A LEGACY OF TRUST.
A RESPONSIBILITY TO DELIVER
THE HIGHEST QUALITY.

Ultravolt

ADITYA BIRLA | WIRES & CABLES

POWER, EK ZIMMEDARI



ADITYA BIRLA
WIRES & CABLES

WIRES AND CABLES HANDBOOK

by UltraTech

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CHAIRMAN'S MESSAGE

As India moves towards its next phase of growth, its need for power will continue to rise. Across homes, industries and infrastructure, much of what enables this progress will remain unseen. Yet, its quality will shape how safely and reliably India moves forward.

For generations, Aditya Birla Group has helped build what the nation depends on. Ultravolt Wires & Cables marks a natural extension of this journey.

With Ultravolt, our ambition is to raise the standards by which wires and cables are made, distributed and chosen. We bring together the Group's expertise in metals, manufacturing and home-building to create a business built for long-term leadership.

We believe, as Ultravolt grows, so must everyone who carries this journey forward. Our commitment extends to strengthening our partners, empowering industry professionals and helping consumers make better-informed choices. Because powering a growing nation is more than an opportunity. It is a responsibility.

POWER, EK ZIMMEDARI



KUMAR MANGALAM BIRLA



ADITYA BIRLA GROUP

A LEGACY OF **BUILDING INDIA**

For over 150 years, **Aditya Birla Group** has helped shape India's progress. One of the world's largest diversified conglomerates and part of the Fortune 500 league, its expertise spans cement, metals, paints, real estate, several other building products, chemicals, financial services, textiles, fashion and more.

Today, that same depth of knowledge and commitment to excellence comes together in **Ultravolt Wires & Cables** to make power safer and more reliable across homes, commercial spaces, industries and infrastructure.

~US$ 72 BN*
Global Revenue

2,27,500+
Employees

US$ 120 BN+#
Market Cap

41
Countries

*FY25
#As on 26 Aug 2026

UltraTech

1 in 3 homes in India is **built with UltraTech**

The **world's largest cement company** by sales volume and capacity outside China and **India's No. 1 cement**, UltraTech's expertise goes far beyond cement. With 477 RMC plants across 170 cities and over 75 products and solutions spanning construction, waterproofing, tile and marble fixing, it brings strength to every stage of building a home.

Now, with **Ultravolt Wires & Cables**, this trusted expertise extends from what holds the home together to the electrical backbone that keeps it running.

205.5 MTPA
Grey Cement Capacity

34
Integrated Manufacturing Units

36
Grinding Units

1.5 LAKH+
Channel Partners

Disclaimer: UltraTech, India's No. 1 Cement – Visit ultratechcement.com for claim details.

Ultravolt
ADITYA BIRLA | WIRES & CABLES

POWERING HOMES AND **INFRASTRUCTURE RESPONSIBLY**

Ultravolt, Aditya Birla Group's wires and cables brand, marks the next step towards safer, more reliable electrical systems. It takes the expertise that has strengthened India's physical foundations for decades and extends it to the systems that power life within them.

As appliances, technology and electrical demands continue to grow, so does the responsibility carried by every wire and cable. Ultravolt brings together advanced manufacturing, material expertise, in-house R&D and future-forward technology to safely support growing power needs across residential, commercial and infrastructure applications.

The Ultravolt Promise

Uncompromising Integrity
Doing what is right at every stage, with no compromises on quality, safety or reliability.

Future-Forward Thinking
Investing in technology and innovation to stay ready for the power needs of tomorrow.

Shared Growth
Building lasting partnerships that create progress for everyone in the Ultravolt ecosystem.

FACTS & FIGURES

MANUFACTURING

- **2nd largest capacity in India**
- **100+ Acre facility in Bharuch, Gujarat**
- **Equipped with European Machinery**
- **In-house R&D lab with 65+ tests capability**
- **E-Beam Pro Technology**

PORTFOLIO

- **House Wires**
- **Light Duty Cables**
- **Communication Cables**
- **Solar Cables**
- **Power, Industrial & Specialised Cables**

DISTRIBUTION

- **Pan-India across 500+ districts**
- **20+ warehouses**



R&D AND
COPPER EXPERTISE

BETTER WIRES & CABLES BEGIN BEFORE THEY ARE MADE.

Long before an Ultravolt wire carries power, its performance is determined by two things: the material chosen for its core and the intelligence applied to it.

