



Innovative Cable Solutions



APAR INDUSTRIES LTD. (UNIT : UNIFLEX CABLES)

An Electrical Power & Telecommunication Cable Company



Company Profile



APAR INDUSTRIES LTD, a Rs 5000 Cr. company, is a Technology driven Customer Focused company characterized by Reliability, Adaptability, Innovation and Leadership in our product categories. Apar was founded by Late Mr. Dharmisinh D. Desai, in the year 1958 is one of the established companies in India operating in the diverse field of Electrical, Metallurgical and Chemical Engineering. Apar is into Speciality Oils, Conductors, Power and Control Cables, Telecommunication cables and now commissioned Electron Beam Irradiation facility at Khatlawa Dist. Vapi, Gujrat.

Apar is a largest player in the Power Transformer segments especially in EHV segment i.e., 220 to 765 KV. Apar exports Transformers Oils and White Oils to over 65 countries. Apar is also the 2nd largest manufacturers of conductors in India. Exports to over 65 countries. Having full range of ACSR and AAAC up to 1200 KV. Recently introduced state of the art High Temperature conductors.

About Uniflex Cables

Uniflex Cables, [The Cable Division (acquired in 2008) of Apar Industries Ltd.], an ISO:9001:2008 company was established in the year 1981 and has been catering to requirement of Electrical and Telecommunication cables for Oil and Gas, Railways, Nuclear Power, Defence, Public and Private utilities, Industrial and Telecom sector. It has its plant located at Umbergaon, Gujarat in Western India, approx 140 Km from Mumbai. We are the only Cable company in India having an integrated facility for manufacture of the widest range and types of cables both for Electrical and Telecommunication sector.

UNIFLEX CABLES has state of the art manufacturing facility to manufacture Medium Voltage XLPE cables up to 33 KV on a high precision CCV line from Royle Systems, USA. The company manufactures cables as per various National and International standards and specializes in producing cables for critical applications.

The ELASTOMERIC cables division produces a wide range of natural and synthetic rubber insulated cables for various applications up to 33 KV grade and has 2 CV (continuous vulcanizing) lines of Royle systems USA for high speed manufacture of cables.

The TELECOMMUNICATIONS cable Division is well equipped with the most modern state of art manufacturing plant from Swisscab and Yupin for Optical Fiber Cables including Ribbon Cables

The company has diversified its activities and set up state of the art high technology Electron Beam Irradiation facility for Cross-linking of cable insulation and sheath polymers with 1.5 MeV and 3.0 MeV Electron Beam Accelerators alongwith most modern and multi-tasking handling systems for irradiation of various types of Electrical and Automotive Cables and Wires, PE sheets, Polymeric Tubes/Pipes, Heat Shrink Products, Gems and Diamonds, Medical product sterilisation, reprocessing of PTFE scrap etc..

The company has a centralized testing laboratory with latest testing equipments. The quality assurance system ensures the quality of product at every stage right from raw material upto finished product. The company has been accredited with ISO: 9001 certification for all its manufacturing units. It has an independent Design and R&D set up that develops customized designs and innovative cable solutions for customer specific applications.



OUR MULTI-FACETED PRODUCT RANGE

E-BEAM

- Ship Wiring Cables
- Locomotive Cables
- Solar PV Cables
- Wind Mill Cables
- Control & Flexible Cables
- PVC Winding wires
- Automotive Wires
- Speciality Cables.

