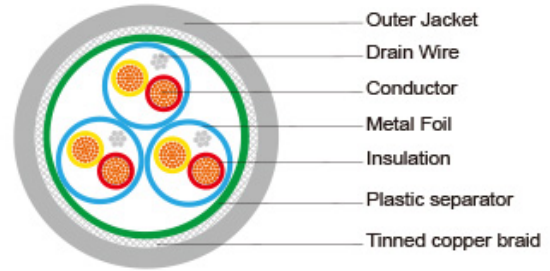


## German Standard Industrial Cables Li2YCY PiMF

**Application and Description**

Li2YCY PiMF is particularly suitable for wiring data systems and controls in large industrial plants, for the transmission of sensitive signals and high bit rates for enhanced requirements in near-end cross-talk attenuation and high electrical interference in the circuits. For measurement value transmission and serial 2-wire interfaces, Cables of this type are intended for limited flexible use, and for fixed installation in dry and damp interiors.

**Standard and Approval**

CE Low Voltage Directive 73/23/EEC and 93/68/EEC, ROHS compliant

**Cable Construction**

- Plain copper conductor
- Stranded to DIN VDE 0295 cl. 5, IEC 60228 cl.5
- PE core insulation type 2Y11 to DIN VDE 0207 part 2
- Yellow and red core colours, pairs numbered as per DIN 47100
- Two cores twisted into a pair
- Plastic foil separator
- Screening of pairs with plastic laminated metal foil with multi-wire tinned copper drain wire
- Pairs (PiMF) twisted in layers
- Plastic foil separator
- 85% tinned copper braid
- PVC outer jacket type YM2 grey to DIN VDE 0207 part 5, black color for Yv version

- Working voltage: 250 volts
- Test voltage:  
Conductor to conductor 1200V  
Conductor to shield 500V  
Shield to shield 500V
- Minimum bending radius: 10 x Ø
- Flexing temperature: -5° C to +70° C
- Static temperature: -30° C to +70° C
- Flame retardant: IEC 60332.1-2
- Insulation resistance: 5GΩ x km
- Short-range crosstalk attenuation up to 1 MHz min. 75 dB
- Impedence at 1 MHz:  
0.22mm<sup>2</sup> approx. 80Ohm  
0.34mm<sup>2</sup> approx. 85Ohm  
0.5mm<sup>2</sup> approx. 80Ohm  
1.0mm<sup>2</sup> approx. 75Ohm
- Mutual capacitance at 800 Hz:  
0.22mm<sup>2</sup> max.70nF/km  
0.34mm<sup>2</sup> max.70nF/km  
0.5mm<sup>2</sup> max.75nF/km  
1.0mm<sup>2</sup> max.85nF/km
- Loop resistance:  
0.22mm<sup>2</sup> max.186Ohm/km  
0.34mm<sup>2</sup> max.115Ohm/km  
0.5mm<sup>2</sup> max.78.4Ohm/km  
1.0mm<sup>2</sup> max.39Ohm/km

**Technical Characteristics**

**Cable Parameter**

AWG	NO. OF CORES X NOMINAL CROSS SECTIONAL AREA # X MM <sup>2</sup>	NOMINAL OVERALL DIAMETER MM	COPPER WEIGHT KG / KM	CABLE WEIGHT KG / KM
24(7/32)	2 x 2 x 0.22	7.7	33	38
24(7/32)	3 x 2 x 0.22	7.8	42	57
24(7/32)	4 x 2 x 0.22	9.3	50	83
24(7/32)	8 x 2 x 0.22	10.8	85	133
24(7/32)	10 x 2 x 0.22	11.6	100	164
22(7/30)	2 x 2 x 0.34	9.0	43	70
22(7/30)	3 x 2 x 0.34	9.1	55	85
22(7/30)	4 x 2 x 0.34	9.4	64	103
22(7/30)	8 x 2 x 0.34	13.4	127	191
22(7/30)	10 x 2 x 0.34	14.3	150	230

20(7/28)	2 x 2 x 0.5	9.1	50	101
20(7/28)	3 x 2 x 0.5	10.0	66	120
20(7/28)	4 x 2 x 0.5	12.0	108	172
20(7/28)	5 x 2 x 0.5	13.1	120	201
20(7/28)	6 x 2 x 0.5	14.4	148	260
20(7/28)	8 x 2 x 0.5	15.0	180	310
20(7/28)	10 x 2 x 0.5	17.6	236	398
20(7/28)	16 x 2 x 0.5	21.2	338	515
20(7/28)	20 x 2 x 0.5	22.9	394	688
20(7/28)	30 x 2 x 0.5	27.9	577	980
20(7/28)	40 x 2 x 0.5	38.3	684	1390
20(7/28)	50 x 2 x 0.5	43.2	834	1860
18(24/32)	2 x 2 x 0.75	10.4	61	117
18(24/32)	3 x 2 x 0.75	11.3	97	142
18(24/32)	4 x 2 x 0.75	14.0	141	240
18(24/32)	5 x 2 x 0.75	15.1	163	304
18(24/32)	6 x 2 x 0.75	16.8	198	352
18(24/32)	8 x 2 x 0.75	17.2	246	415
18(24/32)	10 x 2 x 0.75	19.8	305	505
18(24/32)	16 x 2 x 0.75	24.0	446	732
18(24/32)	20 x 2 x 0.75	25.6	530	860
18(24/32)	30 x 2 x 0.75	30.9	765	1210
17(32/32)	2 x 2 x 1.0	11.9	72	130
17(32/32)	3 x 2 x 1.0	12.2	104	161
17(32/32)	4 x 2 x 1.0	16.2	186	360
17(32/32)	5 x 2 x 1.0	17.4	231	412
17(32/32)	6 x 2 x 1.0	18.7	260	472
17(32/32)	8 x 2 x 1.0	19.2	322	540
17(32/32)	10 x 2 x 1.0	22.2	382	670
17(32/32)	16 x 2 x 1.0	26.9	578	982
17(32/32)	20 x 2 x 1.0	29.4	710	1240
17(32/32)	30 x 2 x 1.0	35.4	1050	1720
18(24/32)	2 x 2 x 1.5	12.8	81	164
18(24/32)	3 x 2 x 1.5	14.1	141	197
18(24/32)	4 x 2 x 1.5	17.4	261	480
16(30/30)	5 x 2 x 1.5	18.4	284	516
16(30/30)	6 x 2 x 1.5	20.1	355	590
16(30/30)	8 x 2 x 1.5	20.7	448	696

16(30/30)	10 x 2 x 1.5	23.9	551	874
16(30/30)	16 x 2 x 1.5	29.7	838	1340
16(30/30)	20 x 2 x 1.5	31.7	1030	1620