



Електролуks Electrolux

DATA CABLES

DATA CABLES



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LiY -TPC-Y data transmission cables, pair screened



APPLICATIONS

The LiY-TPC-Y are used as data transmission cables in computer networks, as well as in measurement and control sectors. They are also suitable for industrial automation systems. The copper screening assures a interference - free signal transmission.

CABLE STRUCTURE

Core: bare copper, fine wire conductors according to DIN VDE 0295 cl.5 for $> 0,5\text{mm}^2$ and for $0,25\text{mm}^2 = 14 \times 0,15\text{mm}$, $0,34\text{mm}^2 = 7 \times 0,25\text{mm}$

Core Insulation: of PVC YI2

Core Code: coloured cores according to DIN 47100

Cores twisted in pairs

Per Pair: transparent plastic foil wrapping and screened individually, tinned copper, coverage 85%

All pairs stranded together

Outer Sheath: of PVC type YM2, colour grey to RAL 7032.

Flame Retardant according to IEC 60332-1

TECHNICAL DATA

Specifications: data transmission cables, screened per pair according to DIN VDE 0812 and 0814

Nominal Voltage: $0,14\text{mm}^2 = 350\text{V}$
 $\geq 0,25\text{mm}^2 = 500\text{V}$

Temperature Range:

Flexing from -5°C up to $+70^\circ\text{C}$

Fixed Installation from -30°C up to $+70^\circ\text{C}$

Insulation Resistance: 20 MOhm / km minimum

CE= The above cables are conformed with the Low Voltage Directive 73/23 EEC, 93/68 EEC.

No.CORES, CROSS-SEC mm ²	APPROXIMATELY		
	OUTER DIAMETER Ø mm	COPPER WEIGHT Kg/ Km	CABLE WEIGHT Kg/Km
2x2x0.25	6.9	32.2	61
3x2x0.25	7	48.3	81
4x2x0.25	8.20	64.1	113
5x2x0.25	9.2	79.8	143
6x2x0.25	9.5	96.1	160
7x2x0.25	9.7	111.9	178
10x2x0.25	14.4	160.2	251
2x2x0.34	7.2	418	79
3x2x0.34	8	63.1	105
4x2x0.34	9.7	83.7	154
5x2x0.34	10.7	105.2	190
7x2x0.34	11.3	146.9	239
10x2x0.34	15.5	210.1	323

No.CORES, CROSS-SEC mm ²	APPROXIMATELY		
	OUTER DIAMETER Ø mm	COPPER WEIGHT Kg/ Km	CABLE WEIGHT Kg/Km
2x2x0.5	7.7	58.1	97
3x2x0.5	8.9	86.8	137
4x2x0.5	11.3	116.1	188
2x2x0.75	9	76.3	133
3x2x0.75	10	113.8	179
4x2x0.75	11.5	152.2	144
5x2x0.75	13	189.8	313
2x2x1	9.4	86.1	413
3x2x1	10.2	129.8	190
4x2x1	12	149.3	276



LiY-CY flexible data cable Cu - screened



APPLICATIONS

The LiY-CY are used as data transmission cables in computers. They are also used as control and measurement cables in industrial machinery. These cables are not suitable for open air. The LiY-CY cables are appropriate wherever the construction requires protection of the signal from electromagnetic interference.

CABLE STRUCTURE

Core : bare copper, fine wire conductors to DIN VDE 0295 cl.5 and IEC 60228 cl.5
Core Insulation : of PVC TI2 according to DIN VDE 280 part 1.
Core code: Coloured cores to DIN 47100, without colour repetition
Core:
 stranded in layers
Core wrapping with transparent foil
Screen: tinned copper braided screen
Outer Sheath : PVC TM2, colour grey RAL 7032
 Flame Retardant according to IEC 60332-1

TECHNICAL DATA

Specifications : Data cable of PVC according to DIN VDE 0812
Temperature Range :
 Flexing from -5°C up to +80°C.
 Fixed installation from -30°C up to +80°C.
Nominal Voltage : 0,14mm² = 250 V
 ≥ 0,25mm² = 300V
Insulation Resistance : 20MΩ x km minimum
Capacitance (pF/m):

mm ²	0,14	0,25	0,34	0,50	0,75	1,00	1,50
core / core	90	110	110	120	130	130	130
core / screen	190	240	250	260	320	350	370

Inductance: 0,65 mH/ km
Impedance : 78 Ohm
Minimum bending Radius : 10 x Ø cable

Outer Sheath Printing : VOP CABLES LiYCY (No.cores) x (cross - sec.) mm² CE

CE= The above cables are conformed with the Low Voltage Directive 73/23 EEC, 93/68 EEC.

No. CORES x CROSS SEC mm ²	APPROXIMATELY		
	OUTER DIAMETER Ø mm	COPPER WEIGHT Kg/Km	CABLE WEIGHT Kg/Km
2x0.14	3.70	12.00	21.00
3x0.14	3.90	13.00	28.00
4x0.14	4.20	14.30	33.00
5x0.14	4.80	15.50	36.00
6x0.14	5.10	17.50	43.00
7x0.14	5.20	19.00	49.00

No. CORES x CROSS SEC mm ²	APPROXIMATELY		
	OUTER DIAMETER Ø mm	COPPER WEIGHT Kg/Km	CABLE WEIGHT Kg/Km
8x0.14	5.80	21.20	65.00
10x0.14	6.30	28.50	67.00
12x0.14	6.40	30.40	78.00
14x0.14	6.80	32.00	79.00
16x0.14	7.10	43.00	88.00
18x0.14	7.20	49.00	101.00



