



APAR Anushakti

WIRES & CABLES

(FR PVC INSULATED INDUSTRIAL CABLES)
POWERED BY LATEST E-BEAM TECHNOLOGY



www.apar.com



APAR MANUFACTURERS AND MARKETS THE MOST COMPREHENSIVE RANGE OF CABLES IN INDIA.

Anushakti is a revolutionary house wiring product that can withstand the highest temperature with an increased current carrying capacity, making it the safest house wire available in India. Manufactured by Electron beam technology, Anushakti wires & cables provide better performance and are environment friendly.

The conductors in wires and cables are made from finely drawn annealed bare copper strands using electrolytic grade that conserves energy consumption and gives better flexibility. The wires and cables are insulated with Flame Retardant (FR) PVC compound specially formulated and in-house manufactured using Twin Screw technology.





This insulation does not melt and drip easily and has high dielectric strength offering high insulation resistance. It offers a high critical oxygen index (>29%) and high-temperature index (>250°C), which helps to restrict the spread of fire and improves self-extinguishing properties. These wires confirm to IS 694: 1990 and far exceed the minimum standard requirements

| Test | Specification Values |
|--------------------------------|----------------------|
| Temperature Index | 250 °C |
| Oxygen Index | > 29% |
| Smoke density (for FRLS) | 75% |
| Acid gas generation (for FRLS) | 20 % |
| Service life years | > 50 Years |

RANGE:

- Anushakti wires and cables are available In 0.75, 1.0, 1.5, 2.5, 4.0, 6.0 sq mm (Technical characteristics and standards mentioned in the table below)
- Anushakti wires and cables are supplied in a standard packing of 90M coils (180M and 270M coils available on request).
- Wires and cables are available in red, yellow, blue, green and black (Colour customisation available on request).

| TECHNICAL CHARACTERISTICS AND STANDARDS : | | | | | |
|---|-----------------------------------|-------------------------|--|---------------------------|---|
| Nominal Area of Copper Conductor Sq.mm | Thickness of Insulation (Nominal) | Approx Overall Diameter | Conductor Resistance (Max) per km @ 20 ° | Current Carrying Capacity | |
| | | | | In Conduit Trunking | Unenclosed - clipped directly to surface or on cable tray |
| Sq.mm | mm | mm | Ohms | Amps | Amps |
| 0.75 | 0.6 | 2.20 | 26.00 | 9 | 14 |
| 1.0 | 0.6 | 2.40 | 19.50 | 16 | 24 |
| 1.5 | 0.7 | 2.85 | 13.30 | 20 | 32 |
| 2.5 | 0.8 | 3.50 | 7.98 | 27 | 44 |
| 4.0 | 0.8 | 4.00 | 4.95 | 36 | 58 |
| 6.0 | 0.8 | 4.50 | 3.30 | 47 | 74 |

Note: The number of strands/strand diameter shall meet the conductor's resistance requirements .



APAR ADVANTAGE:

These cables offer high protection against electric shocks and short circuits, making these cables ideal for wiring and cabling installations where HUMAN SAFETY is a prime concern. Anushakti wires & cables are most suitable for Metro Stations, Airports Shopping Malls, Commercial Complexes, Hospitals, High Rise installations, Fire Alarms, Emergency Lighting, and places with high human interfaces. These cables offer unprecedented benefits and technical advantages such as below:

- **FLAME RETARDANT** - High Oxygen and Temperature Index to retard fire and self-extinguishing type and does not catch fire on its own.
- **HEAT & MELT RESISTANT** - The insulation does not quickly melt while in contact with a hot object.
- **HIGHER CURRENT CARRYING CAPACITY** - The wires can withstand an overload condition of approximately over 50% MORE
- **LONGER LIFE SPAN MORE THAN 50 YEARS** - properties -. With better ageing and rugged mechanical properties like superior abrasion cut through and crush resistant offers longer operating life.
- **ENERGY SAVING** - Made from finely drawn annealed bare copper strands using electrolytic grade that conserves energy consumption
- **HIGH INSULATION RESISTANCE** - With FR PVC insulation it avoids any electric shock.
- **ENVIRONMENT FRIENDLY** - The wires and cables are made from 100% environment friendly and recyclable products.





