

# Fire Retardant Vs Fire Resistant



Fire Retardant	Fire Resistant
Fire Retardant cables are designed in order to prevent the spread of fire in a situation of fire.	Fire Resistant cables are designed in order to maintain circuit integrity and continue working in a situation of fire under defined conditions for a specific time period
Fire Retardant is a property of the polymeric material coated on the Inner & Outer Sheath of the cable	Fire Resistance is not just the material property but it is the whole design of the cable
Materials used for Fire Retardant cables are usually FR or FRLS PVC and in some special cases ZHLS	Material used for Fire Resistant cables Insulation - XLPE + Mica or Special grade Silicon Inner & Outer Sheath - FRLS PVC or LSZH FiberGlass & Mica tape for fire protection
These cables pass as per IEC 60332	These cables pass as per IEC 60331
These cables are not very expensive	These cables are around 50-60% more expensive than Fire Retardant Cables



## Udey Pyrocables - Introduction

One of the biggest problems in the nascent days of the cable manufacturing sector was availability of quality specialized cables. Indian suppliers of such cables were scarce and could not supply the desired quality. Alternatively, importing these cables was possible but they were too expensive with high delivery periods. In order to solve this problem Udey Pyrocables was founded back in 1976. We pioneered the manufacturing of Thermocouple Extension Cables, Instrumentation Signal cable & Pneumatic Multi-tube bundle in India.

Even today we follow the same ideology and try to bridge the gap by **supplying excellent quality, affordable prices and reasonable delivery schedules of scarcely available products domestically**. Some of the newer products that we're supplying with this objective are VFD cables, Bus cables, Solar Cables, VDE standard control cable & Polyurethane Cables.

We **specialize in providing tailor made service** for each of our client's requirements and would love to work in association with you to develop better experience with regards to the cable design, cable quality & purchasing experience.

Udey Pyrocables manufactures a wide range of cables on the latest modernized machines to produce quality cables. We have an in-house testing laboratory which meets the requirements of International Standards and can conduct Physical, Routine, Acceptance, Type Tests, FRLS, Halogen free tests etc. all the Instruments are **NABL calibrated**. **Our Plant is located at Lonavala with a total area of 10 acres (100 KMs from Mumbai and 60 KMs from Pune in Maharashtra).**

Our company is **ISO 9001:2015 registered, ISI & CE certified** having approvals with eminent consultants & contractors. Safety and quality are of prime importance to us and in order to ensure the same testing is conducted at every stage of production so that every cable leaving our plant is perfect. We have worked with and delivered outstanding service and products to some of the biggest companies in India & beyond (exporting to 15 countries including the US, Japan, Singapore, Egypt, Middle East etc)

We have complete professional Management with an experienced team of engineers, we take care from our offer to the order placement where cable is designed as per your site requirements and conditions, job cards are made and QA Plan is submitted to you where eve stage our QC department ensures complete checks on every process to full stage of readiness, to shipment.

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## Product Range

### Power & Control Cables

Standard: IS 7098 & IS 1554  
Conductor: Al., Cu., ATC  
Size: 1.5 - 400 sq.mm.  
XLPE/ PVC insulated  
Armoured/ Unarmoured  
Extruded/ Taped  
Range - Upto 1.1 kV & 1.9/ 3.3 kV

### Flexibles & Housing wiring

Standard: IS 694  
Conductor: Cu., ATC  
Size: 0.5 - 400 sq.mm.  
PVC/ ZHLS/ FRLS

### Instrumentation, Signal & RTD cable

Standard: BS 5308, BS EN 50288-7, IEC 189, EIL 6-52-46, EIL 6-52-51, IEC 60092-375, 376, BS EN 50288 PART-7, VDE 0815, VG 95218, NEK 606  
Conductor: Cu., ATC  
Size: 0.5 - 2.5 sq.mm.  
Shielding: Al-Mylar + drain/ ATC braid  
Individual-Overall/ Overall  
Armoured/ Unarmoured  
PVC/ FR/ FRLS/ ZHLS/ Silicon Rubber/ PTFE/  
Fiberglass/ Kapton

### Thermocouple Cable

Standards: ANSI 96.1, IEC 584-3, BS 1843, IS 8784, DIN 43714, EIL 6-52-46  
Conductor: J, K, E, T, R, S, B, N  
Size: 0.5 - 2.5 sq.mm.  
Shielding: Al-Mylar + drain/ ATC braid  
Individual-Overall/ Overall  
Armoured/ Unarmoured  
PVC/ FR/ FRLS/ ZHLS/ Silicon Rubber/ PTFE/  
Fiberglass/ Kapton

### Fire Resistant Cable (FS Cable)

Standards: BS 7846  
Conductor: ATC, ABC  
Size: 1.5 - 400 sq.mm.  
Fire Barrier Tape: Mica Glass Tape  
Armoured/ Unarmoured  
XLPE/ Silicon - ZHLS

### Communication Cables

Profibus Cable  
Profinet Cable  
Foundation Fieldbus Cable  
Modbus Cable  
DeviceNet Cable  
Can Bus Cable

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	Optical Fiber Cable Cat 5e, 6 & 7
<b>Control Cables As per VDE</b>	VDE 0207 LiYY LiYCY LiYCY PUR LiYCY-TP Li2YCY Pimf YY Cable CY Shielded Control cable SY Cable
<b>VFD Cable</b>	Conductor: Cu., ATC, Al. Size: 1.5 - 400 sq.mm. Ground Conductors - 1 or 3 Insulation: XLPE/ PVC Shielding: Al foil + ATC braid/ Copper Tape Individual-Overall/ Overall PVC/ FRLS/ ZHLS
<b>Uninyvin Cable</b>	Conductor: ATC HR PVC, Glass Fiber, Nylon Fiber, Nylon Lacquer
<b>Heat resistantCable</b>	Based on the peak temperature and operating temperature these cables are designed. Material options - Silicon Rubber/ PTFE/ PFA/ FEP/ PEEK/ Kapton/ Fiber Glass etc
<b>Solar Cables</b>	Standards: 2pfg 1169 Conductor: ATC Size: 2.5 - 400 sq.mm.
<b>Robotic Cables</b>	Conductor: Class 5 or Class 6 ABC Insulation: PE, TPE, EPR Sheathing: PU Shielding: ATC braid (Optional)