LiY-CY flexible data cable Cu - screened

No. CORES x CROSS-SEC mm ²	APPROXIMATELY		
	OUTER DIAMETER Ø mm	COPPER WEIGHT Kg/Km	CABLE WEIGHT Kg/Km
20x0.14	7.80	54.00	116.00
21x0.14	8.30	56.00	117.00
24x0.14	8.90	62.00	129.00
30x0.14	9.30	69.00	158.00
32x0.14	9.70	74.00	165.00
2x0.25	4.20	16.00	32.00
3x0.25	4.60	21.00	36.00
4x0.25	4.90	24.00	42.00
6x0.25	5.60	32.00	58.00
7x0.25	5.90	36.00	65.00
8x0.25	6.80	42.00	81.00
10x0.25	7.50	46.00	87.00
12x0.25	8.10	52.00	110.00
14x0.25	8.40	60.00	125.00
16x0.25	8.70	65.00	130.00
18x0.25	8.90	78.00	142.00
21x0.25	10.00	93.00	157.00
24x0.25	10.80	98.00	166.00
30x0.25	11.80	132.00	205.00
32x0.25	12.10	138.00	212.00
36x0.25	12.50	147.00	225.00
40x0.25	12.80	157.00	257.00
44x0.25	13.10	165.00	298.00
48x0.25	13.60	170.00	320.00
2x0.34	4.80	19.00	31.00
3x0.34	5.00	23.00	40.00
4x0.34	5.50	29.00	50.00
5x0.34	6.10	33.00	59.00
6x0.34	6.40	41.00	65.00
7x0.34	6.60	49.00	73.00
8x0.34	7.00	53.00	86.00
10x0.34	7.90	70.00	110.00
12x0.34	8.60	78.00	122.00
14x0.34	8.90	3.00	150.00
16x0.34	9.20	90.00	162.00
18x0.34	9.90	103.00	175.00
24x0.34	11.50	130.00	231.00
32x0.34	12.90	160.00	303.00
36x0.34	13.30	176.00	332.00
42x0.34	14.50	205.00	386.00
2x0.50	5.50	29.00	48.00
3x0.50	5.80	38.00	60.00
4x0.50	6.40	44.00	70.00

No. CORES x CROSS-SEC mm ²	APPROXIMATELY		
	OUTER DIAMETER Ø mm	COPPER WEIGHT Kg/Km	CABLE WEIGHT Kg/Km
5x0.50	6.90	51.00	81.00
6x0.50	7.10	61.00	92.00
7x0.50	7.80	65.00	107.00
8x0.50	8.20	81.00	118.00
12x0.50	9.90	100.00	178.00
16x0.50	11.00	127.00	218.00
18x0.50	11.80	136.00	239.00
20x0.50	13.10	150.00	285.00
25x0.50	14.00	216.00	353.00
32x0.50	15.90	245.00	398.00
40x0.50	17.40	293.00	550.00
50x0.50	18.50	346.00	590.00
2x0.75	6.10	36.00	61.00
3x0.75	6.40	48.00	68.00
4x0.75	6.80	58.00	89.00
5x0.75	7.60	68.00	98.00
6x0.75	8.10	90.00	116.00
7x0.75	8.70	98.00	139.00
8x0.75	9.10	108.00	155.00
12x0.75	11.00	148.00	206.00
16x0.75	11.90	179.00	280.00
18x0.75	12.70	193.00	296.00
24x0.75	15.70	260.00	445.00
2x1	6.40	42.00	67.00
3x1	6.90	55.00	86.00
4x1	7.50	67.00	100.00
5x1	8.00	78.00	125.00
7x1	8.90	109.00	160.00
12x1	11.90	165.00	263.00
18x1	14.00	210.00	355.00
24x1	17.10	315.00	505.00
2x1.5	6.90	57.00	90.00
3x1.5	7.60	72.00	105.00
4x1.5	8.00	94.00	136.00
5x1.5	9.10	110.00	163.00
6x1.5	9.30	118.00	180.00
7x1.5	10.00	143.00	210.00
8x1.5	10.90	160.00	240.00
12x1.5	13.70	250.00	335.00
14x1.5	14.10	261.00	395.00
16x1.5	14.90	282.00	430.00
18x1.5	16.60	302.00	510.00
24x1.5	19.50	445.00	725.00



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LiHCH DIN, flexible data transmission cable Cu - screened halogen free LSZH



APPLICATIONS

The LiHCH are used as data transmission cables in lines for computers as well as measurement and control cables in industrial machineries, especially where is required interference - free transmission of the signal. These cables are used wherever the construction safety specifications requires protection against fire.

CABLE STRUCTURE

Core : πολυκλώνοι από χαλκίνα σύρματα κατά IEC 60228 cl. 5

Core Insulation : LSZH type HI2 according to DIN VDE 209 part 23.

Core Code: colour coded cores to DIN 47100 without colour repetition.

Cores stranded in layers

Screen: tinned copper braided screening

Outer Sheath :LSZH type HM2 according to DIN VDE 0207 part 24, colour grey to RAL 7001

TECHNICAL DATA

Specifications :Data transmission cable of special PVC to DIN VDE 0812

Flame retardance IEC 60332-1, EN 50265-2-1

Fire retardance IEC 60332-3C, HD 405.3

Halogen content IEC 60754-2, EN50267-2-1

Temperature Range :

Flexing from -15°C up to + 70°C.

Fixed installation from -40°C up to + 70°C.

Nominal Voltage : 0,14mm² – 0,34mm² = 250 V
≥ 0,50mm² U_o/U 300 / 500V

Insulation Resistance : 20Mohm x km

Capacitance (pF/m):

mm ²	0,14	0,25	0,34	0,50	0,75
core / core	90	100	110	120	120

Impedance : 78 Ohm

Minimum bending Radius : 10 x Ø cable

Outer Sheath Printing : VOP CABLES LiHCH (No.cores) x (cross - sec.) mm² CE

CE= The above cables are conformed with the Low Voltage Directive 73/23 EEC, 93/68 EEC.

