

RBCSONS

# INDUSTRIAL ELECTRICAL PRODUCTS CATALOGUE

Wires & Cables | Switchgears | Motors | Lighting | Fans | Solar | Switches

**AUTHORISED HAVELLS CHANNEL PARTNER**

55 Ezra Street, Ground Floor, Kolkata - 700001 | www.rbcsons.com

# ABOUT US

Since 1961 | Kolkata

## Welcome to R B Chandak & Sons

R B Chandak & Sons is a trusted name in the electrical products industry, providing a comprehensive range of electrical solutions for industrial, commercial, and residential requirements. We specialise in industrial electrical products, including wires, cables, switchgears, electrical accessories, and related products, catering to the diverse requirements of businesses and industrial establishments.

With a strong focus on reliable supply and customer service, we strive to deliver solutions tailored to every requirement.

In 1961, Shri Bulaki Das Chandak laid the foundation of M/s R.B. Chandak & Sons with a steadfast commitment to integrity, hard work, and uncompromised quality. Built on strong family values and a passion for customer satisfaction, his vision transformed a modest enterprise into a trusted business legacy in Kolkata.

**60+**
Years Trusted Legacy and Industry Excellence

**100+**
Electrical Products SKUs & Solutions

**100%**
Reliable & Trusted Customer Service

## WHO WE SERVE

- Industrial establishments
- Commercial projects
- Residential requirements
- Infrastructure projects
- Interior & fit-out projects
- Manufacturing & steel units

# OUR LEADERSHIP

Four decades of experience, one family legacy



## Late Shree Bulaki Das Chandak

FOUNDER | 1961

In 1961, Shri Bulaki Das Chandak laid the foundation of M/s R.B. Chandak & Sons with a steadfast commitment to integrity, hard work, and uncompromised quality. Built on strong family values and a passion for customer satisfaction, his vision transformed a modest enterprise into a trusted business legacy in Kolkata. Today, as we continue to grow, the foundational principles he established remain the bedrock of our company's culture.



## Shree Gopal Das Chandak

EXPANDING THE LEGACY

He played an instrumental role in expanding the reach and capabilities of M/s R.B. Chandak & Sons. The combined vision, strategic leadership, and operational excellence turned a family endeavour into a flourishing enterprise. His commitment to building strong relationships and fostering business growth added new dimensions to the company, ensuring its steady expansion while upholding the core principles of trust and integrity.



## Goverdhan Chandak

PARTNER

Holds a Bachelor's Degree with Honours in Commerce from the University of Calcutta and brings over 30+ years of experience in the electrical trading industry. He has built strong expertise in sourcing, distribution, supply chain management & strategic procurement, and contributes significantly to the company's operations, vendor relationships, customer service, and overall business management.



## Giriraj Chandak

PARTNER

Holds a Bachelor's Degree with Honours in Commerce from the University of Calcutta and brings over 35+ years of experience in the electrical trading industry. He possesses extensive knowledge of electrical products, customer management & business development, with strong expertise in understanding customer requirements, identifying suitable product solutions and managing key client relationships.

# AUTHORISED CHANNEL PARTNER

**IMPORTANT NOTICE**

R B Chandak & Sons is an authorised channel partner of Havells India Ltd. and has prepared this catalogue as such. R B Chandak & Sons is not the manufacturer of the products featured in this catalogue. Havells, Crabtree, Lloyd, REO and Standard, and all related product names, designs and specifications, are the property of Havells India Ltd. and are shown for the purpose of supply by an authorised channel partner.

## WHAT WE SUPPLY

**01**

### Wires & Cables

Essential components used to carry electrical current, transmit data, and connect devices in homes, industries, and public infrastructure.

**02**

### Switchgears

A centralised collection of electrical disconnect switches and circuit breakers used to control and isolate electrical equipment.

**03**

### Industrial Motors

The industry workhorses; they use electromagnetic induction for reliable, low-cost, continuous operation.

**04**

### Electrical Fittings & Fixtures

The essential hardware used to route, secure, connect, and control electricity safely throughout a building.

**05**

### Other Products

Specialised tools, rescue gear, and accessories designed to protect workers from shocks, arcs, and electrocution.

# WHY CHOOSE US

Product variety, quality, service and value

Choosing the right electrical product supplier is important for ensuring smooth project execution and dependable electrical installations. We are focused on providing customers with a combination of product variety, quality, service, and value.

| 99% | 1K+ | 100+ |
| --- | --- | --- |
| Customer Satisfaction | Customer Base | Successful Projects |

## Our Quality Commitment

Quality is an important part of our approach at R B Chandak & Sons. Electrical products directly contribute to the performance and reliability of electrical installations, making it important to select suitable products from dependable sources.

## Customer Satisfaction

Customer satisfaction is at the core of our business philosophy. We understand that customers value more than just the product - they also expect availability, competitive pricing, proper communication, and timely service.

## Serving Diverse Electrical Requirements

Electrical products are required across a wide variety of sectors. R B Chandak & Sons aims to serve customers from different segments with products suitable for their individual requirements.

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# INDUSTRIAL PRODUCTS




# INDUSTRIAL CIRCUIT PROTECTION



## ACB - TINANIA & TITANIA +

- Range: 400 A - 6300 A in 3 Pole & 4 Pole execution, Fixed & Drawout version
- High breaking capacity Ics = 100% Icu upto 150 kA
- Protection against LSIG
- Communication through RS 485 modbus, LCD display
- Advance protections, Power metering, Harmonics & ZSI
- Thermal memory / fault history / max demand / Over Temperature Protection



## POWERSAFE
MCCB PANEL BOARD

- Range 250 A - 630 A
- Available in single door & double door version
- Ready to use customised solution for load management.
- Modular construction & compact size.
- Designed for floor / wall mounting.
- Dedicated shrouded busbar provides safety.
- Elegant & sleek in appearance.



## MCCB

- Range : 16 A- 800 A in 1P /2P/3P/4P execution
- Breaking capacity : 10 kA – 85 kA
- Thermal Magnetic & Microprocessor release
- Compliance Standard : IEC60947-1&2
- High assurance of safety up to 1000 VAC & impulse withstand 8kV
- Operation Voltage up to 690 VAC
- Compact design to optimize panel size
- Positive Isolation & Class II insulation
- Withstanding under high ambient temperature & Harsh Environment
- High mechanical and Electrical endurance for better return on Investment
- Wide range of accessories.



## INSTASHIFT
MANUAL CHANGEOVER SWITCH

- Range: 40 A - 800 A
- Flexibility in Operation (Side and Centre)
- Modularity to Convert into Motorized & Auto Changeover
- Staggered Terminals for Ease of Termination
- Line Load Reversibility
- 360° Mounting
- IP43 Enclosure Available
- Provision for 2 NO / NC Switch



## EUROLOAD
CHANGEOVER SWITCH

- Range : 40 A - 3150 A in 4P execution
- Line and load reversibility
- Quick make and break operation
- High electrical & mechanical endurance
- Enclosed mechanism to avoid dust ingress
- Add on aux. contacts
- Available in open execution / enclosure



## INSTALINE
AUTOMATIC TRANSFER SWITCH

- Range : 40 A - 630 A in 4P execution available with smart controller
- Compact & light weight design
- Positive indication through flag indicator
- Option for source selection
- Start / Stop command for digi set
- Protection against Under / Over Voltage, Under / Over Frequency & Phase Failure



## EUROLOAD
SWITCH DISCONNECTOR

- Range : 80 A - 400 A in 3P execution, 40 A - 3150 A in 4P execution
- High electrical & mechanical endurance
- Quick make and break operation



## KOMPACT PLUS
SWITCH DISCONNECTOR FUSE

- Range : 32 A - 800 A in 3P & 4P.
- Front operated, positive isolation switch mechanism.
- Stationary Fuse Links prevent loosening of fuses.
- Handle with Padlock, Door interlock and defeat facility.
- In open execution / in enclosure.
- With Fuse version also available.





# MOTOR CONTROL SOLUTIONS



## CONTACTORS & THERMAL OVERLOAD RELAY

- Range : 9 A – 800 A, AC-3 in 8 Frames
- Snap fit construction up to 40 A
- Class H Insulation
- Cassette Type Design and universal Coil (AC / DC) from 115 A to 800 A
- Nut Retaining Washer for quick termination
- DIN rail mounting up to 100 A
- Protection degree IP 20
- DC Coil Contactor (9 A – 105 A) and Mini Contactor (7 A – 16 A)
- Thermal Over load class 10 A relays with built in SPP
- Auto Manual reset option
- Direct mounting / separate mounting provision
- Transparent cover for Dust & accidental touch protection



## HGSM SERIES

MOTOR PROTECTION CIRCUIT BREAKER

- Push Button version - 1 Frame size – 45 mm Width
- Rotary version - 2 Frame size – 45 mm & 55 mm Width
- Ratings from 0.1 A - 63 A, Trip Class 10 A
- Rated Operation Voltage Ui = 690 V
- High Magnetic Setting - Makes it suitable for IE2, IE3 & IE4 Motors
- In-built "Type-2 Co-ordination" even when used standalone
- Finger proof IP20 Terminals
- Lockable in OFF Position
- Suitable for DIN channel mounting



## STARTERS

- Motor Starters upto 150 HP in DOL and star delta configuration in single phase and 3 phase application
- Submersible panel solutions with in built auto switch and advance protection features ( option of MCB incomer possible)
- Wide band coil operation making suitable for Tropical conditions
- High performance long life all purpose contactors and accurate thermal over load relay for precise protection





# POWER QUALITY SOLUTIONS



# POWER QUALITY SOLUTIONS



## CAPACITORS, REACTORS & IPFC

- High Performance low loss MPP Cylindrical/ box power capacitors – Splendid duty, Heavy Duty and super heavy duty in 440 V / 480 V / 525 V
- Single phase and Agriculture duty MPP capacitors
- HD Harmonic Detuned reactors from 1 to 100KVAR ( Aluminum & copper ) with upto 225% linearity & H Class Insulation
- Zero programing Intelligent Power factor controller 8 & 12 stage



## IGBT

BASED POWER QUALITY SOLUTIONS

- SVG, AHF & Hybrid Power Quality Solutions
- Heavy Duty IGBT used for Switching Technology
- Latest technology & Ultra-Fast algorithm used for sensing and control which provides smooth & precise compensation.
- Advanced LCD display with intelligent 32 bit microprocessor.
- User friendly programs and customization as per customer requirement for data display.
- Modular design enclosure fabricated by latest Amada CNC Machines & painted through fully automatic powder coating plant after



## AUTOMATIC POWER FACTOR CORRECTION PANEL

- Range: 10 kVAr to 1000 kVAr
- Modular Design which allows easier assembly, installation and maintenance by the user.
- Powder coated panel box.
- Advanced Microprocessor based IPFC.
- Switch option Auto or Manual.
- Capacitor Duty Contactor with dumping resistance to enhance capacitor life.




## CAPACITORS - MFD

- Rating : 2.25 µF - 120 µF
- casing : Plastic & Aluminium
- Low dissipation factor
- Extended life capacity
- Self healing properties
- Self extinguishing plastic material


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# CONVENTIONAL PRODUCTS



# CONVENTIONAL PRODUCTS



## CHANGEOVER SWITCH

- Suitable for individual mounting, inner mounting holes and mounting brackets provided in enclosures.
- Sheet steel enclosure duly phosphatised and powder painted.
- Door interlocking facility.
- Termination suitable for Aluminum cables, adequate knockouts provided in the enclosure for cable entry.



## SWITCH FUSE UNIT

- Suitable for surface mounting.
- Sheet steel enclosure duly phosphatised and powder painted.
- Provision of conduit knockouts and detachable gland plates.




## FUSE SWITCH UNIT

- Positive indication of contacts.
- Sheet steel enclosure duly phosphatised and powder painted.
- Suitable for surface mounting.
- Door interlock facility.



