



Range : Single Core
Size : 0.5 to 240 sq. mm
(Nominal Cross Section Area)
Specification : IS : 694, IS : 8130



STANDARD

HRFR PVC FLEXIBLE CABLES

HRFRLS FLEXIBLE CABLES

MULTICORE AND TELECOM CABLES

Introduction

Standard Electricals Ltd., an ISO 9001-2000 company, having expertise in the field of low voltage switchgear products for the past 50 years, introduces Heat Resistance Flame Retardant PVC Cables, which are not only ISI marked but are FIA and TAC approved also.

Wire comprise of two things viz. conductor and insulator. The conductor of wire is like the heart of the human being. The function of the conductor is to carry current like heart circulates blood in the body. If the blood circulation is irregular and improper, it may cause various diseases in the body. Similarly, if the copper conductor is not good, which may be due to impurity of copper, hardness of copper, improper bunching, air gap etc., it would result not only in hazardous situations of reduction in the current carrying capacities of the wire but also in inductive losses. This would in turn lead to use of higher size of the conductor (wires) and thus paying more for less output.



Features

- ▣ Standard Cables are manufactured with highest possible conductivity in the given size with perfect insulation against any electrical fault.
- ▣ Intelligent Microprocessor controlled equipments ensure that the conductor lies perfectly in the centre of the insulation thereby providing exact and equal protection from all side of the conductor preventing short circuits occurrence due to uneven thickness and eccentricity of PVC insulation.
- ▣ Advanced in-house facilities of drawing, stranding and bunching of the conductors make easy stripping & crimping possible in Standard Cables.
- ▣ Standard Cables are manufactured from the purest of copper and PVC compounds with rigorous testing at every stage of manufacturing.
- ▣ Single Core PVC insulated copper conductor (unsheathed) heavy duty electric wires in voltage grade upto & including 1100V

Nominal cross Section Area of conductor mm ²	Number/Nom. Dia of Strands** mm	Thickness of Insulation (Nom) mm	Overall Diameter Approx. mm	Current Carrying capacity Amps.	Resistance (Max.) per km. @ 20°C Ohms
0.5	16/0.2	0.6	2.2	4	39
0.75	24/0.2	0.7	2.5	7.5	26
1.0	14/0.3	0.7	2.8	11	18.10
1.5	22/0.3	0.7	3.1	13	12.10
2.5	36/0.3	0.8	3.8	18	7.41
4.0	56/0.3	0.8	4.4	24	4.95
6.0	84/0.3	0.8	5.2	31	3.30
10*	80/0.4	1.0	6.6	42	1.91
16*	126/0.4	1.0	7.8	57	1.21
25*	196/0.4	1.2	9.7	71	0.780
35*	276/0.4	1.2	10.9	91	0.554
50*	396/0.4	1.4	13.2	120	0.386
70*	360/0.5	1.8	16.15	214	0.272
95*	475/0.5	1.9	18.75	254	0.206
120*	608/0.5	2.10	21.25	300	0.161
150*	750/0.5	2.10	22.15	340	0.129
185*	925/0.5	2.50	22.50	390	0.106
240*	1221/0.5	2.50	28.50	460	0.0801

Note : Supplied in 90 metres length in carton packaging.

* Supplied in 100 metres length.

**The number and diameter of conductor strands are for reference only. Conductor resistance as per IS:8130 is the governing criteria.

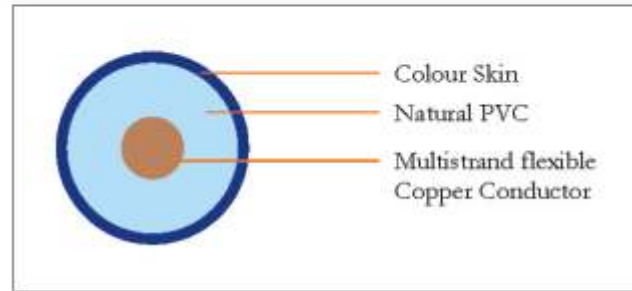
Construction

Conductor : Plain annealed copper conductor as per flexibility, class 5 stranded conductor as per IS:8130

Insulation : Primary-Natural PVC
Secondary-Skin colour coated PVC Type A

Colour : Red/Yellow/Blue/Black/Grey/White/Green

Any other colour on specific request can also be supplied



HRFRLS Flexible CABLES (HEAT RESISTANT FLAME RETARDANT LOW SMOKE)

HRFRLS Flexible cables are recommended for use in Fire Prone Zones and locations with the possibilities of Short Circuit. The hazards of electrical fires are primarily:

- #1. Thick smoke barring vision.
- #2. Strong pungent gas release choking eyes and lungs.
- #3. The burning fire itself.

Standard **HRFRLS** flexible cables are made from specially formulated & stocked PVC Polymers that restrict the toxic gases and smoke as they are self extinguishing and do not allow the fire to spread.

HRFRLS flexible cables find most use in multistoried buildings, hotels, banquets, heavily stocked shops and commercial offices, hospitals and industrial control rooms with cluttered panels, instruments and areas where safety is the primary concern.

Standard continuous R&D supported by most modern testing facilities enhanced the actual properties of flame retardancy, low smoke and low halogen in our **HRFRLS** flexible cables.

Comparison between STANDARD HRFR Flexible Cables and Conventional Cables

S.No.	Features	Conventional Cables	STANDARD HRFR Flexible Cables
1	Insulation Material	PVC	Spl. PVC
2	Insulation Property	Average	Good
3	Temperature Rating	Avg 85°C	105°C
4	Thermal Stability	Average	Good
5	Flame Retardancy	Good	Very Good
6	Safety during Burning	Average	Good
7	Temperature required to catch fire	NA	>250°C

HRFR PVC FLEXIBLE CABLES

Sq. mm	Cat No.
0.5	WSCDUFIA0*50
0.75	WSCDUFIA0*75
1	WSCDUFIA1*00
1.5	WSCDUFIA1*50
2.5	WSCDUFIA2*50
4	WSCDUFIA4*00
6	WSCDUFIA6*00
10	WSCDUFIB010
16	WSCDUFIB016
25	WSCDUFIB025
35	WSCDUFIB035
50	WSCDUFIB050
70	WSCDUFIB070
95	WSCDUFIB095
120	WSCDUFIB120
150	WSCDUFIB150
185	WSCDUFIB185
240	WSCDUFIB240

• Colours available - Red, Yellow, Blue Black, White, Green and Grey


HRFR LS PVC FLEXIBLE CABLES
Single Core

Sq. mm	Cat No.
1	WSCFUFIA1*00
1.5	WSCFUFIA1*50
2.5	WSCFUFIA2*50
4	WSCFUFIA4*00
6	WSCFUFIA6*00

• Colours available - Red, Yellow, Blue Black and Green

