

TECHNOFLEKS LiY11Y-Nr 300/500 V
TECHNOFLEKS LiY11Yżo-Nr 300/500 V**CONTROL AND POWER SUPPLY FLEXIBLE CABLES****APPLICATIONS**

TECHNOFLEKS LiY11Y-Nr 300/500 V and **TECHNOFLEKS LiY11Yżo-Nr 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.

Polyurethane sheath offers enhanced protection against mechanical damage, particularly to abrasion and tear, also resistant to oils, petrol, bacteria and ultraviolet radiation.

The cables are designed to offer high flexibility combined with tensile strength.

Cables are dedicated to work in heavy duty conditions.

The cables are suitable for indoor and outdoor installations connecting fixed and movable equipment.

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 LiY11Yżo-Nr 300/500 V** cable,
- insulated conductors laid-up in layers, green-yellow protective conductor located in the outer layer in **TECHNOFLEKS LiY11Yżo-Nr 300/500 V** cable,
- polyurethane cable sheath, grey RAL 7001, other colours also available.

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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	300/500 V	Operating temperature range	
Voltage test	3.0 kV rms	for fixed installation	from - 40 to + 80°C
Insulation resistance, minimum	20 MΩ·km	for movable installation	from - 15 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	+ 150°C	Combustibility tests	PN-EN 60332-1-2, IEC 60332-1-2

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
1162 002	2x0,5	5.0	9.6	35
1162 007	3x0,5	5.3	14.4	42
1162 008	4x0,5	5.7	19.2	50
1162 009	5x0,5	6.2	24.0	60
1162 005	6x0,5	6.7	28.8	70
1162 010	7x0,5	6.7	33.6	73
1162 011	8x0,5	7.2	38.4	84
1162 012	10x0,5	8.3	48.0	101
1162 013	12x0,5	8.6	57.6	114
1162 014	14x0,5	9.0	67.2	128
1162 015	16x0,5	9.5	76.8	145
1162 016	18x0,5	10.4	86.4	170
1162 017	19x0,5	10.4	91.2	173
1162 018	21x0,5	10.9	100.8	191
1162 019	24x0,5	12.0	115.2	215
1162 020	25x0,5	12.3	120.0	230
1162 021	27x0,5	12.3	129.6	235
1162 022	30x0,5	12.7	144.0	255
1162 023	34x0,5	13.7	163.2	297
1162 024	37x0,5	13.7	177.6	304
1162 025	40x0,5	14.4	192.0	335
1162 026	44x0,5	15.5	211.2	365
1162 027	48x0,5	15.8	230.4	391
1162 028	50x0,5	16.2	240.0	413
1162 029	56x0,5	16.7	268.8	448
1162 030	60x0,5	17.2	288.0	478
1162 006	2x0,75	5.4	14.4	43
1162 001	3x0,75	5.6	21.6	50
1162 031	4x0,75	6.1	28.8	61
1162 032	5x0,75	6.6	36.0	74
1162 033	6x0,75	7.2	43.2	88
1162 034	7x0,75	7.2	50.4	92
1162 035	8x0,75	7.7	57.6	105

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
1162 036	10x0,75	9.0	72.0	129
1162 037	12x0,75	9.3	86.4	146
1162 038	14x0,75	10.2	100.8	174
1162 039	16x0,75	10.7	115.2	196
1162 040	18x0,75	11.3	129.6	219
1162 041	19x0,75	11.3	136.8	223
1162 042	21x0,75	11.8	151.2	245
1162 043	24x0,75	13.1	172.8	278
1162 044	25x0,75	13.4	180.0	296
1162 045	27x0,75	13.4	194.4	304
1162 046	30x0,75	13.8	216.0	331
1162 047	34x0,75	15.1	244.8	391
1162 048	37x0,75	15.1	266.4	403
1162 049	40x0,75	15.7	288.0	436
1162 050	44x0,75	16.9	316.8	476
1162 051	48x0,75	17.2	345.6	511
1162 052	50x0,75	17.7	360.0	540
1162 053	56x0,75	18.2	403.2	587
1162 054	60x0,75	19.2	432.0	644
1162 003	2x1	5.7	19.2	50
1162 055	3x1	6.0	28.8	61
1162 056	4x1	6.6	38.4	74
1162 057	5x1	7.1	48.0	90
1162 058	6x1	7.7	57.6	107
1162 059	7x1	7.7	67.2	112
1162 060	8x1	8.3	76.8	130
1162 061	10x1	9.7	96.0	158
1162 062	12x1	10.5	115.2	190
1162 063	14x1	11.0	134.4	214
1162 064	16x1	11.5	153.6	242
1162 065	18x1	12.2	172.8	271
1162 066	19x1	12.2	182.4	276
1162 067	21x1	12.8	201.6	305

