



*Your future
in safe hands*



V-GUARD[®]

Wires & Cables



Company Profile

India's leading electrical and electronics major, is a brand name trusted by over 50 million customers for over three decades now. Renowned for innovative products, world class quality standards and technological excellence, it is also India's No.1 Stabilizer brand. V-Guard offers a wide range of products for modern living: Electronic Stabilizers, Digital Stabilizers, Stabilizers for Air Conditioner, UPS, Digital UPS, Electric Water Heaters, Solar Water Heaters, Pumps, Wiring Cables, Round Cables, Flat Cables, Telephone Cables, Switch Gears, LT Power & Control Cables, Induction cooktops, Mixer Grinders and Fans. Designed and developed by V-Guard's ISO 9001:2008 certified and DSIR recognized R&D, these products are made from high quality components, quality checked at every stage of the manufacturing process and equipped with latest technology and advanced features to deliver superior performance.

V-Guard products are made available with more than 20000 Authorized Dealers and 500 Distributors with a pan India presence.

Quality Certifications



Wires & Cables

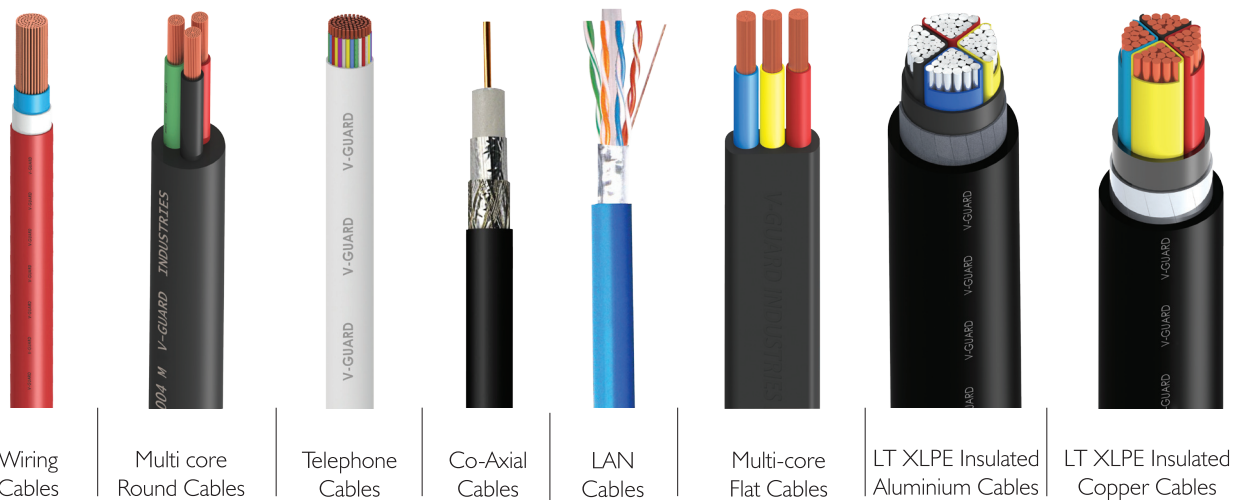
V-Guard Wires & Cables are processed under strict QA supervision in highly automated imported Drawing & Triple layer extrusion lines. All raw materials are tested and compliance to in-house specification is ensured before it is approved for manufacturing process.

V-Guard FR (Flame Retardant) Insulated Cables are generally used for house wiring purpose and contains specially formulated PVC which does not propagate fire. The Limiting Oxygen Index value of the PVC insulation is greater than 29%.

V-Guard FR-LSH (Flame Retardant Low Smoke and Halogen) Insulated Cables are recommended for use in places with high human concentration like hotels, high rise buildings, offices, shopping malls, hospitals etc. V-Guard FR-LSH insulated cables are made from specially formulated PVC Polymers that restrict the release of toxic gases and smoke in case of fire thereby enabling the rescue and evacuation team to save human lives. V-Guard has production units at Coimbatore and Kashipur.

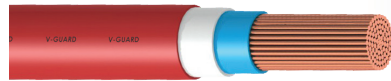
Product Range

- i. **Single Core PVC Insulated Cables**
0.5 Sq.mm to 120 Sq.mm in FR & FR-LSH variants as per IS 694
- ii. **Multi Core Round & Flat Cables**
Up to 4 Core x 16 Sq.mm in Round Cables (IS 694).
Up to 3 Core x 10 Sq.mm in Flat Submersible Cables (IS 694)
- iii. **Telephone Cables**
Up to 20 Pairs/ 0.4 mm & 0.5mm
- iv. **Co-Axial Cables**
RG 6, RG 11, RG 59
- v. **LT Power & Control Cables**
Up to 4 x 500 Sq.mm in multicore PVC & XLPE
Up to 1000 Sq.mm in single core PVC & XLPE
Up to 91 x 1.5 Sq.mm. / 2.5 Sq.mm. / 4 Sq.mm in control cables





Wiring Cables



Triple Layered PVC Wiring Cables with **HFT Technology**, manufactured in conformity with ISI standards at an ISO 9001, ISO 14001 & OHSAS 18001 certified manufacturing plant, V-Guard wires ensure triple protection for every home. The high quality online annealing prevents breaking of the copper strands when bent or twisted, making V-Guard wires protect homes like nothing else.

