

TECHNOFLEKS LiYY-Nr 0,6/1 kV
TECHNOFLEKS LiYYżo-Nr 0,6/1 kV

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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-Nr 0,6/1 kV and **TECHNOFLEKS LiYYżo-Nr 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,
- black PVC insulation and white conductor numbers printed on it for identification, additional green-yellow protective conductor in **TECHNOFLEKS LiYYżo-Nr 0,6/1 kV** cable,
- insulated conductors laid-up in layers in to cable core, green-yellow protective conductor located in the outer layer in **TECHNOFLEKS LiYYżo-Nr 0,6/1 kV** cable,
- PVC cable sheath, grey RAL 7001, other colours also available.

AVAILABLE UPON REQUEST

TECHNOFLEKS LiYY-Nr-O 0,6/1 kV and **TECHNOFLEKS LiYYżo-Nr-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-Nr 0,6/1 kV and **TECHNOFLEKS LiY11Yżo-Nr 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-Nr 0,6/1 kV and **TECHNOFLEKS LiHHżo-Nr 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-Nr 0,6/1 kV and **TECHNOFLEKS LiYYvżo-Nr 0,6/1 kV** - cables with enhanced PVC sheath, suitable for outdoor installation and direct earth burial.

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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	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
0165 026	2 x 0,5	6.0	9.6	48
0165 034	3 x 0,5	6.3	14.4	56
0165 035	4 x 0,5	6.8	19.2	66
0165 016	5 x 0,5	7.5	24.0	82
0165 036	6 x 0,5	8.1	28.8	96
0165 037	7 x 0,5	8.1	33.6	99
0165 038	8 x 0,5	8.7	38.4	114
0165 039	10 x 0,5	10.4	48.0	143
0165 040	12 x 0,5	10.7	57.6	161
0165 041	14 x 0,5	11.3	67.2	181
0165 042	16 x 0,5	11.9	76.8	204
0165 043	18 x 0,5	12.8	86.4	234
0165 044	19 x 0,5	12.8	91.2	237
0165 045	21 x 0,5	13.4	100.8	261
0165 046	24 x 0,5	15.1	115.2	302
0165 047	27 x 0,5	15.4	129.6	329
0165 048	30 x 0,5	16.0	144.0	358
0165 049	36 x 0,5	17.2	172.8	423
0165 050	37 x 0,5	17.2	177.6	426
0165 051	44 x 0,5	19.7	211.2	520
0165 052	48 x 0,5	20.1	230.4	557
0165 053	52 x 0,5	20.6	249.6	594
0165 054	56 x 0,5	21.2	268.8	636
0165 055	60 x 0,5	21.9	288.0	679
0165 056	2 x 0,75	6.3	14.4	56
0165 001	3 x 0,75	6.7	21.6	66
0165 002	4 x 0,75	7.3	28.8	80
0165 057	5 x 0,75	7.9	36.0	97
0165 058	6 x 0,75	8.6	43.2	115
0165 014	7 x 0,75	8.6	50.4	119
0165 027	8 x 0,75	9.3	57.6	138
0165 059	10 x 0,75	11.1	72.0	173
0165 060	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
0165 061	14 x 0,75	12.3	100.8	226
0165 062	16 x 0,75	13.0	115.2	256
0165 063	18 x 0,75	13.7	129.6	286
0165 064	19 x 0,75	13.7	136.8	290
0165 065	21 x 0,75	14.6	151.2	327
0165 066	24 x 0,75	16.2	172.8	370
0165 067	27 x 0,75	16.5	194.4	403
0165 068	30 x 0,75	17.1	216.0	440
0165 069	36 x 0,75	18.9	259.2	539
0165 070	37 x 0,75	18.9	266.4	543
0165 071	44 x 0,75	21.2	316.8	641
0165 072	48 x 0,75	21.5	345.6	686
0165 073	52 x 0,75	22.1	374.4	734
0165 074	56 x 0,75	23.2	403.2	807
0165 075	60 x 0,75	23.9	432.0	861
0165 076	2 x 1,0	6.7	19.2	65
0165 022	3 x 1,0	7.1	28.8	78
0165 012	4 x 1,0	7.7	38.4	93
0165 020	5 x 1,0	8.4	48.0	114
0165 077	6 x 1,0	9.2	57.6	136
0165 015	7 x 1,0	9.2	67.2	142
0165 078	8 x 1,0	10.1	76.8	169
0165 028	10 x 1,0	11.9	96.0	207
0165 009	12 x 1,0	12.4	115.2	239
0165 024	14 x 1,0	13.1	134.4	270
0165 079	16 x 1,0	13.8	153.6	306
0165 029	18 x 1,0	14.8	172.8	349
0165 080	19 x 1,0	14.8	182.4	355
0165 081	21 x 1,0	15.5	201.6	391
0165 018	24 x 1,0	17.2	230.4	444
0165 082	27 x 1,0	17.6	259.2	486
0165 030	30 x 1,0	18.3	288.0	531
0165 083	36 x 1,0	20.1	345.6	648

