LiYCY

Flexible screened cables, color coded according to DIN 47100, EMC*

Cable structure

- Stranded bare copper conductor for cross-sections ‡ 0,5 mm² according to DIN VDE 0295, IEC 60228 cl. 5
- Core construction for 0,14 mm² = 18 × 0,1 mm
  0,25 mm² = 14 × 0,15 mm
  0,34 mm² = 7 × 0,25 mm
- Core insulation of special PVC according to DIN VDE 0281 part 1
- Cores stranded in layers with optimal lay-lenght
- Color codes according to DIN 47100, without color repeating
- Cores wrapped with plastic foil
- Tinned copper braided screening, approx 85% coverage
- Special grey PVC outer sheath, according to DIN VDE 0281 part 1
- Extensively oil resistant
- PVC self-extinguishing and flame retardant, according to DIN VDE 0482 part 265-2-1/ EN 50265-2-1/ IEC 60332-1

Technical data

- PVC data screened cables according to DIN VDE 0245, 0812
- **Temperature range** flexing from -5 °C to +70 °C
  fixed from -30 °C to +80 °C
- **Nominal voltage** 0,14 mm² = 350 V
  ≥ 0,25 mm² = 500 V
- **Test voltage a.c.** core/core 1200 V
  core/screen 800 V
- **Insulation resistance** min. 200 MΩ × km
- **Capacitance** (approx. value) at 800 Hz (pF/m)

core cross-section (mm²)	0,14 ≥ 0,25
core/core	120 150
core/screen	240 270

- **Inductance** (approx. value) 0,65 mH/km
- **Impedance** (approx. value) 78 Ω
- **Minimum bending radius** approx. 10× cable diameter
- **Coupling resistance** max 250 Ω/km
- **Radiation resistance** up to 80×10⁶ cJ/kg (up to 80 Mrad)

Application

These screened cables are suitable for flexible use with free movement, but without tensile stress or forced movements in dry wet and moist areas but are not suitable for open air application. LiYCY cables are ideal whenever construction requirements call for minimal outer diameter such as areas of tool making, machine industry, eletrotechnics, computers, measuring and controling technics. The extremely small outer diameter makes the cable also suitable for miniature plugs.

Note

***EMC** = Electromagnetic compatibility.
CE = the product is conformed with the EC Low-Voltage Directive 73/23/EEC
Conforms to RoHS.

Part No.	Number of cores × core cross-section [mm²]	Approx. outer ∅ [mm]	Copper weight [kg/km]	Approx. cable weight [kg/km]
0220139	1 × 0,14	3,2	6,1	16
0220001	2 × 0,14	3,7	12,0	20
0220002	3 × 0,14	3,8	13,0	27
0220003	4 × 0,14	4,1	14,5	32
0220004	5 × 0,14	4,6	15,5	37
0220005	6 × 0,14	4,9	18,2	42
0220006	7 × 0,14	5,1	19,0	48
0220007	8 × 0,14	5,3	21,3	55
0220008	10 × 0,14	6,0	28,7	65
0220009	12 × 0,14	6,2	30,5	77
0220010	14 × 0,14	6,6	32,0	79
0220021	16 × 0,14	6,9	43,2	89
0220022	18 × 0,14	7,1	51,0	103
0220013	20 × 0,14	7,6	55,0	116
0220014	21 × 0,14	7,6	56,0	120
0220015	24 × 0,14	8,4	59,0	131
0220091	25 × 0,14	8,1	61,0	136
0220016	27 × 0,14	8,6	65,0	142
0220017	30 × 0,14	8,9	69,0	157
0220018	32 × 0,14	9,1	76,0	163
0220019	36 × 0,14	9,7	83,0	182
0220020	40 × 0,14	10,2	88,0	209
0220021	42 × 0,14	10,7	94,0	217
0220022	44 × 0,14	11,0	111,0	226
0220023	48 × 0,14	11,2	115,0	240
0220024	52 × 0,14	11,4	124,0	270
0220025	56 × 0,14	11,8	132,0	320
0220026	61 × 0,14	12,2	146,0	370
0220027	80 × 0,14	19,0	226,0	510