No.CORES) CROSS-SEC mm ²	APPROXIMATELY		
	OUTER DIAMETER Ø mm	COPPER WEIGHT Kg/Km	CABLE WEIGHT Kg/Km
2x0.14	4.00	12.30	23.50
3x0.14	4.30	14.80	28.00
4x0.14	4.50	16.60	31.00
5x0.14	4.80	19.20	35.70
7x0.14	5.10	22.80	41.00
8x0.14	5.40	25.70	49.30
10x0.14	6.10	31.20	58.80

No.CORES) CROSS-SEC mm ²	APPROXIMATELY		
	OUTER DIAMETER Ø mm	COPPER WEIGHT Kg/Km	CABLE WEIGHT Kg/Km
12x0.14	6.50	34.30	63.00
14x0.14	6.90	38.10	73.30
16x0.14	7.10	43.80	80.10
18x0.14	7.50	52.50	88.00
20x0.14	7.80	55.10	96.40
24x0.14	8.20	62.00	108.00
30x0.14	8.90	69.30	125.00



LiHCH DIN, flexible data transmission cable Cu - screened halogen free LSZH

No.CORES, CROSS-SEC mm ²	APPROXIMATELY		
	OUTER DIAMETER Ø mm	COPPER WEIGHT Kg/Km	CABLE WEIGHT Kg/Km
32x0.14	9.30	76.50	141.30
36x0.14	9.70	82.50	154.90
40x0.14	10.10	86.40	164.00
48x0.14	11.40	115.40	200.20
50x0.14	11.80	118.30	208.50
52x0.14	11.80	121.00	211.80
56x0.14	12.10	128.00	224.30
61x0.14	12.60	137.50	243.00
2x0.25	4.60	16.80	31.90
3x0.25	4.80	21.20	36.50
4x0.25	5.10	24.50	43.00
5x0.25	5.70	29.80	54.00
6x0.25	6.10	31.50	61.00
7x0.25	6.10	37.00	62.50
8x0.25	6.70	42.40	69.80
10x0.25	7.60	46.30	87.50
12x0.25	7.80	54.60	97.00
14x0.25	8.10	59.60	10.30
16x0.25	8.50	65.90	119.00
18x0.25	8.90	83.50	132.00
20x0.25	9.40	88.30	143.00
24x0.25	10.70	110.50	172.00
28x0.25	11.30	127.60	196.00
30x0.25	11.30	132.60	200.00
32x0.25	11.60	138.90	219.00
36x0.25	12.10	146.80	239.00
40x0.25	13.60	178.50	297.00
50x0.25	14.30	184.70	325.50
2x0.34	5.10	21.80	37.00
3x0.34	5.50	27.40	43.70
4x0.34	5.90	33.70	55.00
6x0.34	6.90	39.50	77.00
8x0.34	7.50	52.30	89.90
10x0.34	8.70	74.60	108.00
12x0.34	8.90	81.00	119.50
14x0.34	9.00	86.50	133.70
16x0.34	9.40	94.80	149.00

No.CORES, CROSS-SEC mm ²	APPROXIMATELY		
	OUTER DIAMETER Ø mm	COPPER WEIGHT Kg/Km	CABLE WEIGHT Kg/Km
18x0.34	10.10	103.50	170.00
20x0.34	10.90	112.70	188.50
24x0.34	11.90	130.40	221.90
28x0.34	12.50	146.60	260.00
30x0.34	12.80	159.30	265.70
32x0.34	13.10	163.20	290.50
36x0.34	13.80	178.50	315.40
40x.034	14.40	198.30	338.70
48x0.34	15.60	227.70	392.40
50x0.34	16.40	257.30	435.00
52x0.34	16.50	264.80	441.00
56x0.34	16.90	281.40	469.00
61x0.34	17.20	295.60	499.00
2x0.50	6.00	36.40	51.50
3x0.50	6.40	43.80	62.00
4x0.50	6.90	49.30	73.00
5x0.50	7.20	57.80	85.90
6x0.50	7.90	66.70	100.00
7x0.50	8.30	69.20	103.50
8x0.50	9.30	82.70	139.00
10x0.50	9.80	90.40	148.00
12x0.50	10.10	104.30	166.00
14x0.50	10.60	122.90	187.00
16x0.50	11.40	129.50	215.00
18x0.50	11.90	141.70	237.00
21x0.50	12.70	168.30	269.00
25x0.50	13.80	211.70	315.00
2x0.75	6.40	43.50	61.00
3x0.75	6.70	52.80	77.90
4x0.75	7.20	61.30	88.00
5x0.75	7.90	72.50	106.40
6x0.75	8.50	80.80	125.00
7x0.75	8.60	89.10	130.00
8x0.75	10.10	98.70	172.90
10x0.75	10.70	115.40	184.30
12x0.75	11.20	138.50	211.70

For cross - sections, that are not mentioned on the above board, please contact our company.



Ovaj crtez e spopstevnost na Elektroluks-Bitola.Bez negovio pisarneno odobruvanje isti ot nestee da se prepisiva ,umozuova nil kopira bez soglasnost od **Elektroluks** vo sprotno se sprosat poslednici vo smislana clenova 163 i 164 od Zakonikot zakon.R.M. (povreda na avtorsko pravo)

YSLCY flexible data transmission cable Cu - screened



APPLICATIONS

They are used as data cables in control and measurement installations, as well as in industrial machineries. These cables are also suitable as signal cables in computer systems. The copper screening offers interference - free signal transfer.

CABLE STRUCTURE

Core : bare copper, fine wire conductors to DIN VDE 0295 cl.5
Core Insulation : PVC TI2
Core Code: Black cores with continuous numbering in white, according to DIN VDE 0293. All cables, 3 cores and above have a Green-yellow earth core
Screen: tinned copper braided screening, coverage 83%
Outer Sheath : of PVC TM2 colour grey RAL 7001
 Flame Retardant according to IEC 60332-1

TECHNICAL DATA

Specifications : control cables of PVC to DIN VDE 0245,0281
Temperature Range :
 Flexing from -5°C up to +80°C
 Fixed installation from -30°C up to +80°C
Nominal Voltage U₀/U: 300 / 500 V
Insulation Resistance : 20Mohm / km min
Minimum bending Radius : 10 x Ø cable

Outer Sheath Printing: VOP CABLES YSLCY (No.cores) x (cross - sec.) mm² CE

CE= The above cables are conformed with the Low Voltage Directive 73/23 EEC, 93/68 EEC.

