



• Description

SY Cables, also known as armoured flexible control cables, shielded flex, or simply armoured flex, are robust and durable cables suitable for internal dry, damp, or wet environments (including oil-water mixtures). They can also be used outdoors when adequately protected against direct sunlight. They are also referred to by their constructional reference: YSLYSY cables for the PVC sheathed variation.

• Application

SY Cable finds widespread use in industrial applications as interconnecting cables in control equipment or machines subjected to medium mechanical stresses. These flexible instrumentation cables can be utilized in installations requiring free movement without tensile stresses and without forced guidance systems.

• Performance

Voltage Rating: 300/500V

Temperature Rating:

Fixed: -40°C to +80°C

Flexed: -5°C to +70°C

Flame Retardant: According to IEC/EN 60332-1-2

• Construction

Conductor: Class 5 flexible copper conductor

Sheath

SY Cable LSZH:

SY-OZ / HSLHSH-OZ - LSZH sheathed cable with black numbered cores

SY-JZ / HSLHSH-JZ - LSZH sheathed cable with black numbered cores and G/Y earth

SY-OB / HSLHSH-OB - LSZH sheathed cable with colored cores

SY-JB / HSLHSH-JB - LSZH sheathed cable with colored cores including G/Y earth

Veriflex SY Cable PVC:

SY-OZ / YSLYSY-OZ - PVC sheathed cable with black numbered cores

SY-JZ / YSLYSY-JZ - PVC sheathed cable with black numbered cores and G/Y earth

SY-OB / YSLYSY-OB - PVC sheathed cable with colored cores

SY-JB / YSLYSY-JB - PVC sheathed cable with colored cores including G/Y earth

Core Identification

2-core: Brown, Blue

3-core: Blue, Brown, Green/Yellow

4-core: Blue, Brown, Black, Green/Yellow

5-core: Blue, Brown, Black, Grey, Green/Yellow

6-core: Green/Yellow + 5 numbered

7-core: Green/Yellow + 6 numbered

12-core: Green/Yellow + 11 numbered

18-core: Green/Yellow + 17 numbered

25-core: Green/Yellow + 24 numbered

• Specification

-DIN VDE 0207 standard 300/500V SY PVC YSLYSY SY LSZH Control Cable

• Eastful Cable Lab



We have CNAS Accredited Facility to assure conformity assessment services with a focus on quality, expertise, and customer satisfaction.

CNAS has international mutual recognition among IAF, ILAC, APLAC and PAC.

• Accreditation

We meet the requirements of ISO9001, ISO14001, ISO45001 and ISO50001 and our cables have certificate of CCC, RoHS, CASC, UL, cUL, TÜV Rheinland and CCS.



• National Green Factory



Our facility has been awarded of National Green Factory by Ministry of Industry and Information Technology of China.

We are committed to the development of high-end, intelligent and green manufacturing industry.

*The overall energy consumption level of green factories is better than the energy efficiency benchmark level.

Technical Parameters

SY PVC (YSLYSY) Control Cable Physical Performance					
No. of Cores	Nominal Cross Section Area	Nominal Thickness of Insulation	Nominal Thickness of Outer Sheath	Nominal Overall Dia.	Nominal Weight
-	mm ²	mm	mm	mm	kg/km
2	0.75	0.4	0.8	7.2	79.3
2	1	0.4	0.8	7.6	91
2	1.5	0.4	0.8	8.2	110
2	2.5	0.5	0.8	9.4	147
3	0.75	0.4	0.8	7.5	91.3
3	1	0.4	0.8	7.9	104
3	1.5	0.4	0.8	8.6	129
3	2.5	0.5	0.9	10.1	185
3	4	0.6	1	12	269
3	6	0.65	1.1	13.5	354
3	10	0.75	1.3	16.9	579
3	16	0.75	1.5	19	785
3	25	0.9	1.8	23.5	1211
3	35	0.95	2	26.7	1642
4	0.75	0.4	0.8	8	107
4	1	0.4	0.8	8.5	124
4	1.5	0.4	0.8	9.2	151
4	2.5	0.5	0.9	11.1	230
4	4	0.6	1.1	13.2	332
4	6	0.65	1.2	14.8	442
4	10	0.75	1.5	18.8	735
4	16	0.75	1.6	20.9	988
4	25	0.9	2	26	1536
4	35	0.95	2.2	30	2098
4	50	1.25	2.6	35.3	2968
4	70	1.25	3	40.5	3822
4	95	1.6	3.6	49.4	5369
5	0.75	0.4	0.8	8.5	120
5	1	0.4	0.8	9.1	140
5	1.5	0.4	0.9	10.1	182
5	2.5	0.5	1	12.1	266
5	4	0.6	1.1	14.2	382
5	6	0.65	1.3	16.5	525
5	10	0.75	1.6	20.6	873
5	16	0.75	1.8	23.4	1207
5	25	0.9	2.2	29	1875
5	35	0.95	2.4	32.9	2577

