



MINING CABLES

**We Manufacture
Import Substitutes**

Few Prestigious Customers

 <p>Neyveli Lignite Corporation Ltd., Neyveli</p>	 <p>Eastern Coalfields Limited</p>	 <p>Western Coalfields Limited, Nagpur</p>	 <p>South Eastern Coalfields Ltd., Bilaspur</p>	 <p>Bharat Coking Coal Ltd. Danbad</p>
 <p>Manganese Ore (India) Limited</p>	 <p>National Mineral Development</p>	 <p>Coal India Ltd. Singrauli</p>	 <p>Hutti Gold Mines Co. Ltd.</p>	 <p>National Aluminum Com. Ltd.</p>
 <p>Oil and Natural Gas Corp. Ltd.</p>	 <p>Neyveli Lignite Corporation Ltd. Bikaner</p>	 <p>JMS Mining Pvt. Ltd.</p>	 <p>Singaneri Collieries Co. Ltd.</p>	 <p>Karnataka Power Corporation Raichur</p>
 <p>Raichur Power Cop., Karnataka</p>	 <p>UP Power Corporation Annapara</p>	 <p>Mahanadi Coalfield Ltd.</p>	 <p>Hindustan Copper Ltd.</p>	 <p>Kudremukh Iron Ore Company Limited</p>
 <p>Jindal Steel & Power Ltd.</p>	 <p>Adani Port & Special Ltd</p>	 <p>Steel Authority of India Ltd.</p>	 <p>Larsen and Toubro</p>	 <p>MECON Limited</p>
 <p>Hindustan Petroleum Corp. Ltd.</p>	 <p>Jindal Stainless Hisar Ltd.</p>	 <p>Rashtriya Ispat Nigam Limited</p>	 <p>Telangana State Power Gen. Corp. Ltd.</p>	 <p>Jawaharlal Nehru Port Trust</p>
 <p>Gujarat Narmada Valley Fertilizers Co. Ltd.</p>	 <p>ABB India limited, Bangalore</p>	 <p>Renew Power Ventures Pvt. Ltd.</p>	 <p>Adinath Equipments Pvt. Ltd.</p>	 <p>Aador Multi Products Ltd.</p>
 <p>Chennai Port Trust, Chennai</p>	 <p>DGQA</p>	 <p>Wim India Pvt. Ltd., Coimbatore</p>	 <p>Motorola Pvt. Ltd.</p>	 <p>Crompton Greaves Ltd.</p>

Few Prestigious Customers

 <p>J K Cement Ltd.</p>	 <p>Wonder Cement Ltd.</p>	 <p>Prism Cement Ltd.</p>	 <p>IndianOil</p>
 <p>Shree Cement Ltd.</p>	 <p>The India Cements Ltd.</p>	 <p>Cement Corporation of India Ltd.</p>	 <p>TATA</p>
 <p>A.P. Industries</p>	 <p>Anupam Industries</p>	 <p>Essar Constructions</p>	 <p>Godavari Power</p>
 <p>Maharashtra State Power Gen. Company Ltd.</p>	 <p>Power Grid Corporation of India Limited (PGCIL)</p>	 <p>North Eastern Electric Power Corporation Limited</p>	 <p>Jayaswal Necko India Limited</p>
 <p>Real Ispat Limited</p>	 <p>Bharat Earth Movers Limited</p>	 <p>Bharat Heavy Electricals Ltd.</p>	 <p>Jindal Saw Limited Kutch</p>
 <p>Ashok-Leyland</p>	 <p>Inox Wind Ltd.</p>	 <p>Suzlon Energy Limited</p>	 <p>Power Grid Corporation of India Limited</p>
 <p>Surya Roshini Limited</p>	 <p>Research and development</p>	 <p>Arcelor Mittal Nippon Steel India Ltd</p>	 <p>Bajaj Electricals Limited</p>
 <p>Fabtech</p>	 <p>Bokaro power Supply Company (P) Ltd.</p>	 <p>Lloyd's Register Group Limited</p>	 <p>Coal India Limited</p>