No. CORES x CROSS-SEC mm ²	APPROXIMATELY		
	OUTER DIAMETER Ø mm	COPPER WEIGHT Kg/Km	CABLE WEIGHT Kg/Km
2x0.75	6.20	38.30	59.50
3x0.75	6.60	50.20	66.40
4x0.75	7.10	57.30	77.70
5x0.75	7.60	70.40	93.80
6x0.75	8.10	87.10	113.50
7x0.75	8.80	96.50	131.00
8x0.75	9.60	110.40	146.00
10x0.75	10.40	140.20	180.60
12x0.75	10.60	151.60	203.00
14x0.75	11.30	167.40	225.70
16x0.75	11.80	183.20	276.00
18x0.75	12.60	207.40	293.00
20x0.75	13.10	238.30	321.00

No. CORES x CROSS-SEC mm ²	APPROXIMATELY		
	OUTER DIAMETER Ø mm	COPPER WEIGHT Kg/Km	CABLE WEIGHT Kg/Km
24x0.75	14.70	270.10	436.00
30x0.75	15.80	315.60	452.00
2x1.00	6.60	46.20	66.00
3x1.00	6.90	56.10	80.90
4x1.00	7.50	69.40	98.90
5x1.00	8.00	89.10	128.00
6x1.00	8.70	105.30	144.80
7x1.00	9.30	111.50	160.00
8x1.00	10.10	130.60	199.00
10x1.00	11.00	140.10	232.60
12x1.00	11.40	168.30	261.00
16x1.00	12.50	218.50	347.00



Ovaj crtez e sopshtenost na Elektrolux-Bitola.Bez negovio pisemno odobruvanje istiot nesmee da se prepisuje, umnozava niti kopira bez soglasnost od **Elektroluks** vo sprotno se snosot posedeci vo smislana clenova 163 i 164 od kivilniot zakon R.M. (povreda na avtorsko pravo)

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YSLCY flexible data transmission cable Cu - screened

No. CORES x CROSS-SEC mm ²	APPROXIMATELY		
	OUTER DIAMETER Ø mm	COPPER WEIGHT Kg/Km	CABLE WEIGHT Kg/Km
18x1.00	13.40	245.30	381.00
20x1.00	14.00	267.10	442.00
24x1.00	15.70	320.30	494.00
28x1.00	16.90	370.40	596.00
34x1.00	18.10	440.20	742.00
2x1.5	6.90	63.00	90.00
3x1.5	7.50	77.00	101.00
4x1.5	8.20	99.00	125.00
7x1.5	10.70	151.00	210.00
12x1.5	13.00	220.00	336.00
16x1.5	14.20	282.00	425.00
18x1.5	15.40	367.00	480.00
25x1.5	18.70	495.00	701.00
2x2.5	8.20	94.00	128.00
3x2.5	9.10	145.00	166.00
4x2.5	10.00	173.00	196.00
5x2.5	11.20	198.00	221.00
7x2.5	13.10	235.00	345.00
12x2.5	16.20	440.00	571.00
18x2.5	19.00	568.00	678.00

No. CORES x CROSS-SEC mm ²	APPROXIMATELY		
	OUTER DIAMETER Ø mm	COPPER WEIGHT Kg/Km	CABLE WEIGHT Kg/Km
2x4	10.00	135.00	187.00
3x4	10.80	177.00	241.00
4x4	11.70	241.00	312.00
5x4	13.00	327.00	386.00
2x6	11.80	176.00	269.00
3x6	12.50	241.00	332.00
4x6	13.90	334.00	413.00
5x6	15.80	441.00	508.00
2x10	15.00	265.00	427.00
3x10	16.10	371.00	502.00
4x10	18.10	486.00	785.00
5x10	19.90	714.00	857.00
4x16	21.10	810.00	885.00
5x16	23.20	1040.00	1286.00
4x25	26.90	1162.00	1567.00
5x25	30.00	1438.00	1962.00
4x35	30.80	1587.00	2060.00
5x35	34.20	1928.00	2685.00
4x50	34.90	2150.00	3005.00



For cable accessories there is a special catalogue



LiY-TPCY-CY data transmission cables, pair & overall screened



APPLICATIONS

The LiY-TPCY-CY are used as data transmission cables in computers networks, as well as in measurement and control sectors. They are also suitable for industrial automation systems. The copper screening assures a interference-free signal transmission.

CABLE STRUCTURE

Core : bare copper, fine wire conductors according to DIN VDE 0295 cl.5
Core Insulation: of special PVC YI2
Core Code: coloured cores according to DIN 47100, without colour repetition
Cores twisted in pairs
Pairs: screened individually, tinned copper, coverage 85% approximately. Special PVC coating over each pair.
All pairs - CY stranded together
Core Wrapping: polyester foil
Overall Braid-Screening: tinned copper, coverage 85%
Outer Sheath: of special PVC type YM2, colour grey to RAL 7001

TECHNICAL DATA

Specifications: data transmission cables, according to DIN VDE 0812 and 0814
Maximum Nominal Voltage: 0.14 mm² = 350 V
 0.25mm² = 500 V

Temperature Range:
Flexing from -5°C up to +80°C
Fixed Installation from -40°C up to +80°C

Mutual Capacitance:

	0.14mm ²	0.25mm ²
core / core	147 pF/ m	152.5 pF/ m
core / screen	147 pF/ m	263 pF/ m

Minimum Bending Radius:

Flexing 10 x Ø cable
Fixed Installation 6 x Ø cable

CE= The above cables are conformed with the Low Voltage Directive 73/23 EEC, 93/68 EEC.

