TECHNOKABEL®

ISO 9001:2000

YnTKSY, YnTKSYekw, YnTKSXekw

FIRE ALARM CABLES

APPLICATIONS

YnTKSY, YnTKSYekw and **YnTKSXekw** cables are intended for fire alarm and fire automatic control systems also for data processing systems and for analogue or digital data transmission, all in industrial electronics applications.

The cables are certified by Research and Development Centre for Fire Protection (Centrum Naukowo-Badawcze Ochrony Przeciwpożarowej) at Józefów – **Certificate of Conformity No. 668/200/2004**.

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

The cables are suitable for indoor installations.

CONSTRUCTION of YnTKSY and YnTKSYekw CABLES

- bare annealed copper single wire round conductors of diameter 0.8 mm, 1.0 mm and 1.5 mm,
- PVC insulation - colours in accordance with PN-92/T-90321 standard,
- insulated conductors twisted into pairs or a quad,
- pairs laid-up into a cable core,
- cable core wrapped in a polyester tape,
- overall electrostatic shield incorporating a plastic laminated metal foil and a tinned copper drain wire in **YnTKSYekw** cable,
- special (oxygen index bigger than 29%) PVC cable sheath, red RAL 3000.

CONSTRUCTION of YnTKSXekw CABLES

- bare annealed copper single wire round conductors of diameter 1.05 mm,
- polyethylene (PE) insulation - colours in accordance with PN-92/T-90321 standard,
- insulated conductors twisted into pairs or a quad,
- pairs laid-up into cable a core,
- cable core wrapped in a polyester tape,
- overall electrostatic shield incorporating a plastic laminated metal foil and a tinned copper drain wire,
- special (oxygen index bigger than 29%) PVC cable sheath, red RAL 3000.

TECHNOKABEL®

ISO 9001:2000

YnTKSY, YnTKSYekw, YnTKSXekw

CHARACTERISTICS

Cable type			YnTKSY			YnTKSYekw			YnTKSXekw
Conductor diameter		mm	0.8	1.0	1.5	0.8	1.0	1.5	1.05
DC loop resistance at 20°C, maximum		Ω/km	75	48	24	75	48	24	48
Capacitance between conductors at 1 kHz	maximum	nF/km	120	120	120	150	150	150	65
	average		100	100	100	140	140	140	63

Operating voltage	150 V
Voltage test	1.5 kV rms
Insulation resistance, minimum	20 MΩ·km
Inductance, approximate	0.7 mH/km

Operating temperature range	
during operation	from -30 to +80°C
during installation	from -5 to +70°C
Minimum bending radius	10 x cable diameter
Cable combustibility	flame retardant
Combustibility tests	PN-EN 60332-1-2
Reference standards	WT-TK-4 PN-92/T-90320 PN-92/T-90321

CE = the cable meets requirements of the low voltage directive 73/23/EEC and 93/68/EEC

Cable type	Number of conductors x conductor diameter	Cable outer diameter (appr.)	Copper index	Cable weight (appr.)
	number x mm	mm	kg/km	kg/km
YnTKSY	1 x 2 x 0.8	4.2	10.0	24.5
YnTKSY	1 x 4 x 0.8	4.8	20.0	39.0
YnTKSY	3 x 2 x 0.8	6.5	30.0	57.5
YnTKSY	4 x 2 x 0.8	7.1	40.0	72.0
YnTKSY	1 x 2 x 1.0	4.8	15.5	32.0
YnTKSYekw	1 x 2 x 0.8	4.4	11.0	27.0
YnTKSYekw	1 x 4 x 0.8	5.0	21.0	42.0

Cable type	Number of conductors x conductor diameter	Cable outer diameter (appr.)	Copper index	Cable weight (appr.)
	number x mm	mm	kg/km	kg/km
YnTKSYekw	2 x 2 x 0.8	6.4	21.5	46.5
YnTKSYekw	3 x 2 x 0.8	6.7	31.5	60.5
YnTKSYekw	4 x 2 x 0.8	7.3	41.5	74.5
YnTKSYekw	1 x 2 x 1.0	5.2	17.0	36.5
YnTKSXekw	1 x 2 x 1.05	6.7	18.5	48.5
YnTKSXekw	1 x 4 x 1.05	7.7	35.5	78.5

Other diameters and conductor counts available on request.