202	4 G 0.5	20	8.1	19.2	102.0
12203	5 G 0.5	20	9.0	24.0	119.0
12204	7 G 0.5	20	9.5	33.6	157.0
12205	10 G 0.5	20	11.4	48.0	205.0
12206	12 G 0.5	20	11.9	58.0	218.0
12218	2 x 0.75	19	7.9	14.4	98.0
12219	3 G 0.75	19	8.2	21.6	103.0
12220	4 G 0.75	19	9.1	28.8	122.0
12221	5 G 0.75	19	9.7	36.0	142.0
12312	6 G 0.75	19	10.5	43.2	180.0
12222	7 G 0.75	19	10.5	50.0	185.0
12223	9 G 0.75	19	12.1	65.0	249.0
12313	10 G 0.75	19	12.8	72.0	252.0
12224	12 G 0.75	19	13.4	86.0	292.0
12234	2 x 1	18	8.2	19.2	112.0
12235	3 G 1	18	9.0	28.8	132.0
12236	4 G 1	18	9.5	38.4	143.0
12237	5 G 1	18	10.1	48.0	166.0
12238	6 G 1	18	10.9	58.0	220.0
12239	7 G 1	18	10.9	67.0	227.0
12240	8 G 1	18	12.0	77.0	277.0
12241	9 G 1	18	12.8	86.0	295.0
12242	12 G 1	18	14.0	115.0	340.0
12256	2 x 1.5	16	9.2	29.0	129.0
12257	3 G 1.5	16	9.6	43.0	149.0
12258	4 G 1.5	16	10.4	58.0	185.0
12259	5 G 1.5	16	11.1	72.0	205.0
12260	6 G 1.5	16	12.2	87.0	255.0
12261	7 G 1.5	16	12.2	101.0	285.0
12262	8 G 1.5	16	13.2	115.0	340.0
12263	9 G 1.5	16	14.1	130.0	347.0
12264	10 G 1.5	16	15.0	144.0	418.0
12265	11 G 1.5	16	15.0	158.0	430.0
12266	12 G 1.5	16	15.4	173.0	444.0
12277	2 x 2.5	14	10.6	48.0	185.0
12278	3 G 2.5	14	11.1	72.0	248.0
12279	4 G 2.5	14	12.2	96.0	290.0
12280	5 G 2.5	14	13.3	120.0	347.0
12281	7 G 2.5	14	14.2	168.0	420.0
12282	12 G 2.5	14	18.5	288.0	660.0

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Part no.	No. cores x cross-sec. mm²	AWG, approx.	Outer Ø mm, approx.	Cu factor per km	Weight kg/km, approx.
12291	2 x 4	12	13.6	77.0	330.0
12318	3 G 4	12	14.3	115.0	375.0
12292	4 G 4	12	15.7	154.0	428.0
12293	5 G 4	12	17.2	192.0	504.0
12294	7 G 4	12	18.6	269.0	640.0
12295	3 G 6	10	16.2	173.0	543.0
12296	4 G 6	10	17.6	230.0	571.0
12297	5 G 6	10	19.4	288.0	671.0
12298	7 G 6	10	21.0	403.0	845.0
12319	3 G 10	8	19.8	288.0	735.0
12299	4 G 10	8	21.5	384.0	943.0
12300	5 G 10	8	24.0	480.0	1065.0
12301	7 G 10	8	26.6	672.0	1551.0
12320	3 G 16	6	23.5	461.0	1080.0
12302	4 G 16	6	26.1	614.0	1360.0
12303	5 G 16	6	28.7	768.0	1740.0
12304	7 G 16	6	31.4	1075.0	2166.0
12321	3 G 25	4	28.6	720.0	1630.0

Part no.	No. cores x cross-sec. mm²	AWG, approx.	Outer Ø mm, approx.	Cu factor per km	Weight kg/km, approx.
12305	4 G 25	4	31.4	960.0	2020.0
12306	5 G 25	4	34.9	1200.0	2465.0
12322	3 G 35	2	31.3	1008.0	1932.0
12307	4 G 35	2	34.2	1344.0	2570.0
12308	5 G 35	2	38.2	1680.0	3185.0
12323	3 G 50	1	36.4	1440.0	2679.0
12309	4 G 50	1	40.4	1920.0	3513.0
12314	5 G 50	1	44.6	2400.0	4248.0
12324	3 G 70	2/0	41.1	2016.0	2790.0
12310	4 G 70	2/0	45.5	2688.0	4810.0
12315	5 G 70	2/0	50.4	3360.0	5880.0
12325	3 G 95	3/0	47.0	2736.0	4870.0
12311	4 G 95	3/0	51.7	3648.0	6360.0
12316	5 G 95	3/0	57.2	4560.0	8071.0
12326	3 G 120	4/0	51.6	3456.0	6230.0
12317	4 G 120	4/0	56.7	4608.0	8170.0
12328	4 G 150	300 kcmil	62.9	5760.0	9970.0

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