## KITKAT

- Short Circuit breaking capacity upto 16 A-2 kA, 32 A onward 4 kA
- Fuse carrier contacts - Copper Tinned
- Fuse Base contacts - Brass Tinned
- Available in Standard Version & Delux version
- Higher ratings with extension strips





# BUILDING CIRCUIT PROTECTION




# BUILDING CIRCUIT PROTECTION



## ARC FAULT DETECTION DEVICE (AFDD)

- Provides protection against arc faults, short circuits Overloads, and Leakage.
- Resistant to nuisance tripping i.e. it distinguishes between normal arcs that can appear at the time of switching and abnormal arcs that could lead to potential risk of fire.
- It offers protection against overvoltage higher than 270 V ± 5%, thus prevents any damage to electrical appliances.
- Contact position indicator is provided in Combined 1P+N MCB AFDD for fast and easy identification of contact status. Green: contacts opened Red: contacts closed



## PRCD

PLUG - RESIDUAL CURRENT DEVICE

- Provide protection from risk of leakage current (life saving)
- Type A: Residual current fault of AC as well as pulsating DC
- In case of fault it disconnects both line and neutral of output supply
- Manual reset and test button for safety checks
- Provide protection from both overload and short circuit
- Protect from possible fire hazards
- Engineered Double pole switching
- Auto trip feature / Indication for power ON
- Manual reset provision to restore supply
- Built-in Test and Reset Buttons
- Compliance to IEC 61540
- Brass current carrying parts
- Compact size



## RCCB

- Ensures circuit identification and hence reduces maintenance downtime
- The terminals are suitable for cables up to 35 $mm^2$ cross section area. Thus making it suitable for copper and aluminium cables
- They guide the cable towards the cage terminal and avoid improper cable termination
- Every device is provided with a dual position DIN rail clip, so it becomes much easier to change a device from a device bank connected to a bus-bar, without disturbing the existing wiring



## DC - MINIATURE CIRCUIT BREAKER

- Range : 16 A, 20 A, 25 A, 32 A, 40 A & 63 A
- Execution : 2P & 4P
- Specification : IEC 60947-2
- Application : MCBs for DC application are specially designed to meet tough arc quenching conditions. While selecting circuit breaker for DC applications above parameters have to be taken into consideration.



## SURGE PROTECTION DEVICES

- Visual as well as Remote end-of-life indicators.
- Simple, Professional Installation of Arrester Modules
- High Terminal Capacity - 35 mm² for Ease of Installation.
- Bi-stable Snap-pusher for Easy Installation and Extractioin from DIN-rail.
- Finger Touch-Proof IP 20.
- TUV Tested and approved. CE compliant.



## DOWNSTREAM PROTECTION DEVICES

- Provide protection from the risks of leakage current (life saving).
- All-in-one devices (SRCD DBOXx & HofeSafe SRCD), which also provide protection from overload & short circuit faults
- Manual reset and test button for safety checks.
- In case of fault it disconnects both line & neutral of output supply.



## MINIATURE CIRCUIT BREAKER

- Range
- 0.5 A to 63 A - 'C' Curve & 0.5 A to 32 A - 'D' Curve
- Accessories :
  - Auxiliary Contact
  - Under Voltage Trip
  - Shunt Trip
  - Under Voltage Trip + Time Delayed
  - Over Voltage Trip
  - Phase Loss
  - Under Voltage Trip + Over Voltage Trip



## TIME SWITCH

- Digital time switch with daily and weekly program
- Text-oriented user guidance in display
- 3 year power reserve (For multifunction time switch 10 year power reserve)
- Automatic summer/winter time changeover
- Preset date and time
- Holiday program
- Permanent switching ON/OFF for better user experience.
- Reset option
- Programmable in 5 languages



## MCB - HIGHER CURRENT MCB (80 A - 125 A)

- Range: 80 A, 100 A & 125 A - 'C' Curve
- Execution : Single Pole (1P), Double Pole (2P) Three Pole (3P), Four Pole (4P)
- Specification : IS/IEC 60947-2 & IEC 60947-2







# MOTORS



# MOTORS

Havells is leading manufacturer of Induction Motors that are extensively used in various industries and applications. Our state of the art manufacturing plant is located at Neemrana, Rajasthan where we manufacture energy efficient motors up to 315 kW.

## IE4 MOTORS



- 100% in-house manufacturing
- High efficiency
- Reduced lifecycle cost
- Short payback period
- Optimized cooling system for better operation and reduced noise
- Highly mechanical stable design provides low vibration
- Super Premium Energy Efficient IE4 Motors confirms to IEC 60034/ IS12615 :2018 Standards
- Rated voltage ≤ 690 V
- Rated Power : 0.37 kW to 90 kW ( Frame size : 80 – 280)
- 2, 4 & 6 poles
- Degree of protection up to IP66
- Other features : For specific requirements or additional features, please contact the Havells team.

## IE3 & IE2 MOTORS



- 100% in-house manufacturing
- High efficiency
- Reduced lifecycle cost
- Short payback period
- Optimized cooling system for better operation and reduced noise
- Highly mechanical stable design provides low vibration
- IE2 & IE3 efficient motors confirm to IEC 60034/IS12615 :2018 Standards
- Meet frame size to output relation as covered in IS:1231 & IS / IEC 60072-1
- Rated voltage ≤ 690 V
- Rated Power : 0.37 kW to 315 kW
- 2, 4, 6 & 8 poles
- Degree of protection upto IP55 (for 315 & 355 Frame)
  upto IP66 (for 63 - 280 Frame)
- Other features : For specific requirements or additional features, please contact the Havells team.

## BRAKE MOTORS



- Fail-safe operation: Braking is activated during power failure, ensuring safety.
- Disc-type braking mechanism offering higher and stable braking torque over time.
- Integrated rectifier unit housed in the motor terminal box, eliminating the need for separate DC supply.
- Spring-loaded brake liner for instant stopping.
- Highly durable brake liner for long-term consistent performance.
- Noise-free operation with low vibration levels.
- Applications : Elevators, conveyors, cranes, textile machinery, and material handling equipment.
- Rated Power: 0.12 kW to 45 kW.
- Degree of Protection: IP55 for operation in dusty and humid environments.
- Other features : For specific requirements or additional features, please contact the Havells team.

## CRANE DUTY MOTORS



- Designed for arduous applications with frequent starts, stops, and reversals.
- High starting torque and low starting current for efficient acceleration.
- Optimized cooling system for better heat dissipation, enhancing motor life.
- Rugged mechanical construction with options for aluminum or cast iron frames.
- Conforms to industry standards IS/IEC.
- Applications: Cranes, hoists, material handling equipment, sluices, and auxiliary drives in rolling mills.
- Power Output: 0.18 kW to 90 kW.
- Poles: 4, 6, and 8.
- Duty Cycles: Suitable for S3, S4 and S5 applications with cyclic duty factors (CDF) up to 60%.
- Other features: : For specific requirements or additional features, please contact the Havells team.

## SMOKE EXTRACTION MOTORS



- Range of low-voltage squirrel-cage smoke motors meticulously designed for smoke and heat exhaust ventilators.
- Engineered to operate seamlessly even in high ambient temperatures.
- Adhering to the rigorous British Standard EN 12101-3
- Tailored solutions to diverse fire safety needs:
- F 250: Withstanding 250 °C for 2 hours
- F 300: Enduring 300 °C for 1 hour or 2 hours
- F 400: Resisting 400 °C for 1 hour or 2 hours
- Rated Power: 0.37 kW to 200 kW
- IP55 protection (On request IP56 / IP65 / IP66)
- TUV Nord approved
- Cooling Type: TEFC & TEAO
- IEC Frame: 71 to 315
- Other features : For specific requirements or additional features, please contact the Havells team.

## GEARBOX APPLICATION MOTORS



- Havells Gearbox Application motor, specially designed to provide maximum torque with low heat dissipation in compact size.
- Motor comes with IEC Flange dimensions & mountings for easy coupling with gearbox unit and high mechanical shaft strength to bear high load stress.
- Application: Packaging, Mixing, Conveyor, Cranes
- Industries: Food Processing, Paper, Sugar, Cement, Material Handling, Pharmaceuticals, plastic processing
- Rated Power: 0.18 kW to 1.5 kW
- IEC Frame: 63 to 90
- Other features : For specific requirements or additional features, please contact the Havells team.

## FLAMEPROOF MOTORS



- 100% in-house manufacturing
- Robust design to prevent internal explosion pressure.
- Strong spigotted joints for better ingress and safety from internal explosion.
- Special varnishing and painting treatment to resist highly corrosive environment
- Component assembled with counter holes and good quality socket head cap screws with spring washer along with more thread engagement for better safety.
- Havells Flameproof Motors tested and certified for ingress protection test as per IEC 60034-5: 2006 from NABL test labs.
- Motor can be offered with IP 55, IP56, IP65 and IP66 Ingress protection.
- Rated Power : 0.25 kW to 55 kW/0.33 HP to 75 HP, Gas group IIA, IIB, Zone 1, 2
- PESO, BIS, NABL accredited lab approved
- Other features : For specific requirements or additional features, please contact the Havells team.

## FIRE FIGHTING MOTORS



- Havells "Fire fight" Series IE2 2-Pole motors are designed to operate high pressure fire fighting pumps efficiently.
- Fire fighting motors are used in various places i.e. Fireworks Industries, Commercial Complex, Petrochemical Industries, Gas plants, High rise buildings, godowns, Marine application, Hospitals, School, colleges, Powerplants etc.
- Motor comes with Class F to F rise.
- This series comply with IS12469:2019 standard.
- Rated Power : 5.5 kW to 160 kW
- Class F insulation
- IEC Frame: 112 to 315
- TEFC type cooling
- Other features : For specific requirements or additional features, please contact the Havells team.

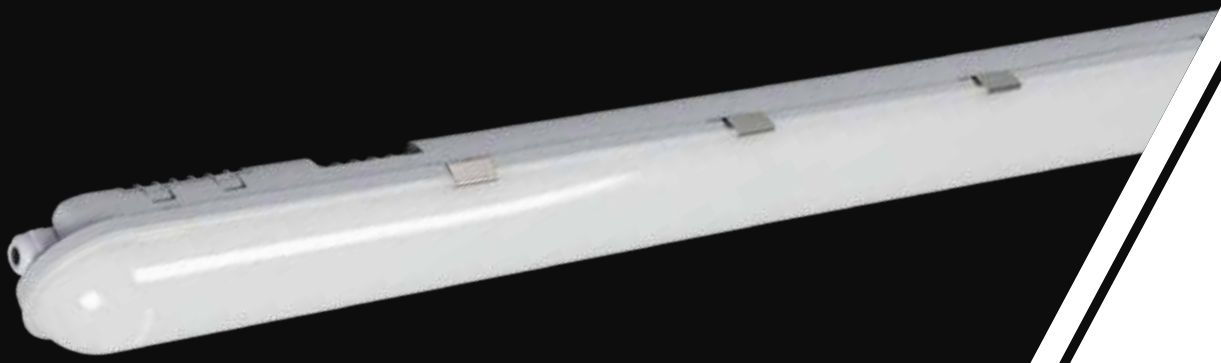
**Features:**

| | | | | |
|---|---|---|---|---|
| Havells Motors confirms to IS12615/IEC60034: 2018 | Robust design and aesthetically beautiful | Highly reliable design for most demanding conditions | Available in various mountings and IP protection | Havells Flameproof Motors are BIS and PESO Approved |





# PROFESSIONAL LIGHTING



# INDUSTRIAL LED BATTENS



## MAGNUM GRAND NEO
## 20 W / 36 W /40 W IP66

- Excellent efficacy & performance suitable for wall/ceiling and suspended installation
- Long life & photobiologically safe LEDs
- High performance electronic driver ensures zero maintenance
- No harmful UV & IR radiations
- Environment friendly as it does not contain Mercury
- Instant light with low running temperatures
- Operating temperature: -10 °C to +40 °C
- Operating voltage range: 140 V - 270 V
- Average life $L_{70}B_{50}$: 50,000 hours



## MAGNUM GRAND GEN ORG
## 36 W/40 W

- Excellent efficacy & performance suitable for wall/ceiling and suspended installation.
- Long life & photobiologically safe LED's
- High performance electronic driver ensures zero maintenance
- No harmful UV & IR radiations
- Environment friendly as it does not contain Mercury
- Instant light with low running temperatures
- Operating temperature range + 40 ºC
- Operating voltage range: 140 V - 270 V
- Average life $L_{70}B_{50}$: 35,000 hours



## DURA PRO

- Elegantly designed Industrial Battens in Extruded Aluminum Housing and Milky White PC diffuser and IP40 protection.
- Delivers excellent illumination & comfort in high ceiling areas with best in class efficacy of →130 lm/W Efficacy in 45 W.
- Long life & photobiologically safe LED's with Average life $L_{70}B_{50}$: 50,000 hours
- No harmful UV & IR radiations
- High performance Potted electronic driver with ←10% THD and 4 kV SPD ensures zero maintenance.
- Operating temperature: -10 °C to +45 °C
- Operating voltage range: 140 V - 270 V
- Dimensions (LxWxH): 1213 mm x 30 mm x 37 mm
- Optional Accessories: Suspension Clamps and Retrofit Reflector.