Part No.	Number of cores × core cross-section [mm²]	Approx. outer ∅ [mm]	Copper weight [kg/km]	Approx. cable weight [kg/km]
0220028	100 × 0,14	23,0	267,0	580
0220084	1 × 0,25	2,9	7,2	27
0220029	2 × 0,25	4,3	15,8	31
0220030	3 × 0,25	4,5	18,6	36
0220031	4 × 0,25	4,9	22,0	40
0220032	5 × 0,25	5,3	26,5	51
0220083	6 × 0,25	5,8	32,4	58
0220033	7 × 0,25	5,9	35,0	64
0220034	8 × 0,25	6,3	42,1	82
0220035	10 × 0,25	7,0	49,9	85
0220036	12 × 0,25	7,3	58,0	90
0220037	14 × 0,25	7,8	62,0	110
0220038	16 × 0,25	8,2	67,0	140
0220039	18 × 0,25	8,6	78,0	143
0220086	19 × 0,25	8,7	79,0	146
0220040	20 × 0,25	9,1	88,0	150
0220041	21 × 0,25	9,1	91,0	152
0220042	24 × 0,25	10,2	96,0	163
0220092	25 × 0,25	10,3	99,0	169
0220043	27 × 0,25	10,5	122,0	176
0220044	30 × 0,25	10,8	132,0	189
0220045	32 × 0,25	11,0	138,0	204
0220046	36 × 0,25	11,4	146,0	219
0220087	37 × 0,25	11,7	152,0	230
0220047	40 × 0,25	12,1	157,0	247
0220048	42 × 0,25	12,7	160,0	269
0220049	44 × 0,25	13,1	164,0	292
0220050	48 × 0,25	13,3	164,0	317

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Part No.	Number of cores x core cross-section [mm²]	Approx. outer ∅ [mm]	Copper weight [kg/km]	Approx. cable weight [kg/km]
0220051	52 × 0,25	14,0	175,0	330
0220052	56 × 0,25	14,4	189,0	343
0220053	61 × 0,25	14,8	204,0	365
0220054	80 × 0,25	25,5	387,0	480
0220055	100 × 0,25	28,0	505,0	605
0220088	1 × 0,34	3,2	13,5	24
0220056	2 × 0,34	4,8	18,0	30
0220057	3 × 0,34	5,1	22,0	37
0220058	4 × 0,34	5,6	32,2	48
0220059	5 × 0,34	6,0	31,0	54
0220085	6 × 0,34	6,5	45,0	61
0220060	7 × 0,34	6,6	51,0	67
0220061	8 × 0,34	7,1	54,0	81
0220062	10 × 0,34	8,0	65,0	103
0220063	12 × 0,34	8,4	70,0	110
0220064	14 × 0,34	8,9	81,0	155
0220065	16 × 0,34	9,4	88,0	159
0220066	18 × 0,34	9,9	103,0	172
0220089	19 × 0,34	10,1	106,0	181
0220067	20 × 0,34	10,8	112,0	191
0220068	21 × 0,34	11,0	116,0	199
0220069	24 × 0,34	11,9	120,0	229
0220093	25 × 0,34	11,6	129,0	241
0220070	27 × 0,34	12,2	138,0	258
0220071	30 × 0,34	12,6	158,0	290
0220072	32 × 0,34	12,9	163,0	305
0220073	36 × 0,34	13,6	178,0	330
0220090	37 × 0,34	13,8	192,0	348
0220074	40 × 0,34	14,4	198,0	364
0220075	42 × 0,34	15,1	205,0	389
0220076	44 × 0,34	15,5	214,0	414
0220077	48 × 0,34	15,8	227,0	420
0220078	52 × 0,34	16,2	242,0	450
0220079	56 × 0,34	16,6	267,0	480
0220080	61 × 0,34	17,1	295,0	520
0220081	80 × 0,34	25,6	524,0	580
0220082	100 × 0,34	28,5	620,0	694
0216001	1 × 0,5	3,4	15,0	40
0216002	2 × 0,5	5,4	29,0	45
0216003	3 × 0,5	5,8	38,0	55
0216004	4 × 0,5	6,4	45,0	61
0216005	5 × 0,5	6,8	51,0	76
0216006	6 × 0,5	7,4	66,0	89
0216007	7 × 0,5	7,6	68,0	98
0216008	8 × 0,5	8,3	80,0	117
0216009	10 × 0,5	9,4	93,0	135
0216010	12 × 0,5	9,7	107,0	157
0216021	14 × 0,5	10,4	122,0	190
0216022	16 × 0,5	11,1	129,0	210
0216013	18 × 0,5	11,6	152,0	217
0216526	19 × 0,5	11,7	156,0	246
0216014	20 × 0,5	12,6	161,0	275
0216015	24 × 0,5	13,7	230,0	357
0216016	25 × 0,5	13,9	250,0	351
0216527	27 × 0,5	14,0	265,0	573
0216017	30 × 0,5	14,6	276,0	396
0216018	32 × 0,5	15,0	291,0	431
0216164	34 × 0,5	15,4	298,0	440
0216019	36 × 0,5	15,7	305,0	445
0216528	37 × 0,5	16,1	317,0	458
0216020	40 × 0,5	16,5	345,0	470
0216021	50 × 0,5	18,4	407,0	570