Features

- Triple Layer Insulation for better safety
- High ageing property of PVC insulation
- Better flexibility for easy wiring
- High Flame Retardant (FR)
- 99.97% pure copper
- High conductivity of copper (102% IACS) & Low conductor resistance
- 100% Bunching
- ROHS Compliant
- 90 meters guaranteed seal

No more short circuits



3 layered wires. 3 times protection.



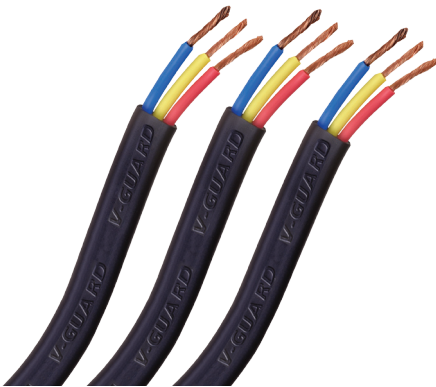
Multi Core Round Cables

Multi Core Round Cable consists of 2 or more insulated cores laid in helical construction and is generally used in domestic appliances and equipments. They come in Grey & Black Outer Sheathing.

- Special grade PVC for better flexibility
- Better finish and strength for heavy duty applications
- Lower power consumption
- Meets international standards
- Every "meter length" is marked



Multi Core Flat Cables

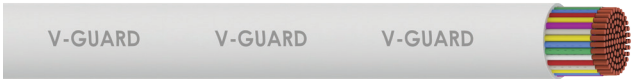


Multi Core Flat Cables consist of 2 or 3 insulated cores laid side by side and extruded over it using black sheathing grade PVC. These cables are flat in nature and therefore are called Flat Cables. Cores are not laid up in this type of cables and are parallel to each other. V-Guard three core flat cables are manufactured under stringent quality control systems in V-Guard's state-of-the-art cable factory at Coimbatore. Three core flat cables are ideally suited for heavy duty applications in industries and submersible pumps, in which the sheathing must withstand abrasion and prevent ingress of water inside. The sheathing is made of special grade sheathing PVC which gives the required finish and strength.

Advantages

- Better finish and strength for heavy duty applications
- Lower power consumption
- Meets international standards
- Every "meter length" is marked

Telephone Cables



V-Guard twisted paired cables are best suited for telephone and switchboard cabling applications. The cables can be used for switchboard and internal telephone wiring in apartments, high-rise buildings, offices, factories, hotels, residential complexes, etc. They generally conform to ITD specifications G/WIR-06/02, May 94.

The conductor is made of solid annealed, high conductivity bare copper. The conductor is insulated with special grade high-density polyethylene with different colours. The insulated cores are twisted with uniform lay to form pairs and are bunched together in such a manner so as to minimize cross talk phenomenon. The most common sizes are 2 Pair, 3 Pair, 4 Pair & 5 Pair in conductor of 0.4 mm or 0.5 mm.

Stringent quality control at every stage, from raw material through manufacturing, up to the finished product, guarantees high quality of V-Guard Telephone Cables.

Salient Features

- Low Power Loss
- Low Crosstalk
- Fire Retardant Sheath

Range of Product

- 1 Pair to 20 Pair (0.4 mm / 0.5 mm)





LT Power & Control Cables



V-Guard LT Power Cables (XLPE insulated power cables and PVC insulated power cables) and control cables come in armoured and unarmoured variants and are generally used as underground cables.

L.T Power & Control Cables essentially comprise of Conductor, Insulation, PVC Tape Innersheath/ Extruded bedding, Armour and Outer Sheathing. For control cables plain annealed copper conductors are only used and confirmed to IS: 1554 (part-1) -1988 & IS: 7098 (part-1) – 1988.

The conductor is made from high conductivity Copper or Aluminium Rods of Electrolytic Grade. The Copper Rods are supplied by HINDALCO and STERLITE and the Aluminium Rods are supplied by NALCO, HINDALCO and Vedanta.

The insulation of the conductor is either XLPE (Cross Linked Poly Ethylene) or PVC (Poly Vinyl Chloride) and this insulation determines the maximum operating temperature of the cable.

Armouring is used to protect the conductor and insulation from mechanical damage. This Galvanised Steel Armour material is supplied by TATA STEELS and USHA Martin Industries.

The outer sheath of the cable comprising suitable grade of PVC serves as a protective layer and is generally black in colour.

