

TECHNOFLEKS LiYY 300/500 V
TECHNOFLEKS LiYYžo 300/500 V**CONTROL AND POWER SUPPLY FLEXIBLE CABLES**Operating voltage
300/500 VTest voltage
3 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 300/500 V and **TECHNOFLEKS LiYYžo 300/500 V** 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 300/500 V** cable,
- PVC cable sheath, grey RAL 7001, other colours also available.

AVAILABLE UPON REQUEST

TECHNOFLEKS LiYY-O 300/500 V and **TECHNOFLEKS LiYYžo-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 LiY11Y 300/500 V and **TECHNOFLEKS LiY11Yžo 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 LiHH 300/500 V and **TECHNOFLEKS LiHHžo 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 LiYYv 300/500 V and **TECHNOFLEKS LiYYvžo 300/500 V** - cables with enhanced PVC sheath, suitable for outdoor installation and direct earth burial.

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TECHNOFLEKS LIYYżo 300/500 V

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 U₀/U 300/500 V

Voltage test 3.0 kV rms

Insulation resistance, minimum 20 MΩ·km

Conductor temperature limit
in work conditions + 70°C
at short-circuit + 150°C

Operating temperature range
for fixed installation
for movable installation

from - 30 to + 80°C
from - 5 to + 70°C

Minimum bending radius 7.5 x cable diameter

Cable combustibility flame retardant

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
0163 016	2 x 0,5	4.6	9.6	31
0163 017	3 x 0,5	4.9	14.4	37
0163 018	4 x 0,5	5.3	19.2	45
0163 019	5 x 0,5	5.8	24.0	55
0163 020	6 x 0,5	6.3	28.8	65
0163 021	7 x 0,5	6.3	33.6	67
0163 022	8 x 0,5	6.8	38.4	78
0163 007	10 x 0,5	7.9	48.0	94
0163 023	12 x 0,5	8.2	57.6	107
0163 024	14 x 0,5	8.6	67.2	121
0163 025	16 x 0,5	9.1	76.8	137
0163 026	18 x 0,5	10.0	86.4	162
0163 027	19 x 0,5	10.0	91.2	164
0163 031	21 x 0,5	10.5	100.8	181
0163 028	24 x 0,5	11.6	115.2	205
0163 029	25 x 0,5	12.1	120.0	224
0163 030	27 x 0,5	12.1	129.6	229
0163 033	30 x 0,5	12.5	144.0	250
0163 034	34 x 0,5	13.5	163.2	291
0163 035	37 x 0,5	13.5	177.6	298
0163 032	40 x 0,5	14.2	192.0	328
0163 036	44 x 0,5	15.3	211.2	359
0163 037	48 x 0,5	15.6	230.4	385
0163 038	50 x 0,5	16.0	240.0	406
0163 039	56 x 0,5	16.5	268.8	441
0163 040	60 x 0,5	17.0	288.0	470
0163 041	2 x 0,75	5.0	14.4	38
0163 001	3 x 0,75	5.2	21.6	45
0163 011	4 x 0,75	5.7	28.8	56
0163 042	5 x 0,75	6.2	36.0	68
0163 043	6 x 0,75	6.8	43.2	81
0163 009	7 x 0,75	6.8	50.4	85
0163 044	8 x 0,75	7.3	57.6	98

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
0163 045	10 x 0,75	8.6	72.0	120
0163 046	12 x 0,75	8.9	86.4	137
0163 047	14 x 0,75	9.8	100.8	164
0163 048	16 x 0,75	10.3	115.2	185
0163 049	18 x 0,75	10.9	129.6	207
0163 050	19 x 0,75	10.9	136.8	211
0163 051	21 x 0,75	11.4	151.2	233
0163 052	24 x 0,75	12.9	172.8	270
0163 053	25 x 0,75	13.2	180.0	288
0163 054	27 x 0,75	13.2	194.4	296
0163 055	30 x 0,75	13.6	216.0	323
0163 056	34 x 0,75	14.9	244.8	382
0163 057	37 x 0,75	14.9	266.4	393
0163 058	40 x 0,75	15.5	288.0	425
0163 059	44 x 0,75	16.7	316.8	465
0163 060	48 x 0,75	17.0	345.6	500
0163 061	50 x 0,75	17.5	360.0	528
0163 062	56 x 0,75	18.0	403.2	574
0163 063	60 x 0,75	18.8	432.0	622
0163 014	2 x 1,0	5.3	19.2	45
0163 064	3 x 1,0	5.6	28.8	55
0163 065	4 x 1,0	6.2	38.4	68
0163 066	5 x 1,0	6.7	48.0	84
0163 067	6 x 1,0	7.3	57.6	100
0163 008	7 x 1,0	7.3	67.2	105
0163 068	8 x 1,0	7.9	76.8	122
0163 069	10 x 1,0	9.3	96.0	149
0163 070	12 x 1,0	10.1	115.2	180
0163 071	14 x 1,0	10.6	134.4	204
0163 006	16 x 1,0	11.1	153.6	230
0163 072	18 x 1,0	12.0	172.8	263
0163 073	19 x 1,0	12.0	182.4	269
0163 074	21 x 1,0	12.6	201.6	297

