

ENSURE TOTAL PROTECTION TO YOUR WIRES & CABLES



AKG
Dr. A.K Garg Group of Companies

Rigid PVC conduits & fittings for Electrical Installations

Salient Features

- Adaptable to standard concealed wiring system as per IS: & BS:
- Virgin suspension grade K-67 PVC.
- Processed on twin screws extruders.
- Minimum filler ensures high impact strength.
- Unplasticised PVC Formulation to Improve the mechanical strength.
- UV stabilised.

IS:9537



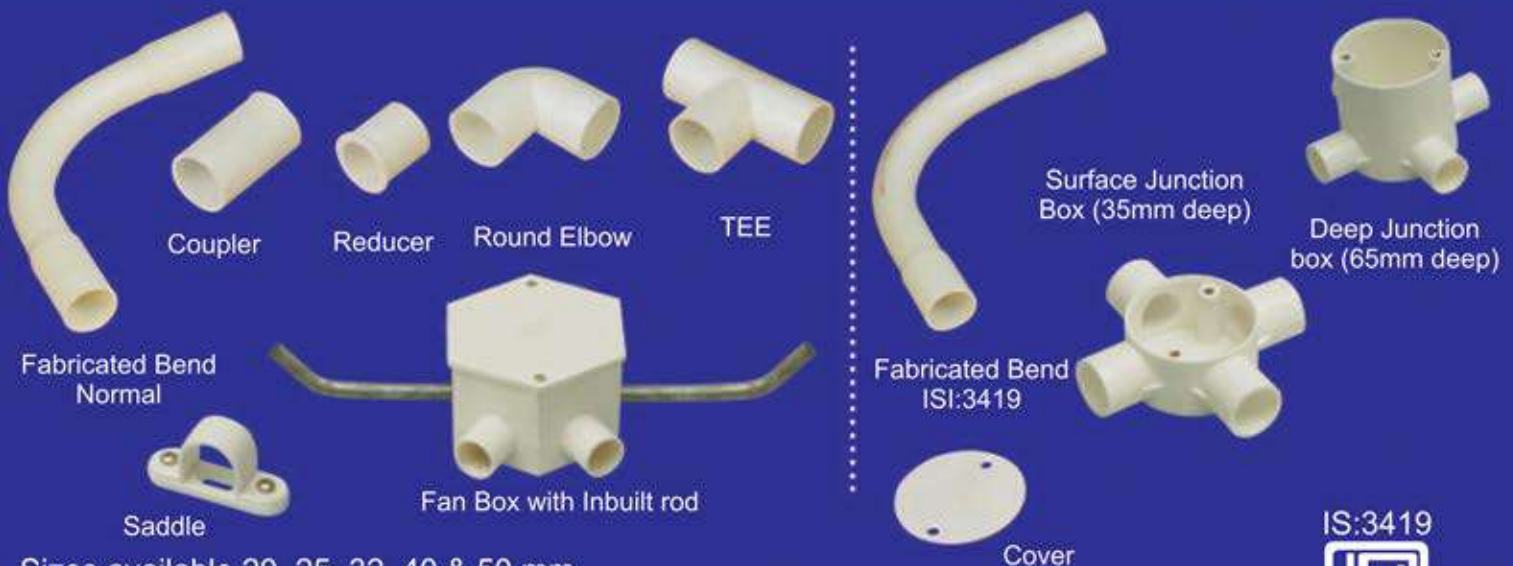
Part-3-1983
CM/L-3035337



Low Halogen SFT (FRLS) Rigid PVC Conduits

- **Flame Retardant & Temperature Stable** (No Propagation of flame & thermal stability more than 60 minutes at 200°C)
- **Halogen Free (Non-Toxic)** Hydrochloric Acid contents less than 19%, Oxygen index more than 29%
- **Smoke free/very low smoke** Smoke density rating less than 60%

Sizes available : 20mm, 25mm, 32mm, 40mm, 50mm, & 63mm
Mechanical strength : Light (LMS) Medium (MMS) & Heavy (HMS)
Colors : Ivory, Grey, & Black



Sizes available 20, 25, 32, 40 & 50 mm

Surface & deep Junction box in one way, two way, three way, & four way configuration
 All Junction boxes are provided with brass inserts & covers

IS:3419



CM/L - 3021629

TECHNICAL DATA



Compression Test for Testing mechanical strength



Impact Test



Bend Test at Low Temp. & at Room Temp.



