



These flexible un-braided cables are used for connecting, measuring, checking and control applications. They are suitable use indoors in dry or moist areas. May be available with UV stabilized sheath for external installations.

LSZH cables ensure increased safety in the case of fire due to the virtual elimination of toxic fumes if burnt. Pronounced advantages when compared to PVC cabling: low fire load, low smoke emission, reduced fire propagation.

**Construction**

- fine stranded plain copper conductors
- low smoke zero halogen (LSZH) core insulation
- cores twisted in layers
- grey LSZH outer sheath

**Technical**

conductor stranding:	according to class 5 (VDE 0295 / IEC 60228 / BS EN 60228:2005)
bend radius:	6 x overall diameter (O/D) fixed, 15 x O/D flexing
voltage rating:	300/500V operating, 2000V test
current rating:	see YY, SY & CY derivative chart
temperature range:	-5°C to +70°C flexible, -40°C to +80°C static
standards:	construction generally to BS6500 & VDE0250
	flame retardant according to IEC 60332-1-3, VDE 0482-332-1-1
	smoke emission according to IEC 61034-1 & 61034-2, BS 7622 part 1 & 2
	halogen acid gas emission according to IEC 60754-1 & 60754-2
core identification:	OZ, usually 2 core = numbered black cores without earth (green/yellow)
	NR, usually 3+ cores = numbered black cores with earth (inc. in core count)

Number of Cores	Conductor Area (mm <sup>2</sup> )	Overall Diameter (mm)	Overall Weight (kg/km)	Number of Cores	Conductor Area (mm <sup>2</sup> )	Overall Diameter (mm)	Overall Weight (kg/km)
2	0.5	5.0	38	2	0.75	5.3	40
3	0.5	5.4	47	3	0.75	5.8	55
4	0.5	5.9	57	4	0.75	6.2	67
5	0.5	6.4	66	5	0.75	6.8	83
7	0.5	7.1	85	7	0.75	7.5	98
12	0.5	9.0	135	8	0.75	7.6	102
18	0.5	10.7	210	12	0.75	9.8	176
25	0.5	13.4	287	18	0.75	11.6	254

Number of Cores	Conductor Area (mm <sup>2</sup> )	Overall Diameter (mm)	Overall Weight (kg/km)	Number of Cores	Conductor Area (mm <sup>2</sup> )	Overall Diameter (mm)	Overall Weight (kg/km)
25	0.75	14.6	355	2	2.5	8.1	106
34	0.75	17.4	484	3	2.5	8.5	132
				4	2.5	9.4	170
2	1.0	5.8	45	5	2.5	10.4	205
3	1.0	6.2	62	7	2.5	11.6	266
4	1.0	6.9	80	12	2.5	15.1	464
5	1.0	7.4	99	18	2.5	17.9	676
7	1.0	8.1	112	25	2.5	21.1	859
8	1.0	8.5	127				
12	1.0	10.8	215	2	4.0	10.0	145
18	1.0	12.7	310	3	4.0	10.2	202
25	1.0	14.9	427	4	4.0	11.2	258
34	1.0	16.0	460	5	4.0	12.5	323
41	1.0	20.2	708	7	4.0	13.6	389
2	1.5	6.5	67	3	6.0	12.8	280
3	1.5	6.8	82	4	6.0	13.1	375
4	1.5	7.6	108	5	6.0	14.5	468
5	1.5	8.4	126	7	6.0	16.3	577
7	1.5	9.2	162				
8	1.5	10.9	208	3	10.0	14.7	450
12	1.5	12.4	280	4	10.0	15.8	598
18	1.5	14.4	402	5	10.0	18.1	703
25	1.5	17.3	589	7	10.0	22.5	930
34	1.5	20.8	759				
				4	16.0	19.4	930
				5	16.0	23.2	1118

**LSZH Properties:** fairly tough & flexible material resistant to a wide range of oils & chemicals. Guarantees max. 0.5% HCL emissions if burnt. Also known as LSOH & LSHF (low smoke zero halogen/halogen free).

Not to be confused with LSF (low smoke and fume) for which may just mean modified PVC. There is no standard governing the hydrogen chloride (HCL) emissions of LSF so it may still be hazardous if burnt.

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