ELECTRICAL

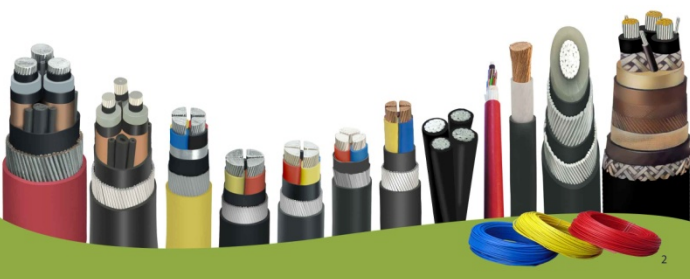
- PVC Cables UPTO 3.3 KV
- XLPE Cables UPTO 33 KV
- LT & HT ABC Cables
- Instrumentation Cables
- Flexible cables & Wires
- FR /FRLS/LSOH Cables
- Fire Survival Cables
- Under water Cables

ELASTOMER

- Trailing Cables
- Locomotive Cables
- Ship Wiring Cables
- Wind Mill Cables
- Concentric Core Cables
- Welding Cables
- Mining Cables
- LFH Cables & Wires
- Fire Survival Cables
- EPR, Silicon & EVA Cables

TELECOM

- Optical Fibre Cables
- Armoured Optic Fibre Cables
- Torpedo Cables
- Tow Cables
- Indoor Telephonic Cables
- Composite Cables With OFC
- Fire Survival Cables OFC
- Cat 3 / Cat 5 LAN Cables
- Railway signaling Cables



UNIFLEX CABLES ADMIRER EVERY WHERE



OUR CLIENTS SECOND THE OPINION

Our Clients

Uniflex Cable Sales RS/Cr

Year	Sales (RS/Cr)
2008-09	~100
2009-10	~150
2010-11	~250
2011-12	~350
2012-13	~450
2013-14	~550



POWER & CONTROL CABLES

Innovative Cable Solutions for Power, Control and Instrumentation

- POWER CABLES 1.1 KV (PVC & XLPE)
- POWER CABLES 3.3 KV TO 33 KV (XLPE)
- ABC CABLES UPTO 1.1 KV UPTO 33KV (XLPE)
- CONTROL CABLES UPTO 61 CORES (PVC & XLPE)
- INSTRUMENTATION CABLES 52 PAIRS & TRIADS
- SPECIAL CABLES WITH LSOH / FRLS/ NON-FRLS / FIRE SURVIVAL / FR
- COMPOSITE CABLES WITH OR WITHOUT FIBRE OPTIC CORE
- MANUFACTURE AS PER IS, BS, IEC, VDE AND ANY OTHER INTERNATIONAL STANDARDS.
- 40% OF POWER CABLE BEING EXPORTED
- FULLY EQUIPPED LAB TO TEST PRODUCTS IN OUR IN-HOUSE LABS.
- EXPERIENCE IN MANUFACTURE OF CABLES FOR > 25 YEARS.
- ANTITHEFT POWER CABLES (PREVENT THEFT OF ELECTRICITY)



4



FIBRE OPTIC CABLES

HIGH PERFORMANCE DATA/VIDEO TRANSMISSION

- 2FTO 24F UNITUBE, 2F TO 288F MULTI TUBE.
- SHEATH : HDPE/FRLS/ZHFR
- ALSO AVAILABLE IN FIRE SURVIVAL DESIGN
- RIBBON CABLES: UNITUBE 144F, MULTITUBE 588F
- HYBRID CABLES WITH INTEGRATED FIBER OPTICS
- DUCT, DIRECT BURIAL, CORRUGATED STEEL TAPE ARMORED, ADSS, AERIAL, FIG.8, FTTH CABLES, MINI/MICRO DUCT CABLES.
- ARMURED WITH ROUND STEEL WIRES OR STEEL TAPES
- AS PER BSNL OR ANY NATIONAL AND INTERNATIONAL SPECS.
- SINGLE MODE (G652B, G652D, G655, G656, G657)
- MULTIMODE 62.5/125µ (OM1), 50/125µ (OM2/OM3/OM4)

UNIFLEX EXPORTS OVER 40% OF ITS FIBER OPTIC CABLE TO VARIOUS COUNTRIES IN SAARC & MIDDLE EAST COUNTRIES, BESIDES BEING A KEY SUPPLIER TO RELIANCE INFOCOM, BSNL AND SEVERAL MULTI-SERVICE OPERATORS