Conduit Samples after Bend Test

Mechanical Properties

- Percentage of Compression with specified load less than 25%
- Percentage of Compression without load less than 10%
- High Impact Strength
- Tensile Strength - 390-420 Kg./cm²

Electrical Properties

- Dielectrical Strength = 36 Kv/mm
- Specific resistance = 6.1×10^{14} ohm cm
- Electric Strength = No breakdown at 2 Kv x 50 hz. for 15 minutes

Thermal Properties

- Working Temp. = 70°C
- Burning rate = Self Extinguishing
- Flammability = UL94V-0
- Flame Die out Time = Less than 30 seconds



Dimensions

S. No.	Nominal Size (in mm)	Maximum O.D. (in mm)	Minimum O.D. (in mm)	Minimum Internal Diameter		
				Light Mechanical Strength (in mm)	Medium Mechanical Strength (in mm)	Heavy Mechanical Strength (in mm)
1.	20	20	19.70	17.40	16.90	15.80
2.	25	25	24.60	22.10	21.40	20.60
3.	32	32	31.60	28.60	27.80	26.60
4.	40	40	39.60	35.80	35.40	34.40
5.	50	50	49.50	45.10	44.30	43.20
6.	63	63	62.40	57.00	-----	-----



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Authorised Dealer





AKG
Dr. A.K Garg Group of Companies



Synopsis of Electrical Products

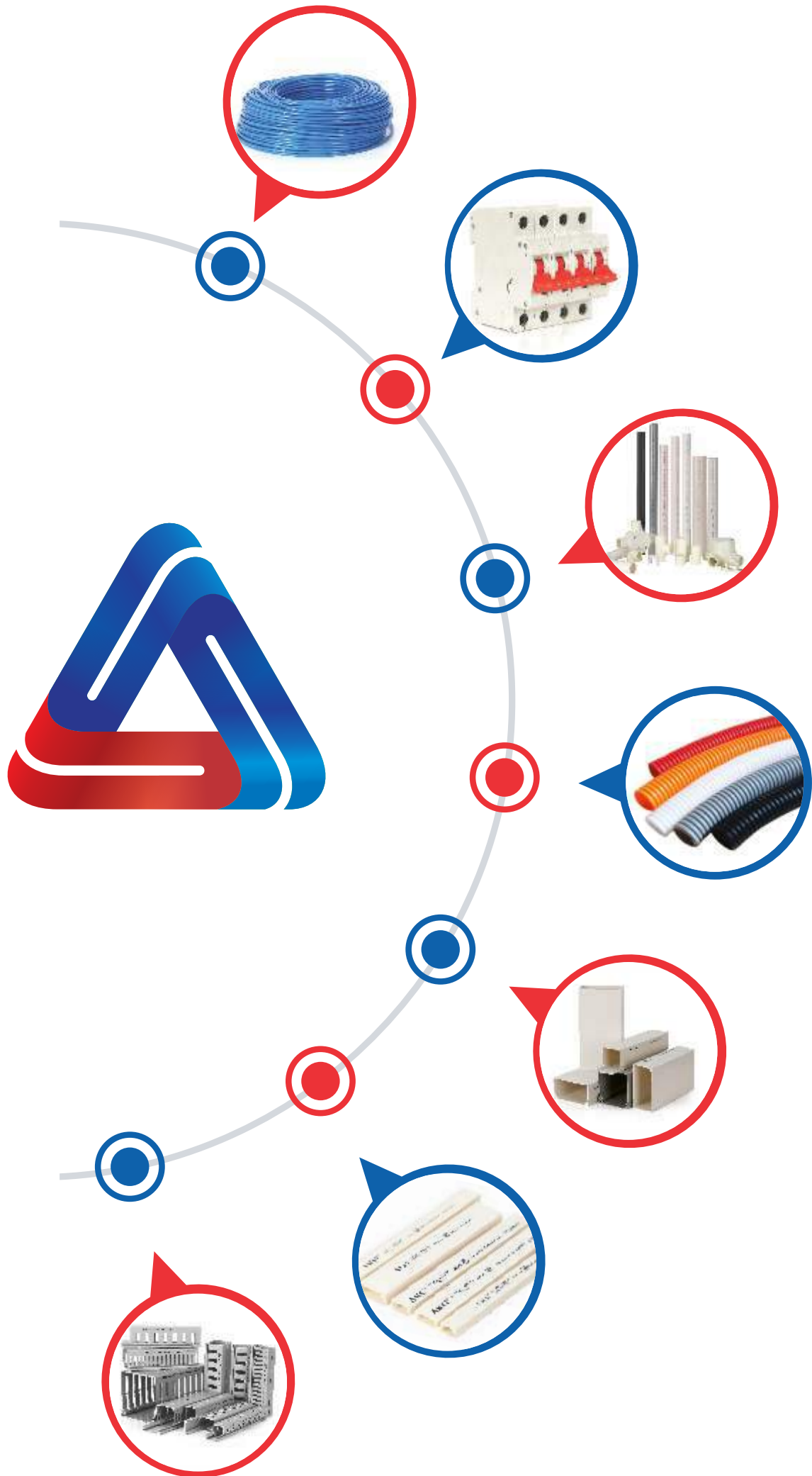


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Founded in the year 1986, AKG is an acknowledged Leading manufacturer of Plastic Piping systems, Profiles, Wires and Cables for various applications. AKG sets an example of continuous innovation, upgrading to ever growing market needs and changing consumer perceptions.

Dr. AKG Group of Companies comprises of:

- AKG Plastic Pvt. Ltd. (Electrical Division): Manufacturing of Wire & Cables, PVC Electrical Conduits & Accessories, Corrugated Flexible Conduits, PVC Mini Trunking (Casing & Capping), PVC Wiring Channel (Slotted & Unslotted) for Electrical Panels, Cable Management System/DLP Duct. We continue to upgrade and expand our product range and recent expansion has been further into the domain of LT Switchgear with MCB'S, Isolators, DB'S, RCCB'S.
