



### Applications

YY LSZH cable for instrumentation and control equipment for tooling machinery, production lines, and in flexible applications with free movement and no tensile load. Suitable for use in dry, ambient and wet rooms. These cables are not suitable for outdoor or underground installations. Designed to offer a flexible solution for signalling, measuring and control applications. This range of cables are not only flexible but offer heat and oil protection.

### Voltage Rating

300/500V

### Temperature rating

Fixed: -40°C to +80°C

Flexed: -5°C to +70°C

### Minimum Bending Radius

Fixed: 6 x overall diameter

Flexed: 15 x overall diameter

### Conductor

Class 5 flexible plain copper

### Insulation

LSZH (Low Smoke Zero Halogen)

### Sheath

LSZH (Low Smoke Zero Halogen)

### Core Identification

Black with White number

From 3 cores: Black with White number + Green/Yellow

Colour-coded cores available upon request Sheath

### Colour

Grey

### Standards:

VDE 0207-363-3, VDE 0482-332-1-2, VDE 819-102, VDE 0207-303-7

Flame Retardant according to IEC/EN 60332-1-2 IEC/EN 60332-3-24

Low Smoke Zero Halogen according to IEC/EN 60754-1/2, IEC/EN 61034-1/2

### Construction Parameters

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	NOMINAL THICKNESS OF INSULATION mm	NOMINAL THICKNESS OF OUTER SHEATH mm	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
2	0.5	0.40	0.7	4.8	36
2	0.75	0.40	0.7	5.2	46
2	1	0.40	0.7	5.6	56
2	1.5	0.40	0.8	6.4	73
2	2.5	0.50	0.9	7.6	113

3	0.5	0.40	0.7	5.1	44
3	0.75	0.40	0.7	5.5	55
3	1	0.40	0.8	6.1	69
3	1.5	0.40	0.8	6.8	91
3	2.5	0.50	0.9	8.3	140
3	4	0.60	1	10	210
3	6	0.65	1.10	11.5	293
3	10	0.75	1.40	14.9	500
3	16	0.75	1.50	16.8	704
4	0.5	0.40	0.7	5.5	54
4	0.75	0.40	0.8	6.2	70
4	1	0.40	0.8	6.7	85
4	1.5	0.40	0.9	7.6	116
4	2.5	0.50	1	9.3	179
4	4	0.60	1.10	11.2	269
4	6	0.65	1.20	12.8	374
4	10	0.75	1.50	16.6	608
4	16	0.75	1.60	18.7	844
4	25	0.90	2	23.6	1327
4	35	0.95	2.20	27.2	1790
5	0.5	0.40	0.8	6.2	64
5	0.75	0.40	0.8	6.7	83
5	1	0.40	0.9	7.5	104
5	1.5	0.40	0.9	8.3	136
5	2.5	0.50	1.10	10.3	213
5	4	0.60	1.20	12.4	321
5	6	0.65	1.30	14.3	447
5	10	0.75	1.60	18.4	760
5	16	0.75	1.80	20.9	1064
5	25	0.90	2.20	26.4	1673
7	0.5	0.40	0.8	6.7	81
7	0.75	0.40	0.9	7.5	108
7	1	0.40	0.9	8.1	130
7	1.5	0.40	1	9.2	177
7	2.5	0.50	1.10	11.2	277
7	4	0.60	1.30	13.7	423
7	6	0.65	1.40	15.7	593
8	0.5	0.40	0.9	7.5	95
8	1	0.40	1	9	150
8	1.5	0.40	1	10	200
12	0.5	0.40	1	9.1	139
12	0.75	0.40	1	9.9	179
12	1	0.40	1.10	10.9	225
12	1.5	0.40	1.20	12.4	302

18	0.5	0.40	1.1	10.7	201
18	0.75	0.40	1.20	11.9	230
18	1	0.40	1.20	12.9	324
18	1.5	0.40	1.40	14.8	446
18	2.5	0.50	1.60	18.2	704
25	0.5	0.40	1.2	12.9	285
25	0.75	0.40	0.130	14.3	372
25	1	0.40	1.40	15.7	462
25	1.5	0.40	1.60	18	627
25	2.5	0.50	1.90	22.3	997
34	0.75	0.40	1.50	16.3	492
34	1	0.40	1.60	17.9	617
34	1.5	0.40	1.70	20.2	833

**ELECTRICAL CHARACTERISTICS**

NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	CURRENT CARRYING CAPACITES 30° C CONTINOUS LOADING A	MAXIMUM RESISTANCE OF CONDUCTOR AT 20° C ohms/km
0.5	9	39
0.75	12	26
1	15	19.5
1.5	18	13.3
2.5	23	7.98
4	34	4.95
6	44	3.3
10	61	1.91
16	82	1.21
25	108	0.780
35	135	0.554