

YStYekw 300/500 V
YStYekwżo 300/500 V**CONTROL AND POWER SUPPLY FLEXIBLE CABLES****APPLICATIONS**

YStYekw 300/500 V and **YStYekwżo 300/500 V** are cables designed for wet or dry locations and intended for control, protection and monitoring systems or power supply, all in power engineering. The cables are also intended for wiring industrial plants, such as production lines, air-conditioning equipment etc.

Cable inner sheath offers enhanced protection against mechanical damage.

The overall shield protects the cables against external electromagnetic interferences and prevents emission of interferences produced in the cables.

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,
- black PVC insulation and white conductor numbers printed on it for identification,
- insulated conductors laid-up in layers, green-yellow protective conductor located in the outer layer in **YStYekwżo 300/500 V** cable,
- inner PVC sheath,
- tinned copper wire braid shield of effective density coverage,
- PVC cable sheath, grey RAL 7001, other colours also available.

AVAILABLE UPON REQUEST

YStYekw-O 300/500 V and **YStYekwżo-O 300/500 V** - 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.

YnStYekw 300/500 V and **YnStYekwżo 300/500 V** - 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.

YStYekw 300/500 V

YStYekwżo 300/500 V

CHARACTERISTICS

Conductor cross-section	mm ²	0.5	0.75	1.0	1.5	2.5	4.0
DC conductor resistance at 20°C, maximum	Ω/km	39.0	26.0	19.5	13.3	7.98	4.95
Conductor cross-section	mm ²	6.0	10	16	25	35	50
DC conductor resistance at 20°C, maximum	Ω/km	3.30	1.91	1.21	0.780	0.554	0.386

Operating voltage U₀/U 300/500 V

Voltage test 3.0 kV rms

Insulation resistance, minimum 20 MΩ·km

Conductor temperature limit
in work conditions + 70°C
at short-circuit + 150°C

Operating temperature range
for fixed installation
for movable installation

from - 30 to + 80°C
from - 5 to + 70°C

Minimum bending radius 10 x cable diameter

Cable combustibility flame retardant

Combustibility tests PN-EN 60332-1-2, IEC 60332-1-2

Reference standards WT-91/K-363

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
0518 009	2 x 0,5	6.5	19.6	54
0518 010	3 x 0,5	6.8	25.0	63
0518 011	4 x 0,5	7.2	30.6	73
0518 012	5 x 0,5	7.7	36.4	85
0518 005	6 x 0,5	8.3	46.2	102
0518 013	7 x 0,5	8.3	51.0	104
0518 014	10 x 0,5	10.3	69.7	146
0518 015	12 x 0,5	10.6	79.9	162
0518 016	14 x 0,5	11.0	90.6	178
0518 017	16 x 0,5	11.5	101.4	197
0518 018	19 x 0,5	12.2	117.1	224
0518 019	21 x 0,5	12.7	128.0	245
0518 020	24 x 0,5	13.8	145.3	272
0518 021	27 x 0,5	14.3	160.5	300
0518 022	30 x 0,5	14.7	175.9	323
0518 023	36 x 0,5	15.8	214.3	382
0518 024	37 x 0,5	15.8	219.1	385
0518 025	40 x 0,5	16.3	235.4	412
0518 026	44 x 0,5	17.4	257.6	446
0518 027	48 x 0,5	17.7	277.8	475
0518 028	52 x 0,5	18.1	298.2	504
0518 029	56 x 0,5	18.8	319.0	545
0518 030	60 x 0,5	19.3	339.7	577
0518 004	2 x 0,75	6.9	25.2	62
0518 006	3 x 0,75	7.1	32.8	72
0518 031	4 x 0,75	7.6	41.0	85
0518 032	5 x 0,75	8.2	53.1	104
0518 033	6 x 0,75	8.8	62.2	121
0518 034	7 x 0,75	8.8	69.4	125
0518 035	10 x 0,75	11.0	95.4	176
0518 036	12 x 0,75	11.3	110.8	196

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
0518 037	14 x 0,75	12.0	126.2	223
0518 038	16 x 0,75	12.5	142.3	248
0518 039	19 x 0,75	13.1	165.1	277
0518 040	21 x 0,75	13.6	180.8	302
0518 041	24 x 0,75	15.2	212.4	352
0518 042	27 x 0,75	15.5	235.0	381
0518 043	30 x 0,75	15.9	257.8	411
0518 044	36 x 0,75	17.0	304.4	479
0518 045	37 x 0,75	17.0	311.6	483
0518 046	40 x 0,75	17.6	335.1	518
0518 047	44 x 0,75	19.0	367.6	571
0518 048	48 x 0,75	19.3	397.3	609
0518 049	52 x 0,75	19.8	427.7	648
0518 050	56 x 0,75	20.3	458.1	691
0518 051	60 x 0,75	20.9	488.7	734
0518 002	2 x 1,0	7.2	30.6	70
0518 052	3 x 1,0	7.5	40.8	83
0518 053	4 x 1,0	8.2	55.5	103
0518 054	5 x 1,0	8.7	67.0	122
0518 055	6 x 1,0	9.3	77.6	141
0518 056	7 x 1,0	9.3	87.2	146
0518 057	10 x 1,0	11.7	121.2	207
0518 058	12 x 1,0	12.3	141.4	239
0518 059	14 x 1,0	12.8	161.9	266
0518 060	16 x 1,0	13.3	182.4	296
0518 061	19 x 1,0	14.2	213.0	340
0518 062	21 x 1,0	14.8	233.7	372
0518 063	24 x 1,0	16.3	273.8	424
0518 064	27 x 1,0	16.6	303.1	460
0518 065	30 x 1,0	17.1	333.5	499
0518 066	36 x 1,0	18.5	394.8	592