- AKG Extrusions Pvt. Ltd. (Plumbing and Sanitary Division): Manufacturing CPVC, uPVC, ASTM, SWR, Agriculture, Casing and Column pipes with exhaustive range of fittings.

AKG has a large scale most advanced multiple manufacturing plants located in Delhi NCR region with state-of-the-art manufacturing equipment's that adheres to the National (BIS) & International standards. The sole mission and vision drive us is to be known as the life line of every building and thus bring life to every home. Our National and International standards remain unmatched, assured ISO 9001:2015, OHSAS 18001: 2007, ROHS for restriction of use of certain Hazardous Substances & CE for Low Voltage Directive.

With more than three decades of experience in the relevant field AKG has come a long way in gathering the trust and preferences of leading Architects, Consultant and Contractors across the Country.

The Company is greatly privileged to have supply in various Govt. & Private Projects organization like, CPWD, PWD, Railways, Defence, Automobile Sector, Power Projects, Leading Architect, Consultant and Construction Industries. Products are widely available through a dedicated sales network in the domestic market and also exporting to Middle Eastern and African countries.






NO. 1
CHOICE OF
BUILDING
EXPERTS





WIRES & CABLES



WIRES & CABLES

AKG manufacturing wide range of Wires & Cables widely use in residential, commercial industrial & various infrastructure purposes. The state-of-the-art manufacturing unit for this purpose has been setup in the prime industrial area of Noida (U.P), which is installed with latest fully automatic manufacturing technology with testing laboratory to ensure reliable and effective range of Wires and Cables. Highly qualified, committed & experienced group of professionals lead the AKG manufacturing & quality team to meet various National & International standards to cater to the rapidly changing needs of new emerging markets.

Today AKG is a one stop shop when it comes to meeting complete building Wires & conduits requirements for Domestic, Institutional and Industrial sectors.

