



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

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- 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
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Technical Characteristics

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- Working voltage: 250 volts



Addison Industrial Cables

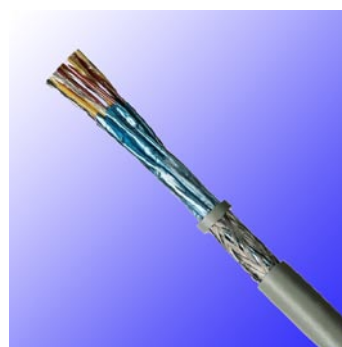
German Standard (VDE)

- 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:

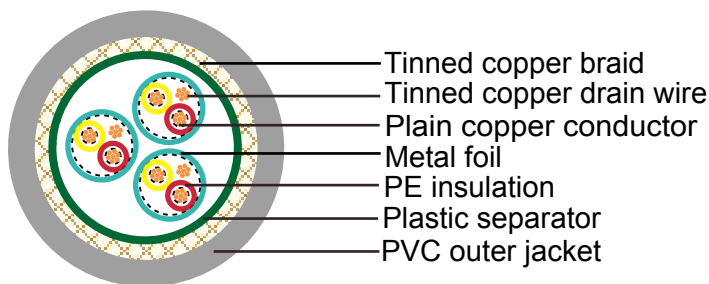
0.22mm ²	approx. 80Ohm
0.34mm ²	approx. 85Ohm
0.5mm ²	approx. 80Ohm
1.0mm ²	approx. 75Ohm
- Mutual capacitance at 800 Hz:

0.22mm ²	max.70nF/km
0.34mm ²	max.70nF/km
0.5mm ²	max.75nF/km
1.0mm ²	max.85nF/km
- Loop resistance:

0.22mm ²	max.186Ohm/km
0.34mm ²	max.115Ohm/km
0.5mm ²	max.78.4Ohm/km
1.0mm ²	max.39Ohm/km



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Cable Parameter

AWG	No. of Cores x Nominal Cross Sectional Area # x mm ²	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



German Standard (VDE)

AWG	No. of Cores x Nominal Cross Sectional Area # x mm ²	Nominal Overall Diameter mm	Copper Weight kg / km	Cable Weight kg / km
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