



# Anchor

*Get Wired to Safety*



Our family of wires for your family's safety

India's first **ADVANCE FR** insulated wires

India's only **32i+** rated **FRLS** wires

**100%** electrolytic copper

India's first wire with **102%** conductivity

**100%** bunching



A truly multi-product company with multi-locational production facilities, Anchor has emerged as the world's largest manufacturer of top class electrical switches, lighting & luminaires, appliances and accessories. With an ever-widening product range, it has occupied the number one position and leader status for 40 years in this field.

Anchor is associated with ICPC(I)-(International Copper Promotion Council - India) as partner in their house wiring project to promote use of only ISI marked PVC house wire with pure electrolytic grade copper. ICPC(I) is the Indian arm of the worldwide organisation International Copper Association. It is a recognition of the quality and reliability of Anchor wires and cables.

## Anchor PVC Insulated Wire

Anchor PVC insulated wires are produced in a most modern state-of-the-art cable plant at Daman. The fully automatic plant incorporates the latest German and Swiss technology and electronic/PLC based machines which ensure a high degree of quality and consistency. A team of highly qualified and experienced engineers and technologists oversee the operations with total commitment to quality.



It is, therefore, no surprise that in a short span of two years, Anchor Wires and Cables rank among the best with countrywide acceptance and acclaim for achieving highest quality standards not only by bearing ISI mark but also in tests conducted at India's premium testing laboratories like CPRI, ERDA, CETL, etc. Anchor is now embarked on an ambitious expansion plan to manufacture LAN, coaxial, automobile flexible/harness, telephone, instrumentation and other speciality cables.

### 102% Conductivity

Anchor wires give upto 102% conductivity based on IACS (International Annealed Copper Standard) by virtue of being manufactured with high purity electrolytic grade copper. The conductor thus has higher current rating, is not overheated and saves energy. As a result, power consumption is reduced, **slashing electricity bills.**

The entire process of wire drawing from rod to final size is carried out on latest high speed fully automatic machines with in-line annealing at each stage of drawing and using diamond dies that ensure correct diameter, perfect circularity, extra smooth surface finish and fine metallurgical structure. In-line annealing ensures soft, fully annealed high conductivity flexible conductor.

### Advance FR-PVC Insulation

Anchor Advance FR (Flame Retardant) PVC is a special formulation of advance versions of compounding ingredients to produce an insulating material that has higher oxygen and temperature indices than those of normal FR-PVC and, thus, extraordinary flame retarding properties. It is virtually **packed with molecular fire engines that extinguish the fire before it spreads.** Together with high insulation resistance and dielectric strength which **prevent leakage of current, shocks and short circuits**, it is India's first Advance FR-PVC wire which gives **protection against fire and electrical hazards.**

### FRLS with 32i+

Anchor FRLS FireGUARD wires are insulated with specially designed PVC compound which have **exceptional flame retarding and low smoke emission** characteristic represented by an oxygen and temperature index of 32 i+. It is a numerical measure of non-combustibility.

**32i+** denotes oxygen percentage and temperature index. **Higher the index value, greater the non-combustibility.** Anchor FRLS wire with 32 i+ rating needs an oxygen content of more than 32% against the minimum specified value of 29% in the surrounding environment for the wire to combust or alternately the temperature of the surrounding environment must be very high (up to 400 °C against the minimum specified value of 250 °C). In simple terms, 32 i+ means Anchor FRLS Wire won't **catch fire even at elevated temperatures** under normal atmospheric oxygen content.





**Smoke Density:** In the worst-case scenario of fire breaking out, Anchor FRLS 'FireGUARD' wires emit at least **50% less smoke** than normal wires with even lesser amount of toxic/corrosive halogen (hydrochloric acid) gases. Thus, Anchor 'FireGUARD' wire facilitates fire fighting and rescue operation due to minimum obscuration of visibility and averts loss of human lives and damage to property.

## 100% Bunching

The cohesive, compact, 100% bunched conductor imparts **greater flow of current, flexibility and workability**. There is no shape distortion, kink or flaring of individual strand when PVC insulation is removed for termination. Flexibility of the conductor lends itself to easier and faster pulling through conduits and around corners. All multi-strand conductors are made on latest dynamically balanced high speed German machines with zero elongation of strand during the process with high compactness and uniform diameter.



## Anchor HFFR Wire

Anchor HFFR (Halogen Free Flame Retardant) wires are made with an imported specially formulated non-PVC material which is a product of most advanced polymer technology. **It does not emit highly corrosive halogen acid gases / toxic fumes and there is almost nil smoke.** The visibility, thus, is unobscured with no suffocating fumes. The flame retarding property of insulation prevents fire propagation and keeps the essential services functional, like fire alarm system, lift, corridor and stairway lighting circuits facilitating quick escape, fire fighting and rescue operation.