No.CORES CROSS-SEC mm ²	APPROXIMATELY		
	OUTER DIAMETER Ø mm	COPPER WEIGHT Kg/ Km	CABLE WEIGHT Kg/Km
2x2x0.14	7.4	31.1	96
3x2x0.14	7.6	34.3	106
4x2x0.14	9.4	44.8	141
5x2x0.14	10.6	58.2	161
6x2x0.14	11.1	66.9	186
7x2x0.14	11.2	78.1	231
8x2x0.14	13.2	97.4	246
10x2x0.14	14.1	107.7	326
12x2x0.14	15.2	134.4	381
16x2x0.14	17.1	178.8	441
20x2x0.14	17.9	224.9	521
2x2x0.25	9.6	62.2	156
3x2x0.25	10.2	78.3	141
4x2x0.25	12.1	124.2	206
5x2x0.25	12.3	137.8	231

No.CORES CROSS-SEC mm ²	APPROXIMATELY		
	OUTER DIAMETER Ø mm	COPPER WEIGHT Kg/ Km	CABLE WEIGHT Kg/Km
6x2x0.25	13.1	148.2	276
7x2x0.25	16.20	159.3	296
8x2x0.25	17.1	178.8	331
10x2x0.25	17.3	214	421
12x2x0.25	17.6	238.4	466
16x2x0.25	22.1	291.5	591
20x2x0.25	22.7	325.1	621
24x2x0.25	27.6	367.6	691
32x2x0.25	29.9	588.2	786
48x2x0.25	34.6	840.6	971
2x2x0.34	10.2	73.2	140
3x2x0.34	11.1	88.2	158
4x2x0.34	12.5	137.3	214
6x2x0.34	14.6	174.9	309
8x2x0.34	17.7	247.3	386



LiY-TPCY-CY data transmission cables, pair & overall screened

No. CORES, CROSS-SEC mm ²	APPROXIMATELY		
	OUTER DIAMETER Ø mm	COPPER WEIGHT Kg/ Km	CABLE WEIGHT Kg/Km
10x2x0.34	17.8	288.8	434
12x2x0.34	18.6	321.2	496
14x2x0.34	20.8	388.5	601
16x2x0.34	22.6	425.6	638
24x2x0.34	28.1	577.2	782
2x2x0.5	10.9	83.2	144
3x2x0.5	11.5	106.5	180

No. CORES, CROSS-SEC mm ²	APPROXIMATELY		
	OUTER DIAMETER Ø mm	COPPER WEIGHT Kg/ Km	CABLE WEIGHT Kg/Km
4x2x0.5	13.1	158.2	242
6x2x0.5	15	201.5	320
8x2x0.5	18.9	311.6	442
10x2x0.5	18.1	334.6	465
12x2x0.5	20.2	394.2	530
14x2x0.5	21.7	446.5	642
16x2x0.5	23.9	501.3	695
24x2x0.5	28.5	712.5	931



For cable accessories there is a special catalogue



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LiYY-TP flexible data cable



APPLICATIONS

The LiYY TP are used as data cables for flexible use with free movement as well as in measuring and control systems. They are the most suitable cables wherever the construction specifications require the minimum outer diameter. The fact that the cores are twisted in pairs protect from near cross talk.

CABLE STRUCTURE

Core : bare copper, fine wire conductors according to DIN VDE 0295 cl.5 and IEC 60228 cl.5.
Core Insulation : of special PVC YI2
Core Code: coloured cores to DIN 47100, without colour repetition
Cores stranded in pairs
Outer Sheath : special PVC YM2, colour grey to RAL 7032
Flame Retardant according to IEC 60332-1

TECHNICAL DATA

Specifications : Data transmission cable of special PVC to DIN VDE 0812, 0814
Temperature Range :
 Flexing from -5°C up to +70°C
 Fixed installation from -30°C up to +80°C
Nominal Voltage : 250V
Insulation Resistance : 20 MOhm x km
Capacitance : 0,14mm² 90 pF/m
 0,25mm² 150 pF/m
Impedance: 78Ohm
Inductance: 0,65 mH / km
Minimum bending Radius : 10 x Ø cable min

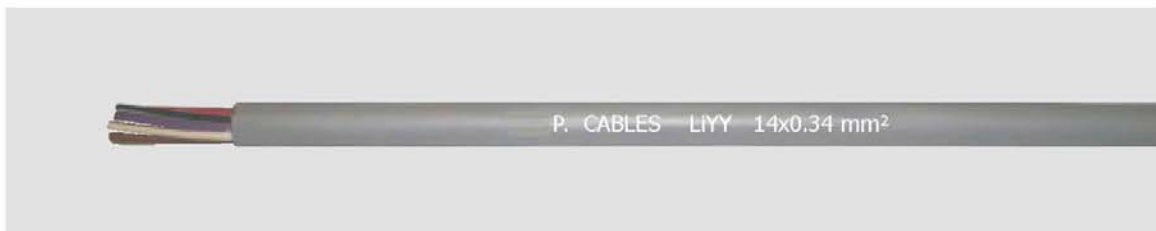
Outer Sheath Printing : VOP CABLES LiYY-TP (No.cores) x (cross - sec) mm² CE

CE= The above cables are conformed with the Low Voltage Directive 73/23 EEC, 93/68 EEC

No.CORES x CROSS-SEC mm ²	APPROXIMATELY		
	OUTER DIAMETER Ø mm	COPPER WEIGHT Kg/Km	CABLE WEIGHT Kg/Km
2x2x0.14	5.10	6.20	27.30
3x2x0.14	5.90	8.50	33.00
4x2x0.14	6.40	11.30	41.10
5x2x0.14	7.00	14.00	46.20
6x2x0.14	7.50	17.10	53.00
7x2x0.14	7.90	19.40	57.60
8x2x0.14	8.20	22.50	65.00
10x2x0.14	8.80	27.10	81.00
12x2x0.14	9.60	35.10	97.00
14x2x0.14	10.00	37.6	107.00
16x2x0.14	10.60	45.00	119.00
18x2x0.14	11.30	48.40	125.50
20x2x0.14	11.90	54.00	137.00
22x2x0.14	12.70	61.20	149.00

No.CORES x CROSS-SEC mm ²	APPROXIMATELY		
	OUTER DIAMETER Ø mm	COPPER WEIGHT Kg/Km	CABLE WEIGHT Kg/Km
2x2x0.25	5.60	9.80	39.00
3x2x0.25	5.80	14.90	48.00
4x2x0.25	6.50	20.10	60.00
6x2x0.25	7.90	31.00	83.00
8x2x0.25	8.80	42.00	101.00
10x2x0.25	9.80	51.00	115.00
12x2x0.25	10.70	62.00	140.00
14x2x0.25	11.40	69.00	162.00
16x2x0.25	12.50	82.00	191.00
18x2x0.25	12.90	93.00	218.00
20x2x0.25	13.50	103.00	246.00
24x2x0.25	14.60	121.00	284.00
25x2x0.25	15.50	127.00	305.00
28x2x0.25	15.80	139.00	348.00