## DURA BATTEN

- Elegantly designed Industrial Battens in Extruded Aluminum Housing and Milky White PC diffuser and IP40 protection.
- Delivers excellent illumination and suitable for diverse industrial applications having efficacy of →120 lm/W Efficacy in 40 W.
- Long life & photobiologically safe LED's with Average life $L_{70}B_{50}$: 50,000 hours
- No harmful UV & IR radiations
- High performance electronic driver with ←10% THD and 4 kV SPD ensures zero maintenance. Option of Potted Driver available.
- Operating temperature: -10 °C to +45 °C
- Operating voltage range: 140 V - 270 V
- Dimensions (LXWXH): 1213 mm x 30 mm x 37 mm
- Optional Accessories: Suspension Clamps and Retrofit Reflector.



## ENDURA LINEAR PRO

- Elegantly designed Sleek Industrial Battens in Extruded Aluminum Housing and Milky White PC diffuser .
- Delivers excellent illumination and suitable for general industrial applications having efficacy of →125 lm/W Efficacy in 20 W.
- Long life & photobiologically safe LED's with Average life $L_{70}B_{50}$: 50,000 hours
- No harmful UV & IR radiations
- High performance EMC/EMI compliant electronic driver with ←10% THD and 4 kV SPD ensures zero maintenance.
- Operating temperature: -10 °C to +35 °C
- Operating voltage range: 140 V - 270 V
- Dimensions (LXWXH): 1213 mm x 30 mm x 37 mm
- Optional Accessory: Suspension Clamps



## LUMILINE X

- Elegantly designed Industrial Battens in Extruded Aluminum Housing and Milky White PC diffuser.
- Delivers excellent illumination and suitable for diverse industrial applications having best in class efficacy of →140 lm/W in 36 W.
- Long life & photobiologically safe LED's with Average life $L_{70}B_{50}$: 50,000 hours
- No harmful UV & IR radiations
- High performance electronic driver with ←15% THD and 4 kV SPD ensures zero maintenance.
- Operating temperature: -10 °C to +35 °C
- Operating voltage range: 140 V - 270 V
- Dimensions (LXWXH): 1185 mm x 35 mm x 40 mm
- Optional Accessories: Suspension Clamps.



## LUMILINE PLUS PRO

- Elegantly designed Sleek Industrial Battens in Extruded Aluminum Housing and Milky White PC diffuser.
- Delivers excellent illumination and suitable for general industrial applications having efficacy of →110 lm/W Efficacy in 10 W & 20 W.
- Long life & photobiologically safe LED's with Average life $L_{70}B_{50}$: 50,000 hours
- No harmful UV & IR radiations
- High performance electronic driver with ←10% THD and 4 kV SPD ensures zero maintenance.
- Operating temperature: -10 °C to +35 °C
- Operating voltage range: 140 V - 270 V
- Dimensions (LXWXH): 1213 mm x 30 mm x 37 mm
- Optional Accessory: Suspension Clamps



## REGAL BATTEN

- Industrial Battens suitable for T8 Retrofit Lamps with Housing & cover made up of CRCA sheet steel.
- Push fit type white polycarbonate housing and ABS rotor with corrosion resistant brass contacts.
- Complete internal wiring suitable for retrofit LED tubelight with single side connections.
- Optional Accessory: Reflectors



## TITANIA PLUS

- Retrofit Industrial T8 LED Tubes with Opal Polycarbonate housing having integrated Aluminum Heat sink.
- Delivers excellent illumination and suitable for general industrial applications having efficacy of →115 lm/W Efficacy in 18 W & 30 W.
- Long life & photobiologically safe LED's with Average life $L_{70}B_{50}$: 50,000 hours
- No harmful UV & IR radiations
- High performance integrated electronic driver with 3 kV SPD ensures zero maintenance.
- Operating temperature: -10 °C to +35 °C
- Operating voltage range: 140 V - 270 V
- Dimensions (Ø x L): 28 mm X 1200 mm



## PHOTON ULTRA LED

- Excellent efficacy & performance .
- Long life & photobiologically safe LED's
- High performance electronic driver ensures zero maintenance
- No harmful UV & IR radiations
- Environment friendly as it does not contain Mercury
- Instant light with low running temperatures
- Operating temperature: -10 °C to +45 °C
- Operating voltage range: 140 V - 270 V
- Average life L70B50: 50,000 hours



## MAGNUM RETRO (SINGLE SIDE CONNECTION)

- Housing & Finish : Made up of corrosion resistant unbreakable polycarbonate.
- Cover : Clear polycarbonate cover with better light dispersive internal reeds fix to the housing by means of SS toggles.
- Lamp Holders : Push fit type white polycarbonate housing and ABS rotor with corrosion resistant brass contacts.
- Light Source : Complete internal wiring suitable for retrofit LED tubelight with single side connections.



# CLEANROOM



## LED CLEAN ROOM BOTTOM

- Excellent efficacy & performance suitable for high ceiling areas
- Long life & photobiologically safe LEDs
- High performance electronic driver ensures zero maintenance
- No harmful UV & IR radiations
- Environment friendly as it does not contain Mercury
- Instant light with low running temperatures
- Operating temperature: -10 °C to + 45 °C
- Operating voltage range: 140 V - 270 V
- Average life $L_{70}B_{50}$: 50000 hours



## LED CLEAN ROOM BOTTOM (WITH SS FRAME)

- Excellent efficacy & performance suitable for high ceiling areas
- Long life & photobiologically safe LEDs
- High performance electronic driver ensures zero maintenance
- No harmful UV & IR radiations
- Environment friendly as it does not contain Mercury
- Instant light with low running temperatures
- Operating temperature: -10 °C to + 45 °C
- Operating voltage range: 140 V - 270 V
- Average life $L_{70}B_{50}$: 50000 hours



## LED CLEAN ROOM TOP OPENING EXE

- Excellent efficacy & performance suitable for high ceiling areas
- Long life & photobiologically safe LEDs
- High performance electronic driver ensures zero maintenance
- No harmful UV & IR radiations
- Environment friendly as it does not contain Mercury
- Instant light with low running temperatures
- Operating temperature: -10 °C to + 45 °C
- Operating voltage range: 140 V - 270 V
- Average life $L_{70}B_{50}$: 50000 hours



## LED CLEAN ROOM TOP OPENING (WITH SS FRAME)

- Excellent efficacy & performance suitable for high ceiling areas
- Long life & photobiologically safe LEDs
- High performance electronic driver ensures zero maintenance
- No harmful UV & IR radiations
- Environment friendly as it does not contain Mercury
- Instant light with low running temperatures
- Operating temperature: -10 °C to + 45 °C
- Operating voltage range: 140 V - 270 V
- Average life $L_{70}B_{50}$: 50000 hours



# WELL GLASS



## STUPE 30 W/40 W/70 W

- Delivers excellent illumination & comfort
- Long life & photobiologically safe LEDs
- System Lumen efficacy : ~110 lm/W
- High performance electronic driver ensures zero maintenance
- PDC Housing for light section, control gear in high grade nylon casing
- Environment friendly as it does not contain Mercury
- Instant light with low running temperatures
- Operating temperature: -10 °C to +55 °C
- Operating voltage range: 140 V - 270 V
- Average life $L_{70}B_{50}$: 50000 hours
- In-built Surge Protection : upto 3.5 kV as per variants



## ALTEZA 30 W/35 W/40 W

- Delivers excellent illumination & comfort
- Long life & photobiologically safe LEDs
- System Lumen efficacy : ~100 lm/W
- High performance electronic driver ensures zero maintenance
- PDC Housing for light section, control gear in high grade nylon casing
- Environment friendly as it does not contain Mercury
- Instant light with low running temperatures
- Operating temperature: -10 °C to +45 °C
- Operating voltage range: 140 V - 270 V
- Average life $L_{70}B_{50}$: 35000 hours
- In-built Surge Protection : upto 3.5 kV as per variants



# HIGH BAY



## SAUCER GENX SERIES

- Delivers excellent illumination & comfort
- Long life & photobiologically safe LEDs
- High performance electronic driver ensures zero maintenance
- No harmful UV & IR radiations
- Environment friendly as it does not contain Mercury
- Instant light with low running temperatures
- Operating temperature: -10 °C to +45 °C
- Operating voltage range: 140 V - 270 V
- Average life $L_{70}B_{50}$: 50000 hours
- In-built Surge Protection [upto 4 kV in lower wattage, upto 6 kV in mid level, upto 10 kV in high wattage



## GAZELLA
## 80 W/100 W/120 W/150 W

- Delivers excellent illumination & comfort
- Long life & photobiologically safe LEDs
- System Lumen efficacy : ~105 lm/W
- High performance electronic driver ensures zero maintenance
- No harmful UV & IR radiations
- Environment friendly as it does not contain Mercury
- Instant light with low running temperatures
- Operating temperature: -10 °C to +45 °C
- Operating voltage range: 140 V - 270 V
- Average life $L_{70}B_{50}$: 35000 hours
- In-built Surge Protection : 4 kV

* IMAGE FOR REFERENCE PURPOSES ONLY, ACTUAL SHALL VARY




# FLOODLIGHT




## JETA ADORN

- Wattage: 30 W,50 W,70 W,100 W,120 W,150 W,200 W,250 W
- Adorn V2 – Without Lens
- Adorn Nxt V2 – With Lens
- Efficacy: 100-110 LPW, SMD LED package mounted on MCPCB
- Lifeclass – 35,000 burning hours, Warranty 2 Years, -10 °C to +45 °C
- Housing: Pure polyester powder coated die-cast aluminium housing, M16 Cable Gland
- CRI: 70 , CCT: 5700 K, 3000 K soon, IP Rating: IP66, Impact Resistance: IK07 with Tempered protective toughened glass, THD: ←10%
- Surge Protection: 6 kV Within Driver
- Electrical Parameters: Universal input : 100 V - 300 VAC, Built-In Potted, isolated constant current LED driver, Output Open / Short Circuit protection, Over Voltage (440 V) protection, HV – LV Cut off, safety test as per IS 15885 Part-2/Sec 13.




