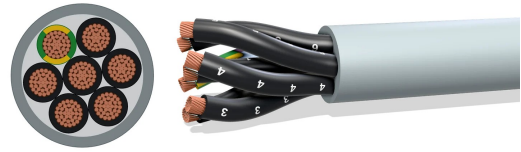


Application

YY-LSZH is a flexible, unscreened multicore control cable with a halogen-free, low-smoke outer sheath, intended for control, signalling and power connections in machinery, switchgear, production lines and building installations where the emission of corrosive or toxic gases in a fire must be kept to a minimum. Fine-stranded class 5 copper conductors make the cable suitable for fixed installation and for occasional, free movement without tensile load. It is intended for dry, damp and wet indoor locations and for use in enclosed outdoor locations; it is not designed for continuous flexing, drag-chain applications, direct burial or unprotected outdoor exposure. The numbered black cores with a green/yellow earth core allow fast, unambiguous termination.



CONSTRUCTION

Conductor	Plain (bare) annealed copper, fine-stranded, class 5 to IEC/EN 60228.
Insulation	Halogen-free thermoplastic compound (LSZH).
Screen	None (unscreened).
Sheath	Halogen-free, low-smoke thermoplastic compound (LSZH), grey.
Core identification	Black cores with white numbers; from 3 cores with a green/yellow earth core in the outer layer (J configuration). 2-core without green/yellow.

ELECTRICAL & THERMAL PROPERTIES

Rated voltage Uo/U	300/500 V.
Standard	Design based on EN 50525-3-11; halogen-free insulation compound to EN 50363-7 (VDE 0207-363-7).
Flame-retardant	IEC/EN 60332-1-2 (single cable) and IEC/EN 60332-3-24 (bunched cables).
Halogen-free	Yes, halogen-free insulation and sheath; low smoke density to IEC/EN 61034-2.
Conductor standard	IEC/EN 60228 class 5.
Max. conductor temperature	+70°C.
Permitted outer cable temperature, fixed	-20°C to +70°C.
Permitted outer cable temperature, moved	-5°C to +70°C.
Min. bending radius, fixed	6 × outer diameter.
Min. bending radius, moved	15 × outer diameter.
Reaction to fire (CPR)	Dca (EN 50575, halogen-free); B2ca on request. As a flexible cable it falls outside CPR scope when used only for the connection of mobile equipment.

DIMENSIONS & TECHNICAL DATA

Cores × mm ²	Cond. R @20°C (Ω/km)	Nominal O.D. (mm)	Weight (kg/km)
2 × 0.5	39	4.8	43
3 × 0.5	39	5.1	50
4 × 0.5	39	5.5	60
5 × 0.5	39	6.2	71
7 × 0.5	39	6.7	84
8 × 0.5	39	7.4	101
10 × 0.5	39	8.6	121
12 × 0.5	39	9.1	142
16 × 0.5	39	10	183
18 × 0.5	39	10.7	204
20 × 0.5	39	11.3	227
25 × 0.5	39	12.6	283
30 × 0.5	39	13.5	324
34 × 0.5	39	14.7	367
37 × 0.5	39	14.7	381
41 × 0.5	39	15.8	417
42 × 0.5	39	15.8	454
50 × 0.5	39	17.3	519
61 × 0.5	39	18.5	635
65 × 0.5	39	19.8	694
2 × 0.75	26	5.3	47
3 × 0.75	26	5.6	56
4 × 0.75	26	6.3	69
5 × 0.75	26	6.9	83
7 × 0.75	26	7.7	114
8 × 0.75	26	8.3	136
10 × 0.75	26	9.8	172
12 × 0.75	26	10.1	183
16 × 0.75	26	11.4	241
18 × 0.75	26	12.2	266
20 × 0.75	26	12.8	291
25 × 0.75	26	14.3	374
30 × 0.75	26	15.3	450
34 × 0.75	26	16.7	517
37 × 0.75	26	16.7	541
41 × 0.75	26	18.2	611
42 × 0.75	26	18.2	621
50 × 0.75	26	19.8	742
61 × 0.75	26	21.2	853
65 × 0.75	26	22.6	909
100 × 0.75	26	27.5	1220
2 × 1	19.5	5.6	63
3 × 1	19.5	6.1	74
4 × 1	19.5	6.7	90
5 × 1	19.5	7.5	109

