

SCREEN CABLE (LIYCY)

➤ **APPLICATION:** These PVC (screened) cables are used in industrial applications for signal transmission. Screening protects the cable from the outer electrical effects. As a Control and connecting cables for electronically operating instruments in conveyer belts production lines, machine tool industries, progressive assembly lines for flexible installation with low mechanical stress ensuring the free-movements without forced mobile guiding as well as fixed installation in dry, wet and damp environments but not suitable for open air.

➤ **STRUCTURE AND SPECIFICATION:**

- CONDUCTOR : Bare Copper Strands (IEC 60228, Class 5)
- INSULATION : PVC (EN 50290-2-21)
- CORE IDENTIFICATION: Colour coded acc. to DIN 47100
- SEPERATOR: PET FOIL
- SCREEN: Tinned Copper Wire Braided
- OUTER SHEATH: PVC (EN 50290-2-22) - RAL 7001 Grey
- STANDARD: Acc. to VDE 0812 and TS 13755
- VOLTAGE RATING: 0.25 mm – 250 V.
>0.50 mm – 300/500V.
- TESTING VOLTAGE: 0.25 mm - 1200 V.
>0.50 mm – 2000 V.
- CONDUTOR RESISTANCE:
 - 0.22 mm² max. 79 Ω/km
 - 0.34 mm² max. 56 Ω/km
 - 0.50 mm² max. 39 Ω/km
 - 0.75 mm² max. 26 Ω/km
 - 1.00 mm² max. 19.5 Ω/km
 - 1.50 mm² max. 13.3 Ω/km
 - 2.50 mm² max. 7.98 Ω/km
- INSULATION RESISTANCE: min. 200 MΩ x km
- OPERATING TEMP :
 - Fixed: -30 °C / +70 °C
 - Moved: -5 °C / +70 °C
- FLAME RETARDANCE: IEC 60332-1
- Min. BENDING RADIUS :
 - Fixed: 7,5xD
 - Moved: 15xD



Core Number x Cross Section (mm ²)	Approx. Dimensions (mm)	Copper Weight (kg/km)	Approx. Cable Weight (kg/km)
2G0,25	4.5	17.2	21
3G0,25	4.7	20.2	25
4G0,25	5.1	24.0	31
5G0,25	5.4	29.0	36
7G0,25	5.9	35.0	60
8G0,25	6.60	42.1	51
10G0,25	7.60	54.0	64
12G0,25	7.80	59.4	72
14G0,25	8.20	64.6	82
16G0,25	8.70	80.4	91
2G0,5	5.90	36.0	45
3G0,5	6.20	43.0	55
4G0,5	6.60	49.0	51
5G0,5	7.10	57.0	62
7G0,5	7.8	69.0	78
8G0,5	8.1	82.0	89
10G0,5	9.3	93.0	112
12G0,5	9.6	107.0	127
14G0,5	10.0	118.0	145
16G0,5	10.5	129.0	163
2G0,75	5.90	43.0	50
3G0,75	6.20	52.0	53
4G0,75	7.10	61.0	66
5G0,75	7.70	72.0	79
7G0,75	8.60	100.0	102
8G0,75	8.80	115.0	117
10G0,75	10.0	131.0	148
12G0,75	10.5	154.0	168
14G0,75	11.2	168.5	208
16G0,75	12.0	183.0	249
19G0,75	12.7	224.5	253
21G0,75	13.5	250.0	260
25G0,75	14.8	285.0	328
2G1	7.4	51.0	74
3G1	7.9	70.0	89
4G1	8.7	80.0	107
5G1	9.2	95.0	110
7G1	10.0	110.0	125
8G1	11.2	130.0	141
10G1	13.5	165.0	180
12G1	13.7	185.0	205

14G1	14.6	205.0	234
16G1	15.5	225.0	264
19G1	16.1	279.0	346
21G1	17.0	304.5	419
24G1	18.1	340.0	386
2G1,5	8.0	65.0	70
3G1,5	8.5	90.0	92
4G1,5	9.2	110.0	116
5G1,5	10.0	125.0	140
7G1,5	10.8	159.0	184
8G1,5	12.3	175.0	211
10G1,5	14.1	210.0	267
12G1,5	15.0	268.0	308
14G1,5	15.5	291.5	364
16G1,5	16.0	315.0	420
19G1,5	17.3	379.0	475
21G1,5	18.7	404.0	525
24G1,5	19.8	509.0	593
25G1,5	20.6	530.0	618
2G2,5	8.6	92.0	95
3G2,5	9.1	118.0	127
4G2,5	9.8	147.0	161
5G2,5	10.7	176.0	196
7G2,5	11.6	253.0	259
8G2,5	12.5	284.0	295
10G2,5	14.4	346.0	381
12G2,5	16.2	408.0	438
3G4	9.0	172.5	188
4G4	11.2	230.0	250
3G6	12.0	258.0	280
4G6	13.1	343.0	350
4G10	16.7	535.0	592
4G16	20.7	800	913
4G25	24.6	1280	1360