

Flexible Screened Control Cables LIYCY

Applications

- Power and control where cable flexibility is required – indoor use, in chemically harsh and wet environments
- Where EMC is required



Standards

- DIN VDE 0812
- IEC 60227-1
- IEC 60332-1

Construction

Conductors	Stranded copper conductors type 5 per IEC 60228
Insulation	FR PVC Type D per IEC 60227-1
Color code	1 wire – yellow/green, All other – black, numbered
Core layout	In concentric layers
Core wrapping	Polyester tape ("Mylar")
Screen	Tinned copper braid, 85% coverage
Jacket	FR-PVC type ST5 per IEC 60227-1 Color: grey (RAL 7032)
Printing	Control Cable LIYCY-JZ, NxM, IEC 60332-1, VDE 0812, 300/500V RoHS, Batch-code, Length in m (where N is the number of wires and M is the wire cross-section area in mm ²)

Electrical Properties (20°C)

Conductor resistance:	0.5 mm ²	≤ 39 Ω/km
	0.75 mm ²	≤ 26.4 Ω/km
	1.0 mm ²	≤ 19.5 Ω/km
	1.5 mm ²	≤ 13.3 Ω/km
	2.5 mm ²	≤ 7.98 Ω/km
	4.0 mm ²	≤ 4.95 Ω/km
Insulation dielectric strength:	2000 VDC / 1 minute	
Insulation resistance	20 MΩ/km	
Voltage rating	300/500 V	

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Current load	0.5 mm ²	6 A
	0.75 mm ²	13 A
	1.0 mm ²	16 A
	1.5 mm ²	20 A
	2.5 mm ²	25 A
	4.0 mm ²	35 A

Mechanical and Thermal Properties

Bending radius	> 10 x cable diameter
Operation temperature range	-10° to +70°C

Fire Propagation Properties

- IEC 60332-1

Cable Codes and Technical Parameters

Number of Pairs	DCC Cable Code	DCC PN	Nominal Diameter (mm)	Nominal Weight (kg/km)
2	2x0.75-LIYCY-OZ	2140202D	6.1	49
3	3x0.75-LIYCY-JZ	2140307D	6.3	56
4	4x0.75-LIYCY-JZ	2140402D	6.9	70
7	7x0.75-LIYCY-JZ	2140702D	8.5	109
12	12x0.75-LIYCY-JZ	2141204D	10.7	178
25	25x0.75-LIYCY-JZ	2142502D	14.6	338
2	2x1.0-LIYCY-OZ	2160202D	6.6	61
3	3x1.0-LIYCY-JZ	2160302D	7.1	69
5	5x1.0-LIYCY-JZ	2160502D	8.1	103
2	2x1.5-LIYCY-OZ	2180203D	7.1	74
3	3x1.5-LIYCY-JZ	2180302D	7.5	86
4	4x1.5-LIYCY-JZ	2180402D	8.0	109
5	5x1.5-LIYCY-JZ	2180504D	8.8	132
2	2x2.5-LIYCY-OZ	2220206D	8.7	113
4	4x2.5-LIYCY-JZ	2220402D	9.9	172
4	4x4-LIYCY-JZ	2260402D	11.1	233

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