TECHNOKABEL®

CE RoHS

ISO 9001:2008

TECHNOTRONIK LiYwYw 105°C

CONTROL CABLES FOR INDUSTRIAL ELECTRONIC APPLICATIONS

APPLICATIONS

TECHNOTRONIK LiYwYw 105°C are heat resistant 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.

The cable can be applied at higher operating temperatures up to 105°C due to insulation and sheath made of special heat resistant PVC.

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,
- heat resistant PVC insulation, identification colour code in accordance with DIN VDE 47100,
- insulated conductors laid-up into a cable core,
- special heat resistant PVC cable sheath, grey (RAL 7001), other colours also available.

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CHARACTERISTICS

Conductor cross-section	mm^2	**0.14**	**0.22**	**0.35**	**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 conductor resistance at 20°C, maximum	Ω/km	144.0	90.0	57.0	39.0	26.0	19.5	13.3
Capacitance between conductors at 1 kHz, appr.	nF/km	90	100	110	110	110	120	120

Operating voltage Uo/U	300/300 V
Insulation resistance, minimum	20 MΩ·km
Inductance, approximate	0.7 mH/km
Impedance, approximate	80 Ω

Operating temperature range	
for fixed installation	from - 40 to + 105°C
for movable installation	from - 5 to + 90°C
Minimum bending radius	7.5 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 conductors x conductor cross-section	Cable outer diameter (appr.)	Copper index	Cable weight (appr.)
	mm^2	mm	kg/km	kg/km
0762 004	2 x 0,14	3.0	2.69	13
0762 014	3 x 0,14	3.1	4.0	15
0762 017	4 x 0,14	3.4	5.4	17
0762 024	5 x 0,14	3.7	6.7	21
0762 011	2 x 0,22	3.3	4.3	17
0762 015	3 x 0,22	3.5	6.4	20
0762 018	4 x 0,22	3.8	8.5	24
0762 025	5 x 0,22	4.1	10.6	29
0762 012	2 x 0,35	3.5	6.5	20
0762 026	3 x 0,35	3.7	9.8	24
0762 019	4 x 0,35	4.0	13.1	29
0762 023	5 x 0,35	4.4	16.3	36
0762 006	2 x 0,5	4.0	9.6	25
0762 008	3 x 0,5	4.2	14.4	31

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
0762 020	4 x 0,5	4.6	19.2	37
0762 027	5 x 0,5	5.3	24.0	49
0762 013	2 x 0,75	4.4	14.4	32
0762 016	3 x 0,75	4.6	21.6	39
0762 021	4 x 0,75	5.3	28.8	51
0762 028	5 x 0,75	5.8	36.0	63
0762 029	2 x 1,0	4.7	19.2	39
0762 030	3 x 1,0	5.2	28.8	51
0762 031	4 x 1,0	5.7	38.4	62
0762 032	5 x 1,0	6.3	48.0	77
0762 033	2 x 1,5	5.7	28.8	56
0762 009	3 x 1,5	6.0	43.2	70
0762 022	4 x 1,5	6.6	57.6	87
0762 034	5 x 1,5	7.3	72.0	108

Other cross-sections and conductor counts available on request.
TECHNOKABEL S.A. reserves the right to change specifications without prior notice.

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