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Product No.	Number of conductors x conductor cross-section	Cable outer diameter (appr.)	Copper index	Cable weight (appr.)
	mm ²			
1162 068	24x1	14.4	230.4	352
1162 069	27x1	14.7	259.2	385
1162 070	30x1	15.2	288.0	421
1162 071	34x1	16.4	326.4	489
1162 072	37x1	16.4	355.2	505
1162 073	40x1	17.0	384.0	545
1162 074	44x1	18.8	422.4	613
1162 075	48x1	19.1	460.8	658
1162 076	50x1	19.6	480.0	695
1162 077	60x1	20.8	576.0	807
1162 078	2x1,5	6.3	28.8	64
1162 079	3x1,5	6.6	43.2	78
1162 080	4x1,5	7.2	57.6	96
1162 081	5x1,5	7.9	72.0	118
1162 082	6x1,5	8.5	86.4	139
1162 083	7x1,5	8.5	100.8	147
1162 084	8x1,5	9.2	115.2	171
1162 085	10x1,5	11.2	144.0	219
1162 086	12x1,5	11.6	172.8	250
1162 087	14x1,5	12.2	201.6	284
1162 088	16x1,5	12.8	230.4	321
1162 089	18x1,5	13.5	259.2	359
1162 090	19x1,5	13.5	273.6	368
1162 091	21x1,5	14.4	302.4	413
1162 092	24x1,5	16.0	345.6	469
1162 093	27x1,5	16.3	388.8	515
1162 094	30x1,5	16.9	432.0	564
1162 095	34x1,5	18.3	489.6	654
1162 096	37x1,5	18.3	532.8	680
1162 097	40x1,5	19.4	576.0	752
1162 098	48x1,5	21.3	691.2	886
1162 099	50x1,5	21.9	720.0	934
1162 100	60x1,5	23.6	864.0	1109
1162 004	2x2,5	7.1	48.0	88
1162 101	3x2,5	7.5	72.0	110
1162 102	4x2,5	8.2	96.0	137
1162 103	5x2,5	9.0	120.0	169
1162 104	6x2,5	10.2	144.0	211
1162 105	7x2,5	10.2	168.0	225
1162 106	8x2,5	11.1	192.0	261
1162 107	10x2,5	12.9	240.0	318
1162 108	12x2,5	13.4	288.0	367
1162 109	14x2,5	14.1	336.0	418
1162 110	16x2,5	15.0	384.0	480
1162 111	18x2,5	15.9	432.0	539

Product No.	Number of conductors x conductor cross-section	Cable outer diameter (appr.)	Copper index	Cable weight (appr.)
	mm ²			
1162 112	19x2,5	15.9	456.0	553
1162 113	21x2,5	16.7	504.0	612
1162 114	25x2,5	19.4	600.0	755
1162 115	27x2,5	19.4	648.0	783
1162 116	30x2,5	20.1	720.0	859
1162 117	34x2,5	21.7	816.0	995
1162 118	37x2,5	21.7	888.0	1036
1162 119	40x2,5	22.5	960.0	1121
1162 120	44x2,5	24.8	1056.0	1250
1162 121	50x2,5	25.9	1200.0	1419
1162 122	60x2,5	27.5	1440.0	1660
1162 123	2x4	8.5	76.8	130
1162 124	3x4	9.0	115.2	164
1162 125	4x4	10.3	153.6	214
1162 126	5x4	11.3	192.0	264
1162 127	7x4	12.3	268.8	338
1162 128	3x6	10.8	172.8	244
1162 129	4x6	11.9	230.4	306
1162 130	5x6	13.0	288.0	379
1162 131	7x6	14.5	403.2	497
1162 132	3x10	13.4	288.0	402
1162 133	4x10	15.0	384.0	514
1162 134	5x10	16.5	480.0	639
1162 135	7x10	18.1	672.0	832
1162 136	3x16	16.0	460.8	610
1162 137	4x16	17.6	614.4	770
1162 138	5x16	19.8	768.0	978
1162 139	7x16	21.7	1075.2	1279
1162 140	3x25	18.9	720.0	888
1162 141	4x25	20.9	960.0	1128
1162 142	5x25	23.4	1200.0	1426
1162 143	3x35	22.2	1008.0	1232
1162 144	4x35	25.0	1344.0	1589
1162 145	5x35	27.6	1680.0	1985
1162 146	3x50	28.0	1440.0	1842
1162 147	4x50	31.0	1920.0	2336
1162 148	5x50	34.7	2400.0	2955

Other cross-sections and conductor counts available on request.

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