

YKXSzo 0,6/1 kV, YKXS 0,6/1 kV**XLPE INSULATED AND PVC SHEATHED POWER CABLES****APPLICATIONS**

YKXSzo 0,6/1 kV and **YKXS 0,6/1 kV** power cables are designed for electric power transmission. They are also applied in power circuits in industrial plants and power stations and in local distribution networks.

The cables are suitable for indoor and outdoor installations, for laying in cable ducts and for direct earth burial.

Improved electrical properties, small dimensions and weight compared to the cables with PVC insulation is achieved using cross-linked polyethylene insulation.

CONSTRUCTION

- bare annealed copper conductors meeting requirements of PN-EN 60228 standard:
 - RE** - class 1 circular single-wire,
 - RM** - class 2 circular multi-wire,
 - SM** - class 2 sector shaped multi-wire.
- cross-linked polyethylene (XLPE) insulation - colours in accordance with PN-HD 308 standard, green-yellow protective conductor in **YKXSzo 0,6/1 kV** cable,
- insulated conductors laid-up in a cable core,
- black PVC cable sheath, other colours also available.

AVAILABLE UPON REQUEST

YKXSzo-O 0,6/1 kV and **YKXS-O 0,6/1 kV** - 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.

XnKXSzo 0,6/1 kV and **XnKXS 0,6/1 kV** - 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.

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

Operating voltage U _o /U	0.6/1 kV	Temperature range	
Voltage test	4 kV rms	during operation	from - 30 to + 70°C
Insulation resistance, minimum	100 MΩ·km	during installation	from - 5 to + 50°C
Conductor temperature limit		Minimum bending radius	
in work conditions	+ 90°C	single wire cables	15 x cable diameter
in short-circuit	+ 250°C	multi wire cables	12 x cable diameter
		Cable combustibility	flame retardant
		Combustibility tests	PN-EN 60332-1-2, IEC 60332-1-2
		Reference standards	IEC 60502-1, PN-HD 603 S1

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.)	DC conductor resistance at 20°C, maximum	Copper index	Cable weight (appr.)
	mm ²	mm	Ω/km	kg/km	kg/km
YKXS 0,6/1 kV					
0556 040	1x1 RE	4.8	18.1	9.6	36
0556 041	1x1,5 RE	5.1	12.1	14.4	43
0556 042	1x2,5 RE	5.4	7.41	24.0	54
0556 034	1x4 RE	5.9	4.61	38.4	70
0556 043	1x6 RE	6.4	3.08	57.6	91
0556 044	1x10 RE	7.2	1.83	96.0	133
0556 035	1x16 RE	8.1	1.15	153.6	191
0556 023	1x25 RM	10.0	0.727	240.0	286
0556 024	1x35 RM	11.0	0.524	336.0	379
0556 025	1x50 RM	12.4	0.387	480.0	505
0556 020	1x70 RM	14.4	0.268	672.0	712
0556 026	1x95 RM	16.3	0.193	912.0	1005
0556 018	1x120 RM	18.0	0.153	1152.0	1198
0556 021	1x150 RM	20.1	0.124	1440.0	1503
0556 015	1x185 RM	22.5	0.0991	1776.0	1874
0556 014	1x240 RM	25.1	0.0754	2304.0	2434
0556 022	1x300 RM	27.1	0.0601	2880.0	2954
0556 045	1x400 RM	30.3	0.0470	3840.0	4022
0556 046	1x500 RM	33.7	0.0366	4800.0	5028
YKXS 0,6/1 kV					
0556 047	2x1 RE	7.7	18.1	19.2	88
0556 036	2x1,5 RE	8.2	12.1	28.8	104
0556 037	2x2,5 RE	9.0	7.41	48.0	134
0556 048	2x4 RE	9.9	4.61	76.8	176
0556 049	2x6 RE	10.9	3.08	115.2	229
0556 050	2x10 RE	12.5	1.83	192.0	331
0556 051	2x16 RE	14.8	1.15	307.2	501
0556 038	2x25 RM	18.5	0.727	480.0	768
0556 039	2x35 RM	20.6	0.524	672.0	1005
YKXSzo 0,6/1 kV					
0622 025	3x1 RE	8.1	18.1	28.8	100
0622 004	3x1,5 RE	8.6	12.1	43.2	120
0622 001	3x2,5 RE	9.4	7.41	72.0	157
0622 026	3x4 RE	10.4	4.61	115.2	212
0622 008	3x6 RE	11.5	3.08	172.8	282
0622 007	3x10 RE	13.2	1.83	288.0	417
0622 009	3x16 RE	15.7	1.15	460.8	638
0622 024	3x25 RM	19.7	0.727	720.0	978
0622 014	3x35 RM	22.0	0.524	1008.0	1295
0622 027	3x50 SM	23.1	0.387	1440.0	1740
0622 028	3x70 SM	27.0	0.268	2016.0	2212