LT Cables - Range

XLPE Insulated Power Cables (Armoured/Unarmoured)

Conductor	:	Copper / Aluminium
Applicable Standards	:	IS: 7098 (Part-1)
Range	:	Single Core up to 1000Sq.mm & Multi-Core up to 500 sq.mm

PVC Insulated Power Cables (Armoured / Unarmoured)

Conductor	:	Copper / Aluminium
Applicable Standards	:	IS: 1554 (Part -1)
Range	:	Single Core up to 1000 Sq.mm & Multi-Cores up to 500 Sq.mm

Control Cables (Armoured / Unarmoured)

Conductor	:	Plain annealed Copper
Insulation	:	XLPE / PVC
Applicable Standards	:	IS: 7098 (Part – 1) / IS: 1554 (Part 1)
Range	:	91 core (1.5 Sq.mm, 2.5 Sq.mm & 4 Sq.mm)



Wire & Cable Division

The first factory for V-Guard for manufacturing wires was established in the year 1999 at Coimbatore in Tamilnadu. This state-of-the-art factory with RBD, Wire drawing machines and Bunchers supplied by Niehoff GmbH, Germany and Triple Insulating Line supplied by Nextrom, Switzerland is capable of producing 12 Lakh Coils (in terms of 90 mtr.) and 30,000 kms of Multicore Round & Flat Cables per annum.

The second factory for manufacturing wires was setup in the year 2009 at Kashipur, Uttarakhand. This fully automated factory, with machinery using advanced technology imported from USA and Germany, has the capacity to produce 72 Lakh Coils (in terms of 90 mtr.).

V-Guard - Cable Division came up with new factory for LT Cables in April 2009. Both LT XLPE and LT PVC Cables are manufactured here and the production capacity is 14,400 kms per year.

Description	Wires Factory, Kashipur	Wires Factory, Coimbatore	LT Factory Coimbatore
PLANT ADDRESS	V-Guard Industries Ltd, 6 th Km Stone, Moradabad Road, Village Basai, Khasra No. 86, Kashipur, Udham Singh Nagar, Uttarakhand - 13	V-Guard Industries Ltd, (Cable Division), K.G.Chavadi, Coimbatore - 05	V-Guard Industries Ltd, (Cable Division), K.G.Chavadi, Coimbatore - 05
PLANT CAPACITY	Single Core Cables 72 Lakhs 90 mtrs. Coils per annum	Single Core Cables - 12 Lakh 90 mtrs. Coils per annum Multi Core Cables - 30,000 Kms per annum	PVC / XLPE Insulated LT Power & Control Cables - 14,400 Kms per annum
PRODUCT RANGE	Single Core Cables - 0.5 Sq.mm to 10 Sq.mm (FR & FR-LSH)	Single Core Cables 0.5 Sq.mm to 120 Sq.mm (FR & FR-LSH) Multi Core Round Cables Upto 4 Core x 16 Sq.mm Multi Core Flat Cables Upto 3 Core x 10 Sq.mm	Power Cables Copper / Aluminium, XLPE / PVC Insulated, Armoured / Unarmoured - Single Core Upto and Including 1000 sq. mm & Multi Core Upto and Including 4 X 500 Sq. mm. Control Cables Copper, XLPE / PVC Insulated, Armoured / Unarmoured - Upto and Including 91 X 4 Sq. mm.

Tested at



Central Power Research
Institute (CPRI)



Electrical Research &
Development Authority (ERDA)



National Test House (NTH)



Intertek Testing
Laboratory

Certifications

Product Certifications

IS 694: 1990, IS 7098 Part I: 1988 & IS 1554 Part 1: 1988

Management System Certifications

ISO 9001: 2008, ISO 14001: 2004 & OHSAS 18001: 2007



Major Approvals & Supplied Projects

- DGS & D
- Military Engineering Services (MES)
- Airport Authority of India
- Power Grid Corporation
- Tata Steel
- IVRCL
- Orissa Power Transmission Corporation Ltd
- Nuclear Power Corporation
- Apollo Tyres
- Cochin International Airport Ltd (CIAL)
- HCL
- L&T, Cochin Metro Rail Project
- Siemens
- Karnataka Power Corporation Ltd
- Bharat Heavy Electricals Ltd. (BHEL)
- Bharat Earth Movers Ltd. (BEML)
- Bharat Petroleum Corporation Ltd. (BPCL)
- Kerala State Electricity Board
- PWD Approvals (various States)
- Major Builders in India like DLF, Shoba Developers Ltd , RDS Projects, Oceanus, Puravankara, VGN (Chennai)

No more short circuits



India's first triple insulated wires

V-Guard product range



V-GUARD
care

9AM TO 9PM

1800 3000 1800

(Toll free)

1860 180 3000

(Charges apply)

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Wires & Cables