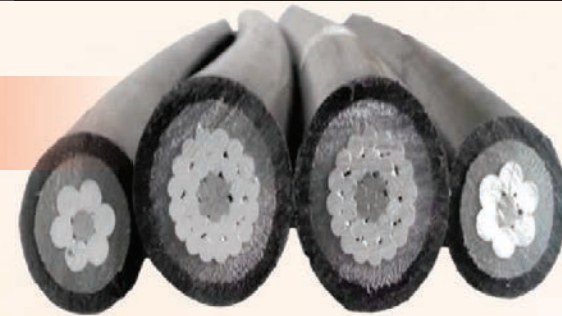




BENEFITS OF MVCC



- Reduced Conductor Slashing.
- Reduced right of way.
- Reduce power interruptions and outage.
- No interruptions by contact of tree branches or creepers.
- Reduced operation and maintenance cost.
- No faults due to clashing of phase conductors during wind and stormy conditions.
- Better reliability under bad weather conditions like heavy snow fall, windy or stormy conditions.
- Protect big birds and animals: Peacocks, Flamingos, Elephants etc.
- Phase to Phase conductor distance can be reduced which can reduce the tower related costs.
- Negligible Leakage Current on surface of the Covered Conductors.
- Covered conductor is self- supporting and can have pole spans of 60 to 70 meters.
- Increasing the power distribution network reliability.
- Effectively used in difficult terrain and in densely populated areas.
- Lower total cost of ownership over the life cycle compared to underground cables or Aerial Bunched Cables.
- Same corridor of an old bare overhead line can be used for covered conductors.
- The pole man span of AB cables are short, as the full cable weight has to be carried by a single messenger conductor.
- Ideal for installation in forest areas and bird sanctuaries.
- Cheaper alternative to underground cables and AB cables.



WHERE THE COVERED CONDUCTORS ARE USED

- HILLY AND MOUNTAIN AREAS: Electric network reliability is vulnerable in hilly areas due to flash of conductors. High winds and storms, tree falling, lightning, etc.
- COASTAL AREAS AND RIVER CROSSING: High velocity wind, heavy moisture and cyclone prone atmosphere will disrupt the power supply very frequently. Corrosion will bring down the life of bare overhead conductor to a large extent.
- HIGH DENSITY RESIDENTIAL AREA: Accident prone, flashing due to human interference. Theft, unsafe livestock.
- DENSE FOREST, BUSHFIRE DANGER AREAS: Recent forest fire of Australia, California is best examples. This will avoid total flashing of conductors, protection from lightning, due to hard outer jacket over the insulation and less space birds and wild life will be safe.



Dynamic Cables Ltd.

An ISO 900:2015 & OHSAS 18001:2007 Company
(A GOVT RECOGNIZED STAR EXPORT HOUSE)