Part No.	Number of cores x core cross-section [mm²]	Approx. outer ∅ [mm]	Copper weight [kg/km]	Approx. cable weight [kg/km]
0216022	61 × 0,5	19,4	580,0	650
0216023	80 × 0,5	23,0	690,0	780
0216024	100 × 0,5	25,9	814,0	990
0216025	1 × 0,75	3,8	19,0	41
0216026	2 × 0,75	6,2	38,0	59
0216027	3 × 0,75	6,4	50,0	66
0216028	4 × 0,75	7,0	57,0	77
0216029	5 × 0,75	7,6	70,0	93
0216030	6 × 0,75	8,3	87,0	113
0216031	7 × 0,75	8,5	96,0	130
0216032	8 × 0,75	9,2	110,0	145
0216033	10 × 0,75	10,5	140,0	180
0216034	12 × 0,75	10,9	148,0	202
0216035	14 × 0,75	11,6	167,0	225
0216036	16 × 0,75	12,3	183,0	275
0216037	18 × 0,75	13,0	205,0	292
0216529	19 × 0,75	13,2	221,0	322
0216038	20 × 0,75	14,0	238,0	362
0216039	24 × 0,75	15,5	270,0	415
0216040	25 × 0,75	15,7	278,0	435
0216041	27 × 0,75	16,2	287,0	467
0216042	30 × 0,75	16,8	315,0	486
0216043	32 × 0,75	17,1	330,0	530
0216163	34 × 0,75	17,5	350,0	570
0216044	36 × 0,75	17,8	370,0	600
0216530	37 × 0,75	18,2	386,0	640
0216045	40 × 0,75	19,0	395,0	680
0216120	42 × 0,75	19,7	408,0	714
0216046	50 × 0,75	20,9	480,0	810
0216047	61 × 0,75	22,9	555,0	900
0216048	80 × 0,75	27,4	715,0	1200
0216049	100 × 0,75	31,2	910,0	1440
0216475	2 × 1	6,5	46,0	65
0216476	3 × 1	6,9	56,0	80
0216477	4 × 1	7,5	69,0	98
0216478	5 × 1	8,3	85,0	127
0216479	6 × 1	8,9	105,0	144
0216480	7 × 1	9,0	111,0	158
0216481	8 × 1	10,2	130,0	197
0216482	10 × 1	11,4	140,0	232
0216483	12 × 1	11,7	168,0	260
0216484	14 × 1	12,7	198,0	302
0216485	16 × 1	13,4	218,0	346
0216486	19 × 1	13,9	259,0	412
0216487	24 × 1	16,5	320,0	493
0216488	27 × 1	16,8	360,0	562
0216489	37 × 1	18,8	485,0	790
0216500	2 × 1,5	7,5	63,0	88
0216501	3 × 1,5	8,0	76,0	100
0216502	4 × 1,5	8,7	98,0	126
0216503	5 × 1,5	9,6	116,0	160
0216504	6 × 1,5	10,6	140,0	192
0216505	7 × 1,5	10,7	152,0	208
0216506	8 × 1,5	11,7	172,0	244
0216507	10 × 1,5	13,5	193,0	315
0216508	12 × 1,5	14,0	254,0	338
0216509	14 × 1,5	15,0	272,0	383
0216510	16 × 1,5	15,7	285,0	424
0216511	19 × 1,5	17,1	387,0	506
0216512	24 × 1,5	19,5	448,0	690
0216513	27 × 1,5	19,8	506,0	781
0216514	37 × 1,5	23,6	682,0	941