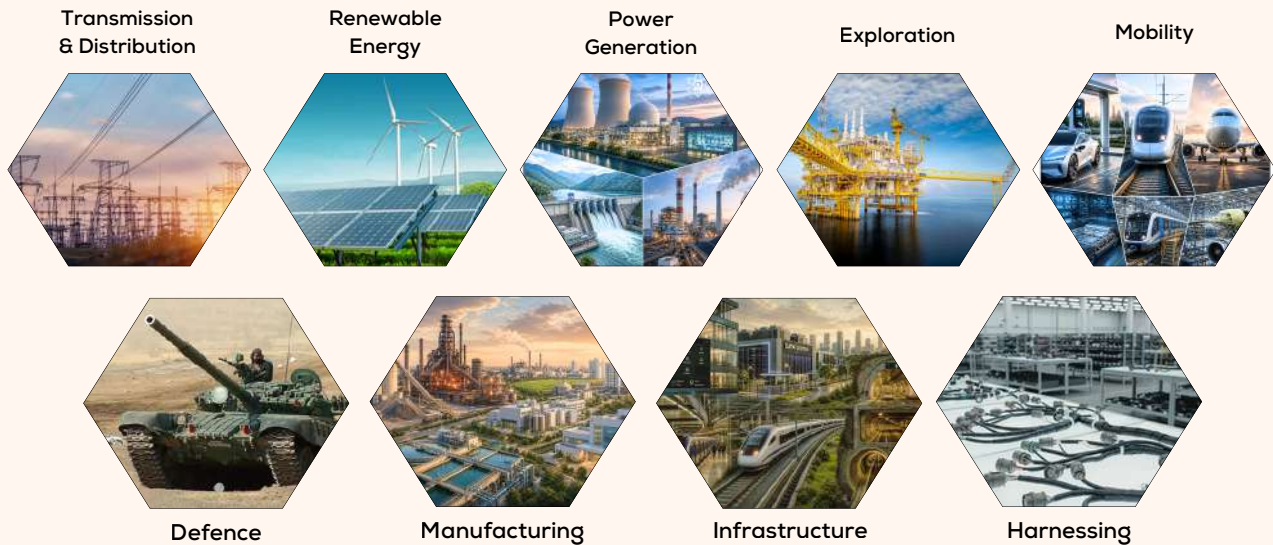




Eight Decades of Trust & Innovation

ELASTOMERIC INSULATED CABLES





ABOUT US

- Nicco Cables is a 80 year old brand based in India
- Nicco specializes in manufacturing wide range of Wires and Cables
- Nicco has an in-house R&D facility
- Nicco specializes in Compound manufacturing and has a dedicated team for Compounds
- Nicco is the first Company in India to install a 3 MeV Electron Beam Plant form USA for manufacturing irradiated cables
- The manufacturing plant covers an area of 450,000 sq.ft.
- National Accreditation Board for Testing and Calibration Laboratories (NABL) accredited Testing laboratory at plant

NICCO PRODUCES A WIDE RANGE OF CABLES

- Solar & Windmill Cables
- Ethernet Cables (Cat-5e, Cat-6a, Cat-7)
- LT & HT Power & Control Cables (Upto 66 kv)
- Elastomeric & Silicon Cables (Upto 15 kv) for various application
- PTFE, ETFE & FEP Cables
- Flexible Trailing Cables - H07-RNF
- Ethernet Polyurethane Cables
- Rolling Stock Cables
- Ship Building Cables
- Fire Survival Cables (For Nuclear Reactor)
- TREE WIRE / SPACER Cables - 3 layer Track Resistant (upto 35kv)
- Hybrid / Composite and Underwater Cables
- Pressure Tight Cables
- Overhead transmission Conductors (AAAC, ACSR, AAC, ACAR , AL-59)
- Medium Voltage Covered Conductors (MVCC)
- Automotive Cables
- Cable Harnessing

ELASTOMERIC CABLES

Natural Rubber used to be the first insulating material used in electrical Cables before the advent of other insulating material like Paper, PE, PVC, XLPE etc. Rubber is still considered the best available insulation for cables which requires flexibility. Both Aluminum and Copper Conductors are generally used in Rubber Cables. However, pre-dominantly tinned flexible copper conductors (Class-V) are used in Rubber Cables. In the initial days, natural rubber was used both as insulation and sheath of cables. In recent times, many varieties and grades of synthetic rubber (Elastomeric) materials are available in the market and are used for insulation and sheathing purpose based on their characteristics. The following table will help to choose various insulating and sheathing materials based on the cable application.

