

TECHNOFLEKS LiYCY 300/500 V
TECHNOFLEKS LiYCYżo 300/500 V

page 1 of 3

CONTROL AND POWER SUPPLY FLEXIBLE CABLES**APPLICATIONS**

TECHNOFLEKS LiYCY 300/500 V and **TECHNOFLEKS LiYCYżo 300/500 V** are flexible, overall shielded cables designed for wet or dry locations and intended for control, protection and monitoring systems or power supply, all in power engineering. The cables are also intended for wiring industrial plants, such as production lines, air-conditioning equipment etc.

The overall shield protects the cables against external electromagnetic interferences and prevents emission of interferences produced in the cables.

The cables are designed to offer high flexibility combined with tensile strength.

The cables are suitable for indoor installations connecting fixed and movable equipment.

Cable outer sheath is oil-resistant.

CONSTRUCTION

- flexible, multiwire conductors, stranded of bare annealed copper wires (tin-plated on request), meeting requirements of class 5 per PN-EN 60228,
- PVC insulation - identification colour code in accordance with Technokabel's Identification System (see our *Technical Guide*),
- insulated conductors laid-up in layers, green-yellow protective conductor located in the outer layer in **TECHNOFLEKS LiYCYżo 300/500 V** cable,
- cable core wrapped in polyester tape,
- tinned copper wire braid shield of effective density coverage,
- PVC cable sheath, grey RAL 7001, other colours also available.

AVAILABLE UPON REQUEST

TECHNOFLEKS LiYCY-O 300/500 V i **TECHNOFLEKS LiYCYżo-O 300/500 V** - cables designed for frequent contact with petroleum products, as in petrol stations and stores, where engine fuels and lubricants are pumped or handled. The cable sheath is then made of special PVC compound meeting oil resistance requirements of Polish standard PN-EN 60811-404.

TECHNOFLEKS LiYC11Y 300/500 V i **TECHNOFLEKS LiYC11Yżo 300/500 V** - polyurethane sheathed cables of enhanced protection against mechanical damage, particularly to abrasion and tear, also resistant to oils, petrol, bacteria and ultraviolet radiation.

TECHNOFLEKS LiHCH 300/500 V i **TECHNOFLEKS LiHCHżo 300/500 V** - halogen free cables, applied when higher safety in case of fire is required. The cables are flame retardant, their smoke emission in fire is low and released gases are not corrosive.

TECHNOFLEKS LiYCYv 300/500 V i **TECHNOFLEKS LiYCYvżo 300/500 V** - cables with enhanced PVC sheath, suitable for outdoor installation and direct earth burial.

TECHNOFLEKS LIYCY 300/500 V

TECHNOFLEKS LIYCYżo 300/500 V

page 2 of 3

CHARACTERISTICS

Conductor cross-section	mm ²	0.5	0.75	1.0	1.5	2.5	4.0
DC conductor resistance at 20°C, maximum	Ω/km	39.0	26.0	19.5	13.3	7.98	4.95
Conductor cross-section	mm ²	6.0	10	16	25	35	50
DC conductor resistance at 20°C, maximum	Ω/km	3.30	1.91	1.21	0.780	0.554	0.386

Operating voltage U ₀ /U	300/500 V	Operating temperature range	
Voltage test	3.0 kV rms	for fixed installation	from - 30 to + 80°C
Insulation resistance, minimum	20 MΩ·km	for movable installation	from - 5 to + 70°C
Conductor temperature limit		Minimum bending radius	10 x cable diameter
in work conditions	+ 70°C	Cable combustibility	flame retardant
at short-circuit	+ 150°C	Combustibility tests	PN-EN 60332-1-2, IEC 60332-1-2
		Reference standards	DIN VDE 0245, DIN VDE 0250, DIN VDE 0281

