

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

TECHNOFLEKS LiYCY-P 300/500 V and **TECHNOFLEKS LiYCY-P-Nr 300/500 V** are multipair flexible, overall shielded cables designed for control, protection and monitoring systems or power supply, all in power engineering.

Paired structure decreases mutual influence between signals transmitted along the cable.

The overall shield protects the cables against external electromagnetic interferences and prevents emission of interferences produced in the cables.

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 DIN VDE 47100 in **TECHNOFLEKS LiYCY-P 300/500 V**, black and brown PVC insulation and white pair numbers printed on it for identification in **TECHNOFLEKS LiYCY-P-Nr 300/500 V**,
- insulated conductors twisted into pairs,
- pairs laid-up in layers,
- 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 LiYCEY-P 300/500 V and **TECHNOFLEKS LiYCEY-P-Nr 300/500 V** - cables with flexible drain wire stranded of tin-plated annealed copper wires, laid under a shield.

TECHNOFLEKS LiYCY-P-O 300/500 V and **TECHNOFLEKS LiYCY-P-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 LiYC11Y-P 300/500 V and **TECHNOFLEKS LiYC11Y-P-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 LiYCYv-P 300/500 V and **TECHNOFLEKS LiYCYv-P-Nr 300/500 V** - cables with enhanced PVC sheath, suitable for outdoor installation and direct earth burial.

TECHNOFLEKS LIYCY-P 300/500 V **TECHNOFLEKS LIYCY-P-Nr 300/500 V**

CHARACTERISTICS

Conductor cross-section	mm ²	0.5	0.75	1.0	1.5	2.5
DC loop resistance at 20°C, maximum	Ω/km	78.0	52.0	39.0	26.6	16.0

Operating voltage U ₀ /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 pairs (x 2) x conductor cross-section	Cable outer diameter (appr.)	Copper index	Cable weight (appr.)
	mm ²	mm	kg/km	kg/km
0131 004	2 x 2 x 0,5	7.4	31.0	66
0131 019	3 x 2 x 0,5	7.9	45.2	80
0131 007	4 x 2 x 0,5	8.7	57.4	98
0131 005	5 x 2 x 0,5	9.9	68.5	125
0131 027	6 x 2 x 0,5	10.7	80.2	143
0131 028	7 x 2 x 0,5	10.7	89.8	156
0131 008	8 x 2 x 0,5	11.4	101.2	173
0131 009	10 x 2 x 0,5	13.1	124.3	216
0131 010	12 x 2 x 0,5	13.6	144.8	244
0131 029	14 x 2 x 0,5	14.7	166.3	284
0131 011	16 x 2 x 0,5	15.7	194.8	323
0131 030	18 x 2 x 0,5	16.4	216.2	354
0131 012	20 x 2 x 0,5	17.2	237.9	386
0131 013	24 x 2 x 0,5	18.8	280.6	458
0131 031	25 x 2 x 0,5	19.1	291.1	473
0131 032	30 x 2 x 0,5	20.6	343.8	549
0131 018	2 x 2 x 0,75	8.1	45.7	87
0131 006	3 x 2 x 0,75	8.6	62.2	99
0131 023	4 x 2 x 0,75	9.8	77.8	130
0131 026	5 x 2 x 0,75	10.7	94.6	153
0131 021	6 x 2 x 0,75	11.6	111.3	177
0131 033	7 x 2 x 0,75	11.6	125.7	194
0131 034	8 x 2 x 0,75	12.6	142.3	223
0131 022	10 x 2 x 0,75	14.4	175.1	276
0131 035	12 x 2 x 0,75	15.2	212.4	322
0131 036	14 x 2 x 0,75	16.2	244.4	365
0131 037	16 x 2 x 0,75	17.1	275.9	407
0131 038	18 x 2 x 0,75	17.9	307.2	447
0131 039	20 x 2 x 0,75	19.0	338.8	499
0131 002	2 x 2 x 1,0	8.7	57.4	101
0131 020	3 x 2 x 1,0	9.2	77.4	117
0131 014	4 x 2 x 1,0	10.5	98.9	155
0131 024	5 x 2 x 1,0	11.5	120.6	184

Product No.	Number of pairs (x 2) x conductor cross-section	Cable outer diameter (appr.)	Copper index	Cable weight (appr.)
	mm ²	mm	kg/km	kg/km
0131 025	6 x 2 x 1,0	12.8	142.7	220
0131 017	7 x 2 x 1,0	12.8	161.9	243
0131 015	8 x 2 x 1,0	13.6	183.2	271
0131 040	10 x 2 x 1,0	15.7	233.2	344
0131 041	12 x 2 x 1,0	16.4	273.8	393
0131 042	14 x 2 x 1,0	17.5	315.6	446
0131 016	16 x 2 x 1,0	18.7	357.1	508
0131 043	18 x 2 x 1,0	19.6	398.3	561
0131 044	20 x 2 x 1,0	20.5	439.4	613
0131 045	2 x 2 x 1,5	10.1	79.3	135
0131 046	3 x 2 x 1,5	10.6	108.7	161
0131 001	4 x 2 x 1,5	11.6	140.1	199
0131 047	5 x 2 x 1,5	13.0	172.0	245
0131 048	6 x 2 x 1,5	14.3	203.7	292
0131 049	7 x 2 x 1,5	14.3	232.5	323
0131 050	8 x 2 x 1,5	15.3	270.4	369
0131 051	10 x 2 x 1,5	17.4	334.4	449
0131 052	12 x 2 x 1,5	18.4	394.5	526
0131 053	14 x 2 x 1,5	19.6	455.9	599
0131 054	16 x 2 x 1,5	20.8	517.2	673
0131 055	18 x 2 x 1,5	21.9	578.2	745
0131 056	20 x 2 x 1,5	23.3	661.6	850
0131 057	2 x 2 x 2,5	11.5	120.6	184
0131 058	3 x 2 x 2,5	12.4	170.5	232
0131 059	4 x 2 x 2,5	13.6	221.6	289
0131 060	5 x 2 x 2,5	15.3	280.0	363
0131 061	6 x 2 x 2,5	16.6	331.9	422
0131 062	7 x 2 x 2,5	16.6	379.9	471
0131 063	8 x 2 x 2,5	17.7	431.4	529
0131 064	10 x 2 x 2,5	20.3	534.9	658
0131 065	12 x 2 x 2,5	21.3	633.9	762

Other cross-sections and pair counts available on request.

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