

BUILDING WIRE · SINGLE CORE · IS 694:2010

# INDOCABLES HR-FR-LSH-LF GREEN WIRE BUILDING WIRE, 1100 V AC

## APPLICATION

INDOCABLES HR-FR-LSH-LF Green wire is highly eco-friendly & suitable for use in places where extra fire safety and heat resistance is required along with high flexibility. This is also suitable for indoor installation in industries, household appliances and building electrification.



## CHARACTERISTICS

|                                        |                                                      |                                               |                                                                                                     |
|----------------------------------------|------------------------------------------------------|-----------------------------------------------|-----------------------------------------------------------------------------------------------------|
| <b>VOLTAGE RATING</b><br><b>1100 V</b> | <b>OPERATION TEMPERATURE</b><br>Fixed: -15°C to 85°C | <b>TEST VOLTAGE</b><br>3000 V AC at (20±5) °C | <b>BENDING RADIUS</b><br>Fixed installation 6 x Overall Diameter<br>Occasional 4 x Overall Diameter |
|----------------------------------------|------------------------------------------------------|-----------------------------------------------|-----------------------------------------------------------------------------------------------------|

## CONSTRUCTION

|                     |                                                                       |
|---------------------|-----------------------------------------------------------------------|
| CONDUCTOR           | Annealed stranded or bunched copper conductor as per IS 8130, class 5 |
| INSULATION          | Insulated by specially developed in-house compound.                   |
| CORE IDENTIFICATION | Red/Yellow/Blue/Black/Green/any customized colour                     |

## ELECTRICAL PROPERTY

- High insulation resistance
- Higher current carrying capacity
- Electrical energy saving

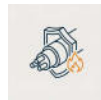
## MECHANICAL & PHYSICAL PROPERTIES

- High Flexibility
- Free from hazardous substances
- Resistant to Termite & Rodent
- Resistant to moisture for use in wet area
- Resistant heat deformation
- Improved life expectancy
- Resistant to Acid & Alkali

## OUTSTANDING FEATURES



Higher current carrying capacity.



High fire retardancy



Low emission of toxic gases



Low carbon emission, eco healthy



Low volatile organic content – less contamination



High conductivity electrolytic copper conductor

## STANDARD FOLLOWS

IS 8130:2013

IS 5831:1984

IS 694:2010

## COMPLIANCE

| TEST                        | STANDARD       |
|-----------------------------|----------------|
| Conductor resistance test   | IS 8130        |
| Flammability                | IEC 60332-1    |
| Oxygen index                | ASTM D 2863    |
| Temperature index           | ASTM D 2863    |
| Halogen acid gas generation | IEC 60754-1    |
| Smoke density               | ASTM D 2843-19 |



## WEIGHT AND DIMENSIONAL DATA

| PRODUCT CODE                                | NOMINAL CROSS-SECTIONAL AREA | CLASS OF CONDUCTOR | NO. OF WIRE/WIRE DIA. | NOMINAL INSULATION THICKNESS | OVERALL DIA. (APPROX.) |
|---------------------------------------------|------------------------------|--------------------|-----------------------|------------------------------|------------------------|
|                                             | mm <sup>2</sup>              |                    | No. /mm               | mm                           | mm                     |
| IC-HW-01-00075-CU-PVC-H07VK-0450-IS694-FRLH | 0.75                         | 5                  | 24/0.21               | 0.6                          | 2.25                   |
| IC-HW-01-00100-CU-PVC-H07VK-0450-IS694-FRLH | 1                            | 5                  | 32/0.21               | 0.6                          | 2.4                    |
| IC-HW-01-00150-CU-PVC-H07VK-0450-IS694-FRLH | 1.5                          | 5                  | 30/0.26               | 0.6                          | 2.86                   |
| IC-HW-01-00250-CU-PVC-H07VK-0450-IS694-FRLH | 2.5                          | 5                  | 50/0.26               | 0.7                          | 3.48                   |
| IC-HW-01-00400-CU-PVC-H07VK-0450-IS694-FRLH | 4                            | 5                  | 56/0.31               | 0.8                          | 3.95                   |
| IC-HW-01-00600-CU-PVC-H07VK-0450-IS694-FRLH | 6                            | 5                  | 84/0.31               | 0.8                          | 4.48                   |

Product codes as registered in the Indo Cables Product Code Master, Edition 2.0 — items IC1003898, IC1003899, IC1003900, IC1003903, IC1003906, IC1003909. Voltage grade 0450 = 450/750 V, per the H07V-K designation.

## ELECTRICAL CHARACTERISTICS

Current carrying capacity and Max. DC conductor resistance.

| NOMINAL CROSS-SECTIONAL AREA | CLASS OF CONDUCTOR | CURRENT CARRYING CAPACITY, 2 CABLES IN SINGLE PHASE                    |                                     | MAXIMUM DC CONDUCTOR RESISTANCE AT 20°C |
|------------------------------|--------------------|------------------------------------------------------------------------|-------------------------------------|-----------------------------------------|
|                              |                    | Reference Method B (enclosed in conduit on a wall or in trunking etc.) | Reference Method C (clipped direct) |                                         |
| mm <sup>2</sup>              |                    | Amp.                                                                   | Amp.                                | Ω/km                                    |
| 0.75                         | 5                  | 8.0                                                                    | 8.54                                | 26                                      |
| 1                            | 5                  | 12.7                                                                   | 13.9                                | 19.5                                    |
| 1.5                          | 5                  | 16.2                                                                   | 18.5                                | 13.3                                    |
| 2.5                          | 5                  | 22.0                                                                   | 25.5                                | 7.98                                    |
| 4                            | 5                  | 31.2                                                                   | 34.8                                | 4.95                                    |
| 6                            | 5                  | 37.2                                                                   | 44.4                                | 3.3                                     |

The ambient temperature is 40°C. Conductor operating temperature 85°C.

## PACKAGING

180/200/300 Mtr in pouch pack



## APPROVALS & COMPLIANCE



### ISO 9001

Cert. 99 100 22646 (TÜV  
SÜD)



### ISI

Bureau of Indian  
Standards · CM/L  
6200267207



### RoHS

Compliant



### REACH

Compliant



### Make in India

Manufactured in India

Also certified to ISO 14001:2015 and ISO 45001:2018.