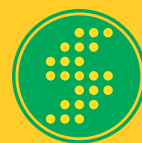


AS 9100  
&  
ISO 9001  
COMPANY

# AEROSPACE WIRES & CABLES

## PRODUCT APPLICATION

- SATELLITE
- INTERPLANETARY MISSION
- LAUNCH VEHICLE
- AIRCRAFT
- HELICOPTER
- DEFENCE ELECTRONICS
- HI-REL ELECTRONICS
  - Radiation Resistance
  - UHV Compatible
  - Low Outgassing



**Sanghvi**

**AEROSPACE (P) LTD.**

## A COMPANY PROFILE

Sanghvi Aerospace Pvt. Ltd. (SAPL) was established in 1992 to meet the requirement of hi-rel electrical wires and cables used by Indian Aviation and Space Industry. Since then company has developed varieties of products and obtained necessary approvals for on-board use of satellites, launch vehicles, Aircrafts, Helicopters etc. We achieved this with considerable international training / exposure from world leaders and with the involvement of Scientists / Engineers of ISRO, HAL and approving authorities. We have evolved special skills to adopt for R & D culture. We provide customized solutions for their specific needs.

We are dependable supplier due to superlative product quality, space history and aviation heritage combined with proven customer service and technological excellence. We are well accepted as reliable and cost competitive supplier.

We have in-house state-of-the-art manufacturing and testing facilities to conduct 'Qualification / Type Approval' and 'Lot / Product Acceptance' tests as per applicable National / International specification.

Consistency of quality and total reliability are our building blocks towards excellence. In fact, the company's corporate axiom dictates that '**Quality is to be built in; not to be looked for**'. We are AS 9100 and ISO 9001 company.

## QUALITY POLICY

TO DESIGN, MANUFACTURE AND SUPPLY  
AEROSPACE WIRES & CABLES  
THAT ENHANCES CUSTOMER SATISFACTION  
AND MAKE US SUPPLIER OF CHOICE  
BY PROVIDING;

- Innovative design, Process Management and Continual Improvement
- Quality Products of International Standards
- On-time Delivery Performance
- At Competitive Price



**COMMITTED TO**  
*R***ELIABILITY**

## AN ABRIDGED CUSTOMER-PROFILE

- U R Rao Satellite Centre - ISRO (Bengaluru)
- Space Application Centre (Ahmedabad)
- Vikram Sarabhai Space Centre (Thiruvananthapuram)
- Liquid Propulsion System Centre (Bengaluru, Valiamala)
- Hindustan Aeronautics Ltd, (Bengaluru, Kanpur, Nasik, Barrackpore, Korwa, Hyderabad & other units)
- Defence R & D Organizations / Laboratories (DRDO & DRDL) like ADA, ADE, CABS, GTRE, RCI, ASL, DLRL, ANSI, ANSP etc.
- Public Sector Units like BEL, ECIL etc.
- Indian Airforce (BRD / ED at Kanpur, Nasik, Chandigarh)
- Material Organisation and Naval Dockyard of Indian Navy at Kochi, Visakhapatnam & Goa
- National Aerospace Laboratory (NAL), Bengaluru
- Institute of Plasma Research (IPR), Gandhinagar
- Private Sector Units

## USED IN PRESTIGIOUS PROJECTS LIKE

- **INTERPLANETARY MISSION:**  
CHANDRA YAAN, MANGAL YAAN
- **SATELLITE:**  
IRS, INSAT, GSAT, IRNSS, COMSAT, METSAT, CARTOSAT, GEOSAT, RISAT, SROSS, OCEANSAT etc.
- **LAUNCH VEHICLES:**  
ASLV, PSLV, GSLV etc.
- **AIRCRAFT:**  
LCA (Tejas), DORNIER (Do-228), AN-32, SARAS, JAGUAR, IJT -36, HTT-40, AVRO (HS-748) etc., and for upgrade & maintenance of MIG, Sukhoi Su30 etc.
- **HELICOPTER:**  
ALH-DHRUVA, RUDRA, LUH, LCH, CHEETAH, CHEETAL, CHETAK, SEA KING etc.
- **UNMANNED AERO VEHICLE (UAV):**  
LAKSHYA, NISHANT, RUSTOM etc.



## PRODUCT RANGE

These wires and cables are made from:

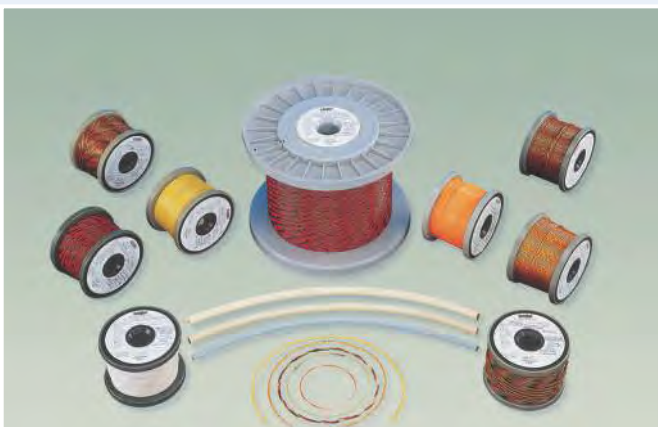
- **Conductor** : Solid or Multi-strand Silver / Nickel / Tin plated Copper / Copper Alloy / Copper Covered Steel Wire
- **Insulation** : PTFE, Polyimide, Composite of PTFE & Polyimide, Siliceous Fiber, Fiber glass, Silicon etc.
- **Shield** : Braids of Silver / Nickel / Tin plated Copper wire
- **Jacket** : Polyimide, PTFE, PTFE + Polyimide, Fiberglass, Nomex etc

The SPC/NPC/TPC conductor is manufactured in our group company SPC Products to ensure complete quality control over final product. Our product range meets the design and technical requirements of below mentioned specifications.