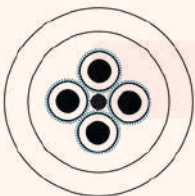
Type Designation	Basic Rubber	Max. Cond. Temp. for Continuous Operation °C	Max Cond. Temp for Shortckt. Operation °C	Remarks
Insulation				
IE1	Natural Rubber	60	200	Low Voltage
IE2	EPDM/ EPR	90	250	Low Voltage
IE3	EPDM/ EPR	90	250	High Voltage
IE4	CSP/ EQUIVALENT	90	250	Oil/Fire Retardant
IE5	Silicon	150	350	High Temp.
Sheath				
SE 1	Natural Rubber/SBR	60	200	Normal Duty
SE 2	Natural Rubber/SBR	60	200	Heavy Duty
SE 3	PCP/CSP/MNR/CPE	90	250	HR, Oil/Flame Retardant, Normal Duty
SE 4	PCP/CSP/MNR/CPE	90	250	HR, Oil/Flame Retardant, Heavy Duty

MAJOR INDUSTRIES CATERED

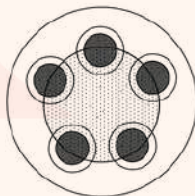
- Oil & Gas
- Petrochemicals
- Steel, Cement, Papers, etc
- Heavy Equipment
- Underground mining
- Material Handling Equipment
- Wind, Solar
- Shipbuilding, Submarines
- Railways

MINING CABLE

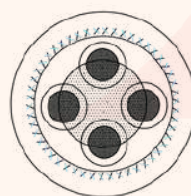
Mining cables are utilized in various types of mining applications and intended for long-term performance in the extremely harsh environment, while providing the greatest levels of safety and productivity. These cables offer excellent flexibility, torsion and drag resistance, in addition to exceptional electrical, temperature parameters, abrasion and flame resistance.



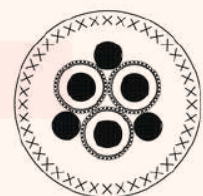
Type-FT7 of IS-114494



5 Core Drill Cable



Pliable Armd. Flexible Cable

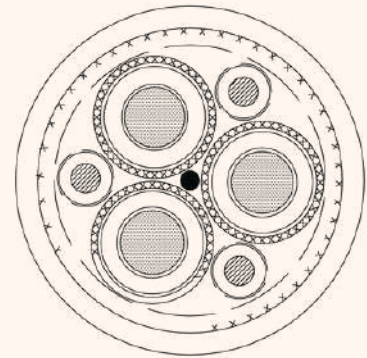


6-Core Individual Power
Core Scr Cable



ELASTOMERIC MINING CABLE MANUFACTURING RANGE

- Pliable Armoured Flexible Cable
- Collectively Screened Flexible Cable
- 5-Core Drill Cable up to 15 KV
- 6-Core Individual Power Core Screened Cable up to 15 KV



COMPOSITE TRAILING CABLE

Composite Trailing Cables find it's application in Electrically operated Mobile Equipment to supply Power as well as to operate the Control devices attached to the Equipment. This reduces the number of different Cable requirement thereby saving in space, cost of cable and ease of operation.

ELASTOMERIC/ TRAILING CABLE MANUFACTURING RANGE

- EPR Insulated Power Cable up to 15 KV (flexible /non-flexible)
- Control & Instrumentation Cables
- Silicon Cables up to 11 KV
- Reeling /Unreeling duty cables for Steel/ Cement/ Mining/ Power Plant/ Chemical plants



- Rubber Trailing Cable for Electrical machines, Steel Mills, EOT Cranes, Coal Handling and Conveyors, Construction equipment, Turbines, Textile machines, etc.
- Festoon Duty Cable
- Drag Chain Cable
- Drag Line /Land Line Cable
- Composite Cable
- Hybrid Cable with Optical Fiber Cable
- Under Water Cable

ELASTOMERIC IN RAILWAY APPLICATIONS

- Thin-Walled Flexible Elastomeric Cables with Copper Conductor for Working Voltage Up to 750 Volts & Above 750 Volts Up to 1.8/3.0 KV
- Set of Single Core and Multi Core for WAG-9 and WAP-4 locomotives
- Railway rolling stock high temperature power cables having special fire performance (Single core, silicone rubber insulated cables for 120 °C and 150 °C)
- Railway Rolling Stock Power & Control Cables having special fire performance (BS EN 50264)
- Railway Rolling Stock Cables having special fire performance (BS EN 50306)

SPECIFICATIONS/ STANDARDS

- IEC 60502-1 & 2
- BS: 6708
- BSEN 50525-2-21
- BSEN 50525-2-81
- IEC 60245
- BS: 7835
- BS: 6500
- BS: 7919
- DIN VDE 0250-812:1985
- NEMA WC-58/ ICEA S-75-381
- IS 9968-1 & 2
- IS 14494

EXISTING CERTIFICATIONS

ISO 9001 / 14001 / 45001

Directorate of Quality Assurance (Navy) [DQAN] Registration Certificate

Defense Research and Development Laboratory (DRDL) Registration Certificate

Integrated Headquarters of Ministry of Defence (IHQ/DEE/MOD)

Research Designs and Standards Organization (RDSO)

American Bureau of Shipping (ABS)

Indian Register of Shipping (IRS)

Underwriters Laboratories (UL)

Central Power Research Institute (CPRI)

Bureau of Indian Standards (BIS)

International Railway Industry Standard (IRIS)

National Accreditation Board for Testing and Calibration Laboratories (NABL)

Det Norske Veritas (DNV)



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