

## HR-FRLSH BUILDING WIRES



### Kanbery Cable Code - HR-FRLSH BUILDING - KAN

#### APPLICATIONS

Kanbery HR-FRLSH wire is used where extra fire safety and heat resistance is required. This wire is highly flexible and used for power distribution for electrical appliances and lighting in houses, commercial complexes, shopping malls, buildings, industries, hospitals, apartments, etc.

#### CHARACTERISTICS

**Voltage Rating**  
Up to and including 1100V

**Temperature Rating**  
Fixed : -15°C to 85°C

**Minimum Bending Radius**  
Fixed : 6 x overall diameter

#### CONSTRUCTION

**Conductor**  
Annealed stranded or Bunched Flexible Copper conductor  
Class-2 | Class-5 as per IS 8130

**Insulation**  
Specially formulated Heat resistant & Flame retardant  
low smoke halogen PVC use As per IS 5831 Type - C With FRLSH

#### Core identification

core: ● Green ● Blue ● Red ● Black  
● Yellow ● Grey ○ White

*Packing : 90 mtr. coil is packed in protective cartons Project packing of 180 mtr. 200 mtr. also available.*

#### STANDARDS

IS 8130 : 2013 IEC 60332-1  
IS 5831 : 1984 ASTM D 2863  
IS 694 : 2010 ASTM D 2843-19

#### THE CABLE LAB

AN ISO/IEC 17025 AND IECEE CBTL ACCREDITED FACILITY

Our world-class testing facility assures the quality and compliance of this cable through a continuous and rigorous testing regime.



#### SUSTAINABILITY COMMITMENT

We are on a journey to Net Zero.

We've committed to near-term emissions reductions and a net-zero target with the Science Based Targets initiative and we're a signatory to the United Nations Global Compact Sustainable Development Goals.

Learn more about embodied carbon and our carbon emissions reduction actions, our comprehensive recycling services, and wider ESG activities for sustainable

operations at: [www.kanberycable.com/company/about-us/esg-sustainability](http://www.kanberycable.com/company/about-us/esg-sustainability)



#### REGULATORY COMPLIANCE

This cable is compliant with European regulation EN 50575 and Bureau of Indian Standards, the Construction Products Regulation.



This cable meets the requirements of the Low Voltage Directive 2014/35/EU and the RoHS Directive 2011/65/EU. RoHS compliance has been tested and confirmed by The Cable Lab as meeting the requirements of the BSI RoHS Trusted Kitemark™.



## DIMENSIONS

### Single Core Industrial Flexible Cable up to 1100V

Nominal cross sectional area of conductor	Number/ Nominal dia of strands	Nominal Insulation Thickness	Max. Overall Diameter	Max. Conductor Resistance at 20 °C	Current Rating	
					Casing	Concealed
Sq.mm	mm	mm	mm	Ohm / km	AMPS	AMPS
0.5	14/0.30*	0.7	2.8	18.1	14	13
0.75	22/0.30*	0.7	3.0	12.1	18	16
1.0	36/0.30*	0.8	3.7	7.41	24	20
1.50	56/0.30**	0.8	4.2	4.95	32	26
2.50	36/0.3**	0.8	3.7	7.41	24	20
4.0	56/0.3**	0.8	4.1	4.95	30	26
6.0	84/0.3**	0.8	4.6	3.30	38	33

\* Class 2 Stranded conductor | | \*\* Class 5 Flexible conductor

### FR Properties

Test	Specified	Specified Values
Limited Oxygen Index Test	IS 10810-58	>29%
Limited Temperature Index Test	IS 10810-65	>250%

### FRLS/ ZHFR Properties

Test	Specified	Specified Values
Limited Oxygen Index Test	ASTM-D 2863	> 32%
Limited Temperature Index Test	ASTM-D 2863	>250%
Smoke Density (Light Absorption)	ASTM-D 2843	< 50%
Acid Gas Generation	1 EC-607 54-1	< 18%

### De. Rating factors for variation in ambient temperature

Ambient Temperature °C	35 °C	40 °C	45 °C	50 °C	55 °C	60 °C	65 °C
De. Rating Factor	1.08	1	0.91	0.82	0.7	0.57	0.4