That is why every Ultravolt wire begins with **TruePure Copper - 99.97% pure**, electrolytic-grade annealed copper sourced from within Aditya Birla Group's metals ecosystem. As home to one of the world's largest aluminium companies, the Group also brings deep expertise in another key material used in cable manufacturing. Together, these strengths ensure assured quality, consistent purity and dependable conductivity over time.

From there, science takes over. Ultravolt's strong in-house R&D capabilities and state-of-the-art testing laboratory are backed by Aditya Birla Group's wider expertise in science, metals and materials. The Aditya Birla Science and Technology Centre further supports advanced materials research, strengthening product development and quality assurance.

Together, these investments in R&D allow Ultravolt to validate, test and improve how every cable performs, setting new benchmarks in reliability and performance.



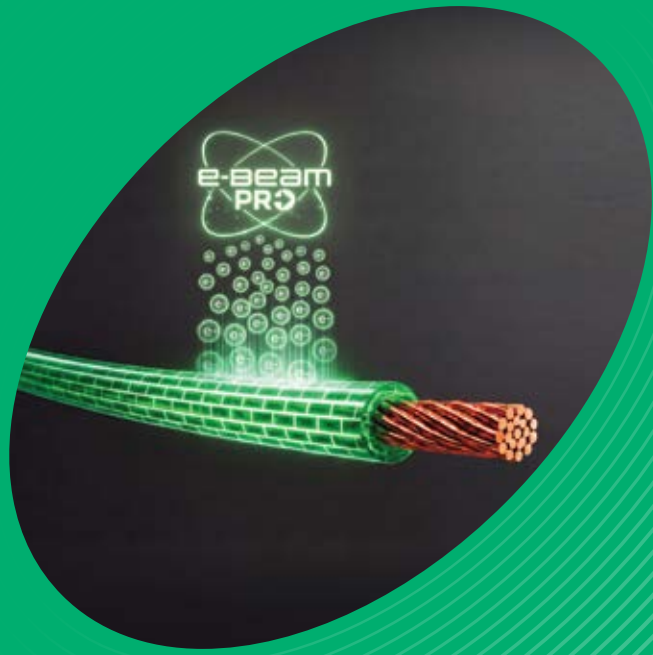
E-BEAM PRO TECHNOLOGY

STRENGTHENED AT THE MOLECULAR LEVEL.

The strength of a wire depends not only on what surrounds its conductor, but on how that insulation is engineered.

Ultravolt's E-Beam Pro uses high-energy electron beams to alter and strengthen the insulation's molecular structure. This cross-linking process helps the insulation retain its form and performance even when exposed to intense heat and electrical stress.

Enabled by advanced machinery from EB Tech Co. Ltd., South Korea, and Vivirad S.A., France, the technology delivers greater precision and consistency while helping wires withstand temperatures of up to **125°C**. E-Beam supports higher electrical loads within the same wire size, helping power more appliances safely while staying ready for future energy demands.





90% Higher Current Carrying Capacity

Built for today's power-hungry homes



Future-Ready Performance

Designed to handle tomorrow's growing electrical load



125° Heat Resistant

Engineered for high-load environments, making them short-circuit safe

CERTIFICATIONS

STANDARDS YOU CAN TRUST.

Every Ultravolt product undergoes rigorous testing and independent verification to meet recognised national and global standards.
This commitment to quality has enabled Ultravolt to receive all its certifications in record time, establishing the strength of its manufacturing processes from the very beginning.

Quality Management System Certification	IS : 694 CM/L: 7100158506 · IS : 17048 CM/L: 7100158405 · IS : 17293 CM/L: 7100161895 — Product Certifications
European Conformity	REACH compliant · RoHS compliant — Human Safety / Environment Safety



QUALITY

BUILT RIGHT, FROM START TO FINISH.

At Ultravolt, quality is not something checked only after a product is made. It is built into the way every product is manufactured.

Our products go through extensive testing before they reach you. Our lab is equipped to conduct 65+ tests.

Best-in-class machines with European technology bring precision and consistency to production, while Industry 4.0 systems maintain complete traceability and enable data-led quality checks at every stage.

Each product undergoes rigorous testing in accordance with its corresponding Indian Standard and associated test methods. This ensures that every conductor is prepared to carry real electrical loads reliably over the long run, without shortcuts or compromises.



65+
Tests

INDUSTRY 4.0
Technology

SUPPLY CHAIN RELIABILITY

TAILORED SOLUTIONS. NATIONWIDE AVAILABILITY.