AKG FIRE CARE CABLE resist Ignition: Extending the time before cables start to burn in a fire, providing more time to escape. Improve safety and human survival benefit in a fire.

AKG FIRE CARE CABLE reduces Fire Propagation: By being slow to burn, reducing the immediate threat and extending escape time. Allow people to see and breath safely for longer.

AKG FIRE CARE CABLE reduce Smoke to a Minimum: Reducing disorientation, confusion and panic with little smoke, people can see the exit routes clearly and have more time to follow them to safety. Emergency service have more time to operate effectively.

AKG FIRE CARE CABLE do not contain Halogens: Hydriodic acid is not form during the fire. There is no threat of inhalation of this highly irritant chemical and no damage to sensitive or costly equipment's. Reduce fire damage of building and electric equipment.

Lan Cable-Cat5E 100 MHz/ Cat6 300 MHZ: ANSI/TIA/EIA 568-B.2 compliant category 5e UTP (Unshielded Twisted Pairs) is a high performance, high speed, 100 Ohm impedance Lan Cable with enhanced bit-rate signaling for extended distance in horizontal cabling, signal amplifiers for a length of 100m (328ft).

Cat6 300 MHz UTP Lan Cable while processing the performance characteristic of Cat 5e, this higher category cable is designed for higher electrical performance (at 300 MHz) and higher speed data transmission capacity for mission critical LAN application or structured cabling services.

- Low Attenuation and Cross talk
- Low NEXT (Near End Cross talk)
- Low Powersum NEXT
- Ideal for use in horizontal structured cabling

S.No.	Item Description	Item Specification/Standard	Dimensions Available
1	Single Core PVC Insulated Copper Conductor Cables FR/FR-LSH//HRFR/HFFR/ZHFR	1100 Voltage Grade IS: 694-2010	0.5 Sq. mm to 16 Sq. mm
2	PVC Insulated FR PVC Sheathed Multi Core Copper Conductor Flexible Round Cables	1100 Voltage Grade IS: 694-2010	2/3/4 Core, 0.5 Sq. mm to 16 Sq. mm
3	UTP/STP LAN Cables	Fully Complies with recommendation by IEEE 802bt according to ISO/IEC-14763-20	Cat-5e & Cat-6
4	CCTV Camera Cables	-	3+1 & 4+1
5	CO-Axial Cables	-	RG-6, RG-11 & RG-59
6	PVC Telephone Cables	ITD-113C & 114B	1 Pair-20 Pair

LT SWITCHGEAR



LT SWITCHGEAR

AKG LT SWITCHGEAR is the latest venture of Dr. A.K. Garg Group of companies, engaged in manufacturing of House Wires & Cables, Plastic Pipes and fittings for various electrical & plumbing applications.

As power distribution needs play a pivotal role in all the significant sectors namely Commercial, Industrial and Residential, Improved performance through the better electricity safety, higher operational endurance, continued service and reduced cost have become of paramount importance. AKG have been engineering to constantly fulfill the above requirement. With these features AKG LT SWITCHGEAR is setting new standards for user friendly and superlative electrical circuit protection.

The AKG LT SWITCHGEAR is a high performing thermal magnetic current limiting device with the ability to disconnect short circuit up to 10kA. The range is available in tripping characteristics type B & C Curve for 1P, 1P+N, 2P,3P,3P+N,4P configurations in 6 – 63A current ratings.

All metal component for operating mechanism of MCB's are specially treated for high self-lubrication leading to repeat accuracy during service life. The LT SWITCHGEAR conform to Standards IEC 60947-2 and stand guaranteed for best quality for optimum performance

Also Includes

- Auxiliary Contacts & Shunt Trip
- RCCB
- Distribution Boards

Features.