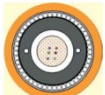
OFC Festoon Cable



Multi-tube Unarmoured



CATV



Unitube Round Wire Armoured



Unitube Armoured



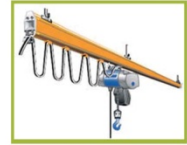
Fire Survival OFC



6



High performance Elastomer Cables for a range of applications



Uniflex Cables enjoys a pioneer status in Elastomer cable segment in India and has been supplying, since 1981, a wide range of Elastomer cables to various industry segments viz. Railways, Ship-Building, Steel, Cement, Power, Defence, Mining sector etc. for almost 3 decades. The company has state of the art manufacturing facility viz. Niehoff multi wire drawing machine, OTOMECH Electroplating tinning, Bunching M/c, Continuous vulcanization lines, high quality extruders, core stranding / laying machines and Autoclaves, and all necessary testing equipments. The company has in house R&D facility and compounding plant to process various types of compounds: VIR/TRS, EPDM, Silicone, CSP, PCP, NBR, EVA, Fluoroelastomers etc. Uniflex manufactures elastomeric cables from 1.1 KV up to 33 KV as per IS, IEC, BS, VDE and other international standards and as per customer specifications.

Our Elastomer cable are in use for following applications:

TRAILING	LANDLINE	COAL CUTTER	STACKER-RECLAIMER
WINDMILL	SHIP WIRING	THIN WALL CABLES	EARTH MOVING EQUIPMENTS
LOCOMOTIVES	MINING	MOTOR LEAD WIRE	MOTOR LEAD WIRES
OIL RIGS CABLE	FESTOON CABLE	SUBMERSIBLE CABLE	HIGH TEMPERATURE SILICONE CABLE
PANEL WIRING	BATTERY CABLE	FIBRE OPTIC CABLES FOR FESTOONING APPLICATION	



5



ELECTRON BEAM IRRADIATION FACILITY

STATE-OF-THE-ART ELECTRON BEAM ACCELERATORS (1.5 MeV & 3MeV) IN WESTERN INDIA HAVING IRRADIATION FACILITY FOR VARIOUS PRODUCTS

- WIRES AND CABLES FOR : RAILWAY LOCOMOTIVES & SHIP WIRING
- SOLAR & WIND POWER NUCLEAR RADIATION RESISTANT CABLES,
- CABLE LIFE > 60 YEARS, BUILDING AND PANEL WIRES (APAR ANUSHAKTI)
- PTFE MICRO POWDER FOR : INDUSTRIAL LUBRICANTS, GREASES, WAXES ETC
- PAINTS, MOULDINGS, PTFE LINING, MOULD RELEASE ADDITIVES, PTFE AS AN ADDITIVES FOR COMPOUNDS

SERVICES OFFERED

- PLUMBING PIPES: XL-HDPE, XL-PVC, XL PE-AL-HDPE
- O - RING & MOULDED COMPONENTS
- INSULATING SHEETS
- THIN FOAM PE SHEETS
- CURING OF ELASTOMERIC SHEETS AND MOULDED PRODUCTS
- COLORATION OF PRECIOUS STONES & DIAMONDS
- MEDICAL STERILISATION
- HEAT SHRINK TUBES AND COMPONENTS
- SEMI CONDUCTORS



7



HYBRID/SPECIALITY CABLES

ONLY CABLE COMPANY IN INDIA OFFERING SUPER SPECIALTY PRODUCTS

- HIGH DENSITY TOW CABLES FOR SONAR DETECTION.
- LOW DENSITY TOW CABLES FOR MINE SWEEPING.
- TORPEDO CABLES (FIBRE OPTIC CABLES) FOR NAVAL SYSTEM.
- UNDER WATER SUBSEA POWER & OPTICAL FIBRE CABLES.
- UMBILICAL CABLES, SEISMIC CABLES AND TETHER CABLES
- TACTICAL/RUGGADIZED OFC FOR ARMY



APAR ANUSHAKTI

APAR'S ANUSHAKTI WIRES SUITABLE TO CARRY EXTRA LOAD WITHOUT DAMAGE TO THE WIRES.

