

TECHNOFLEKS LiYCY-Nr 300/500 V
TECHNOFLEKS LiYCYżo-Nr 300/500 V**CONTROL AND POWER SUPPLY FLEXIBLE CABLES****APPLICATIONS**

TECHNOFLEKS LiYCY-Nr 300/500 V and **TECHNOFLEKS LiYCYżo-Nr 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,
- black PVC insulation and white conductor numbers printed on it for identification, additional green-yellow protective conductor in **TECHNOFLEKS LiYCYżo-Nr 300/500 V** cable,
- insulated conductors laid-up in layers, green-yellow protective conductor located in the outer layer in **TECHNOFLEKS LiYCYżo-Nr 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-Nr-O 300/500 V and **TECHNOFLEKS LiYCYżo-Nr-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 LiYCY11Y-Nr 300/500 V and **TECHNOFLEKS LiYCY11Yżo-Nr 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-Nr 300/500 V and **TECHNOFLEKS LiHCHżo-Nr 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-Nr 300/500 V and **TECHNOFLEKS LiYCYvżo-Nr 300/500 V** - cables with enhanced PVC sheath, suitable for outdoor installation and direct earth burial.

TECHNOFLEKS LiYCY-Nr 300/500 V

TECHNOFLEKS LiYCYżo-Nr 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 U _{o/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
0125 086	1 x 0,5	3.5	8.8	21
0125 014	2 x 0,5	5.1	17.6	37
0125 087	3 x 0,5	5.4	22.5	44
0125 032	4 x 0,5	5.8	28.9	53
0125 088	5 x 0,5	6.3	33.7	63
0125 021	6 x 0,5	6.8	39.4	74
0125 071	7 x 0,5	6.8	44.2	76
0125 045	8 x 0,5	7.3	50.0	88
0125 030	10 x 0,5	8.5	65.9	108
0125 033	12 x 0,5	8.8	76.6	123
0125 053	14 x 0,5	9.2	87.0	138
0125 020	16 x 0,5	10.1	98.5	165
0125 034	18 x 0,5	10.6	108.7	183
0125 089	19 x 0,5	10.6	113.5	185
0125 054	21 x 0,5	11.1	124.4	204
0125 019	24 x 0,5	12.4	141.7	234
0125 090	25 x 0,5	12.7	147.2	250
0125 046	27 x 0,5	12.7	156.8	255
0125 047	30 x 0,5	13.1	172.3	277
0125 091	34 x 0,5	14.3	194.1	327
0125 049	36 x 0,5	14.3	203.7	332
0125 092	37 x 0,5	14.3	208.5	335
0125 050	40 x 0,5	14.8	224.1	360
0125 093	41 x 0,5	15.4	237.1	388
0125 094	1 x 0,75	3.6	12.0	24
0125 012	2 x 0,75	5.5	22.5	43
0125 051	3 x 0,75	5.7	30.0	52
0125 058	4 x 0,75	6.2	38.5	63
0125 057	5 x 0,75	6.7	46.4	76
0125 037	6 x 0,75	7.3	54.8	91
0125 037	7 x 0,75	7.3	62.0	95
0125 095	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
0125 072	10 x 0,75	9.2	91.8	135
0125 026	12 x 0,75	9.9	106.9	163
0125 073	14 x 0,75	10.4	122.6	184
0125 018	16 x 0,75	10.9	138.3	206
0125 027	18 x 0,75	11.5	154.2	229
0125 074	19 x 0,75	11.5	161.4	233
0125 075	21 x 0,75	12.2	177.1	263
0125 076	24 x 0,75	13.5	202.1	295
0125 028	25 x 0,75	13.8	210.1	315
0125 096	27 x 0,75	13.8	224.5	323
0125 077	30 x 0,75	14.4	247.1	358
0125 078	34 x 0,75	15.6	285.7	421
0125 097	1 x 1,0	3.8	14.4	27
0125 003	2 x 1,0	5.8	28.9	50
0125 013	3 x 1,0	6.1	38.5	62
0125 004	4 x 1,0	6.7	48.8	76
0125 024	5 x 1,0	7.2	59.4	93
0125 022	6 x 1,0	7.9	74.0	113
0125 025	7 x 1,0	7.9	83.6	119
0125 067	8 x 1,0	8.5	94.7	137
0125 005	10 x 1,0	10.3	117.7	174
0125 029	12 x 1,0	10.7	137.8	199
0125 035	14 x 1,0	11.2	158.8	224
0125 006	16 x 1,0	11.7	178.8	252
0125 068	18 x 1,0	12.6	199.9	288
0125 036	19 x 1,0	12.6	209.5	293
0125 042	21 x 1,0	13.2	230.1	324
0125 061	24 x 1,0	14.8	262.5	371
0125 007	25 x 1,0	15.2	279.6	402
0125 052	27 x 1,0	15.2	298.8	413
0125 040	30 x 1,0	15.7	329.2	449

