LIYCY

-40°C to +80°C, 500V



Construction
Conductor: Flexible Bare Copper · IEC 60228 Class 5
Core Insulation: Extruded · PVC
Cabling: Laid Up · Cores twisted in concentric layers
Core Identification: Color-coded according to DIN 47100
Binder: Plastic foil wrapping
Shield: Braid · Tinned Copper Braid
Jacket: Extruded (Pebble Grey RAL 7032) · PVC

Thermal Characteristics
Operating Temperature: -40°C to +80°C
Operating Temperature Range: Fixed installation: -40°C to +80°C · Occasional flexing: -5°C to +70°C.

Electrical Characteristics
Operating Voltage: 500V
Test Voltage: 1500V
Peak Working Voltage & Capacitance: 350 V (for 0.14 mm^2) / 500 V (for ≥ 0.25 mm^2) · Mutual capacitance approx. 120 nF/km (core/core) and 160 nF/km (core/screen).

Application
Industrial Control, Measurement & Signal Transmission: Screened connection cable for measurement, control, and electronic instrumentation in industrial machinery, PLC cabinets, and process automation.

General Characteristics
EMC Tinned Copper Braid Screening: High-density tinned copper wire braid suppresses electromagnetic interference (EMI) in industrial automation and instrumentation circuits.
Compact & Flexible Routing: Fine-wire bare copper conductors and optimized PVC insulation allow small bending radii in control cabinets and machine tools.

Standards & Approvals
DIN VDE 0812: Screened low-frequency data and signal transmission cable.
DIN 47100: Standardized core color identification without color repetition up to 25 cores.

Fire Performance
Fire Performance: IEC 60332-1-2

CASMO Part No.	Total Cores	Conductor Size (mm^2)	Nom. O.D. (mm)	Nom. Copper Weight (kg/km)	Nom. Cable Weight (kg/km)
LIYCY-2X0.14	2	0.14	3.9	11.2	20
LIYCY-3X0.14	3	0.14	4.1	13	27
LIYCY-4X0.14	4	0.14	4.3	14.3	33
LIYCY-5X0.14	5	0.14	4.6	15.5	38
LIYCY-6X0.14	6	0.14	4.9	18.2	44
LIYCY-7X0.14	7	0.14	4.9	19	49
LIYCY-8X0.14	8	0.14	5.8	21.2	56
LIYCY-10X0.14	10	0.14	6.1	28.5	66
LIYCY-12X0.14	12	0.14	6.3	30.4	78
LIYCY-16X0.14	16	0.14	7	43	102
LIYCY-25X0.14	25	0.14	8.4	63	156
LIYCY-2X0.25	2	0.25	4.5	16	32
LIYCY-3X0.25	3	0.25	4.7	21	37

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CABLES FOR EXTREMES

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CASMO Part No.	Total Cores	Conductor Size (mm²)	Nom. O.D. (mm)	Nom. Copper Weight (kg/km)	Nom. Cable Weight (kg/km)
LIYCY-4X0.25	4	0.25	5	24	41
LIYCY-5X0.25	5	0.25	5.6	29	51
LIYCY-6X0.25	6	0.25	6	30	58
LIYCY-7X0.25	7	0.25	6	37	65
LIYCY-8X0.25	8	0.25	7.1	42	73
LIYCY-10X0.25	10	0.25	7.5	46	82
LIYCY-12X0.25	12	0.25	7.7	53	98
LIYCY-16X0.25	16	0.25	8.4	64	124
LIYCY-25X0.25	25	0.25	10.7	114	172
LIYCY-2X0.34	2	0.34	4.9	21	37
LIYCY-3X0.34	3	0.34	5.1	27	42
LIYCY-4X0.34	4	0.34	5.7	28	52
LIYCY-5X0.34	5	0.34	6.2	30	60
LIYCY-6X0.34	6	0.34	6.8	45	64
LIYCY-7X0.34	7	0.34	6.8	48	75
LIYCY-8X0.34	8	0.34	7.8	52	94
LIYCY-10X0.34	10	0.34	8.3	74	105
LIYCY-12X0.34	12	0.34	8.5	80	123
LIYCY-16X0.34	16	0.34	9.4	94	160
LIYCY-25X0.34	25	0.34	11.9	155	259
LIYCY-2X0.5	2	0.5	5.6	29	47
LIYCY-3X0.5	3	0.5	5.9	38	55
LIYCY-4X0.5	4	0.5	6.3	43	70
LIYCY-5X0.5	5	0.5	7	51	90
LIYCY-6X0.5	6	0.5	7.6	59	104
LIYCY-7X0.5	7	0.5	7.6	65	112
LIYCY-8X0.5	8	0.5	8.7	70	120
LIYCY-10X0.5	10	0.5	9.3	88	139
LIYCY-12X0.5	12	0.5	9.6	99	177
LIYCY-16X0.5	16	0.5	10.9	129	239
LIYCY-2X0.75	2	0.75	6	38	53
LIYCY-3X0.75	3	0.75	6.3	49	65

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CASMO Part No.	Total Cores	Conductor Size (mm²)	Nom. O.D. (mm)	Nom. Copper Weight (kg/km)	Nom. Cable Weight (kg/km)
LIYCY-4X0.75	4	0.75	7	58	79
LIYCY-5X0.75	5	0.75	7.6	67	109
LIYCY-7X0.75	7	0.75	8.2	100	156
LIYCY-12X0.75	12	0.75	10.8	154	215
LIYCY-2X1	2	1	6.3	43	72
LIYCY-3X1	3	1	6.8	56	90
LIYCY-4X1	4	1	7.3	68	109
LIYCY-5X1	5	1	8	79	126
LIYCY-7X1	7	1	8.6	118	171
LIYCY-2X1.5	2	1.5	7.1	58	90
LIYCY-3X1.5	3	1.5	7.5	74	115
LIYCY-4X1.5	4	1.5	8.1	108	153

Table Notes

* Core identification according to DIN 47100 (see Color Code Chart below). Standard outer sheath color is Pebble Grey (RAL 7032).

COLOR CODE CHART					
Cond. #	Color	Cond. #	Color	Cond. #	Color
1	White	10	Violet	19	White/Pink
2	Brown	11	Grey/Pink	20	Pink/Brown
3	Green	12	Red/Blue	21	White/Blue
4	Yellow	13	White/Green	22	Brown/Blue
5	Grey	14	Brown/Green	23	White/Red
6	Pink	15	White/Yellow	24	Brown/Red
7	Blue	16	Yellow/Brown	25	White/Black
8	Red	17	White/Grey		
9	Black	18	Grey/Brown		

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