

TECHNOFLEKS LiYYu-Nr 300/500 V
TECHNOFLEKS LiYYużo-Nr 300/500 V**CONTROL AND POWER SUPPLY FLEXIBLE CABLES****APPLICATIONS**

TECHNOFLEKS LiYYu-Nr 300/500 V and **TECHNOFLEKS LiYYużo-Nr 300/500 V** are flexible, flame retardant 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 cable sheath is then made of special self-extinguishing PVC of high oxygen index and pass combustibility test according to PN-EN 60332-3 standard.

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

AVAILABLE UPON REQUEST

TECHNOFLEKS LiYYu-Nr-O 300/500 V and **TECHNOFLEKS LiYYużo-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 LiY11Y-Nr 300/500 V and **TECHNOFLEKS LiY11Yżo-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 LiHH-Nr 300/500 V and **TECHNOFLEKS LiHHżo-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 LiYYu-Nr 300/500 V **TECHNOFLEKS LiYYužo-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 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	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 PN-EN 60332-3-24, IEC 60332-3-24 (cat. C)
		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
1708 001	2 x 0,5	4.6	9.6	31
1708 002	3 x 0,5	4.9	14.4	37
1708 003	4 x 0,5	5.3	19.2	45
1708 004	5 x 0,5	5.8	24.0	55
1708 005	6 x 0,5	6.3	28.8	65
1708 006	7 x 0,5	6.3	33.6	67
1708 007	8 x 0,5	6.8	38.4	78
1708 008	10 x 0,5	7.9	48.0	94
1708 009	12 x 0,5	8.2	57.6	107
1708 010	14 x 0,5	8.6	67.2	121
1708 011	16 x 0,5	9.1	76.8	137
1708 012	18 x 0,5	10.0	86.4	162
1708 013	19 x 0,5	10.0	91.2	164
1708 014	21 x 0,5	10.5	100.8	181
1708 015	24 x 0,5	11.6	115.2	205
1708 016	25 x 0,5	12.1	120.0	224
1708 017	27 x 0,5	12.1	129.6	229
1708 018	30 x 0,5	12.5	144.0	250
1708 019	33 x 0,5	13.0	158.4	273
1708 020	34 x 0,5	13.5	163.2	291
1708 021	37 x 0,5	13.5	177.6	298
1708 022	40 x 0,5	14.2	192.0	328
1708 023	44 x 0,5	15.3	211.2	359
1708 024	48 x 0,5	15.6	230.4	385
1708 025	50 x 0,5	16.0	240.0	406
1708 026	56 x 0,5	16.5	268.8	441
1708 027	60 x 0,5	17.0	288.0	470
1708 028	2 x 0,75	5.0	14.4	38
1708 029	3 x 0,75	5.2	21.6	45
1708 030	4 x 0,75	5.7	28.8	56
1708 031	5 x 0,75	6.2	36.0	68
1708 032	6 x 0,75	6.8	43.2	81

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
1708 033	7 x 0,75	6.8	50.4	85
1708 034	8 x 0,75	7.3	57.6	98
1708 035	10 x 0,75	8.6	72.0	120
1708 036	12 x 0,75	8.9	86.4	137
1708 037	14 x 0,75	9.8	100.8	164
1708 038	16 x 0,75	10.3	115.2	185
1708 039	18 x 0,75	10.9	129.6	207
1708 040	19 x 0,75	10.9	136.8	211
1708 041	21 x 0,75	11.4	151.2	233
1708 042	24 x 0,75	12.9	172.8	270
1708 043	25 x 0,75	13.2	180	288
1708 044	27 x 0,75	13.2	194.4	296
1708 045	30 x 0,75	13.6	216.0	323
1708 046	34 x 0,75	14.9	244.8	382
1708 047	37 x 0,75	14.9	266.4	393
1708 048	40 x 0,75	15.5	288.0	425
1708 049	44 x 0,75	16.7	316.8	465
1708 050	48 x 0,75	17.0	345.6	500
1708 051	50 x 0,75	17.5	360.0	528
1708 052	56 x 0,75	18.0	403.2	574
1708 053	60 x 0,75	18.8	432.0	622
1708 054	2 x 1,0	5.3	19.2	45
1708 055	3 x 1,0	5.6	28.8	55
1708 056	4 x 1,0	6.2	38.4	68
1708 057	5 x 1,0	6.7	48.0	84
1708 058	6 x 1,0	7.3	57.6	100
1708 059	7 x 1,0	7.3	67.2	105
1708 060	8 x 1,0	7.9	76.8	122
1708 061	10 x 1,0	9.3	96.0	149
1708 062	12 x 1,0	10.1	115.2	180
1708 063	14 x 1,0	10.6	134.4	204
1708 064	16 x 1,0	11.1	153.6	230

