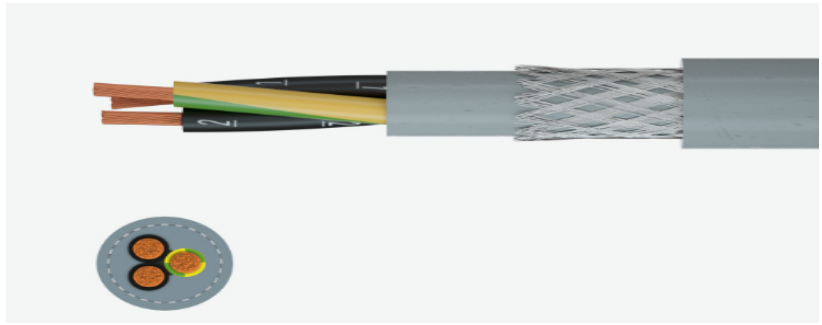
YSLYCY-JZ



Overview

The YSLYCY-JZ is a versatile, flexible control cable engineered for precise signal and data transmission in environments requiring high electromagnetic compatibility (EMC). Its double-sheathed construction features a tinned copper screen that provides exceptional interference resistance. The YSLYCY-JZ cable is widely used in automation machinery, control circuits, and robotic systems. It is designed for fixed installations and can tolerate limited flexing without tensile stress, making it suitable for dry, damp, or wet industrial locations.

Cable structure

Cores
bare copper, fine wire conductors, bunch stranded according DIN VDE 0295 cl.5 and IEC 60228 cl.5

Core insulation
Special PVC TI2
Cores stranded in layers

Color coding
Black with white numbering according to DIN VDE 0293
All cables made of 3 cores and above contain green/yellow earthing core in the outer layer

Inner sheath
PVC TM2 to DIN VDE 0207 part 5

Screening
Tinned copper braiding, 85% coverage

Outer sheath
Transparent PVC TM2 according to DIN VDE 0207, extensively oil resistant
Flame retardant according to IEC 60332.1

Technical data

Specifications
Power and control cables made of special PVC, according to DIN VDE 0245, 0250, 0281

Temperature range
-40°C to +80°C (Fixed)
-5°C to +70°C (Moving)

Nominal voltage
Uo/U 300/500 V

Insulation resistance
20 MΩ/km minimum

Minimum bending radius
4 x Overall Diameter (Fixed); 15 x Overall Diameter (Moving)

Outer sheath printing: VOP CABLES YSLYCY – JZ (No. cores) x (cross-section) mm² CE

	Approximately		
No. cores x cross-sec mm²	Outer diameter Ø mm	Copper weight kg/km	Cable weight kg/km
3x0.5	7.8	14.4	89
4x0.5	8.4	19.2	107
5x0.5	8.9	24.0	121
7x0.5	9.6	28.8	142
10x0.5	11.6	48.0	193
12x0.5	11.9	57.6	212
14x0.5	12.5	67.2	239
18x0.5	13.7	86.4	289
21x0.5	15.1	100.8	342
30x0.5	16.7	144.0	432
40x0.5	18.9	192.0	588
42x0.5	19.2	201.6	571

	Approximately		
No. cores x cross-sec mm²	Outer diameter Ø mm	Copper weight kg/km	Cable weight kg/km
80x0.5	26.3	384.0	1048
52x0.5	21.0	250.0	710
61x0.5	22.5	292.8	794
2x0.75	7.9	14.4	92
3x0.75	8.2	21.6	103
4X0.75	8.7	28.8	120
5x0.75	9.5	36.0	143
7x0.75	10.2	50.4	169
9x0.75	12.5	65.0	254
12x0.75	12.8	86.4	260
18x0.75	14.9	129.6	362

YSLYSY-JZ

	Approximately		
No. cores x cross-sec mm²	Outer diameter Ø mm	Copper weight kg/km	Cable weight kg/km
21x0.75	16.4	151.2	428
25x0.75	17.6	180.0	499
32x0.75	18.9	230.0	598
34x0.75	19.6	244.0	627
41x0.75	21.5	295.0	750
50x0.75	23.3	360.0	885
61x0.75	24.7	439.2	1021
2x1	8.3	19.2	104
3x1	8.6	28.8	118
4x1	9.5	38.4	146
5x1	10.1	48.0	168
6x1	10.8	57.6	193
7x1	10.8	67.2	200
8x1	12.3	76.8	241
9x1	13.0	86.0	298
12x1	13.7	115.2	312
14x1	14.4	134.4	349
18x1	16.0	172.8	440
20x1	16.8	192.0	479
25x1	18.5	240.0	585
34x1	20.6	326.4	741
36x1	21.9	346.0	855
41x1	22.3	393.6	865
50x1	24.2	480..0	1026
61x1	25.8	585.6	1204
65x1	31.0	624.0	1515
2x1.5	9.1	28.8	130
3x1.5	9.5	43.2	149
4x1.5	10.1	57.6	177
5x1.5	11.2	72.0	217
7x1.5	11.9	100.8	258
8x1.5	13.6	115.2	310
9x1.5	14.3	130.0	350
10x1.5	14.9	144.0	366
12x1.5	15.5	172.8	417
14x1.5	16.1	201.6	463
18x1.5	17.7	259.2	573
25x1.5	20.7	360.0	777
32x1.5	24.6	461.0	985

	Approximately		
No. cores x cross-sec mm²	Outer diameter Ø mm	Copper weight kg/km	Cable weight kg/km
42x1.5	28.7	605.0	1380
50x1.5	27.3	720.0	1386
61x1.5	29.1	878.4	1629
3x2.5	11.0	72.0	212
4x2.5	11.9	96.0	261
5x2.5	12.8	120.0	306
7x2.5	14.1	168.0	384
12x2.5	18.4	288.0	621
14x2.5	19.3	336.0	704
18x2.5	21.3	432.0	877
25x2.5	24.9	600.0	1189
32x2.5	31.1	760.0	1725
50x2.5	34.9	1200.0	2215
61x2.5	38.4	1464.0	3018
4x4	13.9	153.6	373
5x4	15.0	192.0	440
4x6	16.3	230.4	522
5x6	17.8	288.0	626
4x10	19.8	384.0	796
5x10	21.8	480.0	969
4x16	22.8	614.4	1134
5x16	25.3	768.0	1395
4x25	28.7	960.0	1772
5x25	31.9	1200.0	2183
4x35	32.4	1344.0	2356
5x35	36.6	1680.0	2952
4x50	42.9	1900.0	3482
5x50	44.2	2390.0	4230
4x70	51.9	2670.0	4785
4x95	58.0	3630.0	6310