## JETA ADORN NXT

- Delivers excellent illumination & comfort
- Long life & photobiologically safe LED's
- High performance electronic driver ensures zero maintenance
- No harmful UV & IR radiations
- Environment friendly as it does not contain Mercury
- Instant light with low running temperatures
- Operating temperature: -10 °C to +45 °C
- Operating voltage range: 140 V - 270 V
- Average life L70B50: 50000 hours




## JETA LEGANZA

- Wattage: 30 W,50 W,70 W,100 W,120 W,150 W,200 W,250 W
- Efficacy: 120 LPW, High efficiency long life LED module with SMD LED package mounted on MCPCB, 60° Beam angle (30°- On request)
- Lifeclass – 50,000 burning hours, Warranty up to 5 Years, -10 °C to +50 °C
- Housing: Pure polyester powder coated die-cast aluminium housing, LILO-On Request
- CRI: 70 , CCT: 5700 K/3000 K, IP Rating: IP66, Impact Resistance: IK07 with Tempered protective toughened glass, THD: ←10%
- Surge Protection: 10 kV/5 kA External SPD, 6 kV Within Driver
- Electrical Parameters: Universal input : 100 V - 300 VAC, Built-In Potted, isolated constant current LED driver, Output Open / Short Circuit protection, Over Voltage (440 V) protection, HV – LV Cut off, safety test as per IS 15885 Part-2/Sec 13



## JETA MONOS PRO

- Wattage: 350 W/400 W/500 W (Toughened Glass)
- Efficacy: HE 130 LPW, UHE 140 LPW High efficiency long life LED module with SMD LED package mounted on MCPCB
- Lifeclass – 50,000 burning hours, Warranty up to 5 Years, -10 °C to +50 °C
- Housing: Pure polyester powder coated Single Piece die-cast aluminium housing, Screw Less Design, LILO-On Request
- CRI: 70, On request CRI 80 & 90, CCT: 5700 K, IP Rating: IP66, Impact Resistance: IK08 with Tempered protective toughened glass, THD: ←10%
- Surge Protection: 10 kV/5 kA External SPD, 6 kV Within Driver
- Electrical Parameters: Universal input : 140 V - 270 V AC, Integral/external, EMI-EMC certified isolated constant current LED driver, Output Open / Short Circuit protection, Over Voltage (440 V) protection, HV – LV cut off, safety test as per IS 15885 Part-2/Sec 13.



# STREET LIGHT



## ENDURA SUNDOWN GENX 30 W (SLPC 30 W)

- Delivers excellent illumination
- Long life & photobiologically safe LED's
- High performance potted electronic driver ensures zero maintenance
- No harmful UV & IR radiations
- Environment friendly as it does not contain Mercury
- Instant light with low running temperatures
- Operating temperature: -10 °C to + 50 °C
- Operating voltage range: 100 V - 300 V
- Average life L70B50: 50000 hours
- Housing & Finish : Pressure die-cast aluminium alloy for housing (heat sink) for effective thermal management, sturdiness, excellent corrosion resistant, separate optical and control gear compartment & Bottom Opening for easy maintenance.



## ENDURA SUNDOWN 90 W (SLTG 90 W)

- Delivers excellent illumination
- Long life & photobiologically safe LED's
- High performance potted electronic driver ensures zero maintenance
- No harmful UV & IR radiations
- Environment friendly as it does not contain Mercury
- Instant light with low running temperatures
- Operating temperature: -10 °C to + 50 °C
- Operating voltage range: 100 V - 300 V
- Average life L70B50: 50000 hours



## ENDURA SUNDOWN 120 W (SLPC 120)

- Delivers excellent illumination
- Long life & photobiologically safe LED's
- High performance potted electronic driver ensures zero maintenance
- No harmful UV & IR radiations
- Environment friendly as it does not contain Mercury
- Instant light with low running temperatures
- Operating temperature: -10 °C to + 50 °C
- Operating voltage range: 100 V - 300 V
- Average life L70B50: 50000 hours
- Housing & Finish : Pressure die-cast aluminium alloy for housing (heat sink) for effective thermal management, sturdiness, excellent corrosion resistant, separate optical and control gear compartment & bottom opening for easy maintenance.



# LANDSCAPE



## TURIN
LED BOLLARD 10 W

- Delivers excellent illumination & comfort
- Long life & photobiologically safe LEDs
- High performance electronic driver ensures zero maintenance
- No harmful UV & IR radiations
- IP66 and IK08 protection against water and impact.
- Environment friendly as it does not contain Mercury
- Instant light with low running temperatures
- Operating temperature: -10 °C to +45 °C
- Operating voltage range: 140 V - 270 V
- Average life L70B50: 50000 hours



## BAMBOO
LED BOLLARD 8 W

- Delivers excellent illumination & comfort
- Long life & photobiologically safe LEDs
- High performance electronic driver ensures zero maintenance
- No harmful UV & IR radiations
- Environment friendly as it does not contain Mercury
- Instant light with low running temperatures
- Operating temperature: -10 °C to +45 °C
- Operating voltage range: 140 V - 270 V
- Average life L70B50: 50000 hours



## UFO
LED BOLLARD 10 W

- Delivers excellent illumination & comfort
- Long life & photobiologically safe LEDs
- High performance electronic driver ensures zero maintenance
- No harmful UV & IR radiations
- Environment friendly as it does not contain Mercury
- Instant light with low running temperatures
- Operating temperature: -10 °C to +45 °C
- Operating voltage range: 140 V - 270 V
- Average life L70B50: 50000 hours



## RUBY
LED POST TOP LIGHT

- Delivers excellent illumination & comfort
- Long life & photobiologically safe LEDs
- High performance electronic driver ensures zero maintenance
- No harmful UV & IR radiations
- Environment friendly as it does not contain Mercury
- Instant light with low running temperatures
- Operating temperature:- upto 45 °C
- Operating voltage range: 140 V - 270 V
- Average life L70B50: 50000 hours



## CORAL
LED POST TOP LIGHT

- Delivers excellent illumination & comfort
- Long life & photobiologically safe LEDs
- High performance electronic driver ensures zero maintenance
- No harmful UV & IR radiations
- Environment friendly as it does not contain Mercury
- Instant light with low running temperatures
- Operating temperature:- upto 45 °C
- Operating voltage range: 140 V - 270 V
- Average life L70B50: 50000 hours



## HEXA BULKHEAD

- Excellent efficacy & performance suitable for wall/ceiling and suspended installation
- Long life & photobiologically safe LEDs
- System Lumen efficacy : ~100 lm/W
- High performance electronic driver ensures zero maintenance
- Hexagon shaped pressure die-cast aluminium housing for better thermal efficiency , High quality polycarbonate UV Protected diffuser in opal finish
- Environment friendly as it does not contain Mercury
- Instant light with low running temperatures
- Operating temperature: -10 °C to +45 °C
- Operating voltage range: 140 V - 270 V
- Average life $L_{70}B_{50}$: 50000 hours







# SOLAR SOLUTIONS




# SOLAR SOLUTIONS



MONO PERC PANEL
545 Wp -550 Wp

N TYPE/BIFACIAL
>595 Wp



## DC DISTRIBUTION BOX

- IP65 Rated Polycarbonate box
- Type II DC Surge Protection device
- DC Fuses for positive and negative inputs
- DC Fuse of 20 A rating used
- Suitable for 1000 V DC application

## AC DISTRIBUTION BOX

- Metal Enclosure powder coated
- Type I + II Surge protection device
- Incomer MCB / MCCB as per required capacity
- Outgoining MCB / MCCB / ACB



- Models - Enviro GTi 50 KT - 50 kW & 60 KT - 60 kW
- Three Phase THREE MPPT suitable for Commercial application
- High efficiency inverter up to 98.6 %
- Built in DC Switch, DC SPD Type II
- 4 inch LCD display for generation data
- BIS and IEC Certified
- WiFi / GPRS Data logger, RS485, RRCR Port
- SD card for 25 years data storage locally
- Anti - Reverse Power control (APRC) – Optional

IS 16221 (PART 2):2015/IEC 62109-2 :2011
IS 16169 :2014/IEC 62116 :2008

R-41165239
www.bis.gov.in



- Models - Enviro GTi 100 KT-NG- 100 kW & 110 KT-NG - 110 kW
- IEC Certified
- 10 MPPT with1.5 times DC Overloading
- Inbuilt type II - SPD for DC & AC & DC Switch
- High efficiency inverter up to 98.7 %
- String Level Monitoring
- Online Software Upgrade
- WiFi / GPRS Data logger USB Type
- Anti - Reverse Power control-Optional



- Models - Enviro GTi 60 KT NG - 60 kW, 80 KT NG - 80 kW,
- IEC Certified
- 6 MPPT with1.5 times DC Overloading
- Maximum DC input Voltage 1100 V
- High efficiency inverter up to 98.7 %
- Inbuilt type II - SPD for DC & AC Side
- String Level Monitoring
- Online Software Upgrade
- WiFi / GPRS Data logger USB Type
- Anti - Reverse Power control-Optional



- Models GTi 255 KT-NG - 255 kW
- IEC Certified
- 10 MPPT with 1.5 times DC overloading
- Inbuilt Type II- SPD for DC & AC & DC Switch
- High Efficiency inverter upto 98.7%
- String Level Monitoring
- Online Software Upgrade
- WiFi / GPRS Data Logger USB Type
- Anti - Reverse Power control-Optional

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- Single Phase – 1.1 kW, 2.2 kW, 3.0 kW, 3.3 kW, 4.0 kW
- Three Phase – 4.0 kW, 5.0 kW, 6.0 kW, 15 kW, 20 kW, 24 kW, 25 kW, 30 kW, 40 kW, 50 kW, 60 kW, 100 kW, 110 kW, 255 kW, 350 kW







# INDUSTRIAL FANS



# INDUSTRIAL FANS



## TURBOFORCE

PEDESTAL AIR CIRCULATOR FAN

- Aerodynamically designed blades for higher air delivery and minimal noise levels
- Thermal Overload Protector.
- Double 'z' shielded ball bearings for longer life
- Oscillation up to 90° for total flexibility
- Sturdy brazed wire guards with powder coating ensures corrosion resistance
- Generally conforming to IS: 2997-1964 standards
- Available in 450 mm, 600 mm and 750 mm sweep



## TURBOFORCE

WALL AIR CIRCULATOR FAN

- Aerodynamically designed blades for higher air delivery and minimal noise levels
- Double 'z' shielded ball bearings for longer life
- Thermal Overload Protector.
- Indexable to different positions up to 15°
- Oscillation up to 90° for total flexibility
- Sturdy brazed wire guards with powder coating ensures corrosion resistance
- Generally conforming to IS: 2997-1964 standards
- Available in 450 mm, 600 mm and 750 mm sweep



## TURBOFORCE / TURBOFORCE NEO

HEAVY DUTY EXHAUST FAN

- Corrosion resistant body, minimal noise operation & maintenance free design
- Totally enclosed, highly efficient heavy duty motor with pressure die cast aluminium rotor mounted on two ball bearings
- Aerodynamically contoured blades handle maximum air with minimum power consumption.
- Thermal Overload Protector.
- Rigid frame with rubber mountings for silent operation
- Conforming to IS: 2312 -1967
- Available in various sizes with I & III phase
- An IP55 rated product (protected from limited dust ingress and from low pressure water jets from any direction)
- Available in 300 mm, 380 mm, 450 mm, 600 mm & 900 mm Sweep



## ES PLUS

- Ergonomic design with optimum Air Delivery.
- Energy Efficient 2 star rating.
- 100% copper.
- Available in Brown , Bianco

| STAR RATING | SWEEP | POWER INPUT | SPEED | AIR DELIVERY |
|---|---|---|---|---|
| | 1200 mm | 50 W | 350 r/min | 226 $m^3$/min |



## VELOCITY EPNX

- Sleek motor for elegant room aesthetics
- Aerodynamic and wide blade tip for high air delivery.
- 100% copper.
- Available in White, Bianco, Brown

| STAR RATING | SWEEP | POWER INPUT | SPEED | AIR DELIVERY |
|---|---|---|---|---|
| | 1200 mm | 55 W | 350 r/min | 220 $m^3$/min |



## ES 40

- Aerodynamic Blades for maximum Air delivery.
- Energy Efficient 3 star rating
- 100% copper.

| STAR RATING | SWEEP | POWER INPUT | SPEED | AIR DELIVERY |
|---|---|---|---|---|
| | 1200 mm | 40 W | 300 r/min | 212 $m^3$/min |



## QUICK AIR

- Wider Tip Blade for Higher Air Delivery
- UV metallized Body ring and Trim for Enhanced Looks
- Robust motor with large diameter.
- 100% copper.
- Available in Matt Blue, White, Bianco, Smoke Brown

| STAR RATING | SWEEP | POWER INPUT | SPEED | AIR DELIVERY |
|---|---|---|---|---|
| | 1400 mm | 60 W | 290 r/min | 245 $m^3$/min |
| | 1200 mm | 56 W | 380 r/min | 225 $m^3$/min |
| | 900 mm | 42 W | 420 r/min | 140 $m^3$/min |
| | 600 mm | 60 W | 800 r/min | 100 $m^3$/min |



