



Aditya Birla Power Composites Limited



COMPOSITE HOLLOW CORE INSULATORS MADE IN INDIA

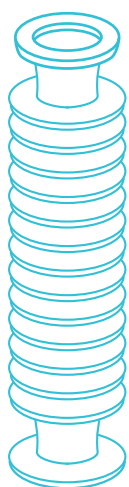




Aditya Birla Power Composites Limited

About the Company

Aditya Birla Power Composites Limited (ABPCL) is a Joint Venture Company in India of Grasim Industries Limited and Maschinenfabrik Reinhausen GmbH (MR) of Germany. ABPCL has set up a state-of-the-art Composite Hollow Core Insulator (CHCI) manufacturing plant at Halol, Gujarat, India.



This joint venture brings together Aditya Birla Insulators, a unit of Grasim Industries Limited, one of the largest global porcelain insulator players and Reinhausen Power Composites, a Unit of MR, a leading full-range supplier of hollow composite insulators with over five decades of combined experience in the insulator industry. ABPCL built a fully integrated Composite Hollow Core Insulator plant at Halol, bringing the latest technology for Composite Hollow Insulators from Europe. It serves the insulator requirements of Indian and global OEMs in the Power Equipment industry, helping them to enhance their product proposition for the T&D Utilities worldwide.



Aditya Birla Power Composites Limited

Insulators for all high voltage applications



CIRCUIT BREAKER



BUSHINGS



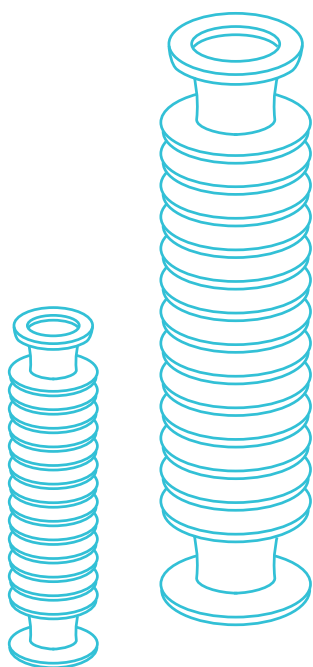
POST INSULATORS



INSTRUMENT TRANSFORMER



CABLE TERMINATION





Aditya Birla Power Composites Limited

Two competent partners. One complete portfolio to serve worldwide demands.

FEATURES

- Complete manufacturing range under one roof
- Latest state of the art HTV injection molding process
- First class filament winding technology for tube manufacturing
- All requirements of IEC 61462 and IEC 62217 fulfilled with standardised high creepage profile

PRODUCT RANGE

The production in Halol produces insulators up to 400 kV, the production in Europe up to 1100kV DC / 1200kV AC.



BENEFITS AT A GLANCE

- Economic insulator design and manufacturing
- Best pollution performance
- Alternating shed profiles
- High creepage housing profile for AC and DC
- Robust mechanical & electrical design



Aditya Birla Power Composites Limited

Seamlessly developing the finest market offerings

Cutting edge technology to deliver consistent quality products

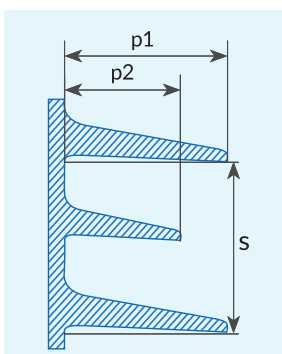


Composite Hollow Core Insulators

Under "ABPCL" brand name, we manufacture hollow composite insulators with HTV silicone sheds.

ABPCL composite hollow core insulators offer a number of advantages like being substantially light weight, extremely durable and earthquake resistant. The insulators maintain their water-repellent characteristics, and thus their excellent insulating properties, even under extreme environmental conditions. In the event of failure or external damage, they are explosion-proof and do not scatter any hazardous parts.

MR's 30 years of experience in dimensioning, producing and processing fiberglass-reinforced tubes and state-of-the art production equipment is your guarantee of a very high level of reliability. To achieve these goals at the development stage, the insulators are designed with CAD systems and programs for mechanical and electrical FEM calculations. Our operation is also ISO 9001:2015, ISO 14001:2015 and ISO 45001:2018 certified. Ultra-modern test equipment and regular inspection of all materials and production processes far beyond the requirements of relevant standards ensure this quality. Additionally, all of this is done in a very short delivery period. All requirements of IEC 61462 and IEC 62217 are fulfilled.



Alternating Shed profile, creepage factor approx. 3.9

Advanced Materials and Processes:

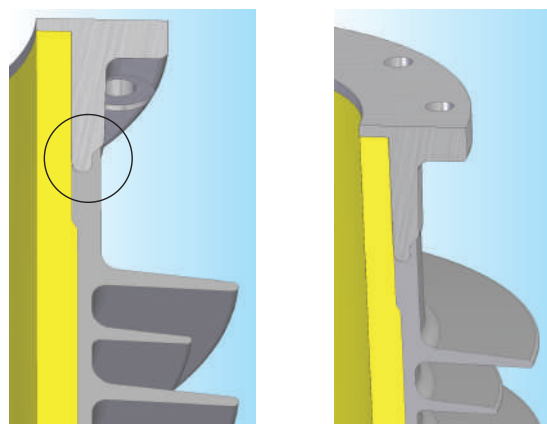
- FRP manufactured with glass and epoxy resin
- Ozone and UV resistant HTV silicone
- Flammability classification V0

Housing Profile:

- Housing profile in accordance with IEC60815-3 (AC) and IEC60815-4 (DC)
- All sheds with inclined underside
- Optimal creepage distances
- Low leakage currents due to HTM material

Interfaces and End Fittings:

- HTV silicon rubber housing with high tracking and erosion resistance
- Perfect protection of triple point
- Alumina flanges made of high quality mold casting



Certifications



BUREAU
VERITAS

Bureau Veritas Certification



ADITYA BIRLA POWER COMPOSITES LIMITED



SURVEY NO- 43,45,46, DUNIYA, TALUKA- HALOL, HALOL-KALOL ROAD,
DIST- PANCHMAHAL – 389 350, GUJARAT, INDIA.

