



Branch Offices

Northern Region

Chandigarh : Plot Khasra No.: 14/10 ,
Godown Area, Village Pabhat ,Zirakpur,
Distt S.A.S Nagar, Punjab - 140603
Tel.: 0176 - 2503906, +91
7355558333

Ludhiana : BXX-3369, Sandhu Tower-
2, 2nd Floor, Ferozpur Road, Gurudev
Nagar, Ludhiana (Punjab)-141 001
Mob: +91 9501922997

Jaipur: 327-A, 3rd Floor Ganpati Plaza
M.I. Road, Jaipur, Rajasthan - 302001
Tel.: 0141-4018060, +91 9414323966

Lucknow: RM Sales Corporation
F 463, Phase II, Transport Nagar,
Lucknow, Uttar Pradesh, 226012
Mob: +91 9305053777

Jammu & Kashmir: First Floor,
Al Kareem Complex, Nowgam Wanpora
Road, Jammu & Kashmir Bank,
Khosabagh, Chatar Gam, Budgam
Jammu and Kashmir - 191113
Mob No.: +91 9906278899

Eastern Region

Kolkata: 2nd Floor; Room No.: 203;
Business Building No.: 11A; William
Carey Sarani, Radha Bazar Lane;
Kolkata, 700001
Mobile: +91 94330 09161

Guwahati: Sonkuchi Path, Beharbari,
House No. 05, P.O. Basistha,
P.S. Basistha, District: Kamrup (M),
Assam, Guwahati - 781029
Mobile: +91 98729 90079

Southern Region

Kochi: 44/533, St Martin road,
Palarivattom, Kochi, Kerala -682025
Tel.: 484 - 4058309, +91 97455 44303

Hyderabad: Plot No. 14, Raghava
Enclave, Transport Road, Near Gunrock
Enclave, Karkhana, Secunderabad -
500009, Mobile: +91 90009 99802

Pune: Shri Chavan Ninad Bhanudas
Cts.149., Shubhashree Buld. FL - 201
2nd 3rd Floor Parvat, Pune - 411009
Mob.: +91 9987005001

Bonton Cables (India) Pvt. Ltd.
Head Office: Epitome Building No. - 5,
18 Floor, Tower-B, DLF Cyber City,
Gurugram - 122002 (Haryana) Tel.:
+91 81302 99001, +91 81302 99001

Works:

Plant 1: A-115 RIICO Industrial Area,
Phase-1, Bhiwadi — 301019 Dist.
Alwar, Rajasthan (INDIA)

Plant 2: A-6A Kaharani Industrial Area,
Bhiwadi — 301019 Dist. Alwar,
Rajasthan (INDIA)



UNINYVIN CABLES





UNINYVIN CABLES

Uninyvin cables are a specialized category of high-performance, flame-retardant, single-core electrical cables designed to operate in demanding environments that require space efficiency, thermal resistance, and mechanical durability. The term "Uninyvin" is derived from the components used in its construction—uniformly insulated with Nylon and Vinyl (PVC).

These cables are constructed using annealed tinned copper conductors, insulated with heat-resistant polyvinyl chloride (PVC), and covered with an outer sheath made of nylon. The combination of materials ensures excellent dielectric strength, heat resistance up to 105°C, and superior resistance to oil, abrasion, and flame.