MVCC-MEDIUM VOLTAGE COVERED CONDUCTOR

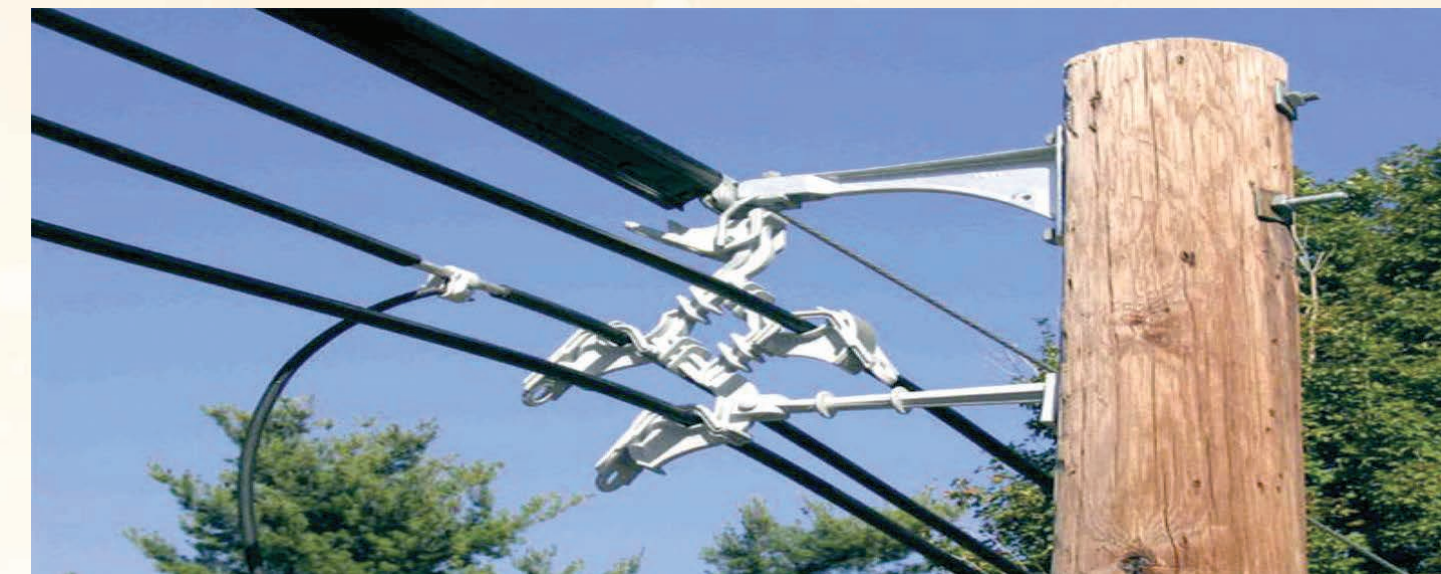
A step ahead to the technology



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MVCC-MEDIUM VOLTAGE COVERED CONDUCTOR



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Unit-IV :
A-129, A-129A, A-130, SKS Industrial Area, Reengus-Sikar

COMPANY PROFILE

Dynamic Cables Ltd., Jaipur, Rajasthan India is a trusted and reliable name in the area of design, manufacturing, testing, supplying and exporting different types and sizes of cables and conductors for primary and high voltage. The company meets the requirements of Transmission lines, Substations & Distribution networks in India & Overseas.

With permanent client base and expanding markets in India and overseas over 30 years, Today the Company has three state of the art manufacturing units with ultra-modern plant, machinery, in-house testing facilities, power back up, logistic facilities, raw material storage etc. to meet any manufacturing and delivery requirements of our clients. Company has skilled and experienced manpower in different disciplines supported with five marketing offices in Delhi, Mumbai, Vadodara, Hyderabad and Kolkata and a Marketing and Export Department at headquarters to serve Indian and overseas clients. In some overseas countries we have local agents for immediate support, liaisoning and after sales service etc.

Company Certifications include ISO 9001:2015, OHSAS 18001:2007, ISO 14001:2007 & CE.

Company's main focus is in designing, manufacturing & supply of HT & LT XLPE Power Cables (up to 66KV): Up to 1000 sq. mm, HT & LT Aerial Bunched Cables (up to 33KV): Up to 400 sq. mm, LV PVC Power/Control Cables: Up to 400 sq. mm, Communication Cables, AIRDAC Cables & Bare/ Insulated Copper Conductors, FRLS/ FR/ LSZH Cable, Solar Cables ACSR/ AAA / AA Conductors (up to 91 strands) Bare/ Insulated: Up to 1000 sq. mm, Railway Signaling, Power & Quad cables, Medium Voltage Covered Conductor and Earth wires & stay wires.

Apart from serving the clients all over India, Company has permanent and ever growing overseas client base in countries such as Afghanistan, Syria, Jordan, Senegal, Gambia, Guinea, Liberia, Ghana, Nigeria, Togo, Benin, Ethiopia, Kenya, Uganda, Congo, Tanzania, Rwanda, Mozambique, Mauritius, Burkina Faso, Gabon, Malawi, Iraq, Mauritania, Libya, Yemen, Zambia, Laos, Nepal & Bhutan

Our Company's VISION is 'To become a preferred Global brand for Cables and Conductors while leading the way for socially conscious businesses where customers are the pivot. Our mission statement expresses our desire 'To build and unite a team of individuals that are motivated and stimulate innovation resulting in technological up gradation and improved products while complying with the business ethics.'