- Precise hammer action
- Low Power Consumption, thus cost effective & energy saving
- Trip free mechanism: MCB trips even hold in ON position
- Longer electrical life
- Dual termination for bus-bar as well as cable connection
- Green Product

S.No.	Item Description	Item Specification/Standard	Dimensions Available
1	Miniature Circuit Breaker (MCB'S)	IS: 60898-1:2002	6-32 A, (1P, 1P+N, 2P, 3P, 3P+N, 4P)
2	Isolators	Confirm to IEC-60947-Part-3	25-100 A, (1P, 2P,3P,4P)
3	Residual Current Circuit Breaker (RCCB'S)	Confirm to IEC-61008 & IS: 12640-1	16-63 DP, 25-63 FP, (30/100/300 mA)
4	Distribution Board (DB'S)	IS:8623, IS: 31032 IEC-51439-3	SPN DD (4.6.8.12,16 Way), TPN DD (4.6.8.12 Way)

RIGID PVC CONDUITS & FITTINGS



RIGID PVC CONDUITS & FITTINGS

AKG Round Conduit Pipes & Fitting are manufactured from a Specially Formulated Unplasticized Polyvinyl Chloride to meet the most strength Indian & International Standards our products are made of extra super high impact material which makes them safe to use in harsh environments. The products are manufactured in accordance with highest: 9537/Part3 1983 for PVC Conduit & IS 3419, 1988 for fittings.

Application:

- For channelizing Concealed & Surface Wiring
- Tele-Communication & Cable Ducting

Silent Features:

- Adaptable to standard Concealed Wiring System as per IS & BS Standards
- Virgin Suspension grade K-67 PVC
- Processed on twin screws extruders
- Minimum filler ensures high impact strength
- Unplasticized PVC Formulated to Improve the mechanical Strength
- UV Stabilized
- Thermal Resistance from -5c to +60c

Colors : Black, Grey & Ivory

White, Red, Green & Yellow are available on Request

S.No.	Item Description	Item Specification/Standard	Dimensions Available
1	Rigid PVC Conduit Pipes	IS: 9537/Part-3	20 mm, 25 mm, 32 mm, 40 mm, 50 mm, 63 mm (Light/Medium, Heavy)
2	PVC Conduit Pipe Fittings. Bends/Junction box/Saddles etc.	IS: 3419-1988	20 mm-63 mm

CORRUGATED FLEXIBLE CONDUITS



CORRUGATED FLEXIBLE CONDUITS

AKG Corrugated Conduit Pipes comes in a wide & comprehensive range of material variants to suit variety of applications.

Polypropylene Flexible Conduits are the best application where resistant to constant flexing & vibration is essential. These Conduit display excellent flexibility moreover their light weight & easy to install. Temperature Resistance from -5c to +90c

Fire Retardant & Temperature Stable are self-extinguishing. These conduits are manufactured from UL94 B2 RATED Ideally Suited for Wire Harnessing electrical wiring, cable protection. Temperature Resistance from -5c to +90c.

Newly Introduce Polyamide Flexible Conduit are manufactured from flame resistance & self-extinguishing (PA6) material, making them suitable for high temperature zones where human life and component are at risk, High resistance to corrosion most mineral oils, acids & alkalis. They are widely used in Auto-Mobile application & have temperature Resistance up-to +120c

Colors: Black, Grey & White
Red, Green, Blue & Pink are available on request.

S.No.	Item Description	Item Specification/Standard	Dimensions Available
1	Corrugated Flexible Conduit Pipe PP/FRPP/Nylon (Polyamide)	Confirm to IS: 9537 Part-2-1981	16 mm-50 mm

MINI TRUNKING/CASING & CAPPING



MINI TRUNKING/ CASING & CAPPING

Mini Trunking profile & Fitting are manufactured from high impact Unplasticized polyvinyl chloride grade material capable of withstanding the most hazardous condition on-site and exceeds the most stringent requirement of Indian & International Standards. The product range brings a whole new world of sophistication and convenience to home, office & commercial establishment and is in accordance with Indian Standard IS 14927-Part 2.

