

These flexible general wiring cables are particularly suitable for use in public buildings or computer installations. They can also be referred to by harmonised code H05Z1Z1-F.

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

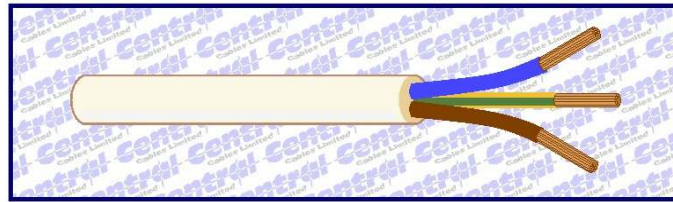
cores twisted together

black or white 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
voltage rating:	300/500V operating
current rating:	see below chart
temperature range:	-5°C to +70°C flexible, -20°C to +70°C static
standards:	construction generally to BS6500 & VDE0250
	smoke emission according to EN 50268, IEC 61034-2
	flame retardant according to EN 50265, IEC 60332-1
	halogen acid gas emission according to EN 50267-2, IEC 60754-1+2
core identification:	2 core = coloured brown & blue
	3 core = coloured brown, blue & green/yellow

Cable Reference Number	Number of Cores	Conductor Area (mm ²)	Current Rating (amps)	Overall Diameter (mm)	Overall Weight (kg/km)
3182B	2	0.75	6	5.8	55
3182B	2	1.0	10	6.6	64
3182B	2	1.5	15	7.6	84



Cable Reference Number	Number of Cores	Conductor Area (mm ²)	Current Rating (amps)	Overall Diameter (mm)	Overall Weight (kg/km)
3183B	3	0.75	6	6.7	67
3183B	3	1.0	10	7.0	77
3183B	3	1.5	15	8.2	106

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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