

HFFR/ZHFR BUILDING WIRES



Kanbery Cable Code - HFFR/ZHFR BUILDING - KAN

APPLICATIONS

Kanbery HFFR/ZHFR is used in high-rise buildings, hospitals, offices, shopping malls, apartments, schools, hotels, airports, and auditoriums where fire smoke emission and toxic fumes create major risks or human disasters. It is used for power distribution to electrical equipment and lighting in the above places.

CHARACTERISTICS

Voltage Rating
Up to and including 1100V

Temperature Rating
Fixed : -15°C to 90°C

Minimum Bending Radius
Fixed : 4 x overall diameter
Occasional : 6 X Overall Diameter

CONSTRUCTION

Conductor
Tinned copper or annealed bare or bunched copper conductor
As per IS 8130, Class 5 | Class 2

Insulation
Specially formulated halogen free flame Retardant compound used in Insulation

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, IEC 60332 - 1 -2,
Oxygen Index According to ASTM D2863
Smoke Emission According to ASTM D2843
Under Fire Conductor According to EN 60332-1-2

THE CABLE LAB

AN ISO/IEC 17025 AND IECCE 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-team 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



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