



Flexible single core cables designed for equipment or panel wiring applications. Particularly suitable for use in public or government buildings, warehouses and computer installations. LSZH cables ensure increased safety in the case of fire due to the virtual elimination of toxic fumes if burnt.

2491B and 6701B are interchangeable terms for the same cable, can also be referred to by harmonised codes H05Z-K & H07Z-K

Construction

fine stranded plain copper conductor
low smoke zero halogen (LSZH) sheath

Pronounced advantages when compared to PVC cabling: low fire load, low smoke emission, reduced fire propagation.

Technical

conductor stranding:	according to class 5 (VDE 0295 / IEC 60228 / BS EN 60228:2005)
bend radius:	5 x overall diameter
voltage rating:	H05Z-K (usually up to 1.0mm ²) = 300/500V operating H07Z-K (usually 1.5mm ² and above) = 450/750V operating
current rating:	see 6701B/2491B chart
temperature range:	-15°C to +90°C flexible or static operating
standards:	construction generally to BS EN 50525-3-41 (formerly BS 7211) flame retardant according to EN 50266, IEC 60332-1-2 smoke emission according to IEC 61034 halogen acid gas emission according to EN 50267, IEC 60754-1+2
sheath colours:	up to 25mm ² = black, brown, blue, green, grey, green/yellow, orange, pink, red, violet, white & yellow above 25mm ² = black sheath only

Conductor Area (mm ²)	Overall Diameter (mm)	Overall Weight (kg/km)
0.5	2.3	10
0.75	2.5	13
1.0	2.6	14
1.5	2.9	19
2.5	3.5	30
4.0	4.1	44



Conductor Area (mm ²)	Overall Diameter (mm)	Overall Weight (kg/km)
6.0	4.6	62
10.0	6.0	106
16.0	6.9	157
25.0	8.8	246
35.0	9.9	336
50.0	11.8	476
70.0	13.5	657
95.0	15.6	873
120.0	17.0	1096
150.0	18.9	1375
185.0	21.5	1678
240.0	24.5	2205

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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