A dependable product must be supported by dependable availability. Ultravolt is backed by UltraTech's established logistics and channel infrastructure and capability, a trusted supply chain built over decades, along with a growing network of channel partners and strategically located warehouses. Together, they enable Ultravolt to serve markets with consistency, speed and reliability as it expands towards 1 lakh+ retail outlets nationwide, ensuring strong last-mile availability across India.

Our expertise allows us to customise solutions for varied applications and project needs, while ensuring consistent quality and reliability.



500+
Districts Covered

20+
Warehouses

HOUSE WIRES



PROTECTION FOR TODAY. POWER FOR TOMORROW.

Wires are the unseen lifeline of a home, carrying the power that keeps everyday life running. Engineered for safety and dependable performance, Ultravolt House Wires offer solutions ranging from essential protection to advanced fire-safe technology. Built to guard against short circuits and support the growing electrical loads of today and tomorrow.

NEXTGEN (HFFR LF E-Beam Pro)

125° HEAT RESISTANT



Upto 90% higher current carrying capacity. Ready for tomorrow's growing electrical load.

- FUTURE HEAVY-LOAD READY
- SHORT-CIRCUIT SAFE
- TOXIC-HALOGEN FREE, SAFER ESCAPE

Available Sizes	Available Colours	Available Length	Conductor Class
0.75, 1.0, 1.5, 2.5, 4.0, 6.0 sq mm		90 m	Class 5

GREENCORE (HR FR LF)

95° HEAT RESISTANT



Upto 35% higher current carrying capacity with short circuit protection.

- SHORT-CIRCUIT SAFE
- 40+ YEARS OF LIFE
- ECO-FRIENDLY

Available Sizes	Available Colours	Available Length	Conductor Class
0.75, 1.0, 1.5, 2.5, 4.0, 6.0 sq mm		90 & 180 m	Class 5

SAFEPLUS (FR-LSH LF)

70° HEAT RESISTANT



Higher copper content for better energy efficiency.*

- LOWER SMOKE, SAFER ESCAPE
- FLAME RETARDANT
- LEAD-FREE INSULATION

Available Sizes	Available Colours	Available Length	Conductor Class
0.75, 1.0, 1.5, 2.5, 4.0, 6.0 sq mm		90 m	Class 2



*Higher copper content and better energy conductivity is valid for sizes with Class 2 conductor

Disclaimer: Creative Visualization. Performance claims based on independent testing under controlled conditions.
Actual performance may vary with installation quality, load conditions, and usage. For details visit www.ultravoltwirescables.com

LIGHT DUTY CABLES



RELIABLE POWER FOR EQUIPMENT & INDUSTRIAL APPLICATIONS.

Designed for flexibility, durability and dependable power transmission, Ultravolt Project Wires, Flexible, Multicore & Submersible LDC Cables are suitable for, homes & buildings, electrical equipment, control panels, machinery, pumps and portable applications. With robust construction and high conductivity copper conductors, they deliver consistent performance across residential, commercial and industrial installations.

Range Includes:

Safetech (FR-LSH LF) **Single Core Flexible Cables**

Multicore Flexible Cables **Flat Submersible Cables**

Type	Product	Size	Colours	Lengths	Compound
Safetech		0.75, 1.0, 1.5, 2.5, 4.0, 6.0 sq mm		0.75, 1.0, 1.5, 2.5 sq mm: 300 m 4.0 & 6.0 sq mm: 200 m	FR-LSH LF
Single Core Flexible Cables		0.5, 0.75, 1.0, 1.5 2.5, 4.0, 6.0, 10, 16, 25, 35, 50, 70, 95 sq mm		100 m	FR-LSH LF
2 Core Flexible Cables		0.5, 0.75, 1.0, 1.5, 2.5, 4.0, 6.0 sq mm		100 m	FR-LSH LF
3 Core Flexible Cables		0.5, 0.75, 1.0, 1.5, 2.5, 4.0, 6.0, 10, 16, 25, 35, 50, 70, 95 sq mm		Upto 10 sq mm: 100 m 16 sq mm & above: 500 m	FR-LSH LF
4 Core Flexible Cables		1.0, 1.5, 2.5, 4.0, 6.0, 10, 16, 25, 35, 50, 70, 95 sq mm		Upto 10 sq mm: 100 m 16 sq mm & above: 500 m	FR-LSH LF
5 Core Flexible Cables		2.5, 4.0, 6.0, 10, 16 sq mm		Upto 10 sq mm: 100 m 16 sq mm & above: 500 m	FR-LSH LF
Submersible Cables (3 Core Flat)		1.5, 2.5, 4.0, 6.0, 10, 16 sq mm		500 m	FR PVC

Disclaimer: All other sizes, lengths, and insulation compounds can be manufactured by us on an MTO (Make-to-Order) basis, subject to the applicable MOQ.