Cores × mm ²	Cond. R @20°C (Ω/km)	Nominal O.D. (mm)	Weight (kg/km)
7 × 1	19.5	8.1	151
8 × 1	19.5	9	184
10 × 1	19.5	10.6	224
12 × 1	19.5	10.9	243
16 × 1	19.5	12.3	314
18 × 1	19.5	12.9	361
20 × 1	19.5	13.8	387
25 × 1	19.5	15.4	496
34 × 1	19.5	17.9	670
37 × 1	19.5	17.9	713
41 × 1	19.5	19.5	784
42 × 1	19.5	19.5	824
50 × 1	19.5	21.3	952
61 × 1	19.5	22.7	1140
65 × 1	19.5	24.3	1201
2 × 1.5	13.3	6.4	70
3 × 1.5	13.3	6.8	94
4 × 1.5	13.3	7.6	112
5 × 1.5	13.3	8.3	141
7 × 1.5	13.3	9.2	191
8 × 1.5	13.3	9.9	224
10 × 1.5	13.3	12	282
12 × 1.5	13.3	12.4	311
16 × 1.5	13.3	13.9	392
18 × 1.5	13.3	14.8	450
20 × 1.5	13.3	15.6	497
25 × 1.5	13.3	17.6	630
34 × 1.5	13.3	20.2	842
37 × 1.5	13.3	20.2	897
50 × 1.5	13.3	24.2	1277
61 × 1.5	13.3	25.8	1460
65 × 1.5	13.3	27.8	1612
2 × 2.5	7.98	7.8	118
3 × 2.5	7.98	8.3	151
4 × 2.5	7.98	9.3	181
5 × 2.5	7.98	10.1	224
7 × 2.5	7.98	11.2	316
8 × 2.5	7.98	12.3	370
10 × 2.5	7.98	14.8	451
12 × 2.5	7.98	15.3	499
16 × 2.5	7.98	17.1	720
18 × 2.5	7.98	18.2	769
20 × 2.5	7.98	19.4	911
25 × 2.5	7.98	21.6	1047
30 × 2.5	7.98	23	1280
2 × 4	4.95	9.2	199
3 × 4	4.95	9.8	247

Cores × mm ²	Cond. R @20°C (Ω/km)	Nominal O.D. (mm)	Weight (kg/km)
4 × 4	4.95	10.9	299
5 × 4	4.95	12.1	369
7 × 4	4.95	13.4	463
8 × 4	4.95	14.7	601
10 × 4	4.95	17.6	698
12 × 4	4.95	18.2	790
16 × 4	4.95	20.5	1130
18 × 4	4.95	21.6	1280
2 × 6	3.3	11	266
3 × 6	3.3	11.9	360
4 × 6	3.3	13.2	429
5 × 6	3.3	14.7	529
7 × 6	3.3	16.2	631
2 × 10	1.91	13.8	440
3 × 10	1.91	14.9	550
4 × 10	1.91	16.6	708
5 × 10	1.91	18.3	862
7 × 10	1.91	20.2	1124
2 × 16	1.21	17.6	642
3 × 16	1.21	18.7	830
4 × 16	1.21	20.8	1060
5 × 16	1.21	22.8	1270
7 × 16	1.21	25.2	1794
3 × 25	0.78	22.7	1190
4 × 25	0.78	25.2	1594
5 × 25	0.78	27.9	2014
3 × 35	0.554	26.3	1590
4 × 35	0.554	29.2	2200
5 × 35	0.554	32.3	2693
3 × 50	0.386	31	2571
4 × 50	0.386	34.4	3087
5 × 50	0.386	38.3	3980
3 × 70	0.272	36.2	3207
4 × 70	0.272	40.3	4077
5 × 70	0.272	44.7	5501
3 × 95	0.206	41.7	4708
4 × 95	0.206	46.4	5590
5 × 95	0.206	51.5	6972
3 × 120	0.161	46.2	5515
4 × 120	0.161	51.4	7100

Dimensions and weights are nominal manufacturer values of the leading reference source; conductor resistance is the maximum value per IEC/EN 60228 class 5; all values are indicative and non-binding.