

Best Quality  
**100%**  
Satisfaction  
Guaranteed



# SPM CABLES

*Genuine Quality - Honest Prices*



Innovative **Cable Solutions**  
for a Brighter Tomorrow

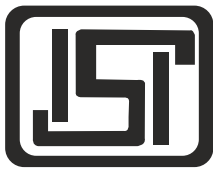
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IS : 1554



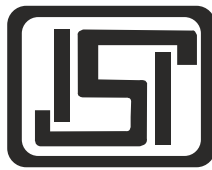
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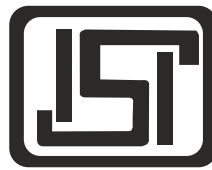
CM/L-6503763

IS : 7098 (Part 1)



CM/L-6658489

IS : 7098 (Part 2)



CM/L-630065707

IS : 14255



CM/L-3379167





## About us

**SPM Cables** is a family-run enterprise based in Hyderabad, proudly standing as a pillar of excellence in the manufacturing sector of wires and cables for over 30 years. Founded with a vision to deliver high-quality electrical solutions, we have established ourselves as a trusted name in the industry. Our commitment to innovation and quality has led us to become the largest manufacturing facility in South India, equipped with state-of-the-art technology to ensure the highest standards of production.

At SPM Cables, we take pride in maintaining rigorous quality controls and adhering to industry standards. Our products are widely approved by major Discoms, reflecting our dedication to reliability and customer satisfaction. Our extensive range of cables caters to various sectors, including residential, commercial, and industrial applications.

As we look to the future, SPM Cables remains committed to sustainability and innovation, striving to adapt to the evolving needs of the electrical industry while maintaining our core values. Join us on this journey as we continue to light up lives across the nation, one cable at a time.



## Mission

To manufacture superior quality cables and wires that ensure safety and reliability across diverse industries. We achieve this by harnessing innovative technology and sustainable practices, while staying committed to exceptional customer service and continual improvement.

## Vision

To be the leading manufacturer of high-quality cables and wires, driving innovation in electrical connectivity, promoting sustainability, and enhancing the lives of our customers and communities.

## Quality Policy

SPM Cables is an ISO 9001: 2015 certified company with Quality Management System in compliance with the International Quality System Standard ISO 9001. Our Organization is managed by a professional



team of Engineers and Technicians with excellent track record and long standing experience in the manufacturing, testing & marketing operations. Our prime objective is to supply Quality Cables catering to the needs of various Government/Private Organizations in all parts of India/Abroad.

Every meter of cable is subjected to rigid quality control measures. Stage wise inspection is done by a team of technocrats and qualified engineers with extensive in-house testing facility on modern Equipment in our well equipped laboratory enables us to achieve the highest quality standards and specifications.





## Manufacturing Facility

Our State of the Art unit at 3 locations in the City of Hyderabad is equipped with latest and sophisticated machineries backed by a young and enthusiastic team with rich experience in all aspects of cable manufacturing to fully meet the varied requirements of our customers. The Testing Laboratory is fully equipped with all latest test equipments, which are regularly calibrated.

## Setting Standards

SPM Cables is an ISO 9001: 2015 certified Company with Quality Management System in Compliance with the International Quality System Standards. No milestone is too far, as our growth in Production of Power & Telecom Cables over the last few years and you will see sky is the limit, we have not only expanded our product range but also increased our production capacity and adapted the change in technology with time. Today, our market share has registered a significant growth in India. SPM Group of companies is driven by ideas that have inspired us to constantly strive for excellence in the Power and Telecom Cables industry.

Over the years SPM Cables has established reputation for quality and reliability with prompt delivery. Having established its name as leading manufacturers of complete range of domestic wires, power cables. Control cables, networking and Telecommunication Cables confirming to Bureau of Indian Standards :

- IS : 694
- IS : 14255
- IS: 1554(Part-I)
- TEC Specification No. GR/CUG-01/03 2003
- IS : 7098 (Part-I)
- RDSO Specification No. IRS 63/2007,
- IS : 7098 (Part-II)
- IRS 63/2007 & IS 1554, IRS 76/89



with latest amendments. Customer specific requirements can also be met. In order to make a lasting impact on the Power Cable sector, We at SPM always acknowledge the importance of our people who make up the organization. The synergy and shared vision of our team is the driving force that has been responsible for our success.

