



ABOUT US

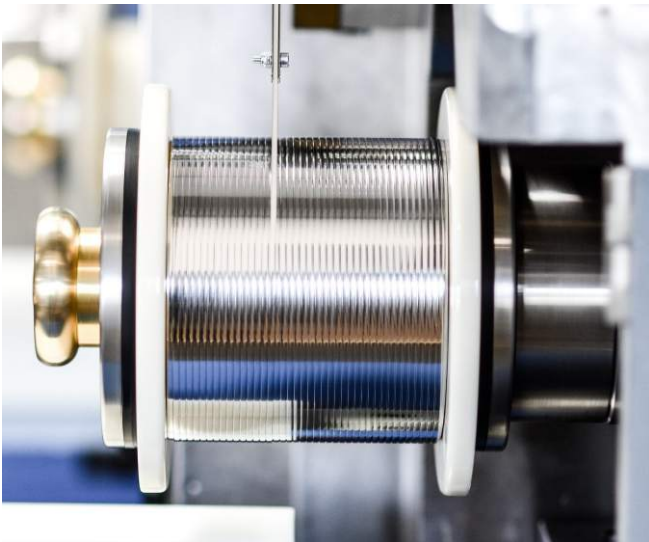
Sumati Electronics Private Limited, a leading manufacturer of copper as well as aluminum wires and strips with a track record of consistent performance and corporate excellence for more than 25 years. It is situated in Meerut, near the National Capital Region, which is the hub for India's business.

Over the years, Sumati Electronics has surfaced itself as a name to break benchmarks with when it comes to catering to customized customer demands and surpassing expectations through continuous Research and Development by the team of extremely qualified engineers in its diverse field. Hence the continuous R&D took a leap further to form the straightest, softest and flattest photovoltaic wire- interconnect ribbon and bus bars for interconnection and module assembly of solar cells. Like all our other existing products we tend to excel and stand at the forefront of solar power movement, connecting the world to benefits of renewable, zero-pollution energy from the sun.



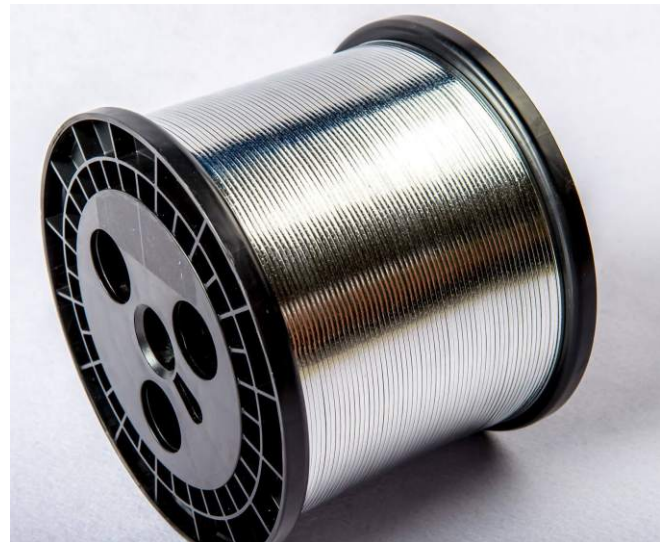
PV ribbon wire, being an elemental component in each and every mainstream solar panel, is used to interconnect solar cells and provide connection to the junction box.

Sumati's solar ribbon materials portfolio meets the stringent requirements of commercial PV manufacturers today. Characterized by their excellent uniformity, solderability, and elongation, our solar tabbing ribbons can deliver a yield rate upwards of 98.5%, enabling manufacturers to increase productivity while keeping manufacturing costs low. Our products are as follows:



The Interconnect Super Soft PV Ribbon

Solar cells are electrically connected using tinned copper ribbon known as PV Interconnect ribbon or Tabbing Ribbon. These ribbons are fused directly onto silicon crystal to interconnect solar cells in a solar panel. The tabbing ribbon transmits the current generated in solar cells created by the cluster of solar cells generated by tabbing to the PV bus bar.



Bus Bar

PV bus bar is a strip of copper that conducts electricity within a module or string of cells. It is installed around the perimeter of the solar panels. PV bus bar connects interconnect ribbons to the junction box for final output.

Interconnect Ribbons can be considered like roads stretching across cells while the bus bars are like highways connecting the tabbing ribbons together.



POWERING NATION

**OXYGEN
FREE COPPER**

Why SUMATI ELECTRONICS Photovoltaics?

HIGH QUALITY INPUT = PURITY + RELIABILITY

The PV Ribbon provided by Sumati is manufactured from OXYGEN-FREE high purity copper purchased directly from Hindalco and Vedanta. Apart from this we deal in all typical coatings including silver based and Ro-HS complaint lead-free coating.

Being a consistent manufacturers of copper products for more than 25 years, we have full in-house facility to process raw material which guarantees the high end output.

PEOPLED BY BRILLIANCE

Sumati Electronics is driven by a way of work that lays stress on continuous R&D as well as innovation and is also powered by the strategic leadership of a team of highly experienced technocrats and visionaries at its helm. Apart from the highly qualified technicians and engineers, we have a strong team of dedicated and qualified production, marketing and production personnels.