ABOUT US

APAR Industries Limited is a billion-dollar company that holds a leadership position in its principal business segments:

CABLES

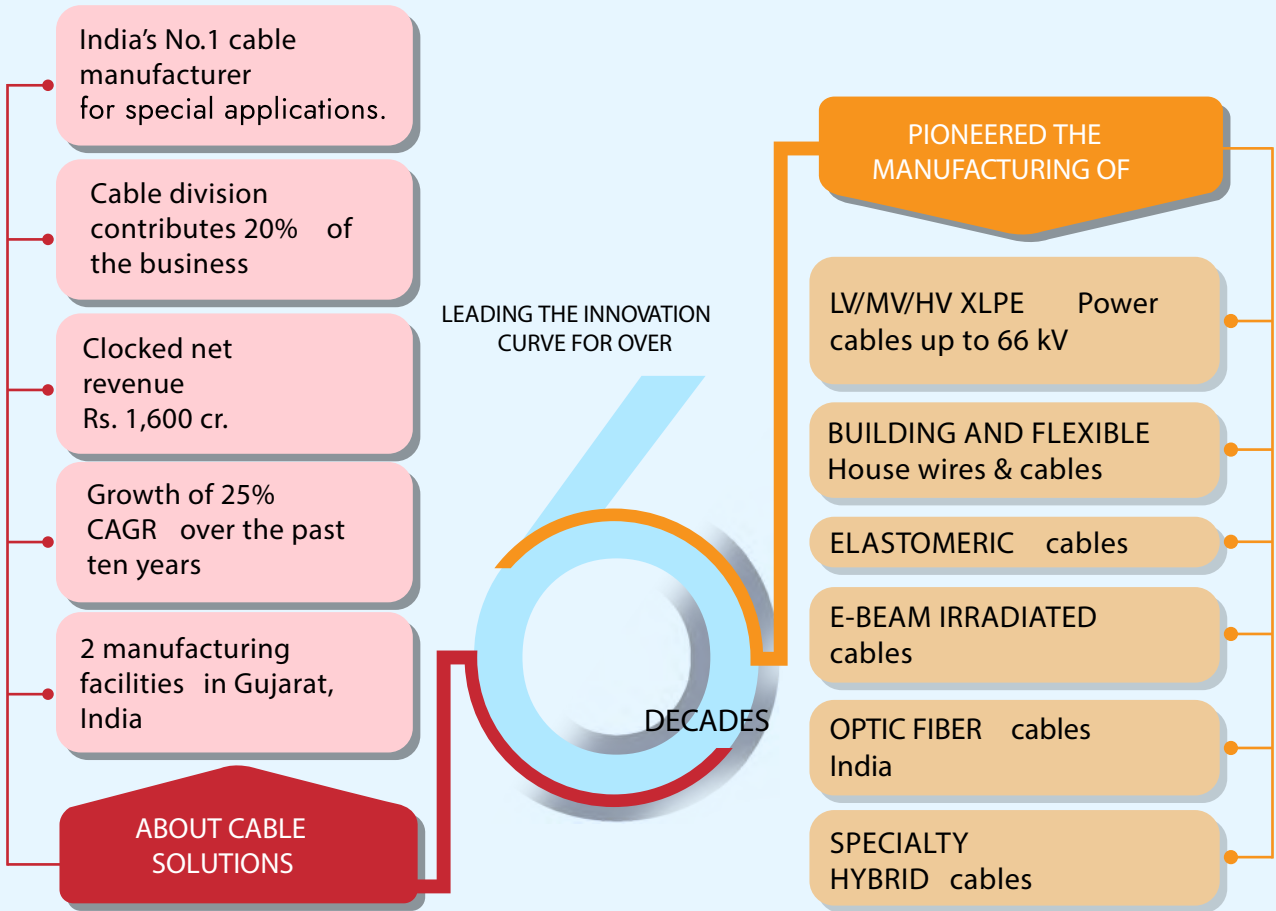
SPECIALITY OILS

LUBRICANTS

SPECIALITY AUTOMOTIVE

POLYMERS

CONDUCTORS



TRUSTED BY MAJOR OEMS, UTILITIES, POWER GENERATION, TRANSMISSION & DISTRIBUTION COMPANIES GLOBALLY



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