REGISTRATIONS



Product Design Assessment
by American Bureau of Shipping
Power, Lighting & Control Wiring
for Shipboard and offshore & Marine Installations of type M2X and M2XCH



Ministry of Defence (DGQA) Naval
For Single Core & Multi Core Cables



Research, Designs & Standards Organization
(Ministry of Railway)
Approval for Single & Multi Core Elastomeric Cables



Electric Cable for Photovoltaic System
(Solar Cable) IEC 60228:2004 Table 3,
EN 50618:2014



Certificate of Compliance



Quality Management System Standard
ISO 9001:2015



Recognition of in-House R&D Unit
by
Department of Scientific and Industrial Research



Mecon Limited
for Flexible Cable (IS 9968 Part 1 & 2 upto
3.3kV and IS 14494)



Govt. Purchase Enlistment Certificate
by
The National Small Industries Corporation Ltd.



LCISO Certification
Defence Research and Development Organisation
(Ministry of Defence)
For Wires, Electrical, High Temperature, PTFE/ FEP
Insulated Cables (JSS 51034)

PRODUCT APPROVALS

IS : 9968-1



CML-8651081
Elastomer Insulated Cables

IS : 9968-2



CML-8835701
Elastomer Insulated Cables

IS : 7098-1



CML-3113533
Crosslinked Polyethylene (XLPE) Insulated Thermoplastic Sheathed Cables

IS : 1554-1



CML-3113634
PVC Insulated (Heavy Duty) Electric Cables

IS : 694



CML-3113432
PVC Insulated Cables/Cords with Rigid & Flexible Conductor

IS : 14494



CML-8660789
Elastomer Insulated Flexible Cables for Use in Mines

IS : 9857



CML-8631378
Welding Cables

IS : 2465



CML-8400127710
Cables for Motor Vehicles

CRD Cables

Due to Material Handling Bulk in Steel Plants areas like Wagon Loaders and Tipplers are heavily loaded and require very robust performance. We have various designs of such cables available with us for better service Life. The following points are taken care of :-

Better Core Performance

A big part of these cables is the performance and health of Cores, which contributes to the life of the cables and reduces the generation of faults. Following areas are concentrated in this regards:- Integrity of Cores Core integrity has to be very good. Cores or conductors with weak areas i.e. Joints, damages, kinks, and other defects are liable to develop issues in the future.



Less Inter Core Abrasion - Inter core slip is been promoted in the design of these cables to the extent possible.

Good Core Binding - Cores are laid and binded (through tapes and reinforcing braids) properly to prevent the formation of kinks in the working life of the cable.

Better Flex Life of Cores - Cores are made to sustain better flex



Torsion Performance

At the time of reeling and un-reeling, some amount of torsional forces also acts on the cables which contribute in a big way in disorganizing the cores. This has to be taken care of, cable should be able to sustain torsion forces on it.



Abrasion Properties of Cable

These cables are continuously subjected to friction in their life hence the compounds that can sustain abrasion must be used for enhanced life.



Better Flexibility

Compounds - Compounds and materials are designed to provide better flexibility to the cables for both insulation and sheath also including fillers.

Conductor - The conductor has to be very flexible with proper elongation and defect-free.

Balancing of Cable - Cables must be designed so that cables are mechanically balanced to ensure that there is no excessive pressure on any one area.

Proper Layed Up Pitch - The Pitch and formation of the cores have to be decided keeping in view the flex life of the cable.



Environment Proof

As most of the applications are out door and subjected to various harsh environmental conditions, the outer sheath is recommended to be Oil, Fire, Chemical, UV and Water resistant. Further these cables are also required to sustain the temperature in high and low side. These cables are made with Robust Cores without Joints, flexible but strong enough to take inter-core abrasion for long durations. Further, these cables are so designed to prevent kinks in the cable and ensure a low bending diameter for maintaining flexibility.