LiYY flexible data cable



APPLICATIONS									
<p>The LiYY cables are used as data cables for computers as well as in measurement and control sectors. Wherever the construction requirements call for a minimum outer diameter the LiYY is the suitable cable to use.</p>									
CABLE STRUCTURE	TECHNICAL DATA								
<p>Core :bare copper, fine wire conductors according to DIN VDE 0295 cl.5 κα IEC 60228 cl.5.</p> <p>Core Insulation :from special PVC</p> <p>Core Code: coloured cores according to DIN 47100,without colour repetition</p> <p>Cores stranded in layers</p> <p>Outer sheath : PVC TM2 to DIN VDE 0281, colour grey RAL 7001</p> <p>Flame Retardant according to IEC 60332-1</p>	<p>Specifications : Data transmission cable of special PVC according to DIN VDE 0245, 0812</p> <p>Temperature Range :</p> <p>Flexing from -5°C up to +80°C</p> <p>Fixed installation from -30°C up to +80°C</p> <p>Insulation Resistance :20 MΩ x km</p> <p>Minimum bending radius : 10 x Ø cable min</p> <p>Nominal Voltage : 250V</p> <p>Capacitance (pF/ m στα 800HZ):</p> <table border="1"> <thead> <tr> <th>0,14mm²</th> <th>0,25mm²</th> <th>0,34mm²</th> <th>0,50mm²</th> </tr> </thead> <tbody> <tr> <td>120</td> <td>150</td> <td>150</td> <td>150</td> </tr> </tbody> </table> <p>Impedance: 78Ohm</p> <p>Inductance: 0,68 mH/ Km</p>	0,14mm ²	0,25mm ²	0,34mm ²	0,50mm ²	120	150	150	150
0,14mm ²	0,25mm ²	0,34mm ²	0,50mm ²						
120	150	150	150						

Outer Sheath Printing : VOP CABLES LiY-CY TP (No.cores) x (cross - sec.) mm² CE

CE= The above cables are conformed with the Low Voltage Directive 73/23 EEC, 93/68 EEC

No.CORES x CROSS-SEC mm ²	APPROXIMATELY		
	OUTER DIAMETER Ø mm	COPPER WEIGHT Kg/Km	CABLE WEIGHT Kg/Km
2x0.14	3.50	2.70	15.00
3x0.14	3.70	4.10	19.00
4x0.14	4.00	5.40	22.00
5x0.14	4.20	6.70	24.00
6x0.14	4.50	8.10	28.00
7x.014	4.60	9.50	32.00
8x0.14	4.90	10.70	37.00
10x0.14	5.20	13.50	42.00
12x0.14	5.60	16.10	49.00

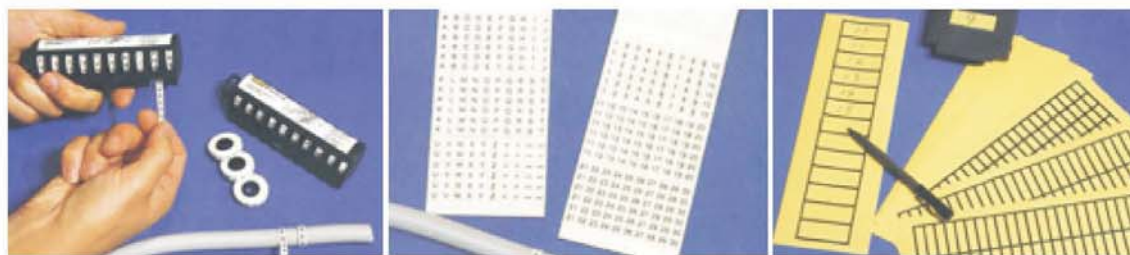
No.CORES x CROSS-SEC mm ²	APPROXIMATELY		
	OUTER DIAMETER Ø mm	COPPER WEIGHT Kg/Km	CABLE WEIGHT Kg/Km
16x0.14	6.30	21.60	62.00
24x0.14	8.10	32.40	90.00
30x0.14	8.80	40.50	112.00
32x0.14	9.10	43.00	119.00
36x0.14	9.50	50.00	130.00
44x0.14	11.00	60.00	162.00
52x0.14	11.50	72.00	177.00
56x0.14	11.70	84.00	192.00
61x0.14	12.40	85.00	210.00

LiYY flexible data cable

No. CORES x CROSS SEC mm ²	APPROXIMATELY		
	OUTER DIAMETER Ø mm	COPPER WEIGHT Kg/Km	CABLE WEIGHT Kg/Km
2x0.25	4.20	5.00	19.00
3x0.25	4.40	7.40	23.00
4x0.25	4.70	10.00	28.00
5x0.25	5.00	12.00	35.00
6x0.25	5.20	15.20	43.00
8x0.25	6.00	19.20	51.00
10x0.25	7.00	26.00	61.00
12x0.25	7.40	29.00	70.00
14x0.25	7.70	35.00	78.00
16x0.25	8.00	40.00	87.00
24x0.25	10.00	60.00	124.00
30x0.25	11.00	75.00	158.00
44x0.25	13.00	107.00	223.00
52x0.25	15.00	156.00	267.00
2x0.34	4.40	7.00	25.00
3x0.34	5.00	11.00	33.00
4x0.34	5.30	13.20	46.00
5x0.34	5.70	17.50	58.00
8x0.34	7.10	29.50	75.00
10x0.34	8.10	33.20	84.00
14x0.34	8.70	49.00	108.00

No. CORES x CROSS SEC mm ²	APPROXIMATELY		
	OUTER DIAMETER Ø mm	COPPER WEIGHT Kg/Km	CABLE WEIGHT Kg/Km
16x0.34	9.30	54.00	127.00
24x0.34	11.20	80.00	190.00
30x0.34	12.10	100.00	229.00
32x0.34	12.70	106.00	245.00
40x0.34	13.50	133.00	318.00
61x0.34	17.30	200.00	510.00
2x0.50	5.00	10.10	42.00
3x0.50	5.30	15.20	49.00
4x0.50	6.10	21.20	57.00
5x0.50	6.80	23.00	64.00
6x0.50	7.20	31.00	76.00
8x0.50	8.30	41.00	100.00
10x0.50	9.00	50.00	118.00
12x0.50	9.70	58.70	137.00
16x0.50	11.50	79.40	168.00
18x0.50	12.10	89.20	190.00
20x0.50	12.60	116.30	215.00
24x0.50	13.20	120.70	290.00
30x0.50	13.90	146.50	305.00
40X0.50	16.20	193.70	393.00

For cross-sections, that are not mentioned on the above board, please contact our company.