Best Testing Equipments

At Sumati, we have the best equipment like spectrometer for testing the products which ensure accuracy to the tightest tolerances of thickness as well as width. We also ensure by double checking the highest possible consistency and 100% coverage of coating without having the risk of discoloration.

Lowest Yield Strength Leading To Higher Efficiency

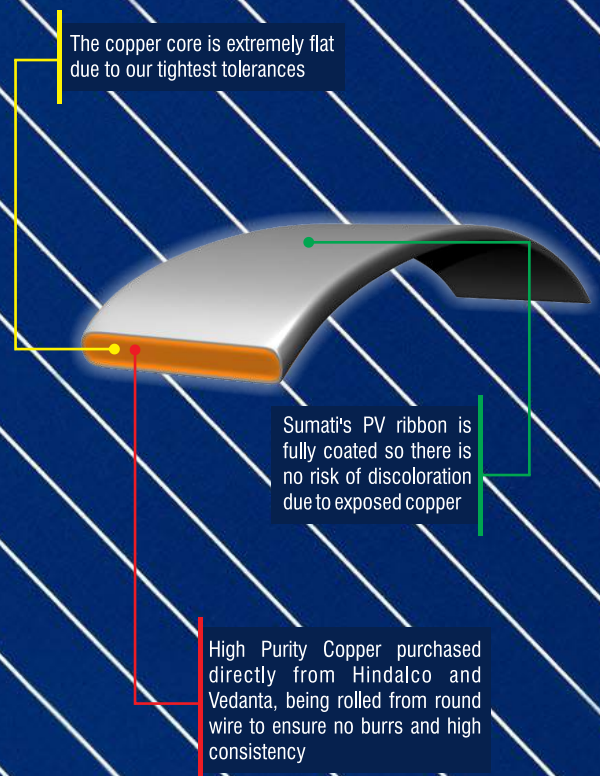
The quality of our PV ribbon ensures panel efficiency and durability of solar cells during soldering because of its soft copper which has a yield strength well below 70N/mm² in normal production. As a result, cell breakage is much less likely, which improves the overall efficiency of solar PV module assembly.

Customer As Priority

As we have a team of highly qualified engineers and technicians that work closely with our market research team, we make sure to cater to every client's customized needs and provide the best possible solutions in choosing the right product individually to each customer.

Sustainability

We at Sumati are excited by the almost limitless growth potential of the SOLAR POWER SECTOR, and thrilled by the role it can play in ushering a greener, more sustainable planet. And hence we are always there to do what it takes! As a producer of world-class PV interconnect ribbons and bus bars.



SPECIFICATIONS

PV-Interconnect Ribbon Range

AVAILABLE SIZES

Particulars	Range	Remarks
Width	0.6mm - 2.5mm	As Per Customer Requirement
Thickness	0.1mm - 0.4mm	As Per Customer Requirement

COATING

Particulars	Range	Remarks
Base Metal	Oxygen Free Copper, ETP Grade Copper	As Per Customer Requirement
Plating	Tin, Lead, Silver	Standard: Tin 60% Lead 40% Tin 62% Lead 36% Silver 2%
Plating Thickness	$\geq 20 \mu\text{m}$ (Single Side)	Can be changed as per customer requirement

SOFTNESS

Particulars	Range	Remarks
Elongation	25% - 35%	Soft - 25% Super Soft - 30% Extreme Soft - 35%
Yield Strength	55N/mm ² - 70N/mm ²	Soft - 70N/mm ² Super Soft - 60N/mm ² Extreme Soft - 55N/mm ²



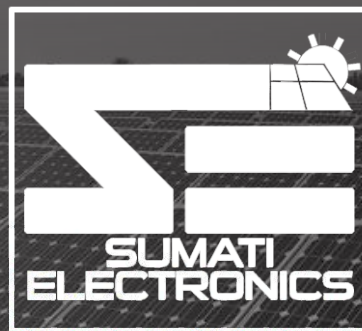
SPECIFICATIONS

PV-Busbar Range		
AVAILABLE SIZES		
Particulars	Range	Remarks
Width	2.5mm - 8.0mm	As Per Customer Requirement
Thickness	0.1mm - 0.5mm	As Per Customer Requirement
COATING		
Particulars	Range	Remarks
Base Metal	Oxygen Free Copper, ETP Grade Copper	As Per Customer Requirement
Plating	Tin, Lead, Silver	Standard: Tin 60% Lead 40% Tin 62% Lead 36% Silver 2%
Plating Thickness	$\geq 20 \mu\text{m}$ (Single Side)	Can be changed as per customer requirement
SOFTNESS		
Particulars	Range	Remarks
Elongation	25% - 35%	Soft - 25%
		Super Soft - 30%
		Extreme Soft - 35%
Yield Strength	55N/mm ² - 70N/mm ²	Soft - 70N/mm ²
		Super Soft - 60N/mm ²
		Extreme Soft - 55N/mm ²



"I'd put my money on the sun and solar energy. What a source of power! I hope we don't have to wait until oil and coal run out before we tackle that."

-Thomas Edison, 1931



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