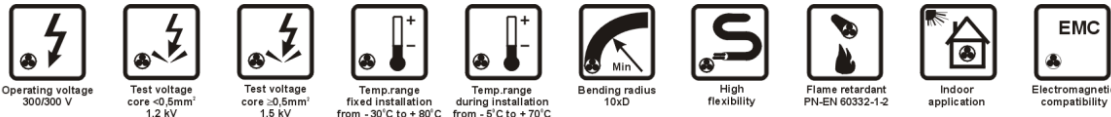


TECHNOTRONIK LiYCY-CY-P**CONTROL CABLES FOR INDUSTRIAL ELECTRONIC APPLICATIONS****APPLICATIONS**

TECHNOTRONIK LiYCY-CY-P are multipair, pair and overall shielded control cables intended for control and instrumentation circuits, for signal, monitoring and data processing systems and for analogue or digital data transmission, all for industrial electronic applications.

Shielded pair structure substantially decreases mutual influence between signals transmitted along the cable.

To achieve high analogue or digital data transmission performance the cable is protected against external electromagnetic interferences by an overall shield.

The cables are designed to offer high flexibility and small outer diameter combined with tensile strength.

The cables can also be used for power supply to small auxiliary devices on condition that current-carrying capacity limit (see our *Technical Guide*) is not exceeded.

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,
- insulated conductors twisted into pairs,
- pairs wrapped in polyester tape,
- pairs shielded by tinned copper wire braid of effective density coverage,
- shielded pairs sheathed with PVC to insulate one shield from another,
- shielded and sheathed 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

TECHNOTRONIK LiYCY-CY-P-O - 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.

TECHNOTRONIK LiYCY-C11Y-P - polyurethane sheathed cables of enhanced protection against mechanical damage, particularly to abrasion and tear, also resistant to oils, petrol, bacteria and ultraviolet radiation.

TECHNOTRONIK IB-LiYCY-CY-P - specially designed intrinsically safe cable.

TECHNOTRONIK LIYCY-CY-P

CHARACTERISTICS

Conductor cross-section	mm ²	0.14	0.25	0.34	0.5	0.75	1.0	1.5
Operating voltage, peak value	V	350	350	350	500	500	500	500
Voltage test	V rms	1200	1200	1200	1500	1500	1500	1500
DC loop resistance at 20°C, maximum	Ω/km	288.0	158.0	114.0	78.0	52.0	39.0	26.6
Mutual capacitance at 1 kHz, approximate	nF/km	200	210	210	220	240	250	250

Operating voltage U₀/U 300/300 V

Insulation resistance, minimum 20 MΩ·km

Inductance, approximate 0.7 mH/km

Impedance, approximate 80 Ω

Capacitance unbalance, maximum 300 pF/100 m

Operating temperature range

for fixed installation

for movable installation

from - 30 to + 80°C

from - 5 to + 70°C

Minimum bending radius

10 x cable diameter

Cable combustibility

flame retardant

Combustibility tests

PN-EN 60332-1-2, IEC 60332-1-2

Reference standards

DIN VDE 0812, DIN VDE 0814

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
0119 024	2 x 2 x 0,14	7.8	31.9	75
0119 025	3 x 2 x 0,14	8.2	40.5	83
0119 026	4 x 2 x 0,14	9.0	50.2	102
0119 027	5 x 2 x 0,14	10.3	60.1	131
0119 028	6 x 2 x 0,14	11.2	70.0	151
0119 029	8 x 2 x 0,14	12.2	87.3	191
0119 030	12 x 2 x 0,14	14.6	123.3	270
0119 031	16 x 2 x 0,14	16.6	166.1	348
0119 032	25 x 2 x 0,14	20.3	245.3	512
0119 006	2 x 2 x 0,25	8.6	39.5	91
0119 033	3 x 2 x 0,25	9.1	50.8	99
0119 007	4 x 2 x 0,25	10.4	63.4	133
0119 017	5 x 2 x 0,25	11.4	76.3	157
0119 034	6 x 2 x 0,25	12.6	89.1	187
0119 035	8 x 2 x 0,25	13.4	111.8	228
0119 001	12 x 2 x 0,25	16.2	166.4	331
0119 036	16 x 2 x 0,25	18.5	214.0	428
0119 037	25 x 2 x 0,25	22.9	341.2	654
0119 038	2 x 2 x 0,34	8.9	45.7	100
0119 039	3 x 2 x 0,34	9.9	61.0	123
0119 018	4 x 2 x 0,34	10.8	75.7	150
0119 040	5 x 2 x 0,34	12.1	91.7	185
0119 041	6 x 2 x 0,34	13.2	107.6	214
0119 042	8 x 2 x 0,34	14.2	135.9	269
0119 043	12 x 2 x 0,34	17.0	202.8	382
0119 044	16 x 2 x 0,34	19.4	261.9	495
0119 011	2 x 2 x 0,5	10.3	57.7	132
0119 045	3 x 2 x 0,5	10.9	77.1	146
0119 012	4 x 2 x 0,5	12.2	97.8	187
0119 008	5 x 2 x 0,5	13.4	118.7	222
0119 046	6 x 2 x 0,5	14.9	146.3	272

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
0119 002	8 x 2 x 0,5	15.8	184.7	333
0119 019	12 x 2 x 0,5	19.1	265.5	475
0119 047	14 x 2 x 0,5	20.4	305.1	540
0119 048	16 x 2 x 0,5	21.6	344.4	604
0119 049	2 x 2 x 0,75	10.9	68.9	149
0119 005	3 x 2 x 0,75	11.5	93.1	165
0119 050	4 x 2 x 0,75	12.9	118.8	211
0119 051	5 x 2 x 0,75	14.3	144.5	259
0119 020	6 x 2 x 0,75	15.7	177.6	308
0119 052	7 x 2 x 0,75	15.7	200.3	340
0119 053	8 x 2 x 0,75	16.8	226.2	381
0119 016	12 x 2 x 0,75	20.2	326.4	544
0119 054	16 x 2 x 0,75	23.3	448.1	728
0119 003	2 x 2 x 1,0	11.8	80.7	172
0119 021	3 x 2 x 1,0	12.5	110.2	194
0119 015	4 x 2 x 1,0	14.0	141.1	248
0119 055	5 x 2 x 1,0	15.5	179.3	304
0119 056	6 x 2 x 1,0	16.9	211.3	353
0119 057	7 x 2 x 1,0	16.9	238.9	391
0119 014	8 x 2 x 1,0	18.2	270.0	446
0119 022	12 x 2 x 1,0	21.7	391.0	627
0119 004	2 x 2 x 1,5	13.2	106.7	216
0119 058	3 x 2 x 1,5	14.2	147.5	251
0119 023	4 x 2 x 1,5	15.7	197.0	319
0119 059	5 x 2 x 1,5	17.3	240.7	383
0119 060	6 x 2 x 1,5	19.1	284.5	456
0119 061	7 x 2 x 1,5	19.1	323.3	507
0119 062	8 x 2 x 1,5	20.4	366.1	568
0119 010	12 x 2 x 1,5	24.7	556.7	836

Other cross-sections and pair counts available on request.

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