Cable for Production

Various designs of Cables for Mobile Production Machines are manufactured by us for different requirements. Designs are like **FT4 (S), FT6 (S), FT7, FT7 (S), etc.** are provided. They are made for continuous movement and round the clock functioning on mines. These Cables are specially manufactured keeping in mind safety requirements of the mines. They come with fault detection braids to stop the machine in case of any possibility of faults, hence preventing a short circuits. Further the compound used in cables are very rugged which can take lot of abuse and rough handling



Cables for Hand Held Drills

Highly Flexible Cables for light handheld drills for ease of use and good service life. Designs like **FTD3, FTD3 (S)** are manufactured by us.

Cable for Heavy Duty Drilling Machine

Cables for heavy duty drilling machine with low movement cycles but can take high vibrations levels. These cables can take on rough terrain. These cables are available with fault detecting braids for mine safety. These cables are provided with 2 options.

- **Elastomeric Based**
For mines where ambient temperature can be high. Though they have comparatively higher diameter.
- **Thermoplastic Based**
Compact cables with lower diameter but are not meant for areas with high ambient temperature.



Cable for Lightning & Auxiliary

Various Designs of cables are made for Lightning and Auxiliary power supply in Underground Mines. Some of the designs include **PLC2, PLC3, PLC4, PLC5**. These are specially designed Flexible Armored Cables which combine strength of armor and flexibility of elastomeric cables. Further being elastomeric they are all weather.

Double Armour Power Cables for Under Ground Mines

Cables for power supply in Mines are available with Double Wire / Strip Armour. These cables provide very good mechanical strength and armour is highly conductive. 75 % of main core so that they can function as earthing. To achieve that Copper wires / strip may be used mixed with GI Wire / Strip. Cable with XLPE as well as PVC insulations are available with 1.1 and 3.3 KV rating.



Automation & Instrumentation Cables

Plant Automation and Process Control are new buzz words and the process efficiency and product quality depend on them. We manufacture a wide range of products for fault-free working and high-performance levels for real-time control. We offer a wide range of instrumentation cables based on the latest national and international standards in various high-performance engineering polymers with voltage ranging from highly compact 90V to heavier 1100V range. Data Cables for Digital as well as Analogue applications are available with compact designs up to 90V also. These cables consume very little space and are available in flexible designs also. Even cables with flexible braid armor options are also available. Data Cables for moving applications are also available for various automation requirements.

■ Big range is available including

- ▶ Instrumentation Cables in PVC / XLPE / PE / EPR
- ▶ Data Cables
- ▶ Co Axial Cables
- ▶ Networking Cables (RS 485, Profibus, Foundation Fieldbus, Canbus etc.)
- ▶ Servo, Feedback Cables
- ▶ Low Capacitance Cables
- ▶ VFD Cables

■ Cables for Load Cell and Automation Weighing Systems

- ▶ VFD Cables
- ▶ Servo Cables
- ▶ Wires - Uninyvin, PTFE / FEP Wires
- ▶ Instrumentation & Data Cables
- ▶ Control Cables
- ▶ Drag Chain
- ▶ Load Cell Cables



Heavy De-Watering Cables

Special Cables upto 3.3KV can be provided for de-watering the water logged mines for heavy duty pumps as per the requirements. These are cables based on special elastomers which can sustain in water for long time and are extremely flexible for ease of use.

Welding Cable

We are manufacturing Welding Cables based on various specifications. Welding Cables based on IS 9857, H01N2D, H01N2E, Elastomeric High Voltage Double Insulated Cables, and TPR Based Double Insulated Welding Cables can also be provided.



Lift & Crane Cables

We are having a wide variety of solutions for Lift and Cranes in circular and flat shapes. Various cable designs are available with Elastomeric, TPE, TPR, and PVC polymers for applications like CRD, Trailing, Pendulum, etc. Cables with Power, control, Instrumentation, and data cores can be provided. Cables with compact design for Low Routing Hole Size to cables with high physical strengths are available.

Evolving TOGETHER