● Technical Parameters

No. of Cores	Nominal Cross Section Area	Nominal Thickness of Insulation	Nominal Thickness of Outer Sheath	Nominal Overall Dia.	Nominal Weight
-	mm ²	mm	mm	mm	kg/km
7	0.75	0.4	0.8	9.1	147
7	1	0.4	0.9	9.9	181
7	1.5	0.4	0.9	11	226
7	2.5	0.5	1.1	13.2	338
12	0.75	0.4	1	10.9	237
12	1	0.4	1	12.7	280
12	1.5	0.4	1.1	14.2	365
12	2.5	0.4	1.2	17.5	572
18	0.75	0.4	1.1	13.7	322
18	1	0.4	1.2	14.9	396
18	1.5	0.4	1.3	16.8	521
18	2.5	0.4	1.3	20.4	809
25	0.75	0.4	1.3	16	438
25	1	0.4	1.4	17.6	544
25	1.5	0.4	1.5	19.6	708

Electrical Performance		
Nominal Cross Section Area	Current Carrying Capacities 30°C Continuous Loading	Max. Resistance of Conductor at 20°C
mm ²	A	Ω/km
0.5	9	39
0.75	12	26
1	15	19.5
1.5	18	13.3
2.5	26	7.98
4	34	4.95
6	44	3.3
10	61	1.91
16	82	1.21
25	108	0.78
35	135	0.554

● Technical Parameters

SY LSZH Control Cable Physical Performance							
No. of Cores	Nominal Cross Section Area	Nominal Thickness of Insulation	Nominal Thickness of Bedding	Nominal Dia. of Gswb	Nominal Dia. of Sheath	Nominal Overall Dia.	Nominal Weight
-	mm ²	mm	mm	mm	mm	mm	kg/km
2	1.5	0.5	0.5	0.24	0.8	8	109
3	1	0.5	0.5	0.24	1	8	114
3	1.5	0.5	0.5	0.24	1	9	138
3	2.5	0.6	0.5	0.24	1	10	188
3	4	0.6	0.6	0.24	1	12	256
3	6	0.7	0.6	0.24	1.1	14	352
4	1.5	0.5	0.5	0.24	1	10	161
4	2.5	0.6	0.5	0.24	1	11	223
4	4	0.6	0.6	0.24	1	13	310
4	6	0.7	0.6	0.24	1.1	15	430
5	1.5	0.5	0.5	0.24	1	10	189
5	2.5	0.6	0.6	0.24	1	12	264
5	6	0.7	0.6	0.24	1.2	16	523
5	10	0.8	0.8	0.3	1.2	20	822
5	16	0.9	0.8	0.3	1.4	24	1217

Electrical Performance		
Nominal Cross Section Area	Current Carrying Capacity	Max. Resistance of Conductor at 20°C
	in Conduit	in Air
mm ²	A	A
1	12	20
1.5	15	24
2.5	20	32
4	25	42
6	33	54
10	45	73
16	61	98