## Expertise

Our Organization is managed by a professional team of Engineers & Technicians with excellent track record and long standing experience in manufacturing. Testing & marketing operations. Our prime objective is to supply Quality Cables catering to the needs of various Government /Private Organizations across India / Abroad.



## Quality Control & Quality Assurance

Every meter of cable is subjected to rigid quality control procedures. Stage wise inspection by qualified engineers & extensive in house testing on modern

equipment in our well equipped laboratory enables us to achieve the highest quality standards and specifications.

## Quality System

High Quality standards are built into every SPM Cables product. In process checks and tests are carried at every stage from raw material through manufacturing stages and finally up to the finished products to ensure that SPM CABLES meet high quality standards and consumer approval.



## Selection of Power Cables

Power cables are generally selected considering the application. However following factors are important for selection of suitable cable.

- Maximum operating voltage.
- Insulation level
- Frequency
- Load to be carried
- Possible overloading duration & magnitude
- Route length and voltage drop
- Mode of insulation considering installation environment such as ambient & ground temperature Chemical & physical properties of soil.
- Flame retardant properties
- Plant safety requirements

All sizes of SPM Cables are designed to standard operating conditions in India and abroad. The standards adopted are considering the geographic / climatic conditions and general applications of power for utilities, distribution and general purposes.

SPM Cables is manufacturer of wide range of cables, it is therefore important that while placing enquiries or orders, as much information as possible should be furnished, so that the enquiries and orders are dealt quickly and efficiently.

## Unique Process Features

- CCV Line (Royale : American Collaboration) for HT cables.
- Multi-wire Online Drawing & Annealing
- Latest state of the art extruders (High Speed up to 1500mtrs. per minute)
- Coextruded Triple extrusion PVC insulation for better insulation and electrical properties
- Automatic on line critical diameter control
- Stringent quality control
- Upcoming CCV line for EHV Cable



