



Flexible cables for connecting, measuring, checking and control applications, the screen protects against electrical interference. Suitable for 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
halogen free core insulation
cores twisted in layers, polyester taped
tinned copper wire braid (TCWB) screen
grey low smoke zero halogen (LSZH) 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, 20 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 BS EN 50525-3-11 & VDE0250 flame retardant according to EN 60332-1-2 (EN-50265-1), IEC 60332-1 smoke emission according to EN 50268-1(-2), IEC 61034-1(-2), EN 61034-2 halogen gas emission according to EN 50267, IEC 60754-1, EN 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 ²)	Overall Diameter (mm)	Overall Weight (kg/km)	Number of Cores	Conductor Area (mm ²)	Overall Diameter (mm)	Overall Weight (kg/km)
2	0.5	5.8	45	25	0.5	13.4	299
3	0.5	6.2	53	34	0.5	15.9	414
4	0.5	6.8	66				
5	0.5	7.2	83	2	0.75	6.0	52
7	0.5	7.8	106	3	0.75	6.3	60
12	0.5	10.1	161	4	0.75	7.1	77
18	0.5	11.8	228	5	0.75	7.6	91

Number of Cores	Conductor Area (mm²)	Overall Diameter (mm)	Overall Weight (kg/km)	Number of Cores	Conductor Area (mm²)	Overall Diameter (mm)	Overall Weight (kg/km)
7	0.75	8.2	113	2	2.5	8.7	118
8	0.75	8.9	152	3	2.5	9.5	182
12	0.75	11.0	196	4	2.5	10.4	195
18	0.75	12.9	278	5	2.5	11.3	226
25	0.75	15.3	377	7	2.5	12.3	285
34	0.75	17.3	504	12	2.5	16.4	476
				18	2.5	19.2	682
2	1.0	6.3	59	25	2.5	22.9	927
3	1.0	6.8	73				
4	1.0	7.5	92	3	4.0	10.5	232
5	1.0	8.0	107	4	4.0	12.3	278
7	1.0	8.6	134	5	4.0	13.5	336
8	1.0	9.5	178	7	4.0	15.0	462
12	1.0	11.9	237				
18	1.0	13.9	336	3	6.0	13.1	310
25	1.0	16.7	464	4	6.0	13.8	390
34	1.0	20.5	672	5	6.0	15.4	455
				7	6.0	17.5	557
2	1.5	7.3	79				
3	1.5	7.7	95	4	10.0	16.9	594
4	1.5	8.4	118	5	10.0	18.9	686
5	1.5	9.7	160				
7	1.5	10.4	197	4	16.0	19.6	843
8	1.5	11.1	227	5	16.0	21.7	1040
12	1.5	13.7	323				
18	1.5	16.2	468	4	25.0	25.1	1230
25	1.5	19.3	636				

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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