

YSLY (Controlflex)

Control cable, unshielded

DESIGN



- 1 | Copper conductor, fine wire (–F)
- 2 | Core insulation (PVC), cores stranded in layers
- 3 | Sheath (PVC grey RAL 7001 or blue RAL 5012 for intrinsically safe installations), partially oil resistant

APPLICATION

For the electrical connection of components of production machines and machine tools. Shows some resistance to all-purpose mineral oil and is not designed for permanent usage in oil baths. The cable is designed for use in buildings and should be installed with mechanical protection.

TECHNICAL DATA



Standard:
SKW – internal standard



Rated voltage:
300/500 V



Test voltage:
2 kV/50 Hz



Temperature range:
 laying temperature: min. –5 °C
 operating temperature:
 –fixed: –50 °C to +70 °C
 – in motion: –5 °C to +70 °C
 conductor temperature: max. +70 °C
 short-circuit temperature: max. +150 °C/5 s



Bending radius (min.):
4 x Ø of cable



Core identification:
black with number printing, protective conductor green/yellow (outer layer)



Fire properties:
flame retardant:
EN 60332-1-2

Number of cores x nominal cross section (mm ²)	Max. conductor resistance (Ω/km)	Outer diameter (mm) ca.	Total weight (kg/km) ca.	Standard lengths/packing (m)
YSLY (Controlflex)				
2 X 0.5	39.000	4.8	40	100 R, 500 Sp
3 G 0.5	39.000	5.0	45	100 R, 500 Sp
4 G 0.5	39.000	5.7	55	100 R, 500 Sp
5 G 0.5	39.000	6.2	65	100 R, 500 Sp
7 G 0.5	39.000	6.7	85	100 R, 500 Sp
10 G 0.5	39.000	8.8	130	500 Sp, 1,000 Sp
12 G 0.5	39.000	9.0	145	100 R, 500 Sp
14 G 0.5	39.000	9.5	160	500 Sp, 1,000 Sp
16 G 0.5	39.000	10.0	180	500 Sp, 1,000 Sp
18 G 0.5	39.000	10.7	205	500 Sp, 1,000 Sp
21 G 0.5	39.000	11.3	230	500 D, 1,000 D
25 G 0.5	39.000	12.9	285	500 D, 1,000 D
30 G 0.5	39.000	13.5	330	500 D, 1,000 D
34 G 0.5	39.000	14.5	375	500 D, 1,000 D
40 G 0.5	39.000	15.0	410	500 D, 1,000 D
50 G 0.5	39.000	17.0	520	500 D, 1,000 D
61 G 0.5	39.000	19.5	620	500 D, 1,000 D
2 X 0.75	26.000	5.2	45	100 R, 500 Sp



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3 G 0.75	26.000	5.4	55	100 R, 500 Sp
4 G 0.75	26.000	6.2	70	100 R, 500 Sp
5 G 0.75	26.000	6.8	85	100 R, 500 Sp
6 G 0.75	26.000	7.0	100	500 Sp, 1,000 Sp
7 G 0.75	26.000	7.3	105	100 R, 500 Sp
10 G 0.75	26.000	9.6	165	500 Sp, 1,000 Sp
12 G 0.75	26.000	9.9	185	100 R, 500 Sp
16 G 0.75	26.000	11.4	240	500 D, 1,000 D
18 G 0.75	26.000	11.9	270	500 D, 1,000 D
21 G 0.75	26.000	12.8	305	500 D, 1,000 D
25 G 0.75	26.000	14.3	380	500 D, 1,000 D
34 G 0.75	26.000	16.3	500	500 D, 1,000 D
41 G 0.75	26.000	18.3	620	500 D, 1,000 D
50 G 0.75	26.000	19.2	700	500 D, 1,000 D
61 G 0.75	26.000	20.5	790	500 D, 1,000 D
80 G 0.75	26.000	23.0	1,000	500 D, 1,000 D
2 X 1	19.500	5.5	55	100 R, 500 Sp
3 G 1	19.500	5.9	65	100 R, 500 Sp
4 G 1	19.500	6.5	80	100 R, 500 Sp
5 G 1	19.500	7.2	100	100 R, 500 Sp
7 G 1	19.500	8.0	130	100 R, 500 Sp
10 G 1	19.500	10.0	200	500 D, 1,000 D
12 G 1	19.500	10.8	225	500 D, 1,000 D
14 G 1	19.500	11.3	250	500 D, 1,000 D
16 G 1	19.500	12.0	290	500 D, 1,000 D
18 G 1	19.500	12.7	320	500 D, 1,000 D
21 G 1	19.500	13.6	370	500 D, 1,000 D
25 G 1	19.500	14.5	460	500 D, 1,000 D
30 G 1	19.500	16.4	530	500 D, 1,000 D
34 G 1	19.500	17.4	595	500 D, 1,000 D
50 G 1	19.500	20.9	855	500 D, 1,000 D
61 G 1	19.500	24.0	1,050	500 D, 1,000 D
2 X 1.5	13.300	6.3	70	100 R, 500 Sp
3 G 1.5	13.300	6.6	85	100 R, 500 Sp
4 G 1.5	13.300	7.3	105	100 R, 500 Sp
5 G 1.5	13.300	8.2	135	100 R, 500 Sp
6 G 1.5	13.300	8.5	160	500 Sp, 1,000 Sp
7 G 1.5	13.300	8.9	170	500 D, 1,000 D
10 G 1.5	13.300	11.6	265	500 D, 1,000 D
12 G 1.5	13.300	12.0	295	500 D, 1,000 D
14 G 1.5	13.300	12.8	340	500 D, 1,000 D
16 G 1.5	13.300	13.5	380	500 D, 1,000 D