For cable accessories there is a special catalogue



Li2Y-CY PiMF low capacitance cables



APPLICATIONS

The Li2Y-CY-PiMF are the absolute interference-free data cables used in computer systems as well as in measurement and control sectors. Also suitable for use in industrial machine tools.

CABLE STRUCTURE

Core: bare copper, fine wire conductors, according to DIN VDE 0295 cl.5
Core Insulation: of PE
Core Code: coloured cores as per DIN 47100
Cores twisted in pairs
Pairs: plastic coated aluminium foil (PiMF) and copper drain - wire tinned. All the PiMF pairs are stranded in layer.
Core Wrapping: transparent polyester foil
Overall Screen: copper screened braiding, 85% coverage
Outer Sheath: of PVC type TM2, colour grey to RAL 7032

TECHNICAL DATA

Nominal Voltage: 300 V max
Maximum Temperature:
 Flexing from -5°C up to +80°C
 Fixed Installation from -20°C up to +80°C
Insulation Resistance: 5 GOhm x km
Inductance : 0.4 mH/ km
Minimum Bending Radius:
 Flexing 10 x Ø cable
 Fixed installation 6 x Ø cable

CE= The above cables are conformed with the Low Voltage Directive 73/23 EEC, 93/68 EEC.

No.CORES, CROSS-SEC mm²	APPROXIMATELY		
	OUTER DIAMETER Ø mm	COPPER WEIGHT Kg/ Km	CABLE WEIGHT Kg/Km
2x2x0.5	9.2	50.5	102
3x2x0.5	10.1	66.2	121
4x2x0.5	12.1	108.3	197
5x2x0.5	13.2	120.1	202
6x2x0.5	14.5	148.4	260
8x2x0.5	15.2	180.1	311
10x2x0.5	17.7	235.8	399
16x2x0.5	21.3	337.7	516
20x2x0.5	23	394.1	689
30x2x0.5	28	576.9	981
40x2x0.5	38.4	684.3	1931
50x2x0.5	43.3	834.4	1861
2x2x0.75	10.5	61.3	118
3x2x0.75	11.4	97.1	143
4x2x0.75	14.1	141.2	241

No.CORES, CROSS-SEC mm²	APPROXIMATELY		
	OUTER DIAMETER Ø mm	COPPER WEIGHT Kg/ Km	CABLE WEIGHT Kg/Km
5x2x0.75	15.2	162.8	305
6x2x0.75	16.9	197.9	353
8x2x0.75	17.3	246.2	416
10x2x0.75	19.9	305.1	506
16x2x0.75	24.3	445.7	733
20x2x0.75	25.7	530.2	861
2x2x1	12	72.1	131
3x2x1	12.3	104.3	162
4x2x1	16.3	185.9	361
5x2x1	17.5	231.2	413
6x2x1	17.8	259.8	473
8x2x1	19.3	322.2	541
10x2x1	22.3	381.9	671
16x2x1	27	578.1	983



Ovaj crtez e sastavni deo projekta. Bez negovog pisemnog odobrenja izdavanje istog nestaje da se prepisuje, umnozava niti kopira bez saglasnosti od ElektroLUKS. Ovaj crtez e sastavni deo projekta. Bez negovog pisemnog odobrenja izdavanje istog nestaje da se prepisuje, umnozava niti kopira bez saglasnosti od ElektroLUKS.

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Li2Y-CY PiMF low capacitance cables

No. CORES, CROSS-SEC mm ²	APPROXIMATELY		
	OUTER DIAMETER Ø mm	COPPER WEIGHT Kg/ Km	CABLE WEIGHT Kg/Km
20x2x1	29.5	710.1	1241
30x2x1	35.5	1049.9	1721
2x2x1.5	12.9	81.1	165
3x2x1.5	14.2	141.3	198
4x2x1.5	17.5	260.8	481

No. CORES, CROSS-SEC mm ²	APPROXIMATELY		
	OUTER DIAMETER Ø mm	COPPER WEIGHT Kg/ Km	CABLE WEIGHT Kg/Km
5x2x1.5	18.5	284.1	517
6x2x1.5	20.2	355	591
8x2x1.5	20.8	447.8	697
10x2x1.5	24	551.2	875
16x2x1.5	29.8	838.1	1341
20x2x1.5	31.8	1030.2	1621



For the network structured cabling materials there is a special catalogue



Li2YCY (TP) data transmission cable, core insulation of polyethylene PE, low capacitance



APPLICATIONS

The Li2Y-CY TP are used as data and signal transmission cables over longer distances. They are suitable for fixed installations, as well as for flexing applications, for free movement without forced motion and tensile stress, in dry and moist environments. Nevertheless they are not used for outdoor applications. The high transmission rates are suitable for RS 422 and RS 485 interfaces.

