

LiY(St)Y-P nx(2x0,5c)
(equivalent: NOMAK)**INSTRUMENTATION CABLES**Operating voltage
max 150 VTest voltage
2 kVTemp. range
fixed installation
from -30°C to +80°CTemp. range
during installation
from -5°C to +70°CBending radius
15xDHigh
flexibilityFlame retardant
PN-EN 60332-1-2Indoor
applicationEMC
Electromagnetic
compatibility**APPLICATIONS**

LiY(St)Y-P nx(2x0,5c) are multipair, overall shielded cables intended for control and instrumentation circuits, for signal, monitoring and data processing systems and for analogue or digital data transmission, all in industrial electronics applications.

Paired structure decreases mutual influence between signals transmitted along the cable and reduces influence of outer sources of interference.

The cables are protected by an overall electrostatic shield against external electric interferences.

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

The cable is also suitable for Maxi-Termi-Point jointing technique.

CONSTRUCTION

- flexible, multiwire conductors, stranded of tin-plated copper wires (7x0.3 mm), meeting requirements of class 2 per PN-EN 60228,
- PVC insulation,
- insulated conductors twisted into pairs, identification colour code:
 - "a" wire – orange insulation and black pair number printed on it,
 - "b" wire – white insulation and black pair number printed on it,
- pairs laid-up in layers into a cable core,
- cable core wrapped in polyester tape,
- overall electrostatic shield incorporating aluminium-polyester tape and stranded annealed tinned copper drain wire, cross-section 0.5 mm² (7x0.3 mm),
- PVC cable sheath, grey RAL 7001, other colours also available.

AVAILABLE UPON REQUEST

LiH(St)H-P nx(2x0,5c) (equivalent: NOMAK-HF) - 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.

LiY(St)Yu-P nx(2x0,5c) - cables of reduced combustibility, sheathed with special self-extinguishing PVC of high oxygen index and pass combustibility test according to PN-EN 60332-3 standard.

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CHARACTERISTICS

Characteristic impedance at 10 MHz	100 ± 10 Ω	Attenuation loss, [dB/100m] max - at frequency [kHz]:		
Mutual capacitance at 800 Hz, appr.	100 nF/km*)		9.6	0.3
			19.2	0.5
DC loop resistance at 20°C, maximum	81 Ω/km		64.0	0.7
			100.0	0.9
Insulation resistance, minimum	20 MΩ·km		200.0	1.5
			1000.0	2.9
Operating voltage	150 V	Operating temperature range		
Voltage test	2,0 kV rms	for fixed installation	from - 30 to + 80°C	
		for movable installation	from - 5 to + 70°C	
		Minimum bending radius	15 x cable diameter	
		Cable combustibility	flame retardant	
		Combustibility tests	PN-EN 60332-1-2, IEC 60332-1-2	

*) this value can be higher by 20 % in four or less pair cable

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
0092 010	2 x (2 x 0,5c)	6,9	24,0	58
0092 009	4 x (2 x 0,5c)	8,2	43,2	87
0092 012	8 x (2 x 0,5c)	10,5	82,0	153

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
0092 011	12 x (2 x 0,5c)	12,7	120,0	220
0092 013	24 x (2 x 0,5c)	17,4	235,0	415
0092 014	48 x (2 x 0,5c)	24,3	466,0	810

Other cross-sections and pair counts available on request.

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