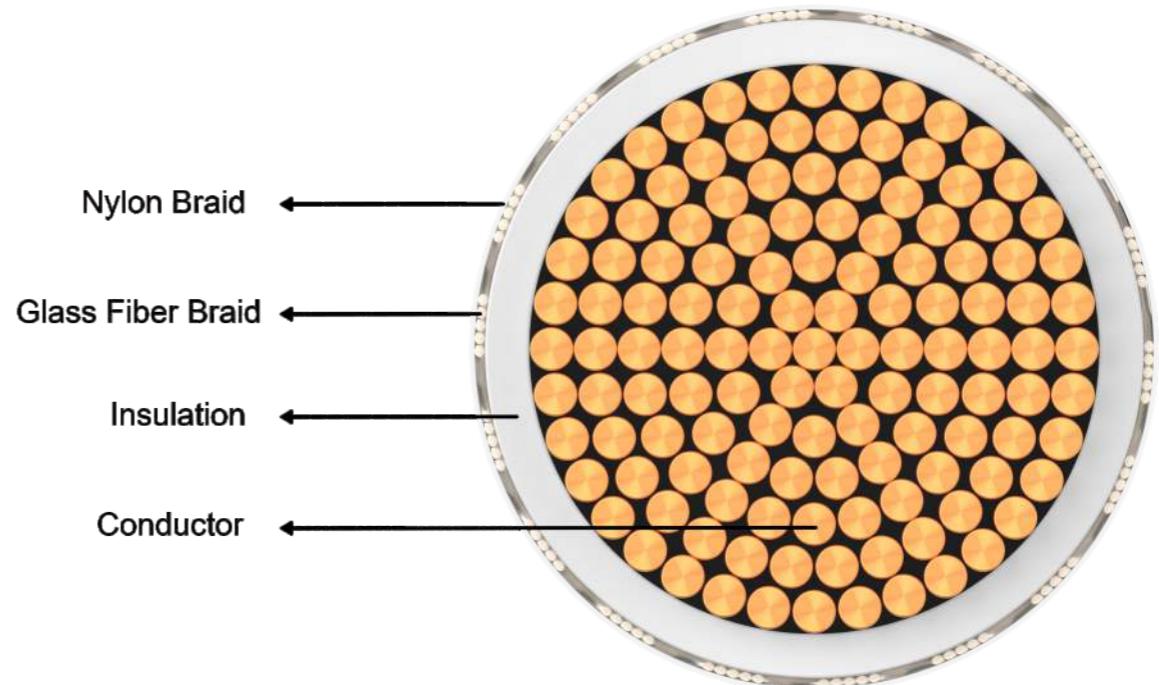
Uninyvin cables are primarily used in applications where conventional PVC or rubber-insulated cables fail to meet space, weight, or thermal requirements. Their unique characteristics make them highly suitable for aerospace, defense, shipbuilding, railway coaches, automotive panels, and precision control equipment, UPS, solar etc.





Construction Details:

Layer	Material	Purpose
Conductor	Annealed Tinned Copper	Provides high conductivity and flexibility
Insulation	Heat-resistant PVC (Type-C)	Ensures dielectric safety and thermal endurance
Sheath	Nylon (Polyamide)	Provides protection against abrasion, oil, chemicals, and enhances flame retardance



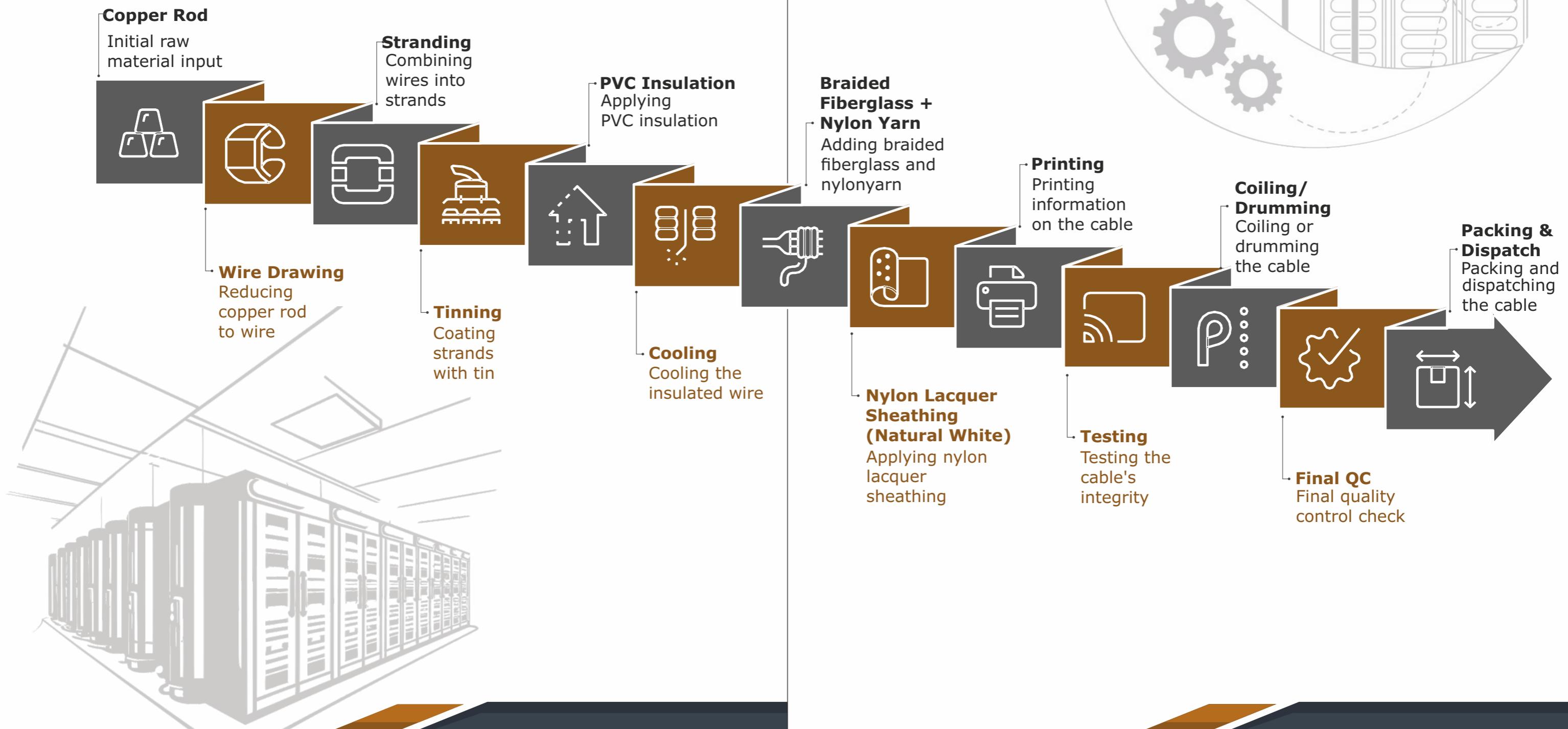
Applications:

