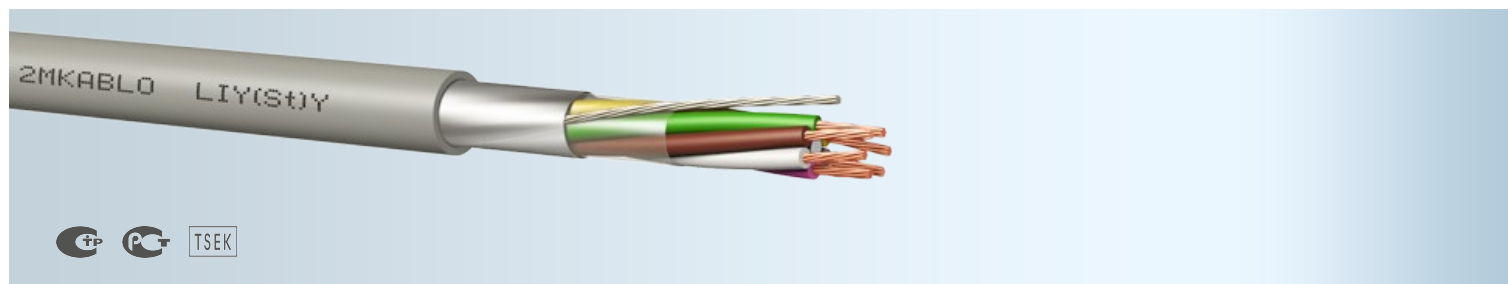


LIY(St)Y



Footnote

2.50 mm² - 4.00 mm² 6.00 mm² and also LSF type of LIY(St)Y cables can be produced as well. LIY(St)Y-OZ : black cores with numbers ; LIY(St)Y-JZ : black cores with numbers + one green/yellow core

Cable Structure

Conductor	Stranded Electrolytic Annealed Copper (IEC/BS/EN 60228, VDE 0295 Class 5, 0.34mm ² : Column 2)
Insulation	PVC (BS/EN 50290-2, VDE 0207 T12), Color Code : DIN 47100
Lay-up	Cores stranded in layers
Separator	Polyester Tape
Outer Sheath	PVC (BS/EN 50290-2) Outer Sheath Color : RAL 7001 Grey
Drain Wire	Stranded Tinned Copper
Shielding	AL-PES tape
Reference Standards	VDE 0812
Flame test	IEC/EN/BS/DIN 60332-1-2 (VDE 0482-332-1-2)

Cross

Product Code	# Cores/Cross Sect.(mm ²)	Cable Diameter(mm)(±5%)	Copper Weight(kg/km)	~Cable Weight (kg/km)
22100102				
0.14mm ²	2x0.14	3.6	4	15
22100103				
0.14mm ²	3x0.14	3.8	6	18
22100104				
0.14mm ²	4x0.14	4.0	7	21
22100105				
0.14mm ²	5x0.14	4.3	8	26
22100107				
0.14mm ²	7x0.14	4.7	11	32
22100109				
0.14mm ²	9x0.14	5.4	13	40

22100110				
0.14mm ²	10x0.14	5.7	15	44
22100114				
0.14mm ²	14x0.14	6.3	20	53
22100120				
0.14mm ²	20x0.14	7.4	27	74
22100125				
0.14mm ²	25x0.14	8.2	34	85
22100202				
0.22mm ²	2x0.22	3.9	7	19
22100203				
0.22mm ²	3x0.22	4.1	9	23
22100204				
0.22mm ²	4x0.22	4.4	11	28
22100205				
0.22mm ²	5x0.22	4.7	13	32
22100206				
0.22mm ²	6x0.22	5.3	15	38
22100207				
0.22mm ²	7x0.22	5.3	17	41
22100209				
0.22mm ²	9x0.22	6.0	21	50
22100210				
0.22mm ²	10x0.22	6.5	23	57
22100216				
0.22mm ²	16x0.22	7.5	36	80
22100220				

0.22mm ²	20x0.22	8.2	45	98
22100225				
0.22mm ²	25x0.22	9.3	55	121
22100302				
0.25mm ²	2x0.25	4.0	8	20
22100303				
0.25mm ²	3x0.25	4.3	10	25
22100304				
0.25mm ²	4x0.25	4.6	12	30
22100305				
0.25mm ²	5x0.25	5.0	14	36
22100306				
0.25mm ²	6x0.25	5.5	17	41
22100307				
0.25mm ²	7x0.25	5.5	19	46
22100309				
0.25mm ²	9x0.25	6.3	24	56
22100310				
0.25mm ²	10x0.25	6.7	26	62
22100316				
0.25mm ²	16x0.25	7.9	40	90
22100320				
0.25mm ²	20x0.25	8.8	50	109
22100325				
0.25mm ²	25x0.25	9.8	60	130
22100402				
0.34mm ²	2x0.34	4.5	9	24

