

TECHNOFLEKS LiYCY 0,6/1 kV
TECHNOFLEKS LiYCYżo 0,6/1 kV**CONTROL AND POWER SUPPLY FLEXIBLE CABLES****APPLICATIONS**

TECHNOFLEKS LiYCY 0,6/1 kV and **TECHNOFLEKS LiYCYżo 0,6/1 kV** 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 0,6/1 kV** 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 0,6/1 kV and **TECHNOFLEKS LiYCYżo-O 0,6/1 kV** - 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 0,6/1 kV and **TECHNOFLEKS LiYC11Yżo 0,6/1 kV** - 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 0,6/1 kV and **TECHNOFLEKS LiHCHżo 0,6/1 kV** - 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 0,6/1 kV and **TECHNOFLEKS LiYCYvżo 0,6/1 kV** - cables with enhanced PVC sheath, suitable for outdoor installation and direct earth burial.

TECHNOFLEKS LIYCY 0,6/1 kV **TECHNOFLEKS LIYCYżo 0,6/1 kV**

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 _o /U	0.6/1 kV	Operating temperature range	
Voltage test	3.5 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	+ 160°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
0113 009	1 x 0,5	4.3	9.6	30
0113 010	2 x 0,5	6.5	19.3	53
0113 011	3 x 0,5	6.8	24.2	63
0113 001	4 x 0,5	7.3	30.0	75
0113 012	5 x 0,5	8.0	36.2	92
0113 013	6 x 0,5	8.7	46.2	112
0113 014	7 x 0,5	8.7	51.0	114
0113 002	8 x 0,5	9.3	57.4	131
0113 015	10 x 0,5	11.0	70.9	161
0113 016	12 x 0,5	11.3	81.2	181
0113 017	14 x 0,5	11.9	92.4	203
0113 018	16 x 0,5	12.7	103.9	234
0113 019	18 x 0,5	13.4	114.9	260
0113 020	19 x 0,5	13.4	119.7	263
0113 021	21 x 0,5	14.0	130.9	289
0113 022	24 x 0,5	15.8	156.1	338
0113 023	25 x 0,5	16.1	161.8	362
0113 024	27 x 0,5	16.1	171.4	367
0113 025	30 x 0,5	16.7	187.7	399
0113 026	34 x 0,5	17.9	210.6	463
0113 027	36 x 0,5	17.9	220.2	468
0113 028	37 x 0,5	17.9	225.0	471
0113 003	40 x 0,5	19.0	241.5	526
0113 029	41 x 0,5	19.6	248.2	558
0113 030	1 x 0,75	4.5	12.6	34
0113 031	2 x 0,75	6.8	24.2	59
0113 032	3 x 0,75	7.2	32.2	73
0113 033	4 x 0,75	7.8	40.6	89
0113 034	5 x 0,75	8.5	52.9	111
0113 035	6 x 0,75	9.2	62.2	132
0113 036	7 x 0,75	9.2	69.4	135

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
0113 004	8 x 0,75	10.1	78.1	161
0113 037	10 x 0,75	11.7	96.6	191
0113 038	12 x 0,75	12.3	112.1	222
0113 039	14 x 0,75	12.9	128.0	250
0113 040	16 x 0,75	13.6	144.2	281
0113 041	18 x 0,75	14.5	160.5	320
0113 042	19 x 0,75	14.5	167.7	324
0113 043	21 x 0,75	15.3	190.6	364
0113 044	24 x 0,75	16.9	217.1	407
0113 045	25 x 0,75	17.2	225.2	435
0113 046	27 x 0,75	17.2	239.6	443
0113 047	30 x 0,75	17.8	263.1	482
0113 048	34 x 0,75	19.6	296.2	581
0113 049	1 x 1,0	4.7	16.0	38
0113 050	2 x 1,0	7.2	29.8	67
0113 051	3 x 1,0	7.6	40.2	84
0113 052	4 x 1,0	8.3	54.8	106
0113 053	5 x 1,0	9.0	67.0	130
0113 054	6 x 1,0	10.0	77.8	157
0113 055	7 x 1,0	10.0	87.4	163
0113 056	8 x 1,0	10.7	98.9	188
0113 057	10 x 1,0	12.7	123.1	231
0113 058	12 x 1,0	13.0	142.7	261
0113 059	14 x 1,0	13.7	163.7	294
0113 060	16 x 1,0	14.6	184.7	339
0113 061	18 x 1,0	15.5	212.8	384
0113 062	19 x 1,0	15.5	222.4	390
0113 063	21 x 1,0	16.2	243.7	430
0113 064	24 x 1,0	17.9	277.8	482
0113 065	25 x 1,0	18.3	288.6	515
0113 066	27 x 1,0	18.3	307.8	527