Bureau Veritas Certification Holding SAS – UK Branch certifies that the Management System of the above organization has been audited and found to be in accordance with the requirements of the Management System Standards detailed below.

Standards

ISO 9001:2015, ISO 14001:2015 &
ISO 45001:2018

Scope of certification

MANUFACTURING AND SUPPLY OF HOLLOW CORE COMPOSITE
INSULATORS FOR USE IN ELECTRICAL SYSTEMS

Original cycle start date: 16 March 2022

Expiry date of previous cycle: Not Applicable

Certification Audit date: 28 January 2022

Certification cycle start date: 16 March 2022

Subject to the continued satisfactory operation of the organization's Management System, this certificate expires on: 15 March 2025

Certificate No. IND.22.6696/IM/U Version: 1 Revision date: 16 March 2022

Signed on behalf of BVCH SAS UK Branch
Jagdheesh N. MANIAN
Head – CERTIFICATION, South Asia
Commodities, Industry & Facilities Division



Certification body address: 5th Floor, 66 Prescott Street, London, E1 8HG, United Kingdom.
Local office: Bureau Veritas (India) Private Limited (Certification Business)
72 Business Park, Marol Industrial Area, MIDC Cross Road "C",
Andheri (East), Mumbai – 400 093, India.

Further clarifications regarding the scope of this certificate and the applicability of the management system requirements may be obtained by consulting the organization.
To check this certificate validity please call +91 22 6274 2000.



Insulator Specification Form



Sample Form for reference only.

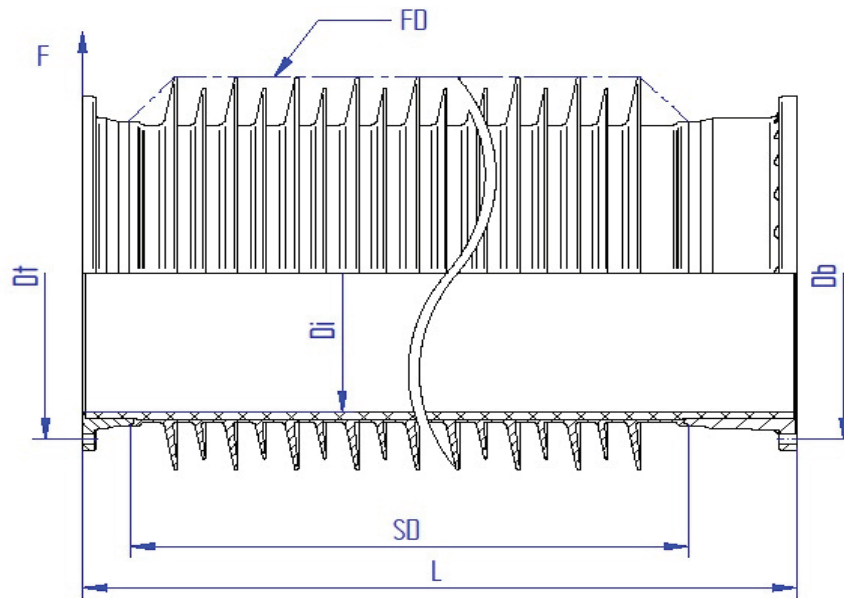
Aditya Birla Power Composites Limited

Customer:

Contact person:

Insulating medium:
 Service temperature: min max

Project:
 Application:
 Voltage class: AC DC kv



Dimensional Data Insulator:

Length (L): mm
 Minimum inner diameter (Di): mm
 Minimum strike distance (SD): mm
 Minimum flashover distance (FD): mm
 Minimum creepage distance (CD): mm
 Type of silicone: LSR HTV

Top flange

Type of holes: [Ø mm] or [M]
 Number of holes:
 BCD top flange (Dt): mm
 Flange number (ABPCL will check):

SD = insulating length (silicone start to silicone end incl. Flange overmolding)
 FD = flashover distance (equivalent to IEC definition "arcing distance")

Mechanical Data acc. IEC 61462:

Maximum mechanical Load (MML): N
 Maximum deflection at MML: mm
 Maximum service pressure (MSP): bar
 Specified internal pressure (SIP): bar

Bottom flange

Type of holes: [Ø mm] or [M]
 Number of holes:
 BCD top flange (Dt): mm
 Flange number (ABPCL will check):

Project Information:

Annual qty Project quantity: pieces
 First quantity (e.g. qualification): pieces
 First delivery (at customer): date
 Insulator drawing number (at customer): new

Please send us your product requirements in the form by scanning the below code:



Comments:





A Joint Venture of
Grasim Industries Limited, India and
Maschinenfabrik Reinhausen GmbH, Germany



ADITYA BIRLA POWER COMPOSITES LIMITED

CIN: U31900GJ2019PLC110313

Works: Survey No. 43,55,56, Duniya, Taluka-Halol, Halol-Kalol Road, Panchmahal Gujarat-389350
Reg. Office: Survey No. 158-159, Meghasar, Taluka-Halol, Halol-Kalol Road, Panchmahal Gujarat-389330
www.adityabirlapowercomposites.com

Sales Team

E-Mail (Domestic): abpcl.sales@adityabirla.com

E-Mail (Exports): rpc@reinhausen.com

Please note: The data in our publications may differ from the data of the devices delivered. We reserve the right to make changes without notice.