22100403				
0.34mm ²	3x0.34	4.8	12	31
22100404				
0.34mm ²	4x0.34	5.2	16	38
22100405				
0.34mm ²	5x0.34	5.7	19	44
22100406				
0.34mm ²	6x0.34	6.2	22	52
22100407				
0.34mm ²	7x0.34	6.2	25	57
22100408				
0.34mm ²	8x0.34	6.5	28	65
22100409				
0.34mm ²	9x0.34	7.2	32	73
22100410				
0.34mm ²	10x0.34	7.7	35	80
22100502				
0.50mm ²	2x0.50	5.0	11	30
22100503				
0.50mm ²	3x0.50	5.3	16	37
22100504				
0.50mm ²	4x0.50	5.6	20	45
22100505				
0.50mm ²	5x0.50	6.2	24	54
22100506				
0.50mm ²	6x0.50	6.8	28	64
22100507				
0.50mm ²	7x0.50	6.8	32	75

22100508				
0.50mm ²	8x0.50	7.6	37	81
22100509				
0.50mm ²	9x0.50	8.0	41	86
22100510				
0.50mm ²	10x0.50	8.6	45	97
22100802				
0.75mm ²	2x0.75	5.4	19	38
22100803				
0.75mm ²	3x0.75	5.9	25	49
22100804				
0.75mm ²	4x0.75	6.2	32	61
22100805				
0.75mm ²	5x0.75	7.0	38	71
22100806				
0.75mm ²	6x0.75	7.6	44	85
22100807				
0.75mm ²	7x0.75	7.6	51	94
22100808				
0.75mm ²	8x0.75	8.3	57	106
22100809				
0.75mm ²	9x0.75	9.1	63	123
22100810				
0.75mm ²	10x0.75	9.8	70	136
22101002				
1.00mm ²	2x1.00	6.0	23	46
22101003				

1.00mm ²	3x1.00	6.4	31	59
22101004				
1.00mm ²	4x1.00	7.0	40	74
22101005				
1.00mm ²	5x1.00	7.6	48	88
22101006				
1.00mm ²	6x1.00	8.3	57	104
22101007				
1.00mm ²	7x1.00	8.3	65	115
22101008				
1.00mm ²	8x1.00	9.0	73	131
22101009				
1.00mm ²	9x1.00	9.9	82	150
22101010				
1.00mm ²	10x1.00	10.6	91	169
22101502				
1.50mm ²	2x1.50	7.0	37	69
22101503				
1.50mm ²	3x1.50	7.4	50	90
22101504				
1.50mm ²	4x1.50	8.1	63	109
22101505				
1.50mm ²	5x1.50	9.0	76	133
22101506				
1.50mm ²	6x1.50	9.8	83	146
22101507				
1.50mm ²	7x1.50	9.8	95	165

22101508

1.50mm ²	8x1.50	10.8	107	185
22101509				
1.50mm ²	9x1.50	11.7	120	211
22101510				
1.50mm ²	10x1.50	12.6	133	240

Areas of use

These shielded and PVC insulated cables are used as signal transmission cables in industrial applications. These can be easily used with their flexible construction in narrow applications like: electronic control systems of computer or audio systems or in communication sector, electronic circuits, measurement devices, machine design, office equipment, etc. These used for indoor applications. Screening protects the cable from the outer electrical effects.

Technical & Electrical Properties

Min. Bending Radius	Fixed 7.5xCable Diameter ; Flexible 15xCable Diameter
Conductor Resistance(max.)	0.14mm ² --138 Ω/km; 0.22mm ² --85 Ω/km; 0.25mm ² --77.8 Ω/km; 0.34mm ² --56 Ω/km; 0.50mm ² --39 Ω/km; 0.75mm ² --26 Ω/km; 1.00mm ² --19.5 Ω/km; 1.50mm ² --13.3 Ω/km
Capacitance(max.) (core-core)	0.14mm ² --80 nF/km; 0.22mm ² ..0.34mm ² --100 nF/km; 0.50mm ² ..0.75mm ² --110 nF/km; 1.00mm ² ..1.50mm ² --120nF/km
Capacitance(max.) (core-screen)	0.14mm ² --120 nF/km; 0.22mm ² ..0.34mm ² --150 nF/km; 0.50mm ² ..0.75mm ² --170 nF/km; 1.00mm ² ..1.50mm ² --180nF/km
Operating Voltage	0.14mm ² ..0.25mm ² 250V; 0.34mm ² ..1.50mm ² 300V/500V
Test Voltage (50 Hz)	0.14mm ² ..25mm ² 1200V; 0.34mm ² ..10mm ² 1500V; 1.50mm ² 2500V
Insulation Resistance	>200 M.Ωxkm
Inductance(approx.)	0.65 mH/km
Temperature Range	Fixed -30 °C.....+70 °C; Flexible -5 °C.....+70 °C