Application:

- To organize and protect cables on surface

Salient Features:

- High Impact Strength & robust configuration
- Unplasticized formulation ensure no change in dimension/shape even after prolonged use/storage

Many Sizes to suit different application

Color : Ivory Available

S.No.	Item Description	Item Specification/Standard	Dimensions Available
1	PVC Casing N Capping	IS:14927-Part-2/2001	20x12 mm-50x16 mm

MAXI TRUNKING/DLP DUCT



MAXI TRUNKING/ DLP DUCT

Cable Management System is designed to enclose power, data and telecommunication cables in commercial and other similar establishments. Integrated Cable distribution solution that are versatile and easy to install that offers timer saving cable distribution solutions. Flexibility of availing outlets whenever and wherever required along its length.

Salient Features:

- Fast installation and easy maintenance
- Secure and Elegant Look
- Cable Duct with clip on covers ensures that the system is steady in its place
- Can be sub-compartmentalized using clip on cable drivers
- Durable & Impact Resistant
- Corrosion Free
- Thermal Resistant from -5c to +60c
- Material used is non flame propagation and self-extinguishing
- Used in School, Call Centers, Offices and Commercial Establishments

Color: Ivory, Grey & White Available

S.No.	Item Description	Item Specification/Standard	Dimensions Available
1	Modular PVC Duct for Cable Management	IS: 14927-Part-2/2001	50 x 50 mm 75 x 50 mm 75 x 75 mm 100 x 50 mm 100 x 100 mm 150 x 50 mm

PVC WIRING CHANNEL



PVC WIRING CHANNEL

(Slotted/Unslotted)

AKG Wiring channel are manufactured from high impact unplasticized polyvinyl chloride to ensure panel & machinery safety in extreme conditions. These wiring channels are ideally to channelize the medium and big size panels & various application where economy, space saving, safety and durability are paramount.

Application:

- To conduit organize and protect cables inside electrical and telecommunication panels
- Industrial machinery wiring
- Computer LAN wiring
- Data Centers

