

Li2YCY-PiMF Shielded Low Cap



Li2YCY-PiMF is a CE approved, flexible, oil-resistant, overall shielded, PVC multi-pair European low capacitance data transmission cable. For use in flexible or stationary applications under low mechanical stress with free movement without any tensile stress, loads or forced movements in dry and damp conditions. Commonly used for absolute disturbance-free data transfers and signal impulses for installed terminals in all areas of medical engineering, data transmission technology, traffic signal systems, food processing and machine tool manufacturing. The individual foil shielding of each pair ensures optimum cross talk attenuation. The tinned copper braid shield offers additional protection against external electrical and electromagnetic interference (EMI). Not permitted for outdoor use.



Construction:

- Fine bare copper strands
- Strands to VDE-0295 Class-5, IEC 60228 Cl-5
- PE core insulation
- Color code DIN47100 - with color repetition
- Cores twisted into pairs
- Plastic film lapping
- Pairs wrapped with laminated metal foil
- Tinned copper drain wire for each pair
- Plastic foil separator
- 85% tinned copper braid
- PVC outer jacket - gray (RAL 7032)

Technical:

- Working voltage: 300 volts
- Test voltage: 2000/1000 volts
- Flexing bending radius: 10 x Ø
- Static bending radius: 6.0 x Ø
- Flexing temp: -5° C to +80° C
- Static temp: -30° C to +80° C
- Flame retardant: IEC 60332.1-2
- Insulation resistance: 5 GΩ x km
- Mutual Cap (800 Hz): max 75 nF/km

Approvals:

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

** Attenuation (800 Hz)**

- 0,22 at 100 kHz 11.5 dB/km
- 0,34 at 100 kHz 9.0 dB/km
- 0,50 at 100 kHz 7.0 dB/km
- 0,22 at 1 MHz 46,0 dB/km
- 0,34 at 1 MHz 38.0 dB/km
- 0,50 at 1 MHz 35.0 dB/km

PART NUMBER	PAIRS	NOMINAL OD	CU LBS/MFT	WT LBS/MFT
24 AWG (14/34) 0,22mm²				
5222402	2	0.276" / 7.0mm	22	26
5222403	3	0.299" / 7.6mm	25	39
5222404	4	0.319" / 8.1mm	33	56
5222408	8	0.402" / 10.2mm	57	90
5222410	10	0.465" / 11.8mm	67	111
22 AWG (19/34) 0,34mm²				
5222202	2	0.319" / 8.1mm	30	48
5222203	3	0.346" / 8.8mm	37	58
5222204	4	0.378" / 9.6mm	45	70
5222208	8	0.476" / 12.1mm	76	129
5222210	10	0.579" / 14.7mm	101	155
20 AWG (16/32) 0,50mm²				
5222002	2	0.358" / 9.1mm	34	68
5222003	3	0.394" / 10.0mm	44	80
5222004	4	0.472" / 12.0mm	72	131
5222005	5	0.516" / 13.1mm	80	155
5222006	6	0.567" / 14.4mm	99	174
5222008	8	0.591" / 15.0mm	121	208
5222010	10	0.693" / 17.6mm	158	267
5222016	16	0.835" / 21.2mm	227	345
5222020	20	0.902" / 22.9mm	264	461
5222030	30	1.098" / 27.9mm	387	657
5222040	40	1.508" / 38.3mm	459	932
5222050	50	1.701" / 43.2mm	559	1248

Sizes continued on next page.

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Li2YCY-PiMF Sizes Continued. (18 AWG and Larger)

PART NUMBER	CORES	NOMINAL OD	CU LBS/MFT	WT LBS/MFT
18 AWG (24/32) 0,75mm²				
5221802	2	0.409" / 10.4mm	41	78
5221803	3	0.445" / 11.3mm	65	95
5221804	4	0.551" / 14.0mm	95	161
5221805	5	0.594" / 15.1mm	109	204
5221806	6	0.661" / 16.8mm	133	236
5221808	8	0.677" / 17.2mm	165	278
5221810	10	0.780" / 19.8mm	205	339
5221816	16	0.945" / 24.0mm	299	491
5221820	20	1.008" / 25.6mm	355	577
5221830	30	1.217" / 30.9mm	513	812
17 AWG (32/32) 1,00mm²				
5221702	2	0.469" / 11.9mm	48	87
5221703	3	0.480" / 12.2mm	70	108
5221704	4	0.638" / 16.2mm	125	241
5221705	5	0.685" / 17.4mm	155	276
5221706	6	0.736" / 18.7mm	174	317
5221708	8	0.756" / 19.2mm	216	362
5221710	10	0.874" / 22.2mm	256	449
5221716	16	1.059" / 26.9mm	388	659
5221720	20	1.157" / 29.4mm	476	832
5221730	30	1.394" / 35.4mm	704	1154
16 AWG (30/30) 1,50mm²				
5221602	2	0.504" / 12.8mm	54	110
5221603	3	0.555" / 14.1mm	95	132
5221604	4	0.685" / 17.4mm	175	322
5221605	5	0.724" / 18.4mm	190	346
5221606	6	0.791" / 20.1mm	238	396
5221608	8	0.835" / 21.2mm	300	467
5221610	10	0.941" / 23.9mm	370	586
5221616	16	1.169" / 29.7mm	562	899
5221620	20	1.248" / 31.7mm	691	1087

* Additional sizes may be available.