TECHNOFLEKS LiYCY 0,6/1 kV **TECHNOFLEKS LiYCYżo 0,6/1 kV**

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
0113 067	30 x 1,0	19.4	338.8	595
0113 068	1 x 1,5	5.0	20.8	44
0113 069	2 x 1,5	7.7	40.4	81
0113 005	3 x 1,5	8.1	55.6	102
0113 070	4 x 1,5	9.0	76.6	131
0113 071	5 x 1,5	10.0	92.2	165
0113 072	6 x 1,5	10.8	108.7	195
0113 073	7 x 1,5	10.8	123.1	203
0113 074	8 x 1,5	11.6	139.6	235
0113 075	10 x 1,5	13.7	173.3	287
0113 076	12 x 1,5	14.4	203.4	336
0113 077	14 x 1,5	15.1	234.0	379
0113 078	16 x 1,5	16.0	271.9	435
0113 079	18 x 1,5	16.8	303.1	485
0113 080	19 x 1,5	16.8	317.5	494
0113 081	21 x 1,5	17.6	348.8	545
0113 082	24 x 1,5	20.0	398.3	633
0113 083	25 x 1,5	20.4	413.9	676
0113 084	1 x 2,5	5.4	32.1	56
0113 085	2 x 2,5	8.7	65.4	108
0113 086	3 x 2,5	9.2	91.0	139
0113 087	4 x 2,5	10.2	116.7	176
0113 088	5 x 2,5	11.1	143.1	217
0113 089	6 x 2,5	12.3	169.7	264
0113 090	7 x 2,5	12.3	193.7	278
0113 091	8 x 2,5	13.2	220.0	322
0113 092	10 x 2,5	15.8	280.9	401
0113 093	12 x 2,5	16.3	330.4	459
0113 094	14 x 2,5	17.1	380.9	521
0113 095	16 x 2,5	18.0	431.9	590
0113 096	18 x 2,5	19.4	482.8	679

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
0113 097	2 x 4,0	10.3	98.5	154
0113 098	3 x 4,0	10.9	137.8	201
0113 006	4 x 4,0	11.9	178.8	251
0113 007	5 x 4,0	13.2	220.0	318
0113 099	7 x 4,0	14.5	299.7	410
0113 100	3 x 6,0	12.3	198.5	271
0113 008	4 x 6,0	13.4	258.9	340
0113 101	5 x 6,0	14.9	319.9	432
0113 102	7 x 6,0	16.4	446.0	561
0113 103	3 x 10,0	15.1	320.4	429
0113 104	4 x 10,0	16.6	427.4	553
0113 105	5 x 10,0	18.3	528.6	693
0113 106	7 x 10,0	20.4	725.9	918
0113 107	3 x 16,0	17.5	506.9	627
0113 108	4 x 16,0	19.7	666.1	824
0113 109	5 x 16,0	21.6	825.6	1033
0113 110	7 x 16,0	24.2	1162.0	1395
0113 111	3 x 25,0	21.3	776.7	928
0113 112	4 x 25,0	24.1	1046.4	1242
0113 113	5 x 25,0	26.5	1296.5	1555
0113 114	3 x 35,0	24.4	1095.7	1263
0113 115	4 x 35,0	27.0	1467.9	1647
0113 116	5 x 35,0	29.8	1818.7	2071
0113 117	3 x 50,0	29.9	1579.1	1824
0113 118	4 x 50,0	33.2	2075.6	2371
0113 119	5 x 50,0	36.9	2600.9	3014

Other cross-sections and conductor counts available on request.

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