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YSLY (Controlflex)				
18 G 1.5	13.300	14.4	430	500 D, 1,000 D
21 G 1.5	13.300	15.2	490	500 D, 1,000 D
25 G 1.5	13.300	17.5	615	500 D, 1,000 D
32 G 1.5	13.300	18.5	700	500 D, 1,000 D
34 G 1.5	13.300	19.7	795	500 D, 1,000 D
42 G 1.5	13.300	22.2	1,000	500 D, 1,000 D
50 G 1.5	13.300	23.6	1,150	500 D, 1,000 D
61 G 1.5	13.300	27.0	1,450	500 D, 1,000 D
2 X 2.5	7.980	7.6	110	100 R, 500 Sp
3 G 2.5	7.980	8.1	135	100 R, 500 Sp
4 G 2.5	7.980	9.0	170	100 R, 500 Sp
5 G 2.5	7.980	10.1	215	100 R, 500 Sp
7 G 2.5	7.980	11.2	275	500 D, 1,000 D
10 G 2.5	7.980	14.4	420	500 D, 1,000 D
12 G 2.5	7.980	15.1	475	500 D, 1,000 D
16 G 2.5	7.980	17.1	620	500 D, 1,000 D
18 G 2.5	7.980	18.0	690	500 D, 1,000 D
25 G 2.5	7.980	22.1	995	500 D, 1,000 D
34 G 2.5	7.980	30.0	1,390	500 D, 1,000 D
50 G 2.5	7.980	32.5	1,860	500 D, 1,000 D
3 G 4	4.950	9.9	205	500 D, 1,000 D
4 G 4	4.950	11.2	265	500 D, 1,000 D
5 G 4	4.950	12.6	335	500 D, 1,000 D
7 G 4	4.950	13.7	425	500 D, 1,000 D
3 G 6	3.300	11.2	280	500 D, 1,000 D
4 G 6	3.300	12.6	360	500 D, 1,000 D
5 G 6	3.300	14.1	455	500 D, 1,000 D
7 G 6	3.300	15.6	590	500 D, 1,000 D
4 G 10	1.910	16.5	620	500 D, 1,000 D
5 G 10	1.910	18.4	780	500 D, 1,000 D
7 G 10	1.910	20.1	1,010	500 D, 1,000 D
4 G 16	1.210	19.6	940	500 D, 1,000 D
5 G 16	1.210	21.9	1,180	500 D, 1,000 D
7 G 16	1.210	23.9	1,520	500 D, 1,000 D
4 G 25	0.780	27.0	1,590	500 D, 1,000 D
5 G 25	0.780	30.0	2,000	500 D, 1,000 D
7 G 25	0.780	38.0	2,560	500 D, 1,000 D
4 G 35	0.554	29.0	2,110	500 D, 1,000 D
5 G 35	0.554	33.0	2,640	500 D, 1,000 D
4 G 50	0.368	35.0	2,950	500 D, 1,000 D
4 G 70	0.272	40.0	4,260	500 D, 1,000 D

Subject to technical changes.