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

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
0125 098	1 x 1,5	4.1	19.8	33
0125 008	2 x 1,5	6.4	38.6	61
0125 009	3 x 1,5	6.7	53.6	78
0125 010	4 x 1,5	7.3	69.2	97
0125 038	5 x 1,5	8.1	88.9	124
0125 056	6 x 1,5	8.7	105.4	147
0125 001	7 x 1,5	8.7	119.8	155
0125 079	8 x 1,5	9.8	135.4	189
0125 043	10 x 1,5	11.4	168.4	226
0125 011	12 x 1,5	12.0	198.2	266
0125 055	14 x 1,5	12.6	228.7	301
0125 063	16 x 1,5	13.2	258.9	340
0125 099	18 x 1,5	13.9	289.5	379
0125 023	19 x 1,5	13.9	303.9	388
0125 100	21 x 1,5	14.8	334.5	436
0125 060	24 x 1,5	16.5	389.3	498
0125 101	25 x 1,5	16.8	404.6	529
0125 102	1 x 2,5	4.5	30.4	44
0125 015	2 x 2,5	7.2	59.4	83
0125 044	3 x 2,5	7.6	84.2	109
0125 031	4 x 2,5	8.4	113.7	141
0125 080	5 x 2,5	9.2	139.8	175
0125 103	6 x 2,5	10.4	165.8	219
0125 104	7 x 2,5	10.4	189.8	233
0125 105	8 x 2,5	11.3	216.4	270
0125 069	10 x 2,5	13.3	268.8	330
0125 106	12 x 2,5	13.8	318.1	381
0125 081	14 x 2,5	14.7	367.9	442
0125 070	16 x 2,5	15.5	424.6	507
0125 082	18 x 2,5	16.4	475.4	567
0125 107	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
0125 083	3 x 4,0	9.2	135.0	163
0125 084	4 x 4,0	10.5	175.7	216
0125 108	5 x 4,0	11.5	216.6	268
0125 109	7 x 4,0	12.7	296.0	350
0125 110	3 x 6,0	11.0	196.2	240
0125 111	4 x 6,0	12.3	256.6	310
0125 112	5 x 6,0	13.4	317.0	386
0125 113	7 x 6,0	14.9	435.6	507
0125 114	3 x 10,0	13.8	318.1	392
0125 085	4 x 10,0	15.5	424.6	516
0125 115	5 x 10,0	17.0	525.2	645
0125 116	7 x 10,0	18.8	722.2	850
0125 117	3 x 16,0	16.5	504.5	593
0125 118	4 x 16,0	18.1	663.0	761
0125 119	5 x 16,0	20.1	822.2	967
0125 120	7 x 16,0	22.0	1135.3	1270
0125 121	3 x 25,0	19.2	771.4	846
0125 122	4 x 25,0	21.2	1017.6	1093
0125 123	5 x 25,0	23.7	1287.3	1411
0125 124	3 x 35,0	22.9	1091.9	1191
0125 125	4 x 35,0	25.3	1438.0	1536
0125 126	5 x 35,0	28.1	1812.9	1964
0125 127	3 x 50,0	28.5	1575.0	1737
0125 128	4 x 50,0	31.7	2070.9	2265
0125 129	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.