

TECHNOFLEKS LiYY 0,6/1 kV
TECHNOFLEKS LiYYžo 0,6/1 kV

page 1 of 3

CONTROL AND POWER SUPPLY FLEXIBLE CABLESOperating voltage
0,6/1 kV ACTest voltage
3,5 kVTemp. range
fixed installation
from -30°C to +80°CTemp. range
during installation
from +5°C to +70°CBending radius
7,5xDHigh
flexibilityFlame retardant
PN-EN 60332-1-2Indoor
application**APPLICATIONS**

TECHNOFLEKS LiYY 0,6/1 kV and **TECHNOFLEKS LiYYžo 0,6/1 kV** are flexible 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 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 in to a cable core, green-yellow protective conductor located in the outer layer in **TECHNOFLEKS LiYYžo 0,6/1 kV** cable,
- PVC cable sheath, grey RAL 7001, other colours also available.

AVAILABLE UPON REQUEST

TECHNOFLEKS LiYY-O 0,6/1 kV and **TECHNOFLEKS LiYYžo-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 LiY11Y 0,6/1 kV and **TECHNOFLEKS LiY11Yžo 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 LiHH 0,6/1 kV and **TECHNOFLEKS LiHHžo 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 LiYYv 0,6/1 kV and **TECHNOFLEKS LiYYvžo 0,6/1 kV** - cables with enhanced PVC sheath, suitable for outdoor installation and direct earth burial.

TECHNOFLEKS LiYY 0,6/1 kV **TECHNOFLEKS LiYYžo 0,6/1 kV**

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 _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	7.5 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
0724 002	2 x 0,5	6.0	9.6	48
0724 003	3 x 0,5	6.3	14.4	56
0724 004	4 x 0,5	6.8	19.2	66
0724 005	5 x 0,5	7.5	24.0	82
0724 006	6 x 0,5	8.1	28.8	96
0724 007	7 x 0,5	8.1	33.6	99
0724 008	8 x 0,5	8.7	38.4	114
0724 009	10 x 0,5	10.4	48.0	143
0724 010	12 x 0,5	10.7	57.6	161
0724 011	14 x 0,5	11.3	67.2	181
0724 012	16 x 0,5	11.9	76.8	204
0724 013	18 x 0,5	12.8	86.4	234
0724 014	19 x 0,5	12.8	91.2	237
0724 015	21 x 0,5	13.4	100.8	261
0724 016	24 x 0,5	15.1	115.2	302
0724 017	27 x 0,5	15.4	129.6	329
0724 018	30 x 0,5	16.0	144.0	358
0724 019	36 x 0,5	17.2	172.8	423
0724 020	37 x 0,5	17.2	177.6	426
0724 021	44 x 0,5	19.7	211.2	520
0724 022	48 x 0,5	20.1	230.4	557
0724 023	52 x 0,5	20.6	249.6	594
0724 024	56 x 0,5	21.2	268.8	636
0724 025	60 x 0,5	21.9	288.0	679
0724 026	2 x 0,75	6.3	14.4	56
0724 027	3 x 0,75	6.7	21.6	66
0724 028	4 x 0,75	7.3	28.8	80
0724 029	5 x 0,75	7.9	36.0	97
0724 030	6 x 0,75	8.6	43.2	115
0724 031	7 x 0,75	8.6	50.4	119
0724 032	8 x 0,75	9.3	57.6	138
0724 033	10 x 0,75	11.1	72.0	173
0724 034	12 x 0,75	11.5	86.4	196

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
0724 035	14 x 0,75	12.3	100.8	226
0724 036	16 x 0,75	13.0	115.2	256
0724 037	18 x 0,75	13.7	129.6	286
0724 038	19 x 0,75	13.7	136.8	290
0724 039	21 x 0,75	14.6	151.2	327
0724 040	24 x 0,75	16.2	172.8	370
0724 041	27 x 0,75	16.5	194.4	403
0724 042	30 x 0,75	17.1	216.0	440
0724 043	36 x 0,75	18.9	259.2	539
0724 044	37 x 0,75	18.9	266.4	543
0724 045	44 x 0,75	21.2	316.8	641
0724 046	48 x 0,75	21.5	345.6	686
0724 047	52 x 0,75	22.1	374.4	734
0724 048	56 x 0,75	23.2	403.2	807
0724 049	60 x 0,75	23.9	432.0	861
0724 050	2 x 1,0	6.7	19.2	65
0724 051	3 x 1,0	7.1	28.8	78
0724 052	4 x 1,0	7.7	38.4	93
0724 053	5 x 1,0	8.4	48.0	114
0724 054	6 x 1,0	9.2	57.6	136
0724 055	7 x 1,0	9.2	67.2	142
0724 056	8 x 1,0	10.1	76.8	169
0724 057	10 x 1,0	11.9	96.0	207
0724 058	12 x 1,0	12.4	115.2	239
0724 059	14 x 1,0	13.1	134.4	270
0724 060	16 x 1,0	13.8	153.6	306
0724 061	18 x 1,0	14.8	172.8	349
0724 062	19 x 1,0	14.8	182.4	355
0724 063	21 x 1,0	15.5	201.6	391
0724 064	24 x 1,0	17.2	230.4	444
0724 065	27 x 1,0	17.6	259.2	486
0724 066	30 x 1,0	18.3	288.0	531
0724 067	36 x 1,0	20.1	345.6	648

