



These multicore fixed power cables are suitable for use indoors, outdoor, running through ducts or for direct burial. The steel wire armour provides protection against mechanical damage.

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**

- stranded plain copper conductors
- cross linked polyethylene (XLPE) core insulation
- low smoke zero halogen (LSZH) bedding
- galvanised steel wire armour (SWA)
- black LSZH outer sheath

**Technical**

conductor stranding:	according to class 2 (VDE 0295 / IEC 60228 / BS EN 60228:2005)
bend radius:	1.5mm <sup>2</sup> to 16mm <sup>2</sup> = 6 x overall diameter fixed 25.0mm <sup>2</sup> and above = 8 x overall diameter fixed
voltage rating:	600/1000V operating
current rating:	see SWA 70°C chart or SWA 90°C chart
temperature range:	-15°C to +90°C fixed, minimum bending 0°C
standards:	construction generally to BS6724 (where applicable) flame retardant according to EN 50265-2-1, EN 50266 C&A, IEC 60332-1-2, IEC 60332-3-24 (Cat C) smoke emission according to EN 50268-2, IEC 61034 halogen acid gas emission according to EN 50267, IEC 60754-1
core identification:	2-4 cores = coloured to VDE 0293 without earth (green/yellow) may be available with earth on request 5 cores = either coloured to VDE 0293 with earth (inc. in core count) or numbered white cores without earth 7+ cores = numbered white cores without earth

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	12.0	295	5	1.5	14.2	380
3	1.5	12.9	324	7	1.5	15.6	463
4	1.5	13.7	367	12	1.5	20.1	791

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19	1.5	23.2	1030	5	16.0	26.0	1750
27	1.5	27.7	1420	7	16.0	28.1	2150
37	1.5	30.3	1750				
48	1.5	32.3	2100	2	25.0	24.3	1250
				3	25.0	26.9	1720
2	2.5	13.2	340	4	25.0	29.1	2090
3	2.5	13.8	392	5	25.0	31.0	2370
4	2.5	14.7	440				
5	2.5	16.1	480	2	35.0	27.9	1720
7	2.5	17.1	584	3	35.0	29.6	2130
12	2.5	22.0	950	4	35.0	32.1	2590
19	2.5	26.5	1500	5	35.0	35.0	3150
27	2.5	30.7	1928				
37	2.5	33.8	2300	2	50.0	25.0	1750
48	2.5	39.0	3010	3	50.0	28.0	2250
				4	50.0	31.0	2850
2	4.0	14.3	419	5	50.0	38.0	3850
3	4.0	14.9	460				
4	4.0	16.2	550	2	70.0	28.0	2200
5	4.0	18.0	600	3	70.0	32.0	3000
7	4.0	19.7	700	4	70.0	37.0	4100
12	4.0	25.0	1300	5	70.0	43.0	5100
19	4.0	35.2	2500				
				2	95.0	32.0	3000
2	6.0	15.4	490	3	95.0	37.0	4150
3	6.0	16.6	639	4	95.0	40.0	5200
4	6.0	18.3	780	5	95.0	52.0	7700
5	6.0	20.0	900				
7	6.0	21.9	1100	2	120.0	35.0	3600
				3	120.0	40.0	4950
2	10.0	17.9	700	4	120.0	46.0	6700
3	10.0	18.9	860	5	120.0	56.7	9030
4	10.0	21.1	1060				
5	10.0	22.0	1131	2	150.0	37.0	4250
7	10.0	25.0	1500	3	150.0	45.0	6300
				4	150.0	49.0	7900
2	16.0	20.0	900	5	150.0	4.31	10752
3	16.0	22.0	1100				
4	16.0	23.6	1350				

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	185.0	43.0	5500	3	300.0	59.0	11550
3	185.0	49.0	7650	4	300.0	66.0	14800
4	185.0	55.0	9650				
				3	400.0	65.0	14350
2	240.0	48.0	6900	4	400.0	75.0	19300
3	240.0	56.0	9650				
4	240.0	62.0	12400				

**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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