LAPP INDIA

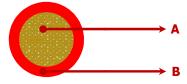
DATA SHEET



ÖLFLEX® INFRA FR-LSH

DS 8210011

Valid from: 2018-03-01



A – Annealed Bare Copper Conductor B – Flame Retardant PVC Insulation

Application

OLFLEX® INFRA FR-LSH are ISI marked single-conductor cables with Flame Retardant low smoke thermoplastic PVC-insulation for fixed installation inside of closed conduits and cable ducting systems and on or under plaster as well as in similar closed systems. They are suitable for protected, stationary use in or control units/ switchgear in conjunction with voltages up to 1100 V AC. This product are used in applications where safety of human and property are of utmost importance.

Design

Conductor : Annealed Bare copper, Class V in acc. to IS 8130/IEC 60228

Approval : IS 694:2010

Insulation : PVC compound Type D in acc. to IS 5831:1984

Current Rating : in acc. to IS 3961

CE approval : Certified to use CE marking on the product.

Electrical properties

Nominal voltage 1100 V Test voltage 3000 V AC

Mechanical properties

Min. bending radius occasional flexing: 8 x cable OD

Fixed installation: 6 x cable OD

Temperature range occasional flexing: -15 °C up to +70 °C max. Conductor temperature

Fixed installation: -40 °C up to +80 °C max. Conductor temperature

Flame retardant properties and other tests

Oxygen Index: > 29 in accordance to ASTM-D 2863

Temperature Index: minimum 250°C in accordance to ASTM-D 2863 Smoke Density: Maximum smoke density of 60% as per ASTM-D 2843 Acid Gas Generation: HCL content maximum 20% as per IEC 754-1

Flammability in acc. with IS 10810-53 / IEC 60332-1

Tests acc. to IS 10810

Originator: SB / PE Approved: SNP / PE	DOCUMENT: 8210011_R1	P a g e 1
---	----------------------	--------------------

LAPP INDIA

DATA SHEET



Special properties

This product conforms to

RoHS directive (Restriction of the use of certain hazardous substances)

Article No.	Conductor Cross Section	Nominal Outer Diameter	Copper Weight (Kg/Km)	Cable Weight (Kg/Km)	Current rating (A)	Standard Pack Length (m)
	2	(mm)	Approx.	Approx.		
82101	1 x 0.5 mm ²	2.2	4.6	10.7	12	90, 180, 270
82102	1 x 0.75 mm ²	2.4	6.7	13.5	14	90, 180, 270
82103	1 x 1.0 mm ²	2.6	8.7	16.0	17	90, 180, 270
82201	1 x 1.5 mm ²	2.9	12.6	21.0	22	90, 180, 270
82202	1 x 2.5 mm ²	3.6	21.1	32.9	29	90, 180, 270
82203	1 x 4 mm ²	4.3	34.9	51.6	36	90, 180, 270
82204	1 x 6 mm ²	4.8	52.6	72.5	48	90, 180, 270
82205	1 x 10 mm ²	6.2	87.6	119.5	70	90, 180, 270
82206	1 x 16 mm ²	7.2	137.1	176.2	98	90, 180, 270

Product details

This product is offered in following colours

00 – Yellow/Green	01 – Black	02 – Blue	03 – Brown	04 – Red	05 – White
06 – Grey	07 – Violet	08 – Pink	09 – Orange	11 – Yellow	12 – Green

14 - Dark Blue

The current rating values given in the table are based on following parameters: (Values declared in Air)

- 1 Maximum conductor temperature : 70 °C
- 2 Ambient Temperature in air: 40 °C
- 3 Maximum diameter is governed by IS 694:2010.

Important:

The current rating shown in the table is by considering maximum possible conductor temperature and ambient conditions for facilitating the heat dissipation. The current rating values depend on various conditions like method of laying, ambient temperature, grouping of cables which have to consider before cable selection and installation process.

Derating factors apply based on application guidelines specified.

Originator: SB / PE Approved: SNP / PE	DOCUMENT: 8210011_R1	P a g e 2
---	----------------------	--------------------