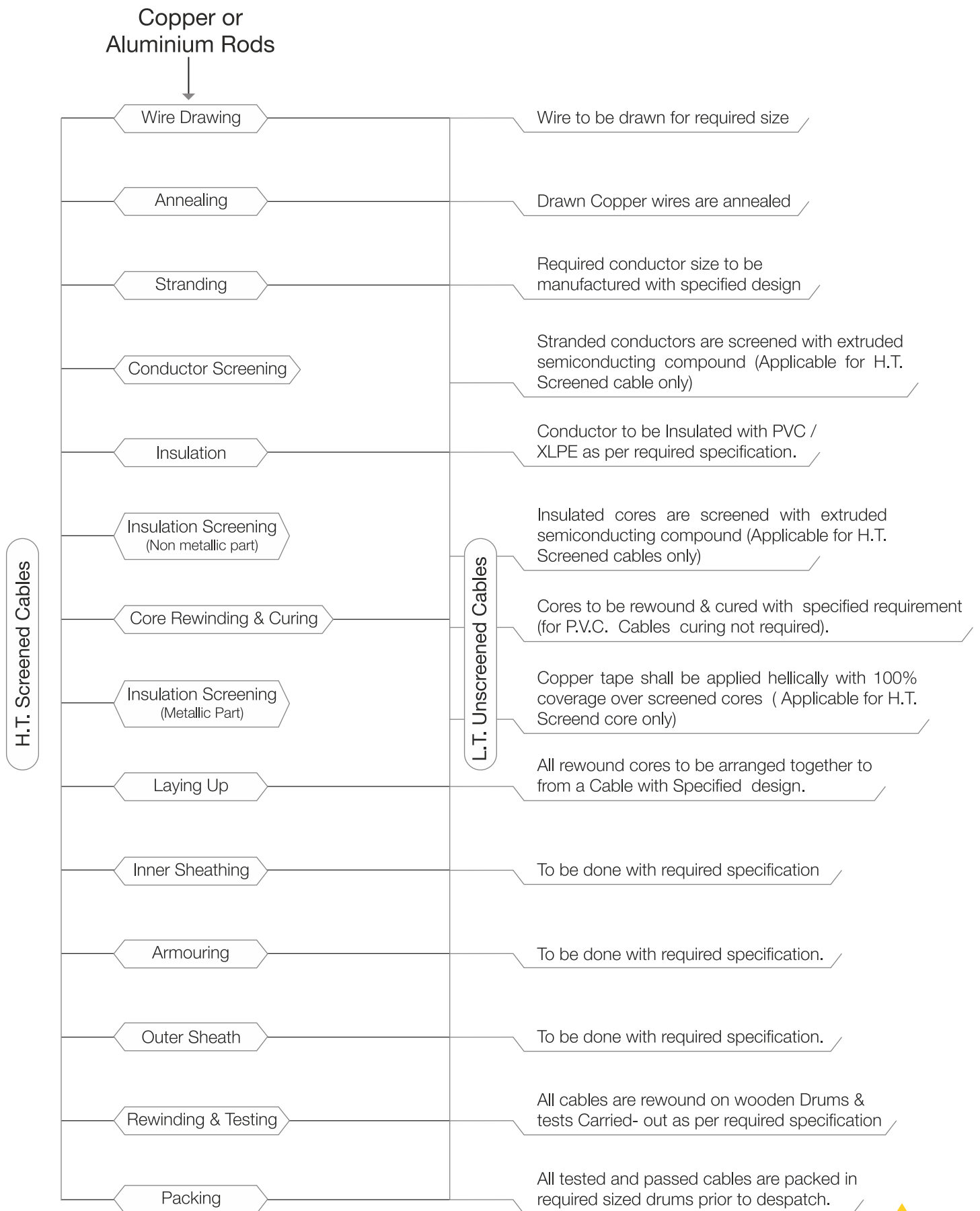
## Product Range

- HT CABLES UPTO 33 KV-DRY CURED PROCESS.
- LT PVC & XLPE POWER CABLES WITH COPPER/ALUMINIUM CONDUCTOR  
(650/ 1100 VOLTS UPTO 4 CORE X 400 SQ mm, 1 CORE X 1000 Sqmm)
- LT PVC XLPE CONTROL CABLES 650/ 1100 VOLTS UPTO 37 CORE (1.5 & 2.5 Sqmm)
- INSTRUMENTATION CABLES SCREENED/UNSCREENED TYPE IN PVC - LDPE
- FRLS/FR/ HR/ LDPE - POWER, CONTROL & INSTRUMENTATION CABLES
- HOUSE WIRES & FLEXIBLE (SINGLE & MULTICORE)
- RAILWAY SIGNALING - POWER & SINGLE CORE CABLES
- TELEPHONE CABLE - DRY & JELLY FILLED
- SUBMERSIBLE CABLES / CO-AXIAL CABLES / WINDING WIRE
- AERIAL BUNCHED CABLES
- LAN CAT-5/6E CABLES





# Manufacturing Process



# Handling & Storage

Handling (Unloading at site) : On receipt of cable drums visual inspection of drums should be made ensuring drum packing is original. While unloading the cables certain precautions are to be taken to ensure the safety of the cables.

1. The cable drums should not be dropped or thrown from rail way wagons or trucks during unloading operations as the shock may cause serious damage to cable layers. A crane should be used for unloading cable drums. When lifting drums with the crane, it is recommended that the lagging should be kept in place to prevent the flanges from curshing on to the cable. If the crane is not available, a ramp should be prepared with approximate inclination of 1:3 or 1:4. The cable drum should be rolled over the ramp by means of ropes and winches. Additionally a sand bed at the foot of the ramp may be prepared to brake the rolling the cable drum.
2. Cable should not be dragged along the earth surface.
3. Cable ends should always be sealed by means of suitable end sealing materials to prevent moisturisation of cores and armour.
4. Drums should be rolled in direction of arrow marked on the drum.

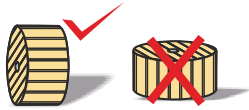
## Storage:



Cables should be stored in a dry covered place to prevent exposure to climatic conditions and wear and tear of wooden drums and it should preferably on a concrete surface/firm surface which will not cause the drums to sink and thus lead to flange rot and extreme difficulty in moving the drums.

All drums should be stored in such a manner as to leave sufficient space between them for air circulation. It is desirable for drums to stand on battens placed directly under the flanges.

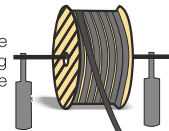
In no case should the drums be stored, "On the Flat", i.e., with flange horizontal.