## SAMRAAT ES

- Aerodynamically designed Aluminum Blades for Better Air Spread
- Elegant Design & High-Speed Performance.
- 100% copper.
- Available in White, Bianco, Brown

| STAR RATING | SWEEP | POWER INPUT | SPEED | AIR DELIVERY |
|---|---|---|---|---|
| | 1400 mm | 60 W | 290 r/min | 250 $m^3$/min |
| | 1200 mm | 55 W | 390 r/min | 230 $m^3$/min |
| | 900 mm | 42 W | 430 r/min | 140 $m^3$/min |
| | 600 mm | 60 W | 800 r/min | 110 $m^3$/min |



## SWING LX HS

- High speed motor for better air delivery
- Smooth oscillation
- Superior low voltage performance.
- 100% copper.
- High Speed Fan
- Double Ball Bearing
- Thermal Overload Protection motor
- Available in Purple, Cool Blue

| STAR RATING | SWEEP | POWER INPUT | SPEED | AIR DELIVERY |
|---|---|---|---|---|
| NA | 400 mm | 125 W | 2100 r/min | 95 $m^3$/min |



## SWING LX

- Smooth oscillation
- Pivot arrangement for tilting & oscillation
- Aerodynamically designed & balanced PP blades.
- 100% copper.
- Thermal Overload Protection motor
- Available in Cherry, White

| STAR RATING | SWEEP | POWER INPUT | SPEED | AIR DELIVERY |
|---|---|---|---|---|
| NA | 400 mm | 55 W | 1350 r/min | 65 $m^3$/min |



## SWING HS

- Elegantly designed fan base
- Pull cord control for speed & oscillation On-Off
- Aerodynamically designed & balanced blades.
- 100% copper.
- High Speed Fan
- Double Ball Bearing
- Thermal Overload Protection motor
- Available in White, Black

| STAR RATING | SWEEP | POWER INPUT | SPEED | AIR DELIVERY |
|---|---|---|---|---|
| NA | 300 mm | 105 W | 2100 r/min | 65 $m^3$/min |
| NA | 400 mm | 125 W | 2100 r/min | 95 $m^3$/min |



## SWING NS

- Elegantly designed fan base
- Pull cord control for speed & oscillation On-Off
- Aerodynamically designed balanced blades.
- 100% copper.
- Thermal Overload Protection motor
- Available in Off White, Black

| STAR RATING | SWEEP | POWER INPUT | SPEED | AIR DELIVERY |
|---|---|---|---|---|
| NA | 300 mm | 57 W | 1350 r/min | 52 $m^3$/min |
| | 400 mm | 57 W | 1350 r/min | 65 $m^3$/min |



## SWING PEDESTAL NS

- Smooth oscillation
- Elegantly designed switch box.
- 100% copper.
- Thermal Overload Protection motor
- Available in White, Black

| STAR RATING | SWEEP | POWER INPUT | SPEED | AIR DELIVERY |
|---|---|---|---|---|
| | 400 mm | 57 W | 1350 r/min | 65 $m^3$/min |



## SWING PEDESTAL HS

- High Speed Fan with powerful motor
- Smooth oscillation
- Elegantly designed switch box.
- 100% copper.
- Thermal Overload Protection motor
- Available in White, Black

| STAR RATING | SWEEP | POWER INPUT | SPEED | AIR DELIVERY |
|---|---|---|---|---|
| | 400 mm | 125 W | 2100 r/min | 95 $m^3$/min |





# COMMERCIAL COOLER



# COMMERCIAL COOLER



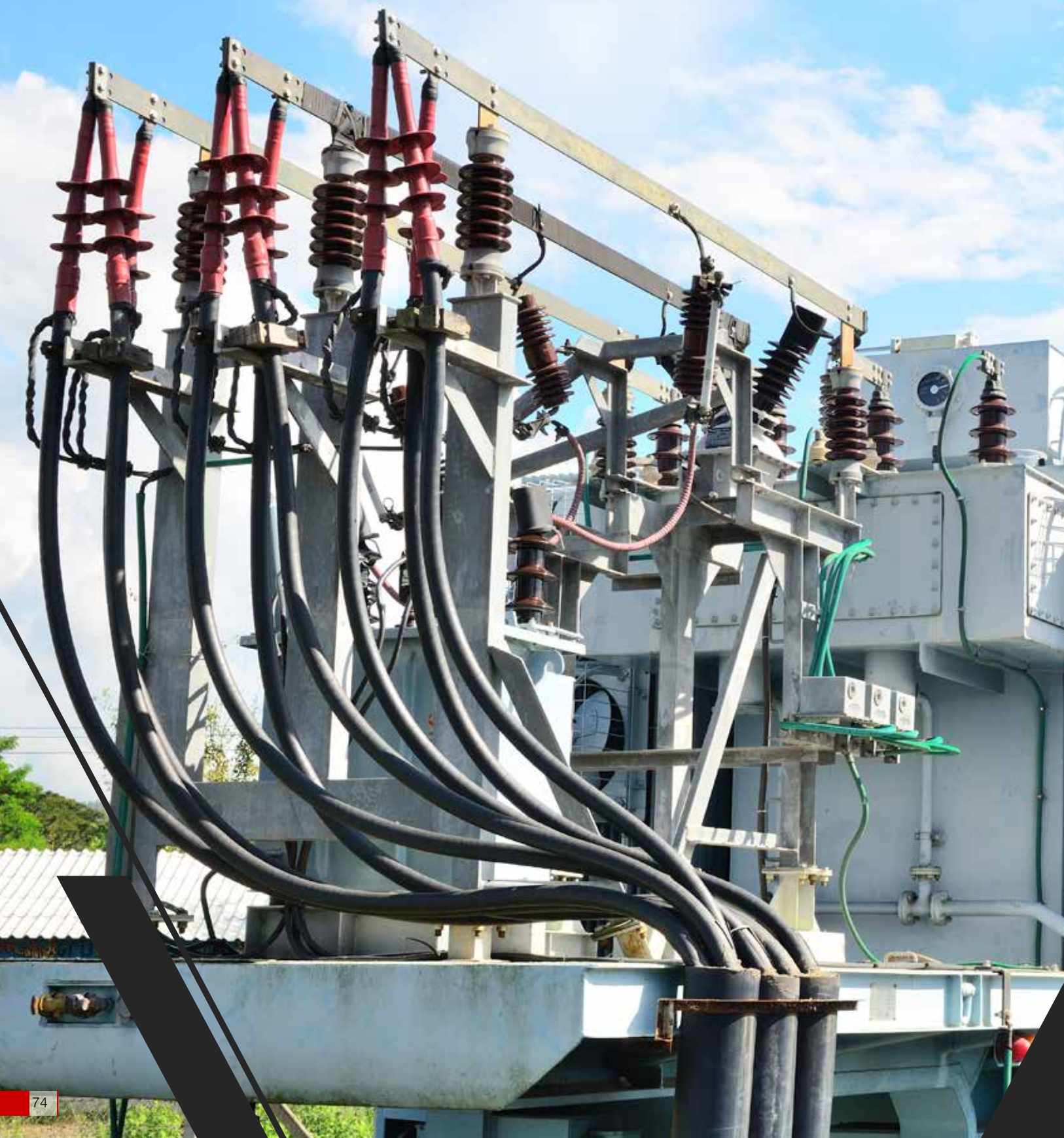
## AERO 150 L & 200 L

- **Tank Capacity 150 Litre & 200 Litre**
- **558 mm XL Metal Blade Fan size -** Powerful Air-throw
- **Cooling Area –** 130.9 $m^2$.
- **Double Ball Bearing Motor -** Longer Life with increased durability and reliability of motor
- **3 Side Honeycomb [60 mm Thickness] -** Faster and more effective cooling
- **3 Side Dust Filter Nets -** Removes harmful substances from air such as bacteria, pollen, dog-hair, dust mites and minute particles.
- **Ice Chill Drip Technology –** Rapid Cooling
- **Heavy Duty Castor Wheels –** Better Stability



## AERO DLX 100 L & 125 L

- **Tank Capacity 100 Litre & 125 Litre**
- **508 mm Large Fan size -** Powerful Air-throw
- **Cooling Area –** 87.3 $m^2$.
- **Double Ball Bearing Motor -** Longer Life with increased durability and reliability of motor
- **3 Side Honeycomb -** Faster and more effective cooling
- **Completely Collapsible Louvers -** Prevents dust/insects from entering the Air Cooler.
- **Heavy Duty Castor Wheels –** Better stability
- **Auto Fill-** Replenishes water on a continuous basis





# INDUSTRIAL CABLES & WIRES




# INDUSTRIAL CABLES

**SPECIAL CERTIFICATION**
**NABL//BASEC//LPCB//UL**


DNV

MANAGEMENT SYSTEM CERTIFICATE

Havells India Limited


DNV

MANAGEMENT SYSTEM CERTIFICATE

Havells India Limited


DNV

MANAGEMENT SYSTEM CERTIFICATE

Havells India Limited


UL Product iQ®

Service-entrance Cable


BASEC

Certificate of Conformity

Havells India Limited

BS EN ISO 9001:2015


BASEC

Certificate of Product Approval

Havells India Limited

BASEC


BASEC

Certificate of Product Approval

Havells India Limited

BASEC


BASEC

Certificate of Product Approval

Havells India Limited

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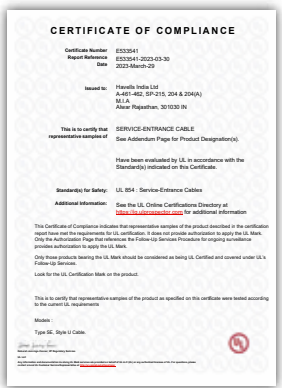
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TÜV

EN 50618:2014 Compliance


CERTIFICATE OF CONFORMITY

ELECTRIC CABLES


CERTIFICATE OF COMPLIANCE

Certificate Number E533541
Report Reference E533541-2023-03-30
Date 2023-March-29

Issued to: Havells India Ltd
A-461-462, SP-215, 204 & 204(A)
M.I.A
Alwar Rajasthan, 301030 IN

This is to certify that representative samples of SERVICE-ENTRANCE CABLE
See Addendum Page for Product Designation(s).

Have been evaluated by UL in accordance with the Standard(s) indicated on this Certificate.

Standard(s) for Safety: UL 854 : Service-Entrance Cables

Additional Information: See the UL Online Certifications Directory at https://iq.ulprospector.com for additional information

This Certificate of Compliance indicates that representative samples of the product described in the certification report have met the requirements for UL certification. It does not provide authorization to apply the UL Mark. Only the Authorization Page that references the Follow-Up Services Procedure for ongoing surveillance provides authorization to apply the UL Mark.

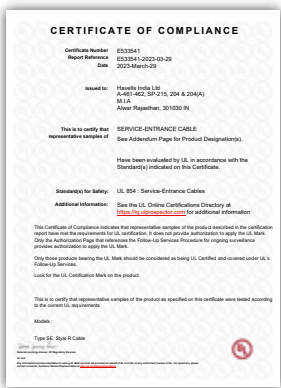
Only those products bearing the UL Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Certification Mark on the product.

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements

Models :

Type SE, Style U Cable.


CERTIFICATE OF COMPLIANCE

Certificate Number E533541
Report Reference E533541-2023-03-29
Date 2023-March-29

Issued to: Havells India Ltd
A-461-462, SP-215, 204 & 204(A)
M.I.A
Alwar Rajasthan, 301030 IN

This is to certify that representative samples of SERVICE-ENTRANCE CABLE
See Addendum Page for Product Designation(s).

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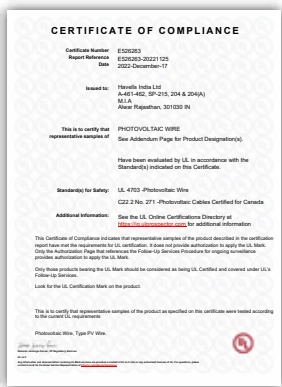
Only those products bearing the UL Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Certification Mark on the product.