No.	Product / Service	Military Specification	Detailed Specification Sheet
1	<b>Polyimide (Kapton®)</b> Insulated Wire	MIL-DTL-81381	/7, /8, /9, /10, /11, /12, /13, /14, /17, /18, /19, /20, /21, /22
2	<b>FP / Polyimide / FP (Hybrid) Tape &amp; FP Tape Insulated (Composite) Wire [FP=Modified PTFE]</b>	MIL-DTL-22759	/80A, /81A, /82A, /83A, /84A, /85A, /86A, /87A, /88A, /89A, /90A, /91A, /92A.
3	<b>Fire Resistant, Flight Critical Wires</b>	MIL-DTL-25038	/1, /3, & Equivalent to Filotex 1100, 1200, 3000, 3100
4	<b>Cable of above "Wires"</b> <ul style="list-style-type: none"> <li>• Single Core / Multicore</li> <li>• Twisted / Without Twisted</li> <li>• Shielded / Without Shielded</li> <li>• Jacketed / Without Jacketed</li> </ul>	MIL-DTL-27500	MR, MS, MT, MV, MW, MY, NA, NB, NE, NF, NG, NH, NK, NL, WB, WC, WE, WF, WG, WH, WJ, WK, WL, WM, WN, WP, WR, JA, JF.
		Jacket Style	11/61, 12/62, 06/56, 07/57, 24/74
6	<b>"K" Type Thermocouple Extension Wire &amp; Cables</b>	MIL-W-5846C, BS-4937, MIL-DTL-27500	All items of "K" Type
7	<b>Aromatic Polyimide Lacquered Wire ("Magnet Wire")</b>	NEMA : MW-1000, IEC 317-7	/16C Part 7
8	<b>Russian Type Cables: BIN, BPDO, BPDOU, PTL-200 / 250, BIF, BIFM, BFS, BPVL, BPVLM, MGTFL, MGSHV, MS 16/26/36-P / MS-16/26/36-13-33</b>	Applicable Russian Specifications	All items
9	<b>DOLN Type Cable (For Dornier)</b>	Applicable Dornier Specifications	All items

## APPROVALS

- CEMILAC: (Centre for Military Airworthiness & Certification) and RCMA: (Regional Center for Military Airworthiness) for on-board Military Aircrafts / Helicopters use
- DGCA: (Director General of Civil Aviation) with Release Note Signatory for on-board Civil Aircrafts / Helicopters use
- ISRO: (Indian Space Research Organisation) for on-board Satellite & Launch Vehicle use



## QUALITY ASSURANCE

Our wires and cables have to perform reliably, time after time, in highly adverse, difficult and demanding environments. With this in mind, the quality management system has been designed and currently certified as per AS 9100 and ISO 9001.

- Use of best available raw materials, the-state-of-the-art technology, tailor made exclusive plant, machinery and test facilities; along with the precise control mechanism and systems to ensure consistent quality products, day in and day out.
- Implemented raw material inspection, Defined process parameters monitoring, in-process and finished products testing and appropriate packaging etc.
- Each and every aspect of production process is cross integrated to ensure minuscule monitoring of every phase and verification as per National and International standards.
- Use of calibrated quality control & measuring equipment by NABL approved labs to national standards.
- Unique total traceability system at any time.
- Frequent internal and external auditing
- Continuous improvement plan for major activities

The customer's confidence in quality is achieved through witnessing qualification / lot acceptance test of finished products by their quality control inspector. All products are supplied with detailed actual observed test results and traceability references.



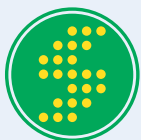
## THE INDISPENSABLE HUMAN FACTOR

Behind every great success, there is a team of people harnessed with special talents, expertise, vision, drive and commitment. Sanghvi Aerospace Pvt. Ltd. Is a prime example. The team is led by Ketan Sanghvi and Bhushan Sanghvi, both highly qualified technocrats with over several decades of hands-on experience among them. Over the years, they have created and nurtured an outstanding talent pool of techno-managers in the company specialized in planning, product design & development, production, quality assurance, testing & analysis, techno-counseling and customer relationships.

## ACHIEVEMENT / AWARD / LAURELS

Our company has received many prestigious awards, laurels, and appreciation letters.

1. We are recipient of Award for "Excellence in Aerospace Indigenization" by Society of Aerospace Industries and Technologies in 1992 & 2006.
2. Certificate for being among the first components developed & qualified in India for Space Applications from ISRO (1993).
3. Winner of Trend Setter / Innovative Achiever Award by GIS. (2014 & 2015.)
4. Life time achievement Award to our Director by SIATI . (2016).
5. Facilitation for our contribution to Indian Space & Aviation R & D Program (Project) on various occasion.



# sanghvi

**AEROSPACE (P) LTD.**

**MFG. AEROSPACE WIRES & CABLES**

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• We also have our local office / representative at Bengaluru, Thiruvananthapuram, Nasik, Kanpur & Hyderabad.