TECHNOFLEKS LiYY 0,6/1 kV **TECHNOFLEKS LiYYžo 0,6/1 kV**

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
0724 068	37 x 1,0	20.1	355.2	654
0724 069	44 x 1,0	22.6	422.4	774
0724 070	48 x 1,0	23.4	460.8	850
0724 071	52 x 1,0	24.1	499.2	911
0724 072	56 x 1,0	24.8	537.6	976
0724 073	60 x 1,0	25.5	576.0	1041
0724 001	2 x 1,5	7.2	28.8	79
0724 074	3 x 1,5	7.6	43.2	96
0724 075	4 x 1,5	8.4	57.6	118
0724 076	5 x 1,5	9.2	72.0	146
0724 077	6 x 1,5	10.2	86.4	177
0724 078	7 x 1,5	10.2	100.8	186
0724 079	8 x 1,5	11.0	115.2	215
0724 080	10 x 1,5	13.1	144.0	269
0724 081	12 x 1,5	13.6	172.8	307
0724 082	14 x 1,5	14.5	201.6	354
0724 083	16 x 1,5	15.3	230.4	401
0724 084	18 x 1,5	16.1	259.2	448
0724 085	19 x 1,5	16.1	273.6	457
0724 086	21 x 1,5	16.9	302.4	505
0724 087	24 x 1,5	19.3	345.6	591
0724 088	27 x 1,5	19.7	388.8	647
0724 089	30 x 1,5	20.4	432.0	708
0724 090	36 x 1,5	22.0	518.4	841
0724 091	37 x 1,5	22.0	532.8	849
0724 092	44 x 1,5	25.2	633.6	1029
0724 093	48 x 1,5	25.6	691.2	1104
0724 094	52 x 1,5	26.3	748.8	1184
0724 095	56 x 1,5	27.1	806.4	1270
0724 096	60 x 1,5	27.9	864.0	1356
0724 097	2 x 2,5	8.1	48.0	105
0724 098	3 x 2,5	8.6	72.0	130
0724 099	4 x 2,5	9.4	96.0	159
0724 100	5 x 2,5	10.5	120.0	202
0724 101	6 x 2,5	11.5	144.0	241
0724 102	7 x 2,5	11.5	168.0	255
0724 103	8 x 2,5	12.6	192.0	301
0724 104	10 x 2,5	15.1	240.0	377
0724 105	12 x 2,5	15.6	288.0	430
0724 106	14 x 2,5	16.4	336.0	488
0724 107	16 x 2,5	17.3	384.0	554
0724 108	18 x 2,5	18.3	432.0	621
0724 109	19 x 2,5	18.3	456.0	635
0724 110	21 x 2,5	19.6	504.0	721

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
0724 111	24 x 2,5	21.8	576.0	818
0724 112	27 x 2,5	22.3	648.0	899
0724 113	30 x 2,5	23.6	720.0	1007
0724 114	36 x 2,5	25.4	864.0	1196
0724 115	37 x 2,5	25.4	888.0	1210
0724 116	44 x 2,5	28.6	1056.0	1435
0724 117	48 x 2,5	29.1	1152.0	1544
0724 118	52 x 2,5	29.9	1248.0	1658
0724 119	56 x 2,5	30.9	1344.0	1781
0724 120	60 x 2,5	32.0	1440.0	1917
0724 121	2 x 4,0	9.5	76.8	152
0724 122	3 x 4,0	10.3	115.2	195
0724 123	4 x 4,0	11.3	153.6	241
0724 124	5 x 4,0	12.6	192.0	304
0724 125	7 x 4,0	13.7	268.8	386
0724 126	3 x 6,0	11.5	172.8	262
0724 127	4 x 6,0	12.8	230.4	332
0724 128	5 x 6,0	14.1	288.0	413
0724 129	7 x 6,0	15.7	403.2	538
0724 130	3 x 10,0	14.5	288.0	437
0724 131	4 x 10,0	15.9	384.0	546
0724 132	5 x 10,0	17.6	480.0	682
0724 133	7 x 10,0	19.7	672.0	899
0724 134	3 x 16,0	16.8	460.8	640
0724 135	4 x 16,0	19.0	614.4	826
0724 136	5 x 16,0	20.9	768.0	1029
0724 137	7 x 16,0	23.3	1075.2	1359
0724 138	3 x 25,0	20.6	720.0	965
0724 139	4 x 25,0	23.2	960.0	1241
0724 140	5 x 25,0	25.6	1200.0	1549
0724 141	3 x 35,0	23.5	1008.0	1298
0724 142	4 x 35,0	25.9	1344.0	1641
0724 143	5 x 35,0	28.7	1680.0	2056
0724 144	3 x 50,0	28.8	1440.0	1895
0724 145	4 x 50,0	32.1	1920.0	2414
0724 146	5 x 50,0	35.6	2400.0	3028

Other cross-sections and conductor counts available on request.

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