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements

Models :

Type SE, Style R Cable


CERTIFICATE OF COMPLIANCE

Certificate Number E526263
Report Reference E526263-20221125
Date 2022-December-17

Issued to: Havells India Ltd
A-461-462, SP-215, 204 & 204(A)
M.I.A
Alwar Rajasthan, 301030 IN

This is to certify that representative samples of PHOTOVOLTAIC WIRE
See Addendum Page for Product Designation(s).

Have been evaluated by UL in accordance with the Standard(s) indicated on this Certificate.

Standard(s) for Safety: UL 4703 -Photovoltaic Wire
C22.2 No. 271 -Photovoltaic Cables Certified for Canada

Additional Information: See the UL Online Certifications Directory at https://iq.ulprospector.com for additional information

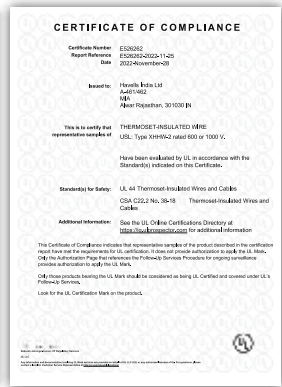
This Certificate of Compliance indicates that representative samples of the product described in the certification report have met the requirements for UL certification. It does not provide authorization to apply the UL Mark. Only the Authorization Page that references the Follow-Up Services Procedure for ongoing surveillance provides authorization to apply the UL Mark.

Only those products bearing the UL Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Certification Mark on the product.

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements

Photovoltaic Wire, Type PV Wire.


CERTIFICATE OF COMPLIANCE

Certificate Number: E526262
Report Reference E526262-2022-11-25
Date 2022-November-09

Issued to: Havells India Ltd
A-461/462
MIA
Alwar Rajasthan, 301030 IN

This is to certify that representative samples of THERMOSET-INSULATED WIRE
UL, Type XHHW-2 rated 600 or 1000 V.

Have been evaluated by UL in accordance with the Standard(s) indicated on this Certificate.

Standard(s) for Safety: UL 44 Thermoset-Insulated Wires and Cables
CSA C22.2 No. 38-18 Thermoset-Insulated Wires and Cables

Additional Information: See the UL Online Certifications Directory at https://iq.ulprospector.com for additional information

This Certificate of Compliance indicates that representative samples of the product described in the certification report have met the requirements for UL certification. It does not provide authorization to apply the UL Mark. Only the Authorization Page that references the Follow-Up Services Procedure for ongoing surveillance provides authorization to apply the UL Mark.

Only those products bearing the UL Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Certification Mark on the product.

# NABL TESTING LABORATORY, ALWAR, RAJASTHAN

At Havells, we emphasise on product quality by demonstrating quality evaluation for wires & cables of international level. This has been done by obtaining NABL (National accreditation board for testing and calibration laboratories) for testing & DSIR recognised technology center at cable division. NABL is an autonomous body which is working under the Department of Science & Research Industry (Govt. of India).

National accreditation board for testing and calibration is the first-of-its-kind private facility in india. The lab fully equipped as per international standard to test XLPE cables upto 220 kV grade, PVC cables, Flexible cables, aerial bunched cables, photovoltaic cables, instrumentation cables, fire survival cables.

The lab covers Indian standards, British standard, International electrotechnical commission (IEC) standards, TUV-Germany standards, American society for testing and material (ASTM) standards and institute of electrical & electronics engineers (IEEE) standards along with eight type of different fire test to demonstrate fire-retardant behavior in cable.



National Accreditation Board for Testing and Calibration Laboratories

CERTIFICATE OF ACCREDITATION

HAVELLS INDIA LIMITED

has been assessed and accredited in accordance with the standard

ISO/IEC 17025:2017

"General Requirements for the Competence of Testing & Calibration Laboratories"

for its facilities at

in the field of

TESTING

Certificate Number: TC-7998

Issue Date: 23/09/2024 Valid Until: 23/09/2026

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.

Name of Legal Entity: Havells India Limited

Signed for and on behalf of NABL

N. Venkateswaran
Chief Executive Officer









# EHV Cables




The current carrying capacity of cables in high and extra-high voltage networks is subject to very high demands, which is why conductor designs with a maximum conductor cross-section of up to 2,500 sq. mm have been developed to increase transmission performance. A significant increase in the current carrying capacity for XLPE-insulated power cables can be achieved by segmenting and other additional measures in the construction of large conductor cross-sections. The permissible transmission performance is thereby increased by up to 10%.

We offer sizes of cables from 240 sq. mm to 2500 sq. mm in both copper & aluminium conductors. For 1000 sq. mm and above we can offer cables with Milliken conductor.

**Range at a Glance:**

- 38 kV/66 kV Grade
- 64 kV/110 kV Grade
- 76 kV/132 kV Grade
- 127 kV/220 kV Grade

**Reference Specifications:**

- IS – 7098-3
- IEC – 60840
- IEC - 62067

**Testing Requirements:**

- Routine Testing - As per IS:7098-3 & IEC:60840 & IEC: 62067 standards.
- Type Testing - Our Plant is NABL accredited. Type testing can be conducted as per IS:7098-3 & IEC:60840 & IEC :62067 standards.
- Acceptance Test - As per IS:7098-3 & IEC:60840 & IEC: 62067 standards

**Havells offers two types of construction:**

**Aluminium Corrugated Cable**





**Poly Aluminium Tape Cable**

**EPC Capabilities**

Havells is also offering an Extra High voltage (EHV) Cable turnkey solution that encompasses the complete process of designing, manufacturing, installing, and commissioning EHV Cables for the power transmission networks. From Initial feasibility studies to final handover, it involves engineering expertise, project management, and quality assurance. This comprehensive approach ensures efficient and reliable transmission of electricity over long distances, contributing to the stability and resilience of the electrical grid by adopting highest quality and safety standards. We have executed various EPC projects for EHV Cables PAN india for different utilities.

## LT Power Cable Copper Conductor




**Application**

Cables for Power Supply to Residential, Commercial & Industrial units

**Type**

1.1 kV as per IS:1554-I / IS 7098-1 / IEC 60502-I

**Size**

Single Core 10 sq. mm to 1000 sq. mm, Multicore 6 sq. mm to 630 sq. mm

## LT Power Cable Aluminium Conductor




**Application**

Cables for Power Supply to Residential, Commercial & Industrial units

**Type**

1.1 kV as per IS:1554-I / IS 7098-1 / IEC 60502-I

**Size**

Single Core 10 sq. mm to 1000 sq. mm, Multicore 6 sq. mm to 630 sq. mm

## HT Power Cable Aluminium Conductor




**Application**

Heavy Duty XLPE Power cables for Power Generation / Distribution

**Type**

6.6 kV to 19 kV/33 kV (E/UE) as per IS:7098-II & IEC: 60502-II

**Size**

Single Core : 25 sq. mm - 1000 sq. mm, Multicore : 25 sq. mm - 400 sq. mm

## HT Power Cable Copper Conductor




**Application**

Heavy Duty XLPE Power cables for Power Generation / Distribution

**Type**

6.6 kV to 19 kV/33 kV (E/UE) as per IS:7098-II & IEC: 60502-II

**Size**

Single Core : 25 sq. mm - 1000 sq. mm, Multicore : 25 sq. mm - 400 sq. mm

# LT Control Cables



**Application**

Cables for Power Supply to equipments, panel boards & distribution boards

**Type**

1.1 kV as per IS:1554-I / IS 7098-1 / IEC 60502-I

**Size**

1.5 sq. mm & 2.5 sq. mm - from 2 Core to 61 Core

# Fire Survival Cables



**Application**

Fire Survival Cables for fire hazardous/ prone areas

**Type**

Annealed electrolytic copper, conductor, heat barrier, XLPE, LSZH inner sheath G.S. wire & LSZH outer sheath as per BS 7846 & BS 6387

**Designed for Critical Installation**

Airports, Thermal Power Plants, Metro Rail Projects, Rail Terminals, Nuclear Power Plants, Interstate Bus Terminals, Installation Prone to Fire

# Instrumentation Cables



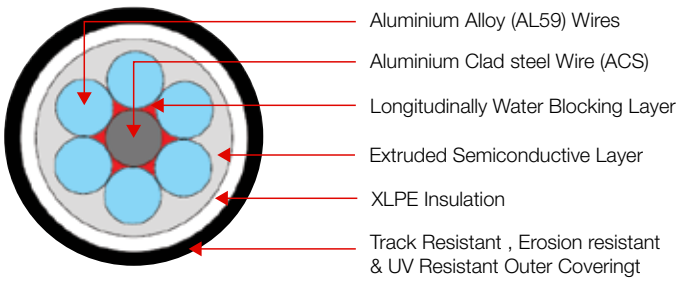
Instrumentation cables are used in electric power systems and its associated process. These cables carry electric signal for monitoring and controlling circuits such as control, communication, analog/ digital data and voice transmission signals. Instrumentation cables are individually or overall shielded with Aluminium mylar tape and the purpose is to drain off all undesirable noise pickups which would otherwise cause interference in the low level signals passed between the measuring end and display units.

Standard

- BSEN 50288-7-( Part 1 & Part -2)
- BSEN 50288-7, VDE-0815 & 0816, IEC-60189
- IS 1554-1, IS 7098-1, IEC 60502-1 in general.

Range G-Type Pair, F-Type Pair, G-Type Triad, F-Type Triad

## Covered conductors




Medium Voltage Covered Conductors are developed to improve the reliability of the distribution of electricity. The concept of covered conductor has proven to be extremely functional and reliable. It consists of a conductor surrounded by a covering made of insulating material as protection against accidental contact with other covered conductors and with grounded parts such as tree branches, etc. Medium voltage covered conductors are produced in voltage rating between 11 kV to 33 kV. The applicable standards for MVCC are BS EN: 50397-1/IS: 398 Part-IV/ BS EN: 50182/50183 etc. These are longitudinally water blocked and covered with special grades of materials that provide insulation and ultraviolet protection.

Typical cross-sectional drawing of covered conductor as per Standard – BSEN 50397-1

Conductor Shield
- Semiconducting Thermoset Polymer
- Reduces stress, transforms strands into a single uniform cylinder
- Extend service life of the covered conductor in case of contacts

Inner Insulation Layer
- Crosslinked Low -Density Polyethylene: more flexible
- High impulse strength: protect from phase-to-phase and phase-to-ground contact
- Crosslinking: retain its strength and shape even when heated

Outer Layer
- High Density Polyethylene: Track resistant, Abrasion and Impact Resistant; Stress-Crack Resistant

## Advantage of PVC and XLPE Cables

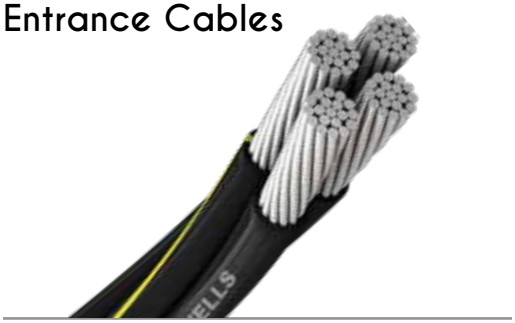
### ADVANTAGES OF PVC CABLES

1. A non-hygroscopic insulation almost unaffected by moisture.
2. Non-migration of compound permitting vertical installation.
3. Complete protection against most forms of electrolytic and chemical corrosion.
4. A tough and resilient sheath with excellent fire - resisting qualities.
5. Good ageing characterstics.

### ADVANTAGES OF XLPE CABLES

1. Higher Current Rating.
2. Higher Short Circuit Rating.
3. Longer Service Life.
4. For a short time it can withstand maximum 130 °C and is favourable to endure short circuit stresses.
5. It is less sensitive to the setting of the network protection.
6. Because of the thermosetting process taking place due the effect of cross linking, the crack resistance is increased.
7. Due to the chemical cross-linking internal stresses are reduced. Consequently the material is less sensitive during manufacturing process to the setting of the cooling gradient.
8. The thermal resistivity of cross-linked material is favourably low, compared to thermoplastic material.
9. The low dielectric loss is a significant advantage.
10. The excellent mechanical features of the insulation improves the protection against external effects.
11. The resistance of the XLPE to acids, alkalies is outstanding and is often compensating the adverse environmental influences.