- Aerospace and defense wiring
- Control panels, battery interconnections, and switchgear wiring
- Renewable energy systems and electric vehicles
- Industrial machinery and appliances

Key Properties:

- Temperature resistance up to 105°C or higher
- Compact and lightweight construction
- High dielectric strength and flexibility
- Flame retardant, oil-resistant, and mechanically durable

Cable Manufacturing Process



Here's a detailed comparison between Uninyvin Cables and Normal PVC Cables, based on key technical and performance parameters:

Parameter	Uninyvin Cables	Normal PVC Cables
Conductor Material	Electrolytic Grade Copper (Tinned)	Electrolytic Grade Copper (Bare or Tinned)
Insulation Material	Heat-resistant PVC Type-C	General-purpose PVC Type-A or B
Dielectric Strength	High – suitable for compact wiring in high-temp areas	Moderate – sufficient for general applications
Outer Braiding	Braided with fiberglass and nylon yarn with nylon lacquered coating	Generally no braiding or simple PVC outer sheath
Flame Retardant Properties	High – Good flame resistance due to glass fiber and lacquered coating	Standard flame resistance based on PVC quality
Flexibility	High – due to fine stranded conductor and braided design	Moderate – depends on stranding and PVC grade
Current Carrying Capacity	Higher than PVC cables of same size (better heat dissipation)	Lower compared to Uninyvin cables
Durability in Harsh Conditions	Very Good – Resistant to high temp, vibration, and oil	Moderate – Degrades faster in harsh industrial environments
UV / Chemical Resistance	Excellent (nylon lacquer and fiberglass)	Poor to Moderate (depending on PVC type)
Weight / Size	Lighter and more compact	Heavier for the same current rating
Operating Temperature	Up to 105°C continuous	Generally up to 70°C, max 85°C
Safety (Flame / Fire)	Superior – Flame-retardant fiberglass + nylon lacquer offers better protection	Standard – PVC offers basic flame resistance, but toxic fumes on burning
Abrasion Resistance	Excellent – Nylon lacquered braid resists wear and tear	Moderate – PVC sheath is soft and prone to abrasion
Alkali Resistance	High – Resistant to alkalis and many chemicals	Low to Moderate – PVC may degrade on prolonged chemical exposure
Moisture Resistance	Good – Braiding reduces capillary action; resistant with lacquer coating	Good – PVC is naturally water-resistant

Parameter	Uninyvin Cables	Normal PVC Cables
Oil / Chemical Resistance	High – Good resistance to oils and industrial solvents	Moderate – PVC degrades with oils over time
Flexural Life	Longer – Maintains strength under repeated bending	Lower – May crack with prolonged flexing
Mechanical Strength	High – Due to reinforcement with fiberglass braiding	Moderate – Soft sheath without external reinforcement
Applications	High-temp panels, aircraft, defense, EVs, instrumentation wires	Domestic wiring, lighting, switchboards, general power lines
Cost	High – Premium due to specialized materials and process	Low to Moderate – Widely available and economical

Key Takeaways

Use Uninyvin where you need:

- High flexibility
- High temperature & mechanical endurance
- Flame / chemical resistance
- Reliable operation in compact or harsh environments

Use PVC where:

- Budget is primary concern
- Application is low-risk or domestic
- Environment is moderate

Summary

- Uninyvin cables are engineered for high-performance and high-temperature environments, offering superior thermal, mechanical, and flame resistance.
- PVC cables are suitable for general-purpose low to medium voltage wiring, and are more cost-effective for basic applications.

TECHNICAL DATA SHEET - UNINYVIN CABLES