- DEVELOPED IN HOUSE, APAR ANUSHAKTI WIRES WITH SPECIALLY DEVELOPED PVC COMPOUNDS.
- PROTECTION AGAINST ELECTRIC SHOCK/SHORT CIRCUIT
- HIGH OXYGEN & TEMPERATURE INDEX FOR FIRE RETARDANCY
- WIRES CAN EASILY TAKE LONG TERM OVERLOAD OF > 40%
- INSULATION DOES NOT MELT IN CONTACT WITH HOT OBJECT, NON SOFTENING, INFUSIBLE AND NON DRIPPING
- HIGH INSULATION RESISTANCE
- SELF EXTINGUISHING AND NOT CATCH FIRE.
- BETTER AGEING PROPERTIES AND LONGER LIFE

CAN BE USED AT FOLLOWING

- FIRE ALARM SYSTEM, PANEL WIRING,
- METROS, AIRPORTS, SHOPPING MALLS/COMMERCIAL COMPLEXES, AIRPORTS, HOSPITALS ETC.



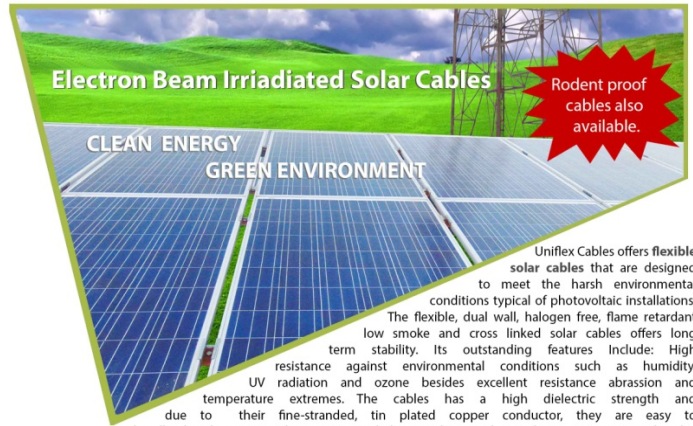
8



Electron Beam Irradiated Solar Cables

Rodent proof cables also available.

CLEAN ENERGY GREEN ENVIRONMENT



Uniflex Cables offers flexible solar cables that are designed to meet the harsh environmental conditions typical of photovoltaic installations. The flexible, dual wall, halogen free, flame retardant low smoke and cross linked solar cables offers long term stability. Its outstanding features include: High resistance against environmental conditions such as humidity, UV radiation and ozone besides excellent resistance abrasion and temperature extremes. The cables has a high dielectric strength and due to their fine-stranded, tin plated copper conductor, they are easy to handle, bend, route, and to strip. Sunlight, gasoline, and petroleum resistance make this an ideal cable ensuring long term photovoltaic system performance for any solar installation.

SPECIALTY CABLES FOR WINDMILLS

UNIFLEX KEEPS WINDMILL ENERGIZED

By 2020, it is estimated that almost 15% of the world's energy will be produced by wind power requiring specialty cables for Tower application and Wind farm distribution. Uniflex is at the fore front in developing these cables offering its range of Low Voltage and Medium Voltage (up to 33 KV), by delivering quality cable solutions to renowned wind mill OEM manufacturers like Suzlon, Gamesa, Lietwind, Garuda Vayushakti, Kenersys, Enercon etc. Having developed an expertise in this segment, Uniflex Cables is now well positioned to expand its horizon to explore International market for these wind mill cables.

Uniflex manufactures chemically cross-linked as well as Electron Beam cross-linked XLPE / Elastomeric insulated cables meeting high standards of quality to meet adverse operating conditions encountered in field application viz. High resistance to Torsional stress, Reduced bending radius (even for Aluminium cables), UV, Ozone and Fire performance, Longitudinal Water Blocking (optional).