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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
0163 005	24 x 1,0	14.2	230.4	343
0163 075	27 x 1,0	14.5	259.2	376
0163 076	30 x 1,0	15.0	288.0	411
0163 077	34 x 1,0	16.2	326.4	478
0163 078	37 x 1,0	16.2	355.2	494
0163 079	40 x 1,0	16.8	384.0	534
0163 080	44 x 1,0	18.4	422.4	593
0163 081	48 x 1,0	18.7	460.8	637
0163 082	50 x 1,0	19.2	480.0	673
0163 083	60 x 1,0	20.4	576.0	783
0163 084	2 x 1,5	5.9	28.8	59
0163 002	3 x 1,5	6.2	43.2	72
0163 003	4 x 1,5	6.8	57.6	90
0163 085	5 x 1,5	7.5	72.0	111
0163 086	6 x 1,5	8.1	86.4	132
0163 087	7 x 1,5	8.1	100.8	140
0163 088	8 x 1,5	8.8	115.2	163
0163 089	10 x 1,5	10.8	144.0	210
0163 090	12 x 1,5	11.2	172.8	240
0163 091	14 x 1,5	12.0	201.6	279
0163 092	16 x 1,5	12.6	230.4	315
0163 093	18 x 1,5	13.3	259.2	353
0163 095	19 x 1,5	13.3	273.6	362
0163 096	21 x 1,5	14.2	302.4	407
0163 097	24 x 1,5	15.8	345.6	462
0163 098	27 x 1,5	16.1	388.8	508
0163 099	30 x 1,5	16.7	432.0	557
0163 100	34 x 1,5	18.1	489.6	646
0163 101	37 x 1,5	18.1	532.8	672
0163 102	40 x 1,5	19.0	576.0	735
0163 103	48 x 1,5	20.9	691.2	867
0163 104	50 x 1,5	21.5	720.0	915
0163 105	60 x 1,5	23.0	864.0	1079
0163 094	2 x 2,5	6.7	48.0	82
0163 106	3 x 2,5	7.1	72.0	104
0163 010	4 x 2,5	7.8	96.0	130
0163 107	5 x 2,5	8.6	120.0	162
0163 108	6 x 2,5	9.8	144.0	202
0163 109	7 x 2,5	9.8	168.0	216
0163 110	8 x 2,5	10.7	192.0	251
0163 111	10 x 2,5	12.7	240.0	313
0163 112	12 x 2,5	13.2	288.0	361
0163 113	14 x 2,5	13.9	336.0	412
0163 114	16 x 2,5	14.8	384.0	474
0163 115	18 x 2,5	15.7	432.0	532

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
0163 116	19 x 2,5	15.7	456.0	546
0163 117	21 x 2,5	16.5	504.0	605
0163 118	25 x 2,5	19.0	600.0	739
0163 119	27 x 2,5	19.0	648.0	766
0163 120	30 x 2,5	19.7	720.0	841
0163 121	34 x 2,5	21.3	816.0	976
0163 122	37 x 2, 5	21.3	888.0	1018
0163 123	40 x 2,5	22.1	960.0	1102
0163 124	44 x 2,5	24.2	1056.0	1218
0163 125	50 x 2,5	25.3	1200.0	1386
0163 126	60 x 2,5	26.9	1440.0	1625
0163 127	2 x 4,0	8.1	76.8	123
0163 128	3 x 4,0	8.6	115.2	157
0163 129	4 x 4,0	9.9	153.6	205
0163 130	5 x 4,0	10.9	192.0	255
0163 131	7 x 4,0	12.1	268.8	333
0163 132	3 x 6,0	10.4	172.8	235
0163 133	4 x 6,0	11.5	230.4	296
0163 134	5 x 6,0	12.8	288.0	374
0163 135	7 x 6,0	14.3	403.2	491
0163 136	3 x 10,0	13.2	288.0	396
0163 137	4 x 10,0	14.8	384.0	507
0163 138	5 x 10,0	16.3	480.0	632
0163 139	7 x 10,0	17.9	672.0	824
0163 140	3 x 16,0	15.8	460.8	603
0163 141	4 x 16,0	17.4	614.4	763
0163 142	5 x 16,0	19.4	768.0	961
0163 143	7 x 16,0	21.3	1075.2	1260
0163 144	3 x 25,0	18.5	720.0	872
0163 145	4 x 25,0	20.5	960.0	1110
0163 146	5 x 25,0	22.8	1200.0	1396
0163 147	3 x 35,0	21.8	1008.0	1213
0163 148	4 x 35,0	24.4	1344.0	1557
0163 149	5 x 35,0	27.0	1680.0	1950
0163 150	3 x 50,0	27.4	1440.0	1806
0163 151	4 x 50,0	30.4	1920.0	2296
0163 152	5 x 50,0	33.9	2400.0	2896

Other cross-sections and conductor counts available on request.

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