

LiYCY-JZ, 300/500V

Flexible, Copper screened, Numbered coded, EMC*

Application

Idea for use as measuring, checking and control cable in machine tool manufacturing, plant engineering and on assembly lines and production lines as well as in office technology (suitable for fixed installation or flexible applications)



Construction	
Conductor	Fine stranded bare copper according to IEC 60228 cl.5
Insulation	PVC core insulation
Cores identification	Black cores with printed continuous white number coding to DIN VDE 0293 Green/yellow protective earth core **(3 cores & above)
Screen	Tinned, copper wire braided
Outer sheath	PVC, Grey colour, self-extinguishing & flame retardant according to IEC 60332-1
Technical Data	
Nominal voltage	300/500 V
Test voltage	Core/Core 3000V : Core/Screen 1500V
Insulation resistance	Min. 20 MOhm x km
Radiation resistance	Up to 80 x 10 ⁶ cJ/kg (up to 80 Mrad)
Temperature range	Flexing: -5°C to +70°C fixed installation: -30°C to +80°C
Minimum bending radius	Approx. 10 x cable Ø

Specifications

No of cores x cross sec.	Approx. outer diameter	Approx. cable weight		No of cores x cross sec.	Approx. outer diameter	Approx. cable weight
mm ²	mm	Kg/km		mm ²	mm	Kg/km
2 x 0.5	5.3	45.00		2 x 1.5	7.0	88.00
3 x 0.5	5.6	55.00		3 x 1.5	7.6	100.00
4 x 0.5	6.2	61.00		4 x 1.5	8.2	126.00
5 x 0.5	6.7	74.00		5 x 1.5	9.1	160.00
6 x 0.5	7.4	89.00		7 x 1.5	10.8	208.00
7 x 0.5	7.9	98.00		8 x 1.5	11.6	244.00
8 x 0.5	8.5	117.00		10 x 1.5	12.8	315.00
10 x 0.5	9.5	135.00		12 x 1.5	13.1	338.00
12 x 0.5	9.6	157.00		2 x 2.5	8.6	130.00
2 x 0.75	5.7	59.00		3 x 2.5	9.4	167.00
3 x 0.75	6.2	66.00		4 x 2.5	10.2	195.00
4 x 0.75	6.7	77.00		5 x 2.5	11.3	223.00
5 x 0.75	7.2	93.00		7 x 2.5	13.5	344.00
6 x 0.75	8.0	113.00		10 x 2.5	15.4	460.00
7 x 0.75	8.6	130.00		12 x 2.5	16.7	570.00
8 x 0.75	9.4	145.00		18 x 2.5	18.1	681.00
10 x 0.75	10.2	180.00		2 x 4	10.9	185.00
12 x 0.75	10.4	202.00		3 x 4	11.5	240.00
2 x 1.0	6.0	65.00		4 x 4	12.8	310.00
3 x 1.0	6.5	80.00		5 x 4	14.1	385.00
4 x 1.0	7.1	98.00		7 x 4	15.7	500.00
5 x 1.0	7.6	127.00		2 x 6	12.1	268.00
6 x 1.0	8.5	144.00		3 x 6	13.0	330.00
7 x 1.0	9.1	158.00		4 x 6	14.5	415.00
8 x 1.0	9.9	197.00		5 x 6	16.1	509.00
10 x 1.0	10.8	232.00		7 x 6	17.9	672.00
12 x 1.0	11.2	260.00				

*EMC: Electromagnetic compatibility – recommended type



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Specifications

No of cores x cross sec.	Approx. outer diameter	Approx. cable weight		No of cores x cross sec.	Approx. outer diameter	Approx. cable weight
mm²	mm	Kg/km		mm²	mm	Kg/km
2 x 10	15.7	425.00		4 x 25	27.0	1,570.00
3 x 10	16.7	500.00		5 x 25	30.0	1,965.00
4 x 10	18.5	783.00		4 x 35	31.7	2,070.00
5 x 10	20.7	856.00		5 x 35	35.7	2,690.00
7 x 10	22.5	1,305.00		4 x 50	35.8	3,015.00
4 x 16	21.3	880.00				
5 x 16	23.9	1,295.00				

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