CE = the cable meets requirements of the low voltage directive 2014/35/EU

Product No.	Number of conductors x conductor cross-section	Cable outer diameter (appr.)	Copper index	Cable weight (appr.)
	mm ²	mm	kg/km	kg/km
0114 039	1 x 0,5	3.5	8.8	21
0114 026	2 x 0,5	5.1	17.6	37
0114 027	3 x 0,5	5.4	22.5	44
0114 028	4 x 0,5	5.8	28.9	53
0114 040	5 x 0,5	6.3	33.7	63
0114 020	6 x 0,5	6.8	39.4	74
0114 001	7 x 0,5	6.8	44.2	76
0114 021	8 x 0,5	7.3	50.0	88
0114 022	10 x 0,5	8.5	65.9	108
0114 023	12 x 0,5	8.8	76.6	123
0114 041	14 x 0,5	9.2	87.0	138
0114 042	16 x 0,5	10.1	98.5	165
0114 043	18 x 0,5	10.6	108.7	183
0114 044	19 x 0,5	10.6	113.5	185
0114 045	21 x 0,5	11.1	124.4	204
0114 046	24 x 0,5	12.4	141.7	234
0114 047	25 x 0,5	12.7	147.2	250
0114 048	27 x 0,5	12.7	156.8	255
0114 049	30 x 0,5	13.1	172.3	277
0114 050	34 x 0,5	14.3	194.1	327
0114 051	36 x 0,5	14.3	203.7	332
0114 052	37 x 0,5	14.3	208.5	335
0114 053	40 x 0,5	14.8	224.1	360
0114 054	41 x 0,5	15.4	237.1	388
0114 055	1 x 0,75	3.6	12.0	24
0114 003	2 x 0,75	5.5	22.5	43
0114 004	3 x 0,75	5.7	30.0	52
0114 016	4 x 0,75	6.2	38.5	63
0114 056	5 x 0,75	6.7	46.4	76
0114 057	6 x 0,75	7.3	54.8	91
0114 058	7 x 0,75	7.3	62.0	95
0114 059	8 x 0,75	7.9	74.0	113

Product No.	Number of conductors x conductor cross-section	Cable outer diameter (appr.)	Copper index	Cable weight (appr.)
	mm ²	mm	kg/km	kg/km
0114 030	10 x 0,75	9.2	91.8	135
0114 005	12 x 0,75	9.9	106.9	163
0114 060	14 x 0,75	10.4	122.6	184
0114 029	16 x 0,75	10.9	138.3	206
0114 006	18 x 0,75	11.5	154.2	229
0114 061	19 x 0,75	11.5	161.4	233
0114 062	21 x 0,75	12.2	177.1	263
0114 063	24 x 0,75	13.5	202.1	295
0114 007	25 x 0,75	13.8	210.1	315
0114 064	27 x 0,75	13.8	224.5	323
0114 065	30 x 0,75	14.4	247.1	358
0114 066	34 x 0,75	15.6	285.7	421
0114 067	1 x 1,0	3.8	14.4	27
0114 008	2 x 1,0	5.8	28.9	50
0114 009	3 x 1,0	6.1	38.5	62
0114 019	4 x 1,0	6.7	48.8	76
0114 010	5 x 1,0	7.2	59.4	93
0114 068	6 x 1,0	7.9	74.0	113
0114 011	7 x 1,0	7.9	83.6	119
0114 069	8 x 1,0	8.5	94.7	137
0114 070	10 x 1,0	10.3	117.7	174
0114 071	12 x 1,0	10.7	137.8	199
0114 072	14 x 1,0	11.2	158.8	224
0114 024	16 x 1,0	11.7	178.8	252
0114 015	18 x 1,0	12.6	199.9	288
0114 073	19 x 1,0	12.6	209.5	293
0114 074	21 x 1,0	13.2	230.1	324
0114 075	24 x 1,0	14.8	262.5	371
0114 025	25 x 1,0	15.2	279.6	402
0114 076	27 x 1,0	15.2	298.8	413
0114 077	30 x 1,0	15.7	329.2	449