YStYekw 300/500 V

YStYekwżo 300/500 V

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
0518 067	37 x 1,0	18.5	404.4	597
0518 068	40 x 1,0	19.1	435.1	641
0518 069	44 x 1,0	20.5	477.8	698
0518 070	48 x 1,0	20.8	517.2	745
0518 071	52 x 1,0	21.3	557.1	795
0518 072	56 x 1,0	21.9	597.4	849
0518 073	60 x 1,0	22.9	659.9	935
0518 001	2 x 1,5	7.9	45.2	87
0518 074	3 x 1,5	8.2	60.3	105
0518 075	4 x 1,5	8.8	76.6	126
0518 076	5 x 1,5	9.9	92.5	159
0518 077	6 x 1,5	10.5	108.5	184
0518 078	7 x 1,5	10.5	122.9	193
0518 079	10 x 1,5	13.0	172.0	267
0518 080	12 x 1,5	13.4	201.8	302
0518 081	14 x 1,5	14.2	232.2	345
0518 082	16 x 1,5	14.8	262.5	386
0518 083	19 x 1,5	15.6	314.5	443
0518 084	21 x 1,5	16.3	345.8	487
0518 085	24 x 1,5	17.9	393.6	546
0518 086	27 x 1,5	18.4	437.7	603
0518 087	30 x 1,5	19.0	482.8	656
0518 088	36 x 1,5	20.4	573.5	771
0518 089	37 x 1,5	20.4	587.9	780
0518 090	40 x 1,5	21.1	633.3	839
0518 091	44 x 1,5	23.0	717.9	945
0518 092	48 x 1,5	23.4	777.2	1012
0518 093	52 x 1,5	24.0	837.4	1081
0518 094	56 x 1,5	24.6	897.4	1154
0518 095	60 x 1,5	25.3	958.0	1228
0518 003	2 x 2,5	8.7	67.0	112
0518 096	3 x 2,5	9.1	91.5	139
0518 097	4 x 2,5	10.2	117.7	178
0518 098	5 x 2,5	11.0	143.4	214
0518 099	6 x 2,5	12.0	169.4	256
0518 100	7 x 2,5	12.0	193.4	270
0518 101	10 x 2,5	14.9	272.4	376
0518 102	12 x 2,5	15.5	328.6	436
0518 103	14 x 2,5	16.2	378.8	492
0518 104	16 x 2,5	16.9	428.9	552
0518 105	19 x 2,5	17.8	503.9	629
0518 106	21 x 2,5	18.8	554.2	700
0518 107	24 x 2,5	20.7	632.0	787

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
0518 108	27 x 2,5	21.1	705.3	864
0518 109	30 x 2,5	21.8	779.5	944
0518 110	36 x 2,5	23.8	951.7	1148
0518 111	37 x 2,5	23.8	975.7	1162
0518 112	40 x 2,5	24.6	1051.0	1251
0518 113	44 x 2,5	26.7	1181.4	1387
0518 114	48 x 2,5	27.1	1279.6	1488
0518 115	52 x 2,5	27.8	1379.2	1593
0518 116	56 x 2,5	28.6	1479.5	1704
0518 117	60 x 2,5	29.4	1579.8	1817
0518 118	2 x 4,0	10.5	98.9	160
0518 119	3 x 4,0	11.0	138.6	202
0518 120	4 x 4,0	12.1	179.3	254
0518 121	5 x 4,0	13.1	220.3	309
0518 122	7 x 4,0	14.3	299.7	393
0518 123	3 x 6,0	12.6	199.9	279
0518 124	4 x 6,0	13.7	260.2	347
0518 125	5 x 6,0	15.1	327.4	438
0518 126	7 x 6,0	16.4	446.6	556
0518 127	3 x 10,0	15.5	328.6	445
0518 128	4 x 10,0	16.9	428.9	560
0518 129	5 x 10,0	18.6	529.5	700
0518 130	7 x 10,0	20.2	726.6	901
0518 131	3 x 16,0	17.9	508.8	638
0518 132	4 x 16,0	19.7	667.4	820
0518 133	5 x 16,0	21.5	826.6	1021
0518 134	7 x 16,0	23.8	1162.9	1361
0518 135	3 x 25,0	20.6	775.8	897
0518 136	4 x 25,0	23.0	1044.3	1182
0518 137	5 x 25,0	25.1	1293.1	1473
0518 138	3 x 35,0	24.3	1097.8	1250
0518 139	4 x 35,0	26.9	1470.5	1627
0518 140	5 x 35,0	29.5	1820.3	2037
0518 141	3 x 50,0	29.9	1582.4	1810
0518 142	4 x 50,0	33.5	2080.4	2374
0518 143	5 x 50,0	37.0	2600.9	2999

Other cross-sections and conductor counts available on request.

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