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TECHNOFLEKS LiYYużo-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
1708 065	18 x 1,0	12.0	172.8	263
1708 066	19 x 1,0	12.0	182.4	269
1708 067	21 x 1,0	12.6	201.6	297
1708 068	24 x 1,0	14.2	230.4	343
1708 069	27 x 1,0	14.5	259.2	376
1708 070	30 x 1,0	15.0	288.0	411
1708 071	34 x 1,0	16.2	326.4	478
1708 072	37 x 1,0	16.2	355.2	494
1708 073	40 x 1,0	16.8	384.0	534
1708 074	44 x 1,0	18.4	422.4	593
1708 075	48 x 1,0	18.7	460.8	637
1708 076	50 x 1,0	19.2	480.0	673
1708 077	60 x 1,0	20.4	576.0	783
1708 078	2 x 1,5	5.9	28.8	59
1708 079	3 x 1,5	6.2	43.2	72
1708 080	4 x 1,5	6.8	57.6	90
1708 081	5 x 1,5	7.5	72.0	111
1708 082	6 x 1,5	8.1	86.4	132
1708 083	7 x 1,5	8.1	100.8	140
1708 084	8 x 1,5	8.8	115.2	163
1708 085	10 x 1,5	10.8	144.0	210
1708 086	12 x 1,5	11.2	172.8	240
1708 087	14 x 1,5	12.0	201.6	279
1708 088	16 x 1,5	12.6	230.4	315
1708 089	18 x 1,5	13.3	259.2	353
1708 090	19 x 1,5	13.3	273.6	362
1708 091	21 x 1,5	14.2	302.4	407
1708 092	24 x 1,5	15.8	345.6	462
1708 093	27 x 1,5	16.1	388.8	508
1708 094	30 x 1,5	16.7	432.0	557
1708 095	34 x 1,5	18.1	489.6	646
1708 096	37 x 1,5	18.1	532.8	672
1708 097	40 x 1,5	19.0	576.0	735
1708 098	48 x 1,5	20.9	691.2	867
1708 099	50 x 1,5	21.5	720.0	915
1708 100	60 x 1,5	23.0	864.0	1079
1708 101	2 x 2,5	6.7	48.0	82
1708 102	3 x 2,5	7.1	72.0	104
1708 103	4 x 2,5	7.8	96.0	130
1708 104	5 x 2,5	8.6	120.0	162
1708 105	6 x 2,5	9.8	144.0	202
1708 106	7 x 2,5	9.8	168.0	216
1708 107	8 x 2,5	10.7	192.0	251
1708 108	10 x 2,5	12.7	240.0	313
1708 109	12 x 2,5	13.2	288.0	361
1708 110	14 x 2,5	13.9	336.0	412

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
1708 111	16 x 2,5	14.8	384.0	474
1708 112	18 x 2,5	15.7	432.0	532
1708 113	19 x 2,5	15.7	456.0	546
1708 114	21 x 2,5	16.5	504.0	605
1708 115	25 x 2,5	19.0	600.0	739
1708 116	27 x 2,5	19.0	648.0	766
1708 117	30 x 2,5	19.7	720.0	841
1708 118	34 x 2,5	21.3	816.0	976
1708 119	37 x 2,5	21.3	888.0	1018
1708 120	40 x 2,5	22.1	960.0	1102
1708 121	44 x 2,5	24.2	1056.0	1218
1708 122	50 x 2,5	25.3	1200.0	1386
1708 123	60 x 2,5	26.9	1440.0	1625
1708 124	2 x 4,0	8.1	76.8	123
1708 125	3 x 4,0	8.6	115.2	157
1708 126	4 x 4,0	9.9	153.6	205
1708 127	5 x 4,0	10.9	192.0	255
1708 128	7 x 4,0	12.1	268.8	333
1708 129	3 x 6,0	10.4	172.8	235
1708 130	4 x 6,0	11.5	230.4	296
1708 131	5 x 6,0	12.8	288.0	374
1708 132	7 x 6,0	14.3	403.2	491
1708 133	3 x 10,0	13.2	288.0	396
1708 134	4 x 10,0	14.8	384.0	507
1708 135	5 x 10,0	16.3	480.0	632
1708 136	7 x 10,0	17.9	672.0	824
1708 137	3 x 16,0	15.8	460.8	603
1708 138	4 x 16,0	17.4	614.4	763
1708 139	5 x 16,0	19.4	768.0	961
1708 140	7 x 16,0	21.3	1075.2	1260
1708 141	3 x 25,0	18.5	720.0	872
1708 142	4 x 25,0	20.5	960.0	1110
1708 143	5 x 25,0	22.8	1200.0	1396
1708 144	3 x 35,0	21.8	1008.0	1213
1708 145	4 x 35,0	24.4	1344.0	1557
1708 146	5 x 35,0	27.0	1680.0	1950
1708 147	3 x 50,0	27.4	1440.0	1806
1708 148	4 x 50,0	30.4	1920.0	2296
1708 149	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.