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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
0165 084	37 x 1,0	20.1	355.2	654
0165 085	44 x 1,0	22.6	422.4	774
0165 086	48 x 1,0	23.4	460.8	850
0165 087	52 x 1,0	24.1	499.2	911
0165 088	56 x 1,0	24.8	537.6	976
0165 089	60 x 1,0	25.5	576.0	1041
0165 003	2 x 1,5	7.2	28.8	79
0165 004	3 x 1,5	7.6	43.2	96
0165 005	4 x 1,5	8.4	57.6	118
0165 006	5 x 1,5	9.2	72.0	146
0165 090	6 x 1,5	10.2	86.4	177
0165 007	7 x 1,5	10.2	100.8	186
0165 091	8 x 1,5	11.0	115.2	215
0165 023	10 x 1,5	13.1	144.0	269
0165 008	12 x 1,5	13.6	172.8	307
0165 019	14 x 1,5	14.5	201.6	354
0165 017	16 x 1,5	15.3	230.4	401
0165 092	18 x 1,5	16.1	259.2	448
0165 093	19 x 1,5	16.1	273.6	457
0165 094	21 x 1,5	16.9	302.4	505
0165 095	24 x 1,5	19.3	345.6	591
0165 096	27 x 1,5	19.7	388.8	647
0165 097	30 x 1,5	20.4	432.0	708
0165 098	36 x 1,5	22.0	518.4	841
0165 099	37 x 1,5	22.0	532.8	849
0165 100	44 x 1,5	25.2	633.6	1029
0165 101	48 x 1,5	25.6	691.2	1104
0165 102	52 x 1,5	26.3	748.8	1184
0165 103	56 x 1,5	27.1	806.4	1270
0165 104	60 x 1,5	27.9	864.0	1356
0165 013	2 x 2,5	8.1	48.0	105
0165 010	3 x 2,5	8.6	72.0	130
0165 105	4 x 2,5	9.4	96.0	159
0165 106	5 x 2,5	10.5	120.0	202
0165 107	6 x 2,5	11.5	144.0	241
0165 108	7 x 2,5	11.5	168.0	255
0165 109	8 x 2,5	12.6	192.0	301
0165 110	10 x 2,5	15.1	240.0	377
0165 111	12 x 2,5	15.6	288.0	430
0165 112	14 x 2,5	16.4	336.0	488
0165 113	16 x 2,5	17.3	384.0	554
0165 114	18 x 2,5	18.3	432.0	621
0165 115	19 x 2,5	18.3	456.0	635
0165 116	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
0165 117	24 x 2,5	21.8	576.0	818
0165 118	27 x 2,5	22.3	648.0	899
0165 119	30 x 2,5	23.6	720.0	1007
0165 120	36 x 2,5	25.4	864.0	1196
0165 121	37 x 2,5	25.4	888.0	1210
0165 122	44 x 2,5	28.6	1056.0	1435
0165 123	48 x 2,5	29.1	1152.0	1544
0165 124	52 x 2,5	29.9	1248.0	1658
0165 125	56 x 2,5	30.9	1344.0	1781
0165 126	60 x 2,5	32.0	1440.0	1917
0165 031	2 x 4,0	9.5	76.8	152
0165 021	3 x 4,0	10.3	115.2	195
0165 127	4 x 4,0	11.3	153.6	241
0165 128	5 x 4,0	12.6	192.0	304
0165 129	7 x 4,0	13.7	268.8	386
0165 032	3 x 6,0	11.5	172.8	262
0165 130	4 x 6,0	12.8	230.4	332
0165 131	5 x 6,0	14.1	288.0	413
0165 132	7 x 6,0	15.7	403.2	538
0165 133	3 x 10,0	14.5	288.0	437
0165 134	4 x 10,0	15.9	384.0	546
0165 135	5 x 10,0	17.6	480.0	682
0165 136	7 x 10,0	19.7	672.0	899
0165 137	3 x 16,0	16.8	460.8	640
0165 138	4 x 16,0	19.0	614.4	826
0165 139	5 x 16,0	20.9	768.0	1029
0165 140	7 x 16,0	23.3	1075.2	1359
0165 141	3 x 25,0	20.6	720.0	965
0165 033	4 x 25,0	23.2	960.0	1241
0165 142	5 x 25,0	25.6	1200.0	1549
0165 143	3 x 35,0	23.5	1008.0	1298
0165 144	4 x 35,0	25.9	1344.0	1641
0165 145	5 x 35,0	28.7	1680.0	2056
0165 146	3 x 50,0	28.8	1440.0	1895
0165 147	4 x 50,0	32.1	1920.0	2414
0165 148	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.