COMMUNICATION CABLES



SEAMLESS CONNECTIVITY FOR MODERN INFRASTRUCTURE.

From surveillance and networking to voice and audio transmission, Ultravolt Communication Cables are designed to support reliable signal transmission across homes, commercial buildings and industrial environments. Engineered for stable performance and efficient data transfer.

Range Includes:

CCTV Cables **LAN Cables** **Coaxial Cables**

Speaker Cables **Telephone / Switchboard Cables**

Type	Product	Type	Colours	Lengths
CCTV Cables		CCTV Cables (3+1 Core) CCTV Cables (4+1 Core)	○	90 m, 180 m
LAN Cables		CAT 6	🔵 🟢 🟡 ⚫	305 m
		CAT 6-A	⚫	
Coaxial Cables (RG-6)		CCS & Copper	●	100 m, 305 m
Coaxial Cables (RG-11)		CCS & Copper	●	100 m, 305 m
Speaker Cables (2 Core)		0.75 sq mm	◐	90 m
		1.0, 1.5 sq mm	◐ ◐	
Switchboard / Telephone Cables		2 Pair & 4 Pair (0.4 mm / 0.5 mm)	⚫	2 Pair 0.4 mm: 90 m, 500 m 2 Pair 0.5 mm: 90 m 4 Pair: 90 m

SOLAR CABLES



POWERING SOLAR INSTALLATIONS WITH LONG-TERM RELIABILITY.

Built for photovoltaic systems, Ultravolt Solar Cables are certified by BIS as per IS 17293 and designed to withstand demanding outdoor conditions while ensuring efficient power transfer between solar modules and electrical systems. Engineered for dependable performance across rooftop and ground-mounted solar projects.

Range Includes:

Solar Cables 2.5 sq.mm **Solar Cables 4 sq.mm** **Solar Cables 6 sq.mm**

Type	Product	Size	Lengths
Solar Cables		2.5, 4, 6 sq mm	500 m

POWER, INDUSTRIAL & SPECIALISED CABLES



ENGINEERED FOR POWER DISTRIBUTION & INDUSTRIAL PERFORMANCE.

Ultravolt Power, Industrial & Specialised Cables are designed for power transmission, process industries, utilities and critical infrastructure applications. Manufactured to meet demanding operating environments, they enable reliable power, control and signal transmission across industrial installations.

Range Includes:

Power Cables **Control Cables**

Fire Survival Cables **Instrumentation Cables**

Type	Product	Size
Power Cables - 11kV (Upto 3 Core)		Upto 300 sq mm
Power Cables - 1.1kV (1 to 4 Core)		1.5 to 630 sq mm
Control Cables (Upto 37 cores)		1.5, 2.5 sq mm
Fire Survival Cables (2 & 3 Core)		1.5, 2.5, 4, 6 sq mm
Instrumentation Cables (multi-pair)		0.5, 0.75, 1.5 sq mm

IS : 694 CM/L: 7100158506

IS : 17048 CM/L: 7100158405

IS : 17293 CM/L: 7100161895

REACH compliant

RoHS compliant

PRODUCT INFORMATION & DISCLAIMER: All images and visuals are representational and may vary from the actual product. Specifications and performance information are based on applicable standards, specifications and/or test conditions, as relevant, and may vary depending on product variant, installation, operating conditions, load and usage. Specifications are subject to change, subject to applicable law. Product-specific claims are subject to the qualifications stated with the relevant claim. Third-party trademarks and logos, if any, are the property of their respective owners. For complete and current product information, including manufacturer/marketer details, specifications, certifications, safety and installation instructions, warranty terms and statutory declarations, please refer to the respective product packaging, technical literature and/or Company website www.ultravoltwirescables.com. Products must be selected, installed and used in accordance with applicable specifications, standards and safety requirements. Nothing in this brochure overrides applicable statutory requirements. Information contained herein is current as of September, 2026.

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