

XnKSXSžo-Nr 0,6/1 kV, XnKSXS-Nr 0,6/1 kV

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XLPE INSULATED AND HALOGEN FREE SHEATHED CONTROL CABLES**APPLICATIONS**

XnKSXSžo-Nr 0,6/1 kV and **XnKSXS-Nr 0,6/1 kV** control cables are designed for control, protection and monitoring systems in power engineering, also for electric power distribution.

The cables are suitable for industrial applications, such as production plants or air-conditioning systems operating in dry and wet locations, also for outdoor installations, in cable ducts or for direct earth burial.

Halogen free cables shall be applied in locations where, in case of fire, higher safety for human beings and expensive electronic equipment is required. The cables are flame retardant and their smoke emission is low, emitted fumes are non toxic and non corrosive.

CONSTRUCTION

- bare annealed copper conductors meeting requirements of class 1 per PN-EN 60228 standard,
- black cross-linked polyethylene (XLPE) insulation and white conductor number printed on it; a green-yellow protective conductor in the outer layer in **XnKSXSžo-Nr 0,6/1 kV** cable,
- insulated conductors laid-up in layers,
- cable core wrapped in polyester tape,
- cable sheath made of halogen free compound (HFFR), black, other colours also available.

AVAILABLE UPON REQUEST

XnKSXSžo-Nr 0,6/1 kV and **XnKSXS-Nr 0,6/1 kV** - cables with inner covering extruded directly on a cable core, recommended for direct earth burial.

Steel wire or **steel tape armoured** cables as above applied in locations where enhanced protection against mechanical damages is required.

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CHARACTERISTICS

Conductor cross-section	mm ²	1	1,5	2,5	4	6	10	16
DC conductor resistance at 20°C, maximum	Ω/km	18.1	12.1	7.41	4.61	3.08	1.83	1.15

Operating voltage U _o /U	0.6/1 kV	Corrosivity of emitted gases per	PN-EN 60754-1, PN-EN 60754-2, IEC 60754-2
Voltage test	4 kV rms	pH, approximate	6.8
Insulation resistance, minimum	100 MΩ·km	conductivity, approximate	0.4 μS/mm
Conductor temperature limit in work conditions	+ 90°C	Smoke density per	PN-EN 61034-2, IEC 61034-2
Conductor temperature limit in short-circuit	+ 250°C	light transmittance minimum	70 %
Temperature range during operation	from - 30 to + 70°C	Cable combustibility	flame retardant
Temperature range during installation	from - 5 to + 50°C	Combustibility tests	PN-EN 60332-1-2, IEC 60332-1-2 PN-EN 60332-3-24, IEC 60332-3-24
Minimum bending radius	12 x cable diameter	Reference standards	IEC 60502-1, PN-HD 604 S1, DIN VDE 0266

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
1297 013	7 x 1	10.1	67.2	150
1297 006	10 x 1	12.4	96.0	202
1297 016	12 x 1	12.8	115.2	229
1297 005	14 x 1	13.4	134.4	257
1297 011	16 x 1	14.1	153.6	288
1297 017	19 x 1	14.8	182.4	326
1297 012	24 x 1	17.1	230.4	403
1297 007	30 x 1	18.0	288.0	480
1297 018	37 x 1	19.4	355.2	572
1297 014	48 x 1	22.2	460.8	732
1297 019	61 x 1	24.2	585.6	897
1297 001	7 x 1,5	10.9	100.8	189
1297 004	10 x 1,5	13.4	144.0	258
1297 020	12 x 1,5	13.8	172.8	294
1297 002	14 x 1,5	14.5	201.6	332
1297 021	16 x 1,5	15.2	230.4	373
1297 022	19 x 1,5	16.0	273.6	426
1297 010	24 x 1,5	18.5	345.6	528
1297 023	30 x 1,5	19.6	432.0	635
1297 024	37 x 1,5	21.1	532.8	761
1297 015	48 x 1,5	24.3	691.2	973
1297 025	61 x 1,5	26.6	878.4	1216
1297 026	7 x 2,5	12.0	168.0	260
1297 027	10 x 2,5	14.9	240.0	359

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
1297 028	12 x 2,5	15.4	288.0	413
1297 029	14 x 2,5	16.2	336.0	470
1297 030	16 x 2,5	17.0	384.0	531
1297 031	19 x 2,5	17.9	456.0	610
1297 032	24 x 2,5	20.8	576.0	760
1297 003	30 x 2,5	22.2	720.0	932
1297 033	37 x 2,5	23.9	888.0	1118
1297 034	48 x 2,5	27.5	1152.0	1437
1297 035	7 x 4	13.4	268.8	367
1297 036	10 x 4	16.8	384.0	512
1297 037	12 x 4	17.3	460.8	590
1297 038	14 x 4	18.2	537.6	675
1297 039	16 x 4	19.2	614.4	765
1297 040	7 x 6	14.9	403.2	504
1297 041	10 x 6	18.8	576.0	706
1297 042	12 x 6	19.4	691.2	820
1297 043	14 x 6	20.4	806.4	941
1297 044	7 x 10	17.3	672.0	778
1297 045	10 x 10	22.2	960.0	1106
1297 046	7 x 16	20.0	1075.2	1167
1297 047	10 x 16	26.0	1536.0	1662

Other cross-sections and conductor counts available on request.

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