CONDUCTOR



Medium Voltage Covered Conductors are developed to improve the reliability of the distribution of electricity. The concept of covered conductor has proven to be extremely functional and reliable. It consists of a conductor surrounded by a covering made of insulating material as protection against accidental contacts with other covered conductors and with grounded parts such as tree branches, etc. Medium voltage covered conductors are produced in voltage rating between 6.6KV to 33KV. The applicable standards for MVCC are IEC: 61089/ IS: 398 Part-II/ BS EN: 50182/50397

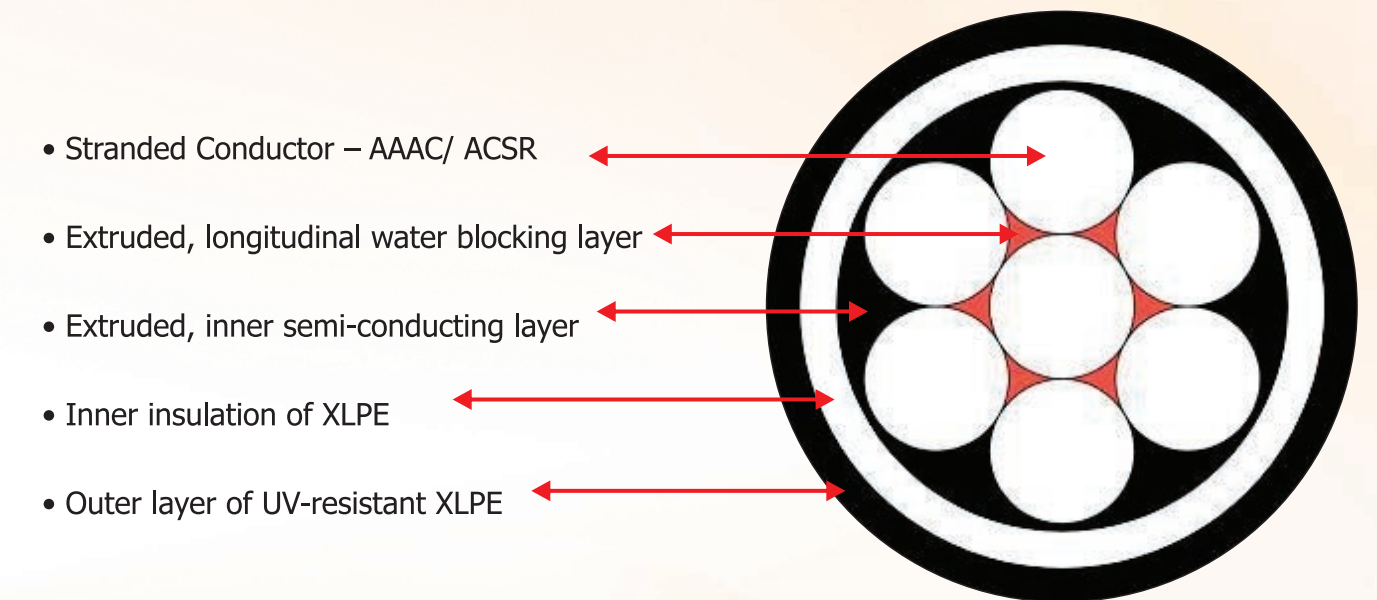
CHALLENGES FACED BY BARE CONDUCTOR

- Conductor Slashing Due to Corrosion.
- Reduced Right of Way (ROW).
- Safety (Road/ Rail/ River crossing/ Slums/ Congested Residential areas etc.).
- Outage due to temporary tree contact.
- Electromagnetic field effect on electronic surveillance.
- Frequent Break downs due to high velocity wind and Forest fire./ bush fire.
- Conductor flashing and limited capacity.
- High space required for erection and operations.



CROSS SECTIONAL DRAWING OF COVERED CONDUCTOR

Covered Conductors are manufactured with longitudinally water tight construction with AAAC/ACSR conductor. These are XLPE insulated anti tracking with UV-resistant outer sheath.



APPLICATIONS:

Conductor (MVCC) is becoming as one of the best replacement of Over Head Bare Conductor (ACSR) and Aerial Bunched cable in power transmission and distribution system in some part of the world. The uses of Covered Conductor which is similar like SAC (Space Aerial Bunch Cables) are seen in South Korea, Japan, Iran, Myanmar and some parts of Australia. It has a very successful journey so far.

- Covered Conductor is extensively used in voltage up gradation projects ranging between 6.6KV to 66 KV.
- Covered Conductors can function smoothly with conductor temperature up to 80°C and in corrosive and highly polluted area.
- The outer jackets of covered conductors being UV resistant, it can be used in high UV radiation areas.
- Covered Conductors fulfill the demands in extreme cold environment with heavy snow and ice load.