## 600 Volt Underground Service Entrance Cables



**Application**

Directly buried or installed in ducts for 600 V secondary distribution.

**CONSTRUCTION:**

- Conductor: Conductors are stranded, compressed 1350-H-19 aluminum.
- Insulation: Cross Linked Polyethylene (XLPE).
- Neutral: Cross Linked Polyethylene (XLPE) with three Yellow Extruded Stripes.

Specification: UL 854

## SER Service Entrance Cable 600 V



**Application**

Aluminium SER cable is primarily used as panel feeder in multiple unit dwellings and for branch circuits. Maximum operating temperature is not to exceed 90 °C in wet or dry locations. Voltage rating is 600 V.

**CONSTRUCTION:**

Compact stranded 8000 series aluminum alloy conductors. Cross linked polyethylene (XLPE) insulated cores are complied to the requirment of type XHHW-2 in UL-44. Insulated conductors are cabled with the bare ground wire. A flame retardant fiberglass reinforced binder tape & overall Sunlight resistant (SUN RES printing), flame retardant, grey PVC material. Phase conductors are identified by a colored stripe on the insulation. Its insulated cores are complied to the requirment of type XHHW-2 in UL-44

Specification: UL 854

## Aluminum XHHW-2 Wire & Cable



**Application**

Type XHHW-2 are primarily used in air ducts, conduit or recognized raceways for services, feeders, and branch circuit wiring as specified in the National Electrical Code or the Canadian Electrical Code. XHHW-2 conductors may be used in wet or dry locations at temperatures not to exceed 90 ºC. Voltage rating for XHHW-2 is 600 V or 1000 V. Cable tray rated for 1/0 AWG and larger available upon request.

**CONSTRUCTION :**

- Conductor: Conductors are stranded, compact AA-8000 series aluminum alloy.
- Insulation: Abrasion, moisture and heat resistant thermoset crosslinked polyethylene.

Specification: UL 44

## PV Wire & Cables



**Application**

Appropriate for use in solar power applications that require up to 2000 V rating. For use in grounded and ungrounded Photovoltaic power systems, in free air, raceways or

Direct burial in accordance with NEC.

**CONSTRUCTION:**

Conductors: Stranded Compact 8000 series aluminum alloy/Compact soft drawn bare copper conductor as per ASTM

Insulation: Abrasion, heat and moisture resistant cross-linked polyethylene insulation XLPE.

Specification: UL 4703




# FLEXIBLE CABLES

## Life Line Plus $S^3$
### Heat Resistant Flame Retardant (HRFR)




**Application**
- Used for internal electrification and power supply to all electrical connected equipment.

**Range**
- HRFR PVC Flexible Cable upto 1.1 kV, 0.50 sq. mm - 6.00 sq. mm
- HRFR PVC Flexible Cable upto 1.1 kV, 10.00 sq. mm - 400.00 sq. mm for higher loads

**Features**
- High Insulation Resistance.
- High Heat Resistant.
- RoHS Complaint.
- Anti-rodent & Anti Termite.
- Available in 90 m pack (0.50 sq. mm - 6.00 sq. mm)
- Higher size cable (10.00 sq. mm - 400.00 sq. mm) are available in 100 m/500 m/1000 m pack.

## Life Guard
### Flame Retardant Low Smoke Halogen (FR-LSH)




**Application**
- Used for internal electrification and power supply to all electrical connected equipment.

**Range**
- FRLSH PVC Flexible Cable upto 1.1 kV, 1 sq. mm - 6.00 sq. mm

**Features**
- High oxygen index value.
- Self-extinguishing property which do not allow the fire to spread.
- Specially formulated insulation that restrict toxic gases and smoke.
- Available in 90 m pack (1.00 sq. mm - 6.0 sq. mm)
- Higher size cable (10.00 sq. mm - 400.00 sq. mm) are available in 500 m/1000 m pack.

## Life Shield
### Halogen Free Flame Retardant (HFFR)




**Application**
- Used for internal electrification and power supply to all electrical connected equipment.

**Range**
- HFFR Flexible Cable upto 1.1 kV, 1.00 sq. mm - 6.00 sq. mm

**Features**
- Non-toxic, High Visibility in case of fire.
- Environment friendly (0% Halogen) HFFR cable are made from specially formulated polymer.
- High Temperature Index.
- Available in 90 m pack (1.00 sq. mm- 6.00 sq. mm)
- Higher size cable (10.00 sq. mm - 400.00 sq. mm) are available in 500 m/1000 m pack.

## Project Range
### Life Line | Life Guard | Life Shield

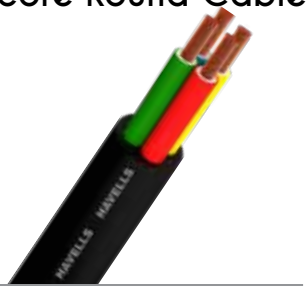



**Application**
- Used for internal & external electrification and power supply to all electrical connected equipment for a wide range of applications in machines, panels, industries etc.

**Range**
- Single Core PVC Insulated Copper Conductor (Unsheathed) Flexible Cables, 0.75 sq. mm - 6.00 sq. mm

**Features**
- Available in FR / FR-LSH / HFFR insulation.
- Enhanced flexibility.
- High bending capacity.
- Ideal for wiring in closed confined spaces.

## Multicore Round Cables




**Application**
- Used for internal & external electrification and power supply to all electrical connected equipment for a wide range of applications in machines, panels, industries etc.

**Range**
- PVC Insulated, round sheathed, 2 Core - 19 core

**Features**
- Specially formulated PVC compound to withstand mechanical abrasion while in use.
- High Oxygen Index.
- High Temperature Index restricting the spread of fire even at high temperature.
- Available in FR / FR-LSH / HFFR.

## Flat Three Core Submersible Cables




**Application**
- Used for critical space requirements, protection against impact of corrosive liquids and abrasion while being indefinitely immersed in water.

**Range**
- PVC Insulated, flat sheathed, 3 Core - 1.50 sq. mm to 95 sq. mm

**Features**
- 101% copper conductivity, 99.95% pure bare copper conductor
- Protection against rain water.
- Protection against ingress of small solid foreign bodies.

## Shielded Cables




**Application**
- The use of shielded cables in all Instruments, Computer Internal Wiring, Instruments Interfacing, Instrument Power Supply Cable, All Networking Stations, All Central Control Rooms, All Control Equipments, Call Centres, Solar Plants / Power Plants, Medical Equipment's / Hospitals, Research Centres, Local Area Networking In All Commercial and Residential Places Aircrafts, Ships and In Space Crafts, Mobile Towers & Wireless Systems.

**Range**
- PVC Insulated, round sheathed, 2 Core - 12 core
- 12 core & above available on request

**Features**
- Shielded cables in security systems provides some protection from power frequency and radio frequency interference.
- Reduces the number of false alarms being generated.
- Available in 500 m/1000 m pack
- Available in FR / FR-LSH.

## Solar Cables

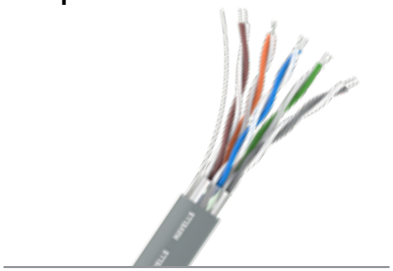



**Application**
- The cables can be used indoor, outdoor, in hazard explosion areas, in industry and agriculture.

**Range**
- Single Core 2.50 sq. mm to 10.00 sq. mm
- Single Core higher sizes available from 10.00 sq. mm& above

**Features**
- Weather resistant
- Resistant to mineral oils
- Resistant to acids & alkaline
- Maximum conductor temperature of operation -120 °C during 20000 hours.
- Minimum operating temperature: - 40 °C
- Voltage rating : 1.8 kV dc & 1.0/1.0 kV ac
- High voltage test: 6.5 kV ac for 5 minutes.
- Available with TUV / EN certification.

## Telephone Switch Board Cables

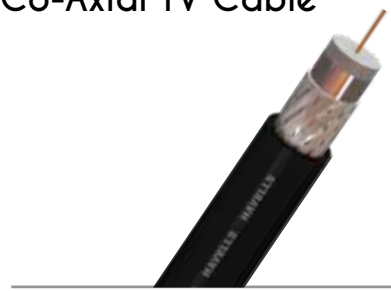


**Application**
- Used for indoor telephones, telephone exchanges, EPBAX system and various other equipment involving telephones.

**Range**
- 1 P, 2 P, 3 P, 4 P, 5 P, 10 P, 20 P

**Features**
- Hard grade PVC insulation for long life and stable properties of cables.
- Staggered lays of twisted pair to ensure minimum cross-talks.
- Available in FR / FR-LSH.

## Co-Axial TV Cable



**Application**
- Used for cable TV operations, computer network connections, digital audio, connecting radio transmitters and receivers with their antennas.

**Range**
- RG 6, RG 11, RG 59

**Features**
- Provides protection of signals from external electromagnetic interference.
- Very low Attenuation or signal losses.
- Can be used for both analog and digital transmission.
- RG 6 available with copper/CCS conductor.

## LAN Cable

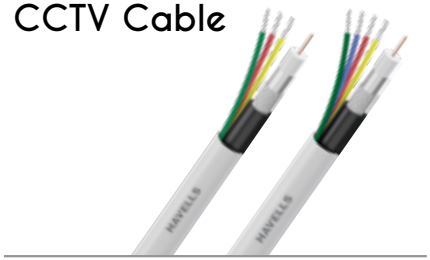


**Application**
- Used for structured cabling for computer networks.

**Range**
- CAT 6 (with star separator)

**Features**
- Minimum radiation and maximum noise immunity.
- Extremely high pair balance providing excellent electromagnetic compatibility
- High speed data access.
- Staggered lays of twisted pair to ensure minimum cross-talks.
- CAT6 available with 23 AWG/24 AWG Conductor.

## CCTV Cable

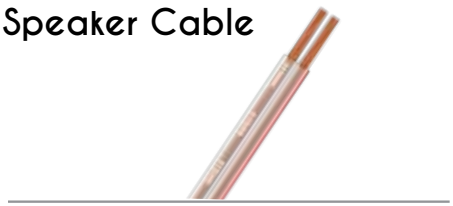


**Application**
- Used for transmitting video signal signal to a specific place, on a limited set of monitors.

**Range**
- 3+1 & 4+1

**Features**
- Minimum distortion of video frequency range.
- Clear Picture even on low frequency bandwidth of transmission.

## Speaker Cable



**Application**
- Used for connections between loudspeaker and audio amplifier within various sound instruments

**Range**
2 Core 0.50 sq. mm - 2 Core 1.50 sq. mm

Features
- Clear and distortion fee voice.
- Very low dB losses or loss of signals.


IP66
Crabtree
IP66
Crabtree
Crabtree

# SWITCHES




WeatherPruf™
TECHNOLOGY



1 GANG 10 A BELL PUSH SWITCH



2 GANG 10 AX TWO WAY SWITCH



1 GANG 10 AX TWO WAY SWITCH



1 GANG 20 A DP SWITCH

- Total protection against dust ingress and water jets from any direction, when in use.
- Easy Installation with identified terminals.
- Product life assured till 40000 operations
- Made from polycarbonate, one of the toughest thermoplastics available.
- No direct access to user in normal use, provide safety against electric shock.



SWITCHED SOCKET

- Prevention against accidental finger insertion.
- Product life assured till 10000 operations.
- Easy Installation with identified terminals.
- High flame retardant Plastic Material
- No direct access to user in normal use, provide safety against electric shock.



IP66 Rating#
Water & Dust Resistance



IK7 Rating
Impact Resistance



Flush
Installation



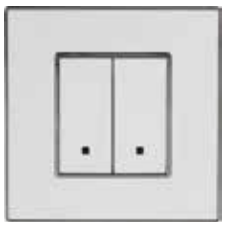
Anti-theft*
Padlock System

# IP 66 protection is applicable even when socket is plugged in with outer flap closed in the Switched Socket Module

*Applicable for Switched Sockets only.

