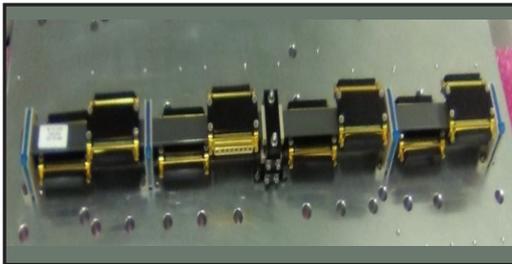


Bus bars for satellite

U R Rao Satellite Centre (URSC) of Indian Space Research Organization (ISRO) has designed and developed bus bars for high power satellites for power distribution. Bus bar systems are an effective solution to minimise power losses in harnesses used in electrical distribution systems of high power satellites.

Bus bars offer low resistance minimizing the power loss. They also possess excellent thermal properties due to the shape and surface area aspects.



Salient Features

- ✦ Made of aluminium alloy with two layer insulation viz., Micro Arc Oxidation, Epoxy coating.
- ✦ Two layer insulation near connector soldering area through conformal coating and Potting.
- ✦ Variable lengths tailored to suit specific satellite based on number end use connectors.
- ✦ Validated for all environmental conditions like shock and vibration, Thermo vacuum, outgassing, etc.

Major Specifications

Type	2 x I
Rating	100 A, 70 VDC
Insulation Resistance	> 1G Ω @ 500VDC
Basic conducting material	Al Alloy with silver plating @ connector interfaces
End to End Resistance	0.5 milli Ω / mtr
Connector make & type	Space qualified high power connectors
Contact resistance	Less than 1 m Ω per solder joint

Technology Transfer

URSC/ISRO offers to transfer this technology of developed Bus bars technology by URSC to industries in India with adequate experience and facilities. Industries interested in obtaining knowhow may write giving details of their present activities, infrastructure and facilities.

Technology Transfer & Industry Coordination Division (TTID),
Programme Planning and Evaluation Group (PPEG),

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🌐 <https://www.ursc.gov.in/industry/index.jsp>