9



Safe and Reliable Cable solutions for Nuclear power Plants



Nuclear power plants require high quality cables that meet stringent Nuclear Regulatory Commission standards and are expected to provide trouble free service life for over 40-60 years. Hence it calls for a proper selection of polymer raw materials to be used for Insulation, sheathing and Jacketing. Apar Industries Ltd (Unit:UniflexCables) has been serving the need for such specialty cable requirements of Nuclear Power Corporation of India with their Cable products that meet strict quality-assurance standards to provide them with the maximum level of performance, reliability and safety.

These cables for Nuclear Power Plants need to meet various tests for cable qualifications, ageing management and condition monitoring. Uniflex Cables has developed cables that have successfully passed the Thermal Ageing followed by Radiation Resistance Test, LOCA (Loss of Coolant Accident) test, MSLB (Main steam Line Break) tests meeting the requirements of IEEE-383 for Class 1E Cables and other Fire & Smoke performance (including Fire resistance where required) and Environment tests

Uniflex has supplied large quantities of variety of cables to Nuclear Power Corporation of India (NPCIL) for critical and non-critical applications and is one of the most preferred vendors. The proven range of cables include Power, Control, Instrumentation and Fiber Optic cables and are in use at various plants of NPCIL, India like

- Narora Atomic Power Station
- Rajasthan Atomic Power Station
- Tarapur Atomic Power Station
- Kakrapar Atomic Project
- Kudakulam Nuclear Power Plant
- Madras Atomic Power Station
- Kaiga Nuclear Power Plant
- Kalpakam Atomic Power Stations

10



APAR INDUSTRIES LTD (UNIT: UNIFLEX CABLES)

Corporate Office: 12/13, Jyoti Wire House, 23-A, Shah Industrial Estate, Off. Veera Desar Road, Andheri (West), Mumbai - 400 053
 Fax / Telephone: 022-26740600 / 022-26740001/2/3
 E-mail id: info.cable@apar.com

Registered Office: 301/306, Panorama Complex, R.C. Dutt Road, Vadodara - 390007
 Fax / Telephone: 0265 - 2327186/87 / 0265 - 2322798

WORKS :

Unit : 1 158/163, GIDC, UMBERGAON, DIST. VALSAD, GUJARAT - 396 171
 TEL:0260-2562412, FAX: 0260-2563950

Unit : 2 KHATA NO. 1049, SURVEY NO. 82/2P, 88.861/1, 862/1, 863/1, MANEKPUR ROAD, KHATALWADA, UMBERGAON, DIST. VALSAD, GUJARAT - 396120
 TEL: 0260-2406100, FAX: 0260-2406149

LIST OF BRANCH OFFICES :

NEW DELHI 301/306& 307, BMC House N-01, Block Middle Circle, Connaught circus, New Delhi - 110 001
 Fax / Telephone: 011-23329490 / 011-41523320

KOLKATA Flat No. 24, Gulmohar Building, 6C, Middleton Street, Kolkata - 700 071
 Fax / Telephone: 033-22877562 / 033-22833418

CHENNAI Door Old No. 43, New No. 63, 53rd Street, Ashokk Nagar, Chennai - 600 083
 Fax / Telephone: 044-24892297 / 044-24891508

BANGALORE No.27, Srinilaya, III Main 10th Cross Margosa Road, Malleshwaram, Bangalore - 560 003
 Fax / Telephone: 080-23343415 / 080-23344507

HYDERABAD Flat No. 907, 9th Floor, Babu Khan Estate, Basheerbagh, Hyderabad - 500 001
 Fax / Telephone: 040 - 23243406 / 040 - 23298514

VADODARA 301/306, Panorama Complex, R.C. Dutt Road, Vadodara - 390007
 Fax / Telephone: 0265 - 2327186/87 / 0265 - 2322798

11