

ÖLFLEX® INFRA HFFR

DS 8410011U

valid from: 2018-03-01

Application

ÖLFLEX® INFRA HFFR single cores with flame retardant low smoke insulation having excellent temperature index, flame properties and zero halogen content. Used for internal wiring for installation in pipes and conduits. These wires are suitable for fixed installation and may not be used for direct laying on racks, troughs and tubes. These wires render a great importance in applications where safety of human and animal life as well as valuable property is of utmost importance, when exposed to high risk of fire hazards.

Design

Conductor	annealed bare copper, Class V in acc. to IS 8130/IEC 60228
Approval	IS 694:2010
Insulation	zero halogen compound as per LAPP standard
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 40% as per ASTM-D 2843
Acid Gas Generation:	HCL content maximum 0.5% as per IEC 754-1
Flammability	in acc. with IS 10810-53 / IEC 60332-1
Tests	acc. to IS 10810

Special properties

This product conforms to RoHS directive (Restriction of the use of certain hazardous substances)

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Article number	Conductor cross section mm ²	Nominal outer diameter (mm)	Copper weight (kg/km) Approx.	Weight (kg/km) Approx.	Current rating (A) maximum	Standard pack length (m)
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8410..1	1 x 0.5	2.2	4.6	10.7	12	90, 180, 270
8410..2	1 x 0.75	2.4	6.7	13.5	14	90, 180, 270
8410..3	1 x 1.0	2.6	8.7	16.0	17	90, 180, 270
8420..1	1 x 1.5	2.9	12.6	21.0	22	90, 180, 270
8420..2	1 x 2.5	3.6	21.1	32.8	29	90, 180, 270
8420..3	1 x 4	4.3	34.9	51.6	36	90, 180, 270
8420..4	1 x 6	4.8	52.6	72.5	48	90, 180, 270
8420..5	1 x 10	6.2	87.6	119.4	70	90, 180, 270
8420..6	1 x 16	7.2	137.1	176.0	98	90, 180, 270

Product details

This product is offered in following colours

00 - Yellow/Green	07 - Violet
01 - Black	08 - Pink
02 - Blue	09 - Orange
03 - Brown	11 - Yellow
04 - Red	12 - Green
05 - White	14 - Dark Blue
06 - Grey	

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

Maximum conductor temperature : 70 °C

Ambient Temperature in air : 40 °C

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.