TECHNOFLEKS LiYCY 300/500 V **TECHNOFLEKS LiYCYżo 300/500 V**

page 3 of 3

Product No.	Number of conductors x conductor cross-section	Cable outer diameter (appr.)	Copper index	Cable weight (appr.)
	mm ²	mm	kg/km	kg/km
0114 078	1 x 1,5	4.1	19.8	33
0114 018	2 x 1,5	6.4	38.6	61
0114 012	3 x 1,5	6.7	53.6	78
0114 079	4 x 1,5	7.3	69.2	97
0114 013	5 x 1,5	8.1	88.9	124
0114 080	6 x 1,5	8.7	105.4	147
0114 014	7 x 1,5	8.7	119.8	155
0114 081	8 x 1,5	9.8	135.4	189
0114 082	10 x 1,5	11.4	168.4	226
0114 083	12 x 1,5	12.0	198.2	266
0114 084	14 x 1,5	12.6	228.7	301
0114 085	16 x 1,5	13.2	258.9	340
0114 086	18 x 1,5	13.9	289.5	379
0114 087	19 x 1,5	13.9	303.9	388
0114 088	21 x 1,5	14.8	334.5	436
0114 089	24 x 1,5	16.5	389.3	498
0114 090	25 x 1,5	16.8	404.6	529
0114 091	1 x 2,5	4.5	30.4	44
0114 092	2 x 2,5	7.2	59.4	83
0114 093	3 x 2,5	7.6	84.2	109
0114 017	4 x 2,5	8.4	113.7	141
0114 094	5 x 2,5	9.2	139.8	175
0114 095	6 x 2,5	10.4	165.8	219
0114 096	7 x 2,5	10.4	189.8	233
0114 097	8 x 2,5	11.3	216.4	270
0114 098	10 x 2,5	13.3	268.8	330
0114 099	12 x 2,5	13.8	318.1	381
0114 100	14 x 2,5	14.7	367.9	442
0114 101	16 x 2,5	15.5	424.6	507
0114 102	18 x 2,5	16.4	475.4	567
0114 103	2 x 4,0	8.7	95.8	123

Product No.	Number of conductors x conductor cross-section	Cable outer diameter (appr.)	Copper index	Cable weight (appr.)
	mm ²	mm	kg/km	kg/km
0114 104	3 x 4,0	9.2	135.0	163
0114 105	4 x 4,0	10.5	175.7	216
0114 106	5 x 4,0	11.5	216.6	268
0114 107	7 x 4,0	12.7	296.0	350
0114 038	3 x 6,0	11.0	196.2	240
0114 108	4 x 6,0	12.3	256.6	310
0114 109	5 x 6,0	13.4	317.0	386
0114 110	7 x 6,0	14.9	435.6	507
0114 111	3 x 10,0	13.8	318.1	392
0114 112	4 x 10,0	15.5	424.6	516
0114 113	5 x 10,0	17.0	525.2	645
0114 114	7 x 10,0	18.8	722.2	850
0114 115	3 x 16,0	16.5	504.5	593
0114 116	4 x 16,0	18.1	663.0	761
0114 117	5 x 16,0	20.1	822.2	967
0114 118	7 x 16,0	22.0	1135.3	1270
0114 119	3 x 25,0	19.2	771.4	846
0114 120	4 x 25,0	21.2	1017.6	1093
0114 121	5 x 25,0	23.7	1287.3	1411
0114 122	3 x 35,0	22.9	1091.9	1191
0114 123	4 x 35,0	25.3	1438.0	1536
0114 124	5 x 35,0	28.1	1812.9	1964
0114 125	3 x 50,0	28.5	1575.0	1737
0114 126	4 x 50,0	31.7	2070.9	2265
0114 127	5 x 50,0	35.2	2600.9	2888

Other cross-sections and conductor counts available on request.

TECHNOKABEL S.A. reserves the right to change specifications without prior notice.