## Laying:

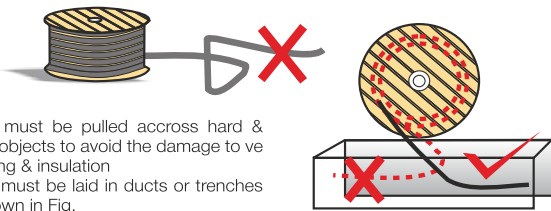
For laying of cables special cares to be taken to prevent sharp bending, kinking, twisting. Cable should be unwound from drum by proper mounting the cable drum on a cable wheel making sure the spindle is strong enough to carry the weight without bending and that it is lying horizontally in the bearings so as to prevent the drum creeping to one side or the other while it is rotating.

Provision should be made to break the drum to avoid further rolling & buckling of cable during sudden stop. A simple wooden plank can server this purpose



This is incorrect way of pulling the cable & will cause kinks & twist in cable. Shall be avoided at all

Cable must be pulled from the top



Cable must be pulled accross hard & sharp objects to avoid the damage to ve covering & insulation  
Cable must be laid in ducts or trenches as shown in Fig.

However, following salient points are to be considered during laying procedure of cables laid in racks and in built-in trenches.

1. For laying of cables power cables to be placed at the bottom most layer and control cables at top most layer.
2. Single core power cable for use on A.C. system shall be laid in delta formation supported by non-magnetic material. Trefoil clamps of suitable size are to be placed at regular intervals but preferably not more than 800 mm. Axial spacing of two circuits in delta formation shall not be less than 4 times the cable dia.

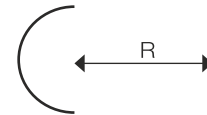
n case of multicore power cables, cables shall be laid side by side, with spacings not less than one cable diameter. However derating factors for cables laid on trenches are to be referred.

Multicore power cables and single core D.C. circuits may be clamped by means of galvanised mild steel saddles but 1.1 KV single core cables should be clamped by means of non-magnetic saddles. The saddles shall not be placed at intervals more than 1500 mm. for horizontal and 1200 mm. for vertical runs.

3. Multicore control cables can be laid touching each other on cable racks and wherever required may be taken in two layers. They should be clamped by means of PVC straps both for horizontal and vertical runs (alternatively, fabricated aluminium clamps may be used) at regular intervals.
4. a) If the cables are buried directly in ground I.S. 1255 is to be followed for code of practice. However, generally cables are laid 1000 mm. below finished ground level at any point of cable run and 75 mm. of sand cushioning to be provided.
4. b) In loose soil concrete pillar should be provided for as support and hence pipes are recommended to the used for cable path.
5. If there is a possibility of mechanical damage, cables should be protected by means of mild steel covers placed on racks.
6. While laying cables, special care to be taken at bends. Followings are the recommended bending radius for power and control cables.

Voltage Rating KV	PVC and XLPE Cables	
	Single Core	Multi Core
Upto 1.1	15 D	12 D
Above 1.1 but upto 11 K.V.	15 D	15 D
Above 11 K.V.	20 D	15 D

Where 'D' is overall diameter of cable.



7. Maximum safe pulling force (when pulled by pulling eye) Aluminium Conductor Cables : 3.0 Kg/mm<sup>2</sup> Copper Conductor Cables : 5.0 Kg/mm<sup>2</sup> Proper method of pulling of cable should be used.

## TESTING

### INSULATION RESISTANCE MEASUREMENT OF CABLE

The voltage rating of I.R. Tester (Megger) should be chosen as following table :

Voltage grade of cable	Rating of IR Tester (Megger) of cable	Voltage grade of cable	Rating of IR Tester (Megger)
1.1 KV	500 V	11 KV	1000 V
3.3 KV	1000 V	22 KV	2500 V
6.6 KV	1000 V	33 KV	2500 V

### Testing during laying :

All new cables shall be megger-tested before jointing. After jointing is completed all LV Cables shall be megger-tested.

### End Terminations & Jointing :

Termination and jointing of Power & Control Cables shall be done by means of compression methods using solderless tinned copper/ Aluminium terminal lugs. For control cables terminations, ring tongue or reducer pin type terminal lug can also be used to suit the purpose.

### Overhead/Outdoor Termination

XLPE insulation should be protected from direct solar rays or else ultra violet resistant sleeving / tapping must be provided on exposed XLPE insulation at the Termination to avoid degradation / cracking due to direct exposer of solar rays.



A view of dispatch yard



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# SPM POWER & TELECOM PVT. LTD. SPM WIRES & CABLES PVT. LTD.

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Yeldurthy Mandal, Medak Dist. - 502 255

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