The devastating effect of fire is so great that for high risk areas and public places, such as, chemical and power plants, theatre, hospital, commercial complex, metro railway, high rise office and residential building, etc, only HFFR wire should be used to avert loss of life and damage to assets.



HFFR Cables will avert such devastating fires.

## Telephone & Switch Board Cable

Telephone & SwitchBoard Cables, designed for voice clarity and elimination of cross talk, are most suitable for indoor use in large office / residential buildings, hotels and industrial complex for interconnection of telephone and intercom system, PBX and in central exchange for interconnection of distribution frames, switching and transmission equipments.

Solid annealed high conductivity bare / tinned copper conductor is insulated with high density polyethylene in different colours, twisted with varying lay lengths to form pairs and laid-up together in such a manner as to minimize cross talk. The laid up cables are taped with polyester and sheathed with FR PVC. The cables generally conform to DoT Specification No. G/WIR-06/02 May. 94 and Anchor specification.

Pure electrolytic copper conductor of uniform diameter and low resistance eliminates voice loss giving superior clarity. Noise and disturbances caused by outside electromagnetic interference and cross-talk (transmission through adjoining lines being picked up), are eliminated by concentric & uniform thickness of insulation, high insulation resistance and varying lay lengths of pairs, improving the clarity and quality of voice.



ZERO NOISE LEVEL



NO VOICE LOSS



VOICE CLARITY



NO CROSSTALK

## Tangle-free box & 3-D Hologram

Anchor wire bundles come in boxes provided with perforated circular mark on one side, which can be broken and the wire can be easily pulled out. This helps in easy wiring by preventing messy handling, entanglements and kinks.

Every original Anchor Wire Pack comes with a unique **3-Dimensional tamper-proof hologram**. There are two visual layers. The upper layer shows the Anchor monogram and on the second layer 'Anchor' and 'Genuine' can be seen alternately.






## Single Core Unsheathed 1100 V PVC Insulated Wire with Copper Conductor

Product Code	Nominal Area of Conductor sq mm	Nos. & Diameter of Wire mm	Nominal Thickness of Insulation mm	Approx Overall Diameter of Wire mm	Current Rating 2 cable single phase ac/dc amp	Max DC Resistance at 20°C ohm / km as per IS : 694	Std Pkg
<b>MULTI STRAND - ADVANCE FR (Flame Retardant)</b>							
27380	0.75	24/0.20	0.6	2.5	7	26.00	24
27390	1.00	14/0.30	0.7	2.8	13	18.10	24
27404	1.50	22/0.30	0.7	3.2	16	12.10	12
27415	2.50	36/0.30	0.8	3.8	22	7.41	8
27426	4.00	56/0.30	0.8	4.3	30	4.61	6
27437	6.00	84/0.30	0.8	5.3	38	3.08	4
27448	*10.00	140/0.30	1.0	6.7	51	1.91	2
27459	*16.00	126/0.40	1.0	7.8	69	1.21	2
27460	*25.00	196/0.40	1.2	9.2	91	0.78	1
<b>FireGUARD - FRLS (Flame Retardant Low Smoke)</b>							
27506	1.00	14/0.30	0.7	2.8	13	18.10	12
27517	1.50	22/0.30	0.7	3.2	16	12.10	12
27528	2.50	36/0.30	0.8	3.8	22	7.41	8
27539	4.00	56/0.30	0.8	4.3	30	4.61	6
27540	6.00	84/0.30	0.8	5.3	38	3.08	4
27550	*10.00	140/0.30	1.0	6.7	51	1.91	2
27572	*16.00	126/0.40	1.0	7.8	69	1.21	2
27357	*25.00	196/0.40	1.2	9.2	91	0.78	1
<b>HFFR (Halogen Free Flame Retardant)</b>							
28600	1.00	14/0.30	0.7	2.8	13	18.10	12
28611	1.50	22/0.30	0.7	3.2	16	12.10	12
28622	2.50	36/0.30	0.8	3.8	22	7.41	8
28633	4.00	56/0.30	0.8	4.3	30	4.61	6
28644	6.00	84/0.30	0.8	5.3	38	3.08	4
28655	*10.00	140/0.30	1.0	6.0	51	1.91	2

Available Colours :  RED  YELLOW  BLUE  BLACK  GREEN

FIA - Fire Insurance Approval TAC - Tariff Advisory Committee RTC - Regional Testing Centre CETL - Central Electrical Testing Laboratory CPRI - Central Power Research Institute NTH - National Test House ERDA - Electrical Research & Development Association	 <b>3-Dimensional Tamper-proof Hologram</b>	<b>DEALER STAMP</b>
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Information given herein is in good faith. ANCHOR shall not be liable for any damages arising out of incorrect use.

\* Industrial Products.

TESTED & APPROVED BY : **FIA** **CPRI** **TAC** **CETL** **RTC** **ERDA** **NTH**



**ISO 9002**

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