

These flexible cables are designed for use in stage technology and for the connection of mobile equipment or machinery. Suitable for installation in dry or damp rooms and temporarily outdoors.

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 standard rubber cabling: low fire load, low smoke emission, reduced fire propagation.

**Construction**

- fine stranded plain copper conductors
- halogen free rubber compound core insulation
- cores twisted together
- black low smoke zero halogen (LSZH) rubber compound outer sheath

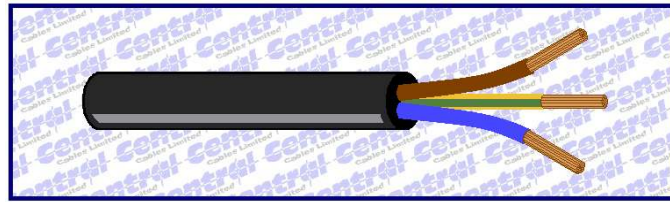
<b><u>Technical</u></b>	
conductor stranding:	according to class 5 (VDE 0295 / IEC 60228 / BS EN 60228:2005)
bend radius:	4 x overall diameter (O/D) fixed, 6 x O/D flexing
voltage rating:	450/750V operating, 2500V test
current rating:	see Flexible Rubber 60°C chart
temperature range:	-5°C to +70°C flexible, -40°C to +70°C static
standards:	construction generally to VDE 0282 Part 13, HD 22.13 S1
	flame retardant according to VDE 0482-266-2-4, IEC 60332-3-24
	smoke emission according to DIN EN 61034, IEC 61034
	halogen acid gas emission according to DIN EN 50267, IEC 60754
core identification:	2 core = coloured according to VDE 0293 without earth (green/yellow)
	3-5 cores = coloured to VDE 0293 with earth (included in core count)
	7+ cores = numbered black cores with earth (included in core count)

<b>SINGLE CORE CABLES</b>						
<b>Conductor Area (mm<sup>2</sup>)</b>	<b>Overall Diameter (mm)</b>	<b>Overall Weight(kg/km)</b>		<b>Conductor Area (mm<sup>2</sup>)</b>	<b>Overall Diameter (mm)</b>	<b>Overall Weight(kg/km)</b>
1.5	6.8	63		25.0	15.6	420
2.5	7.6	76		35.0	17.9	530
4.0	8.7	107		50.0	20.5	750
6.0	9.5	140		70.0	23.3	983
10.0	11.7	230		95.0	25.9	1294
16.0	13.1	290		120.0	28.6	1580



<b>SINGLE CORE CABLES</b>					
<b>Conductor Area (mm<sup>2</sup>)</b>	<b>Overall Diameter (mm)</b>	<b>Overall Weight(kg/km)</b>	<b>Conductor Area (mm<sup>2</sup>)</b>	<b>Overall Diameter (mm)</b>	<b>Overall Weight(kg/km)</b>
150.0	31.4	1950	300.0	40.2	3675
185.0	34.4	2342	400.0	44.9	4839
240.0	38.3	3074	500.0	49.8	6000

<b>MULTICORE CABLES</b>							
<b>Number of Cores</b>	<b>Conductor Area (mm<sup>2</sup>)</b>	<b>Overall Diameter (mm)</b>	<b>Overall Weight (kg/km)</b>	<b>Number of Cores</b>	<b>Conductor Area (mm<sup>2</sup>)</b>	<b>Overall Diameter (mm)</b>	<b>Overall Weight (kg/km)</b>
2	1.0	9.2	112	24	2.5	34.6	1325
3	1.0	10.1	125	27	2.5	36.2	1375
4	1.0	11.1	170	36	2.5	41.8	1949
5	1.0	12.2	204				
				2	4.0	14.2	253
2	1.5	10.2	134	3	4.0	16.2	330
3	1.5	11.9	144	4	4.0	17.7	385
4	1.5	12.9	195	5	4.0	19.8	487
5	1.5	14.2	240	7	4.0	38.4	697
7	1.5	19.1	352	12	4.0	30.9	1042
12	1.5	22.4	586	18	4.0	36.4	1430
18	1.5	26.3	750				
24	1.5	30.7	935	2	6.0	15.8	332
27	1.5	32.2	975	3	6.0	17.9	436
36	1.5	35.2	1297	4	6.0	19.8	511
52	1.5	43.1	1766	5	6.0	22.1	633
2	2.5	12.2	190				
3	2.5	14.0	246	2	10.0	21.3	590
4	2.5	15.3	275	3	10.0	24.1	794
5	2.5	16.9	340	4	10.0	26.5	872
7	2.5	21.5	448	5	10.0	29.1	1080
12	2.5	26.2	724				
18	2.5	29.3	1045				



### MULTICORE CABLES

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	16.0	24.5	820	3	95.0	53.9	4423
3	16.0	27.5	1137	4	95.0	60.9	5720
4	16.0	30.1	1227				
5	16.0	33.3	1522	3	120.0	59.8	5405
				4	120.0	65.8	6965
2	25.0	29.2	1159				
3	25.0	32.9	1670	3	150.0	65.7	6725
4	25.0	36.6	1822	4	150.0	72.7	8644
5	25.0	38.4	2280				
				3	185.0	71.9	8222
3	35.0	37.1	2156	4	185.0	80.1	10598
4	35.0	41.1	2357				
5	35.0	47.0	2700	3	240.0	81.8	10224
				4	240.0	86.4	13312
3	50.0	42.9	2550				
4	50.0	47.5	3253	3	300.0	89.8	12620
				4	300.0	96.5	15200
3	70.0	48.3	3210				
4	70.0	53.8	4306				

**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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