

Heat Resistance Fire Retardant (HRFR)



Miracle Cables (I) Pvt. Ltd is 20 years young company with aspirations to grow as a significant player in the cables industry. The company has an array of professionals dedicated to give the exceptional products and services to its customers. Situated in Mumbai, a strategic location of India, Miracle Cables currently caters to several world class organizations in India as well as abroad.

MIRACLE CABLES adopts the best technology in the industry and Production has excellent technology, supported by Neohoff – Germany Machines for rod break-down, wire drawing with online annealing and 630mm Buncher and is one of the largest producers in India for Nyvin. Apart from that we have fully equipped lab also with required all testing machines.

Company Profile

- Established in 1996, **MIRACLE CABLES** is a professionally run, listed company on the Indian Market.
- Accredited with ISO/TS 16949, ISO 9001-2008 TUV - Nord.
- ISI CERTIFICATION / BIS LICENSE IS-694 C-2 FRLS, IS-1554P1, IS-7098-P1,
- UL CERTIFICATION– AVL2 - E307828, UL-1007, UL-1015, UL-1569, UL-2129, UL-2464, WIRES & CABLES.
- UL CERTIFICATION – ZPFW2-E307830 WIRING HARNESS
- THIRD PARTY LAB -TYPE/ TEST CERTIFICATE [ARAI, CPRI, DGQA , ERDA ERTL, NTH, MSME , GEO-CHEM, TCR

Product Profile

MIRACLE CABLES manufactures products, as per standards and client's requirements.

WIRES & CABLES

- **Auto Cables** – Din / AV /AVS / AVSS
- **Speciality Uninyvin Cables** (0000 Awg to 22 Awg)
- **FRLS/ZHFR/FR/HR Cables**
- **PVC Insulated Power & Control Cables Armoured & Unarmoured**
- **XLPE Insulated Power Cables**
- **UL Cables** (UL-1007, UI-1005, UI-1569, UL-2129, UL-2464)
- **Welding Cables**
- **Instrumentation/Signal** – Braided/Screen Cables
- **Agricultural Submersible cables, Flat cables and FS cables**

Millions of people everyday use material processed by Miracle cables. in various forms. Our products are also used for ammunition by Indian Defence, Railways and by numerous manufacturers of Electronic, Electrical/ Power Transmission, Telecom, White goods, Switchgear, Automobile sector and many more.



Heat Resistance Fire Retardant (HRFR)

Fire is one of the most dangerous element's which results in adverse loss of money and resources. There have been many fire-accidents in the past due to the corrosive fumes and flickering fire of the cables. Electrical engineers involved in generation, transmission and utilization of electricity, observed the behavior of ordinary cables in highly flammable environment and identified the need to create cables that are immune to fire. Usually, all XLPE cables are layered with a protective covering of Polyvinyl Chloride also known as PVC. Although, PVC is immune to flames due to its flame retarding property. With the contact of fire, it does produce highly toxic fumes which are corrosive in nature.

The supply of electricity is essential in every domestic and business environment. However, in many crowded and packed places like power stations, subways, railways with long

sections in tunnels, road tunnels, ships, hospitals, schools, hotels, cinema theaters, museums and public premises, electricity- fire breakouts are subjected to spread at a faster pace destructing life and property. Although, the XLPE cables come as a rescue, the highly toxic fumes emerging from them during fire accidents cloud and clog surroundings rendering them invisible to victims. The toxic fumes and opacity emerging from these cables elevates the risk of suffocation and pose a threat to human safety.

Heat Resistance Fire Retardant PVC compound ensures low smoke emission compared to ordinary wires with PVC coating. They are less toxic in nature and emit considerably low amount of corrosive fumes. In short, they perform tasks as fire retardants.

Sr. No.	Part No.	Sq. mm.	Construction	Insulation Thickness (Nom.)	Overall Diameter (approx)	Conductor Resistance At 20°C maximum	Current Rating
		mm ²	No. / mm	mm	mm	Ω/Km	Amps
1	051701C084L4	0.25	8/0.20	0.20	1.20	74.00	1.5
2	7451701C084L4	0.35	12/0.193	0.20	1.40	52.00	2
3	0751701C086L4	0.50	16/0.20	0.60	2.20	39.00	4
4	0851701C086L4	0.75	24/0.20	0.60	2.40	26.00	7
5	1051701C086L4	1.00	14/0.30	0.70	3.00	18.10	12
6	1251701C086L4	1.50	22/0.30	0.70	3.20	12.10	16
7	1451701C086L4	2.50	36/0.30	0.80	3.80	7.41	22
8	1651701C086L4	4	56/0.30	0.80	4.50	4.95	29
9	1751701C086L4	6	84/0.30	0.80	5.50	3.30	37
10	1951701C086L4	10	140/0.30	1.00	6.70	1.91	46
11	2051701C086L4	16	126/0.40	1.00	8.20	1.21	62
12	2151701C086L4	25	196/0.40	1.20	10.0	0.780	80
13	2251701C086L4	35	276/0.40	1.20	11.30	0.554	102
14	2351701C086L4	50	396/0.40	1.40	13.50	0.386	138
15	2451701C086L4	70	360/0.50	1.40	15.50	0.272	214
16	2551701C086L4	95	475/0.50	1.60	18.50	0.206	260
17	2651701C086L4	120	608/0.50	2.00	20.90	0.161	305
18	2751701C086L4	150	750/0.50	2.00	22.50	0.129	355

Heat Resistance Fire Retardant (90⁰c) - Properties

Sr. No.	Test Parameter	Reference Specification	Remarks
1	Heat Resistance	After Ageing T.S Elong	Pass 12.50 N/mm ² 150%
2	Fire Retardant	IS:10810P1	Pass



Esteemed Clientele



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