CABLE STRUCTURE

Core : bare copper stranded wires, 7-wires:
 0,22mm² (7 x 0,20mm)
 0,34mm² (7 x 0,25mm)
 0,50mm² (7 x 0,30mm)

Core Insulation : of PE
 Core Code: coloured cores to DIN 47100 without colour repetition
 Cores stranded in pairs
 Screen : tinned copper braided screening coverage 85%
 Outer Sheath: of PVC YM2 colour grey.
 Flame retardant according to IEC 60332-1

TECHNICAL DATA

Specifications : DIN VDE 0812,0881
 Temperature Range :
 Flexing from -5°C up to +80°C
 Fixed Installation from -30°C up to +80°C
 Impedance : 100 Ohm
 Capacitance (in 800Hz): 60 nF/ km
 <4 pairs values extended by 20%
 Inductance: 0,66 mH / km
 Attenuation :

mm ²	0,22	0,34	0,50
100 KHz	9,00	6,60	6,00
1 MHz	25,00	20,00	18,00

Nominal Voltage: 250V (top)

CE= The above cables are conformed with the Low Voltage Directive 73/23 EEC, 93/68 EEC.

No. CORES CROSS-SEC mm ²	APPROXIMATELY		
	OUTER DIAMETER Ø mm	COPPER WEIGHT Kg/Km	CABLE WEIGHT Kg/Km
2x2x0.22	6.50	26.10	48.30
3x2x0.22	6.80	32.00	66.50
4x2x0.22	7.50	38.60	83.00
8x2x0.22	9.10	63.00	123.40
10x2x0.22	11.20	80.30	166.00
2x2x0.34	7.80	36.00	69.60
3x2x0.34	8.30	45.50	78.00

No. CORES CROSS-SEC mm ²	APPROXIMATELY		
	OUTER DIAMETER Ø mm	COPPER WEIGHT Kg/Km	CABLE WEIGHT Kg/Km
4x2x0.34	8.90	53.90	96.00
8x2x0.34	11.40	87.00	159.00
10x2x0.34	13.10	105.60	196.20
2x2x0.50	8.60	50.00	75.00
3x2x0.50	9.00	61.00	110.60
4x2x0.50	9.80	74.80	129.80
8x2x0.50	12.40	125.00	224.00
10x2x0.50	15.00	156.00	265.00

LifYCY-TP DIN high flexible cable in twisted pairs & screened



APPLICATIONS

The LiFYCY-TP are used as connecting cables for signal, measuring, control purposes in computers and telecommunication equipment etc. They are suitable for fixed installations as well as free - moving. These cables are also suitable for medium mechanical stress.

CABLE STRUCTURE

Core: bare copper high flex conductors according to IEC 60228 cl.6, cores twisted in pairs, pairs twisted in layers.
Core Insulation: of PVC type TI2
Core Code: coloured cores to DIN 47100
Core Wrapping: of transparent polyester tape
Screen: tinned copper, coverage 85% approx.
Outer Sheath: PVC type TM2, colour grey to RAL 7001
 Flame Retardant according to IEC 60332-1.

TECHNICAL DATA

Nominal Voltage: 300 V
Temperature Rnge:
 Flexing from -5°C up to +80°C
 Fixed Installation from -40°C up to +80°C
Conductor Resistance:

mm ²	0.14	1.25	0.35	0.5	0.75	1.0
Ohm/km	138	77.5	56	39	26	19.5

Minimum bending Radius: 12 x Ø cable

CE= The above cables are conformed with the Low Voltage Directive 73/23 EEC, 93/68 EEC.

No. CORES CROSS-SEC mm ²	APPROXIMATELY		
	OUTER DIAMETER Ø mm	COPPER WEIGHT Kg/ Km	CABLE WEIGHT Kg/Km
2x2x0.14	6	24.8	48
3x2x0.14	6.1	28.1	53
4x2x0.14	6.9	32.4	67
5x2x0.14	7.4	339	76
6x2x0.14	8.1	38.7	91
8x2x0.14	9.5	48.9	122
10x2x0.14	10.1	56	133
12x2x0.14	10.4	62.5	145
14x2x0.14	10.8	69.6	159
2x2x0.25	7.3	32.8	65
3x2x0.25	7.7	37.9	72
4x2x0.25	8.1	44.3	91
5x2x0.25	8.9	48.9	111
6x2x0.25	9.5	56.3	127
8x2x0.25	11.4	71.9	176
10x2x0.25	11.9	83.6	185
12x2x0.25	12.3	94.6	204
14x2x0.25	13.1	112.7	239

No. CORES CROSS-SEC mm ²	APPROXIMATELY		
	OUTER DIAMETER Ø mm	COPPER WEIGHT Kg/ Km	CABLE WEIGHT Kg/Km
2x2x0.34	8	41.1	78
3x2x0.34	8.3	48.8	92
4x2x0.34	9	58.1	114
5x2x0.34	9.8	61.1	134
6x2x0.34	10.7	70.6	159
8x2x0.34	12.9	96.7	227
10x2x0.34	13.5	112.7	240
12x2x0.34	14.1	127.5	272
14x2x0.34	14.7	143.5	301
2x2x0.5	9.3	60.1	105
3x2x0.5	9.6	73.3	125
4x2x0.5	10.4	75.7	150
5x2x0.5	11.5	81.8	182
6x2x0.5	12.7	101	223
8x2x0.5	15.1	129.8	308
10x2x0.5	15.9	152.4	324
12x2x0.5	16.5	173.8	368
14x2x0.5	17.9	219.4	444



LifYCY-TP DIN high flexible cable in twisted pairs & screened

No. CORES, CROSS-SEC mm ²	APPROXIMATELY		
	OUTER DIAMETER Ø mm	COPPER WEIGHT Kg/ Km	CABLE WEIGHT Kg/Km
2x2x0.75	10.2	67.4	132
3x2x0.75	10.3	89.6	155
4x2x0.75	11.4	100.3	186
5x2x0.75	12.7	115.4	232
6x2x0.75	13.8	134.3	277
8x2x0.75	16.5	173.8	380

No. CORES, CROSS-SEC mm ²	APPROXIMATELY		
	OUTER DIAMETER Ø mm	COPPER WEIGHT Kg/ Km	CABLE WEIGHT Kg/Km
2x2x1	10.9	82.2	153
3x2x1	11.3	111	189
4x2x1	12.2	124.9	218
5x2x1	13.5	143.5	273
6x2x1	14.8	167.7	325
8x2x1	18.3	241.5	484



For RACKS and their accessories there is a special catalogue

