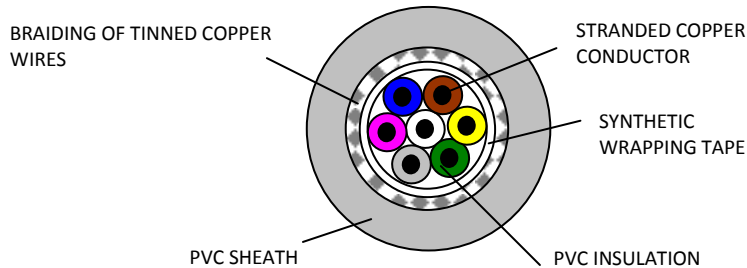
	MEASUREMENT & CONTROL FLEXIBLE CABLES [Li-YCY] nx1x0.5mm² nx1x0.75mm² nx1x1mm² nx1x1.5mm²	8143P REVISION: 1
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CABLE DESCRIPTION – APPLICATIONS

The cables are used for the transmission of voice, data and signals in measurements, control and data acquisition systems and are suitable for **installation** mainly in internal building or protected industrial areas. Under suitable conditions they can be also used outdoor.


CABLE DESIGN



Cross section of Li-YCY 7x1.5 mm² cable

Conductor	Electrolytic stranded copper cross section of 0.5mm ² class 5 (16x0.2mm), 0.75mm ² class 5 (24x0.2mm) , 1 mm ² class5 (32x0.2mm) and 1.5mm ² class 5 (30x0.25mm)
Insulation	PVC
Stranding elements	Insulated conductors (cables Li - YCY)
Cable core wrapping	PES tape
Common screen	Braiding of tinned copper wires of 0.1 or 0.15mm diameter (min. 32% coverage)
Outer sheath	Grey PVC

Size of cable	Insulation thickness (min.) (mm)	Outer sheath thickness (min. average) (mm)	Cable diameter (calculated) (mm)	Cable weight (calculated) (kg/km)
0.5mm²				
2x0.5mm ²	0.3	0.5	5.0	30
3x0.5mm ²	0.3	0.5	5.5	37
4x0.5mm ²	0.3	0.5	6.0	45
5x0.5mm ²	0.3	0.5	6.5	55
6x0.5mm ²	0.3	0.5	7.0	63
7x0.5mm ²	0.3	0.5	7.3	68
8x0.5mm ²	0.3	0.5	7.5	75
10x0.5mm ²	0.3	0.8	11.0	114
12x0.5mm ²	0.3	1.0	12.5	143
16x0.5mm ²	0.3	1.0	14.0	175
0.75mm²				
2x0.75mm ²	0.3	0.5	5.5	35
3x0.75mm ²	0.3	0.5	5.8	45
4x0.75mm ²	0.3	0.5	6.5	55
5x0.75mm ²	0.3	0.5	7.0	67
6x0.75mm ²	0.3	0.5	7.5	77
7x0.75mm ²	0.3	0.5	8.0	87
8x0.75mm ²	0.3	0.5	8.1	96
10x0.75mm ²	0.3	0.8	10.0	128
12x0.75mm ²	0.3	1.0	11.0	158
16x0.75mm ²	0.3	1.0	12.0	198
18x0.75mm ²	0.3	1.2	13.0	230
25x0.75mm ²	0.3	1.2	14.5	298

	MEASUREMENT & CONTROL FLEXIBLE CABLES [Li-YCY] nx1x0.5mm² nx1x0.75mm² nx1x1mm² nx1x1.5mm²	8143P REVISION: 1
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1mm ²					
2x1mm ²	0.3	0.5	6.0	40	
3x1mm ²	0.3	0.5	6.3	55	
4x1mm ²	0.3	0.5	6.7	65	
5x1mm ²	0.3	0.5	7.3	78	
7x1mm ²	0.3	0.5	8.0	100	
12x1mm ²	0.3	1.0	11.5	190	
16x1mm ²	0.3	1.0	12.0	230	
1.5mm ²					
2x1.5mm ²	0.4	0.5	7.0	57	
3x1.5mm ²	0.4	0.5	7.5	76	
4x1.5mm ²	0.4	0.5	8.0	93	
5x1.5mm ²	0.4	0.5	9.0	112	
7x1.5mm ²	0.4	0.8	10.5	160	
8x1.5mm ²	0.4	0.8	11.0	180	
10x1.5mm ²	0.4	1.0	13.0	232	
12x1.5mm ²	0.4	1.0	13.5	265	
14x1.5mm ²	0.4	1.0	14.0	302	
16x1.5mm ²	0.4	1.0	14.5	335	
18x1.5mm ²	0.4	1.2	15.5	383	
20x1.5mm ²	0.4	1.2	16.0	417	
24x1.5mm ²	0.4	1.2	18.3	500	
32x1.5mm ²	0.4	1.4	19.5	647	

IDENTIFICATION COLOUR CODING

Insulation colour coding of conductors, acc. to VDE0812:

Conductor no		Conductor no		Conductor no	
1	White	13	White-Yellow	25	Yellow-Red
2	Brown	14	White-Blue	26	Yellow- Black
3	Green	15	White-Red	27	Grey-Red
4	Yellow	16	White-Black	28	Grey-Black
5	Grey	17	Brown-Green	29	Pink- Black
6	Pink	18	Yellow-Brown	30	Pink-Violet
7	Blue	19	Brown-Blue	31	Red-Blue
8	Red	20	Brown-Black	32	Red-Black
9	Black	21	Green-Yellow		
10	Violet	22	Green-Red		
11	White-Brown	23	Green-Black		
12	White-Green	24	Yellow-Blue		

ELECTRICAL CHARACTERISTICS AT 20°C


Conductor cross section, mm ²	0.5	0.75	1	1.5
Conductor Resistance, max. Ω/km - single core construction	39.0	26.0	19.5	13.3
Insulation resistance, min., MΩxkm	200	200	200	200
Test voltage DC , 1min., V				
Conductor-conductor	1500	1500	1500	1500
Conductor-screen	1500	1500	1500	1500
Working voltage (peak) (V)	500	500	500	500

SHEATH MARKING

The following information is printed on outer jacket, every one (1) meter:

“CABLEL – year of manufacture – type of cable and size – length marking m”

Other or additional data can be printed on outer jacket if requested.

	<p style="text-align: center;">MEASUREMENT & CONTROL FLEXIBLE CABLES</p> <p style="text-align: center;">[Li-YCY] nx1x0.5mm² nx1x0.75mm² nx1x1mm² nx1x1.5mm²</p>	8143P REVISION: 1
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PACKING
<p>The cables are delivered in non-returnable wooden drums suitable for safe transportation, storage and installation.</p> <p><i>Standard cable length per drum: 2000m ± 5%</i></p> <p>Any particular requirements about packing, drum marking, cable length per drum can be provided if requested.</p>
QUALITY CONTROL
<p>All cables are quality tested in every stage of manufacturing procedure to ensure a product of the highest quality level.</p>