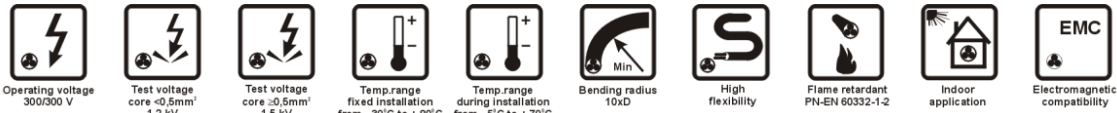


TECHNOTRONIK LiYC-CY-P**CONTROL CABLES FOR INDUSTRIAL ELECTRONIC APPLICATIONS****APPLICATIONS**

TECHNOTRONIK LiYC-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,
- 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 LiYC-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 LiYC-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-LiYC-CY-P - specially designed intrinsically safe cable.

TECHNOTRONIK LiYC-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

Minimum bending radius

Cable combustibility

Combustibility tests

Reference standards

from - 30 to + 80°C

from - 5 to + 70°C

10 x cable diameter

flame retardant

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

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
1220 004	2 x 2 x 0,14	6.4	25.4	50
1220 005	3 x 2 x 0,14	6.7	33.6	57
1220 006	4 x 2 x 0,14	7.3	42.4	69
1220 007	5 x 2 x 0,14	8.1	55.4	86
1220 008	6 x 2 x 0,14	8.8	64.8	99
1220 009	8 x 2 x 0,14	9.8	81.6	130
1220 010	12 x 2 x 0,14	11.8	116.5	183
1220 011	16 x 2 x 0,14	13.2	150.5	229
1220 012	25 x 2 x 0,14	16.3	233.5	345
1220 013	2 x 2 x 0,25	7.1	32.2	65
1220 014	3 x 2 x 0,25	7.5	43.2	70
1220 002	4 x 2 x 0,25	8.4	60.1	91
1220 015	5 x 2 x 0,25	9.6	71.6	116
1220 016	6 x 2 x 0,25	10.4	84.0	133
1220 017	8 x 2 x 0,25	11.0	106.6	161
1220 018	12 x 2 x 0,25	13.3	152.3	229
1220 019	16 x 2 x 0,25	15.3	204.6	302
1220 020	25 x 2 x 0,25	18.6	306.5	443
1220 021	2 x 2 x 0,34	7.5	38.6	73
1220 022	3 x 2 x 0,34	8.0	56.4	86
1220 023	4 x 2 x 0,34	8.8	71.6	106
1220 024	5 x 2 x 0,34	10.1	87.1	136
1220 025	6 x 2 x 0,34	11.0	103.0	158
1220 026	8 x 2 x 0,34	11.8	130.2	198
1220 027	12 x 2 x 0,34	14.2	188.0	281
1220 028	16 x 2 x 0,34	16.1	252.6	363
1220 029	2 x 2 x 0,5	8.6	54.7	92
1220 030	3 x 2 x 0,5	9.1	73.5	107
1220 031	4 x 2 x 0,5	10.4	93.6	142
1220 032	5 x 2 x 0,5	11.4	114.1	169
1220 033	6 x 2 x 0,5	12.6	134.4	201

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
1220 034	8 x 2 x 0,5	13.4	172.2	247
1220 035	12 x 2 x 0,5	16.2	257.0	360
1220 036	14 x 2 x 0,5	17.3	296.0	409
1220 037	16 x 2 x 0,5	18.5	334.7	466
1220 038	2 x 2 x 0,75	9.1	65.3	108
1220 039	3 x 2 x 0,75	10.1	89.6	133
1220 040	4 x 2 x 0,75	11.1	114.9	164
1220 041	5 x 2 x 0,75	12.3	140.3	202
1220 042	6 x 2 x 0,75	13.4	165.3	234
1220 043	7 x 2 x 0,75	13.4	188.0	258
1220 044	8 x 2 x 0,75	14.5	212.9	296
1220 045	12 x 2 x 0,75	17.3	318.0	421
1220 046	16 x 2 x 0,75	19.8	415.6	547
1220 003	2 x 2 x 1,0	10.3	77.4	133
1220 047	3 x 2 x 1,0	10.9	106.5	154
1220 001	4 x 2 x 1,0	12.2	137.0	197
1220 048	5 x 2 x 1,0	13.4	167.7	235
1220 049	6 x 2 x 1,0	14.9	205.1	287
1220 050	7 x 2 x 1,0	14.9	232.7	317
1220 051	8 x 2 x 1,0	15.8	263.1	353
1220 052	12 x 2 x 1,0	19.1	382.9	505
1220 053	2 x 2 x 1,5	11.8	103.1	179
1220 054	3 x 2 x 1,5	12.5	143.7	205
1220 055	4 x 2 x 1,5	14.0	185.8	262
1220 056	5 x 2 x 1,5	15.5	235.1	320
1220 057	6 x 2 x 1,5	16.9	278.2	373
1220 058	7 x 2 x 1,5	16.9	317.0	414
1220 059	8 x 2 x 1,5	18.2	359.2	473
1220 060	12 x 2 x 1,5	21.7	524.8	667

Other cross-sections and pair counts available on request.

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