



## YSLYCY-JB

### Application and Description

For use as a data and control cable in Machinery, computer systems etc. as well As a signal cable for electronics. The high level of screening ensures a high degree of interference protection. The screening density assures distur-bance-free transmission of all signals and impulses. The PVC-inner sheats of those cables raise the mechanical stress. The applied clear transparent PVC outer sheath accentuates, the optical view of the tinned copper braid. These cables are suitable for flexible use for medium mechanical stresses with free movements. The dense screening assures distur-bance.free transmission of all signals and impulses. An ideal disturbance-free control cable for the above application.

### Cable Construction

- Flexible bare copper strands
- Strands to IEC 60228, EN 60228, VDE0295 class 5
- Spezial PVC Z 7225 insulation
- Core colour coded to JB/OB
- Green-yellow earth core in the outerlayer (3 cores and above)
- Cores stranded in layers with optimal lay-length
- Spezial PVC inner sheath
- Tinned copper, braided screen, approx.85% coverage
- Transparent spezial PVC outer sheath

### Technical Characteristics

- Spezial PVC control cables, adapted to E DIN VDE 0245, 0281 part 13
- Conductor resistance To DIN VDE 0295
- Working Voltage:  $U_0/U$  300/500 V to 1,5 mm<sup>2</sup>       $U_0/U$  450/750 V at 2,5 mm<sup>2</sup>
- Test voltage: 4000 V
- Minimum bending radius: 10-15 x Ø
- Operation temperature rage: -40 °C to 780 °C(static)    -5 °C to 80 °C(flexing)
- Insulation resistance: mind. 20 MOhm x km
- Mutual capacitance according to different cross-sections 0,5mm<sup>2</sup> to 2,5 mm<sup>2</sup>  
core/core (approx. 150 nF/km)    core/screen (approx 270 nF/km)
- Coupling resistance max. 250 Ohm/km
- Radiation resistance: up to 80 x 10<sup>6</sup> cJ/kg (up to 80 Mrad)



### Cable Parameter

AWG	No. of Cores x Nominal Cross Sectional Area # x mm <sup>2</sup>	nominal outer- $\varnothing$ mm	cable weight kg/km	copper weight kg/km
20(16/32)	2 x 0.5	6.9	67	32
20(16/32)	3 G 0.5	7.2	83	39
20(16/32)	4 G 0.5	7.8	94	46
20(16/32)	5 G 0.5	8.3	108	52
18(24/32)	2 x 0.75	7.6	87	39
18(24/32)	3 G 0.75	7.8	98	49
18(24/32)	4 G 0.75	8.3	113	57
18(24/32)	5 G 0.75	9.1	130	69
17(32/32)	2 x 1.0	7.9	97	46
17(32/32)	3 G 1.0	8.2	103	56
17(32/32)	4 G 1.0	8.9	146	69
17(32/32)	5 G 1.0	9.5	169	85
16(30/30)	2 x 1.5	8.4	130	63
16(30/30)	3 G 1.5	9	152	76
16(30/30)	4 G 1.5	9.6	168	96
16(30/30)	5 G 1.5	10.5	202	111
14(30/50)	2 x 2.5	10	180	96
14(30/50)	3 G 2.5	10.7	216	148
14(30/50)	4 G 2.5	11.4	267	174
14(30/50)	5 G 2.5	12.5	347	200
12(56/28)	2 x 4	11.6	302	135
12(56/28)	3 G 4	12.3	340	178
12(56/28)	4 G 4	13.4	410	220
12(56/28)	5 G 4	14.8	502	328
10(84/28)	2 x 6.0	13.5	350	175
10(84/28)	3 G 6.0	14.2	450	240
10(84/28)	4 G 6.0	15.6	559	305
10(84/28)	5 G 6.0	17	702	441
8(80/26)	2 x 10	16.8	500	265
8(80/26)	3 G 10	17.8	750	370
8(80/26)	4 G 10	19.7	1020	485
8(80/26)	5 G 10	21.6	1115	610
6(128/26)	4 G 16	22.6	1380	1240
6(128/26)	5 G 16	25.2	1553	1390
4(200/26)	4 G 25	28.9	1890	1510
4(200/26)	5 G 25	31.8	2270	1840
2(280/26)	4 G 35	32.2	2390	1610
2(280/26)	5 G 35	36.4	2885	2015



# Addison Industrial Cables

## German Standard (VDE)

<b>AWG</b>	<b>No. of Cores x Nominal Cross Sectional Area # x mm<sup>2</sup></b>	<b>nominal outer-<math>\emptyset</math> mm</b>	<b>cable weight kg/km</b>	<b>copper weight kg/km</b>
1(400/26)	4 G 50	38.2	3315	2220
2/0(356/24)	4 G 70	46.8	4600	3090
3/0(485/24)	4 G 95	51	6060	4060
4/0(614/24)	4 G 120	56	7315	5150
300MCM(765/24)	4 G 150	63.5	9340	6740
350MCM(944/24)	4 G 185	68	11120	8418