Product No.	Number of conductors x conductor cross-section	Cable outer diameter (appr.)	DC conductor resistance at 20°C, maximum	Copper index	Cable weight (appr.)
	mm ²	mm	Ω/km	kg/km	kg/km
0622 029	3x95 SM	30.7	0.193	2736.0	3089
0622 030	3x120 SM	34.4	0.153	3456.0	3750
0622 031	3x150 SM	38.6	0.124	4320.0	4716
0622 032	3x185 SM	43.2	0.0991	5328.0	5884
0622 033	3x240 SM	48.3	0.0754	6912.0	7606
YKXSzo 0,6/1 kV					
0622 034	4x1 RE	8.7	18.1	38.4	116
0622 023	4x1,5 RE	9.3	12.1	57.6	143
0622 035	4x2,5 RE	10.2	7.41	96.0	189
0622 010	4x4 RE	11.3	4.61	153.6	260
0622 011	4x6 RE	12.5	3.08	230.4	348
0622 006	4x10 RE	14.4	1.83	384.0	522
0622 036	4x16 RE	17.1	1.15	614.4	798
0622 037	4x25 RM	21.6	0.727	960.0	1228
0622 022	4x35 RM	24.4	0.524	1344.0	1647
0622 038	4x50 SM	25.6	0.387	1920.0	2216
0622 039	4x70 SM	30.0	0.268	2688.0	2822
0622 040	4x95 SM	34.4	0.193	3648.0	3990
0622 041	4x120 SM	38.5	0.153	4608.0	4823
0622 042	4x150 SM	42.9	0.124	5760.0	6032
0622 043	4x185 SM	48.2	0.0991	7104.0	7552
0622 044	4x240 SM	53.8	0.0754	9216.0	9773
YKXSzo 0,6/1 kV					
0622 045	5x1 RE	9.3	18.1	48.0	135
0622 016	5x1,5 RE	10.0	12.1	72.0	167
0622 020	5x2,5 RE	11.0	7.41	120.0	225
0622 018	5x4 RE	12.3	4.61	192.0	311
0622 017	5x6 RE	13.6	3.08	288.0	419
0622 002	5x10 RE	15.8	1.83	480.0	634
0622 005	5x16 RE	18.7	1.15	768.0	968
0622 012	5x25 RM	24.0	0.727	1200.0	1509
0622 003	5x35 RM	27.0	0.524	1680.0	2021
0622 046	5x50 SM	28.4	0.387	2400.0	2727
0622 047	5x70 SM	33.7	0.268	3360.0	3506
0622 048	5x95 SM	38.4	0.193	4560.0	4930
0622 049	5x120 SM	42.6	0.153	5760.0	5928
0622 050	5x150 SM	47.7	0.124	7200.0	7446
0622 051	5x185 SM	53.6	0.0991	8880.0	9312
0622 052	5x240 SM	59.9	0.0754	11520.0	12059

Other cross-sections and conductor counts available on request.

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