

# ZERO HALOGEN LOW SMOKE

## ZHLS ZERO HALOGEN LOW SMOKE



### BIO CAB ZERO HALOGEN LOW SMOKE

Zero Halogen | Does not catch flame | Does not propagate fire | Non-Toxic and Non-Corrosive

- Applications :** Wiring in all installations where fire safety is more important. Schools, theaters, commercial complexes, air conditioned apartments, high rise buildings, fire alarms and emergency lighting circuits.
- Specifications :** Generally conforms to, IEC 60332-1 & 3, IEEE 383, IEC 60754-1 & 2, IS-8130, IS-694, IS-5831.
- Conductor :** Thin strands of Electrolytic Copper are multi-drawn simultaneously for uniformity of Resistance, Dimension, and Flexibility. The drawn strands are bunched in high precision machines. A circular conductor is thus formed. The conductor is bunched in such a way that it reduces in overall diameter for space saving in high density wiring.
- Insulation :** Specially formulated grade of Halogen free Flame Retardant (ZHFR) compound is used. The performance of the cable in a fire situation is exceptionally good. The insulation does not burn readily. It does not melt and drip. The smoke is negligible, transparent, non toxic. The victims trapped in fire do not suffocate and this facilitates fire fighting operations. Unlike PVC, the smoke emitted is non-corrosive. Thus, the electronic printed circuit boards, hard disks and other sensitive electronic equipments are unaffected.
- Marking :** The cables are market " BIO CAB - ZHLS (Size) 1100 IS:694
- Colours :** Red, Yellow, Blue, Black, Green.

#### Size, Construction and Current rating

Conductor Area Sq. mm	Insulation Thickness mm	Number of strands/ Nominal Dia, of Strands	Max. Overall Diameter mm	Conductor Resistance Ohm/km at 20°C(Max)	Current Rating Amps. Casting	Concealed
1.00	0.7	14/0.3	2.8	18.10	14	13
1.50	0.7	22/0.3	3.1	12.10	18	16
2.50	0.8	36/0.3	3.8	7.41	24	20
4.00	0.8	56/0.3	4.4	4.95	32	26

#### FR Properties

Properties	Test method	Value
Limited Oxygen Index	ASTM - D 2863	31%
Temperature Index	ASTM - D 2863	>250°C
Smoke Density (Light absorption)	ASTM - D 2843	<60%
Acid Gas Generation	IEC - 60754-1	<5%



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