Havells Crabtree has evolved into a global leader, crafting products that epitomize excellence. Leveraging a century of i expertise, we have consistently strived to deliver innovative solutions that harmoniously merge style and technology for homes and offices. Our extensive portfolio boasts an array of sophisticated smart modular switches, anti-viral ranges, and IoT-enabled products tailored for both residential and commercial applications. By seamlessly integrating our 100-year legacy with the latest trends and customer preferences, we continue to redefine the benchmarks of innovation and excellence.

## MURANO



- Lifetime endurance
- Variety of exciting design options to suit every need.
- Smooth Silent Switching
- Comfortable and intuitive user experience
- Protection against electrical shocks and hazards
- Designed for safety with IS3854 & IS1293

## ATHENA



- ViruzSafe Technology
- 92.55% anti viral efficacy within 1 minute
- 99% anti-bacterial efficacy
- Safety with shuttered sockets, Arc shield to avoid spark visibility, IP20 protection and shrouded terminals
- Double rocker mechanism have a soft action, our fan regulators offer a 8 step hum free experience.
- USB sockets offer 2.1 A fast charging options.

## ATHENA AMARE



- Made of Real glass, wood and metal, Amare range of switch plates are truly inspired by nature.
- Available in modern finishes with Matte effect
- Soft Action Switches

## SIGNIA GRANDE



- Signia Grande the stunning range of masterfully crafted wood, glass and metal plates
- Champher design on the sides
- Metal inner plates
- Bezel (Chrome and Rose Gold available)*

## SIGNIA



- ViruzSafe Technology
- Duel orientation Unique switch plates & switches that can fit horizontally & vertically basis wall space availability.
- Shuttered sockets for Safety against electric hazards.
- Double shield technology for enhanced safety.

## CORAL+



- Unique Parabolic Curve
- Soft Curved Notch
- Curved Tapered Edges
- Shuttered Socket
- Glossy Finish
- Dust Free

## CORAL EBONY



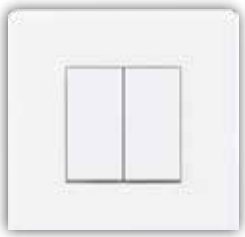
- Sleek design & soft operation of switches
- Available in Ebony Grey & Sparkle Silver Colors
- Glossy finish
- Future proof & lifetime endurance

## CORAL



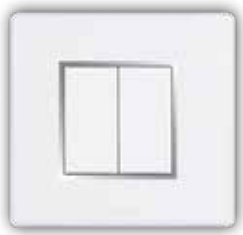
- Sleek design & soft operation of switches
- Switches designed for Inductive and Resistive Load with 10 AX and 16 AX ratings
- Available in pure white colour
- Glossy finish
- Dust repellent design

## FABIO SERIES



- Fabio, a unique range of switch plates that give you the flexibility of installing them vertically or horizontally.
- Dust repellent design
- Front loading and removal
- Sleek plate

## FRAMEIO



- Sleek chrome finish
- Front Loading and Removal
- Soft Action Switches
- Contemporary Design
- Vertical and Horizontal Mounting

## CARBON



- Carbon is designed to bring the best of both worlds – modern aesthetics and dynamic functionality.
- Pure black velvet touch
- Front Loading and Removal
- Soft Action Switches
- Contemporary Design
- Vertical and Horizontal Mounting

## FABIO ART



- With Blue Ball Technology that ensures long lasting finish on the modular plates.
- Digital Print range - comes in classic, ornate, art deco & other alluring prints.
- Plexy Glass Range - exotic glass finishes & reflective finishes which comes in different shades of sparkling black, glittering gold, sparkling white and dazzling marble.
- PC Range - gives you premium matt finish & ultra model design switch plates which come in rich prussian blue and timeless sold white.

The Havells Crabtree Automation Solution is a must-have for any modern residential or commercial property. It has been introduced by Havells India Ltd. for Home Owners, Developers & for commercial spaces.

The technology is designed to be completely unobtrusive, while complimenting the design and providing convenience, security, and energy efficiency. All systems can be controlled from elegant panels, or Android and iOS devices. This control can take place not only in the home, but from anywhere in the world. We boast a large number of control modules allowing the ultimate flexibility in design, and can tailor our smart home/office solutions to meet a client's exact requirements. The Havells Crabtree Automation solutions offer one of the most comprehensive range of solutions in India and are available across different technologies in both wired & wireless variants to meet different customer requirements.

The Havells Crabtree Automation Solutions are well suited for the following applications in residential, commercial or hospitality arrangements:

Lighting Control
- On / Off
- Dimming
- Occupancy
- Mood / Scene
- Time Scheduling, Day Light Harvesting

HVAC (Air Conditioning) Control
- Temperature / Mode
- Humidity / Zone / Individual controls
- User Programmable Mood / Scene Integration
- LonWorks or BacNet Protocol for VRV/ Chiller/ Split / Window System

Curtains/Shutters
- Brightness control
- Temperature control
- Presence Detection
- Integration into User Scenes

Audio/Video Control
- Home Theatre/ Entertainment
- Multiroom Audio
- Integration in to user scenes
- Capability of interfacing with NAS & FTP/cloud server

Security
- Intrusion Detection
- Third Party products integration (Electronic Door locks / Cameras etc

Visualization & Monitoring for (Commercial Integrated Building management systems)
- Lighting Control Integration through IBMS
- HVAC Control Integration through IBMS

## LUXURY WIRED AUTOMATION SOLUTIONS



The Bus pro/KNX solution is a wired automation platform that works on proprietary Bus communication protocol. This is an extremely versatile and extensive system that allows integration of all kind of applications in a residential or commercial environment. This solution is highly suitable for new or complete renovation buildings allowing electrical & structural changes. This platform works on Cat 5 wiring and is highly adaptable & scalable, this solution offers a very robust & failsafe installation with manual overrides built into the system for user convenience.

The Havells Crabtree Bus pro Home automation solution is designed for discerning customers to enhance convenience & comfort while offering luxury aesthetics along with energy savings.

# WIRELESS HOME AUTOMATION SOLUTIONS

The Havells Crabtree wireless Home Automation platform is designed to easily retrofit into existing structures and new structures as well. The Wireless automation solutions can be fitted into any pre-existing structure. The Wireless Home Automation is offered in three variants:

**No structural changes required.**

**Performs autonomous tasks & schedules events.**

**Works with wifi.**

**Creates simple automation routines for mobile. One Touch Operations.**

**Voice and app operated.**

**Complementing range of smart accessories to convert your regular home into a smart home.**

## ISENSE UNIBLOCK WIRELESS SOLUTIONS



Havells DigiTap app

iSense is a retrofit preconfigured Smart Panel Switch Automation system designed for both new & existing homes. It offers a complete range which fits in the existing Switch box. This can be easily installed in places with low Wi Fi connectivity as this works on Mesh network technology hence making it a very easy to adapt cost effective solution.

## SIGNIA SMART MODULAR WIFI SOLUTION



Signia Smart is one of its kind modular touch switches which offer premium aesthetics and change the décor of your home. This solution offers automation for all commonly used applications in the home like switching, dimming, controls for curtains, fans & appliances and much more. It offers a complete range which fits in the existing Switch box. This system can be operated through normal touch switches, through mobile and through Voice commands

This entire Solution is complemented with a range of premium accessories like a range of Crabtree Signia Grande faceplates, sockets, blanks & USB charger to create a complete system which is a blend of beauty & intelligence.

## WIRE FREE NXT SOLUTION

WIREFREE NXT Automation



Wirefree Device

The Wire Free NXT solution is a very affordable IoT based retrofit system designed for all kinds of pre-existing homes. Any old buildings can be automated through the wire free NXT solution without any electrical or structural changes to the pre-existing structure.

This platform is designed as a very simple yet extensive solution and can be easily adapted in a pre-existing home or office. This solution comprises of IoT relays in different capacities for switching and a range of Wireless accessories like Smart Socket & IR blaster that can be extended to work with this platform.




Real-Time
Project
Total amount
5.1337.523




# LLOYD



# LLOYD
## LED TELEVISIONS

## LED Televisions

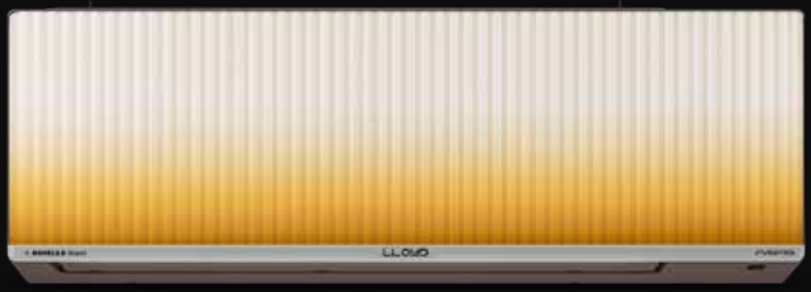


### Features

QLED, Google TV | UHD TV
Far Field Voice Assistant | Dolby Vision | Dolby Atmos

### Range Available

80 cm to (32) to 1.89 m (75) in QLED,
Ultra HD & Smart Series



# LLOYD
## AIR CONDITIONERS

# Air Conditioners



## Features

Specially designed for Indian Climatic Conditions
6 in 1 Expandable AC, Cools even at 60 °C,
Inbuilt Air Purifier, Direct Voice Co
mmand

## Range Available

Inverter & Fixed Speed Split ACs, Window ACs,
Cassette ACs, Tower ACs & Portable AC across capacity

# OUR CLIENTS SPEAK FOR US



*R B Chandak And Sons has been a reliable source for our electrical requirements. We have purchased Electrical Switches, Wires, Cables, and various Electrical Goods & Accessories from them. The product quality is good, pricing is competitive, and their service is dependable. Overall, we have had a very positive experience working with them.*

**- Business Owner, Kolkata**

*We regularly require quality electrical materials for our operations, and R B Chandak And Sons has consistently met our requirements. Their range of Electrical Wires, Cables, Switches, and Accessories is good, with competitive pricing and reliable supply. Their professional approach and timely response make procurement much easier for us.*

**- Procurement Manager, Steel Company**

*For our infrastructure projects, quality and timely availability of electrical materials are extremely important. They have provided us with Electrical Cables, Wires, Switches, and Accessories as per our project requirements. We appreciate their product quality, prompt service, and professional coordination.*

**- Project Manager, Infrastructure Company**

*We have been satisfied with our experience with R B Chandak And Sons. From Electrical Switches and Wires to Cables and other Electrical Accessories, they offer a good range of products at competitive prices. Their service is responsive, and the overall quality of the products has met our expectations.*

**- Purchase Manager, Hosiery Company**

*Electrical products play an important role in ensuring both functionality and finishing in interior projects. R B Chandak And Sons offers a good selection of Electrical Switches, Wires, Cables, and Accessories. The product quality is good, and their team is helpful and responsive. A dependable supplier in Kolkata.*

**- Interior Designer, Kolkata**

# OUR INFRASTRUCTURE

Storage facilities and offices, Kolkata

Reliable supply starts with well-stocked storage. Our storage facilities and offices in the heart of Kolkata help us serve industrial, commercial and residential customers with timely availability of products.

**MAIN OFFICE**

55 Ezra Street, Ground Floor, Kolkata - 700001

**STORAGE FACILITY**

7, Parsee Church Street, 2nd Floor, Kolkata

**STORAGE FACILITY**

24/C Rabindra Sarani, Kolkata

## PLACE AN ENQUIRY

Share your requirement list or project details with our team by phone, WhatsApp or email, and we will get back to you with availability and pricing.

| | |
|---|---|
| **PHONE** | 98300 73571 / 98305 57028 / 85830 68949 |
| **EMAIL** | rbcsons@gmail.com |
| **WEBSITE** | www.rbcsons.com |
| **ADDRESS** | 55 Ezra Street, Ground Floor, Kolkata - 700001 |

# R B CHANDAK & SONS

AUTHORISED HAVELLS CHANNEL PARTNER


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