



Designed for fixed power and control applications where mechanical protection is not required. Suitable for use indoors, outdoors or laid in concrete but not for direct burial or immersion in water.

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

solid or stranded plain copper conductors  
cross linked polyethylene (XLPE) core insulation  
cores twisted concentrically (in multicores)  
LSZH inner sheath (in multicores)  
black low smoke zero halogen (LSZH) sheath

### Technical

conductor stranding:	up to 16.0mm <sup>2</sup> = solid according to class 1 25.0mm <sup>2</sup> and above = stranded according to class 2 (VDE 0295 / IEC 60228 / BS EN 60228:2005)
bend radius:	12 x overall diameter
voltage rating:	600/1000V operating , 4000V test
current rating:	see N2XY and N2XH derivative chart
temperature range:	-40°C to +90°C operating, -5°C to +90°C during installation
standards:	construction generally to DIN VDE 0276 part 604 flame retardant according to EN 50266-2, IEC 60332-3 smoke emission according to EN 50268-1+2, IEC 61034-1+2 halogen acid gas emission according to EN 50267-2-1, IEC 60754-2
core identification:	single core = black or green/yellow, 2 core = coloured brown & blue 3 to 5 cores = coloured to VDE 0293 with earth (inc. in core count) 6+ cores = numbered black cores with earth (inc. in core count)

### SINGLE CORE CABLES

Conductor Area (mm <sup>2</sup> )	Overall Diameter (mm)	Overall Weight (kg/km)	Conductor Area (mm <sup>2</sup> )	Overall Diameter (mm)	Overall Weight (kg/km)
4.0	9.1	140	25.0	14.1	380
6.0	9.9	160	35.0	15.4	490
10.0	11.0	210	50.0	16.0	620
16.0	12.2	270	70.0	18.0	830



**SINGLE CORE CABLES**

Conductor Area (mm <sup>2</sup> )	Overall Diameter (mm)	Overall Weight (kg/km)	Conductor Area (mm <sup>2</sup> )	Overall Diameter (mm)	Overall Weight (kg/km)
95.0	20.2	1200	185.0	25.8	2200
120.0	22.4	1350	240.0	28.9	2750
150.0	24.4	1700	300.0	30.2	3300

**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	1.5	11.5	180	2	4.0	13.0	270
3	1.5	12.4	189	3	4.0	14.0	291
4	1.5	13.1	208	4	4.0	15.0	352
5	1.5	14.0	243	5	4.0	16.0	410
7	1.5	15.2	306	7	4.0	17.2	530
10	1.5	17.1	480	12	4.0	21.2	800
12	1.5	19.0	520				
14	1.5	19.4	550	2	6.0	13.9	340
19	1.5	21.4	700	3	6.0	15.0	371
24	1.5	22.5	850	4	6.0	16.0	454
30	1.5	26.0	950	5	6.0	17.0	536
2	2.5	12.0	210	2	10.0	15.8	450
3	2.5	13.0	225	3	10.0	16.5	523
4	2.5	14.0	265	4	10.0	18.0	647
5	2.5	15.0	310	5	10.0	19.0	776
7	2.5	17.0	370				
10	2.5	20.0	500	2	16.0	17.8	620
12	2.5	21.0	560	3	16.0	19.0	773
14	2.5	22.0	630	4	16.0	20.0	964
19	2.5	24.0	800				
24	2.5	27.0	990				
30	2.5	28.0	1180				



**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	25.0	22.1	980	3	120.0	34.9	4000
3	25.0	23.3	1200	3½	120.0/70.0	45.0	4800
3½	25.0/16.0	24.0	1250	4	120.0	48.0	5300
4	25.0	26.0	1440				
				3	150.0	39.2	5000
3	35.0	24.9	1590	3½	150.0/70.0	49.0	5750
3½	35.0/16.0	26.0	1640	4	150.0	49.8	6350
4	35.0	29.0	1900				
				3	185.0	44.1	6150
3	50.0	26.2	1800	3½	185.0/95.0	55.0	7200
3½	50.0/25.0	32.0	2200	4	185.0	53.0	7800
4	50.0	32.0	2530				
				3	240.0	49.2	8000
3	70.0	29.2	2450	3½	240.0/120.0	62.0	9150
3½	70.0/35.0	37.0	2950	4	240.0	58.0	10300
4	70.0	37.0	3420				
3	95.0	32.0	3250				
3½	95.0/50.0	41.0	3900				
4	95.0	41.0	4570				

**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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