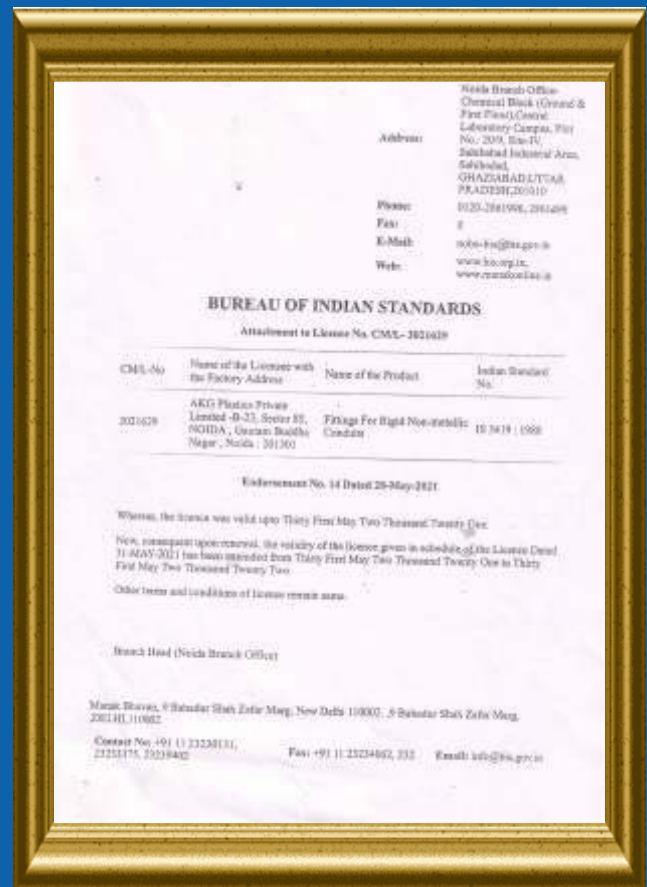
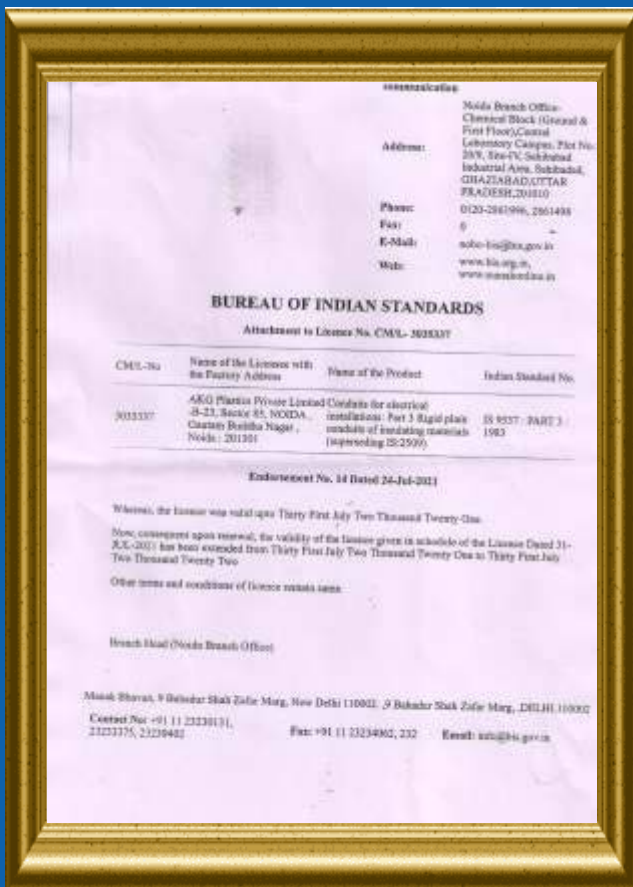
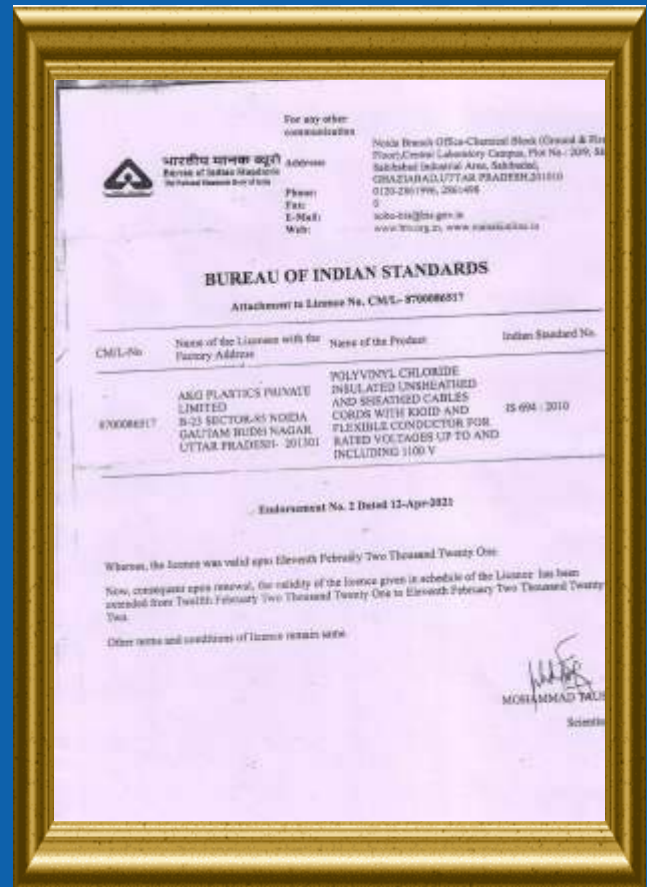
Salient Features:

- Non-brittle, Flame retardant
- Vertical slides and detachable strips facilitate systematic wiring, permits faster connections, addition & fault tracing of wires
- Avoid Bunching, tapping and provides complete electrical insulation
- Unique cover locking design prevents popping of wires while removing covers
- Elongated slots at the bottom allows flexible mounting
- High Tensile strength 390kg/cm²
- Thermal Resistant from -5c to +60c

S.No.	Item Description	Item Specification/Standard	Dimensions Available
1	PVC Wiring Duct (Slotted & Unslotted) for Electrical Panels & Telecom Networking	FRLS & Halogen Free	Complete Range, Size- 15x 15 mm-150x150 mm

OUR CERTIFICATION





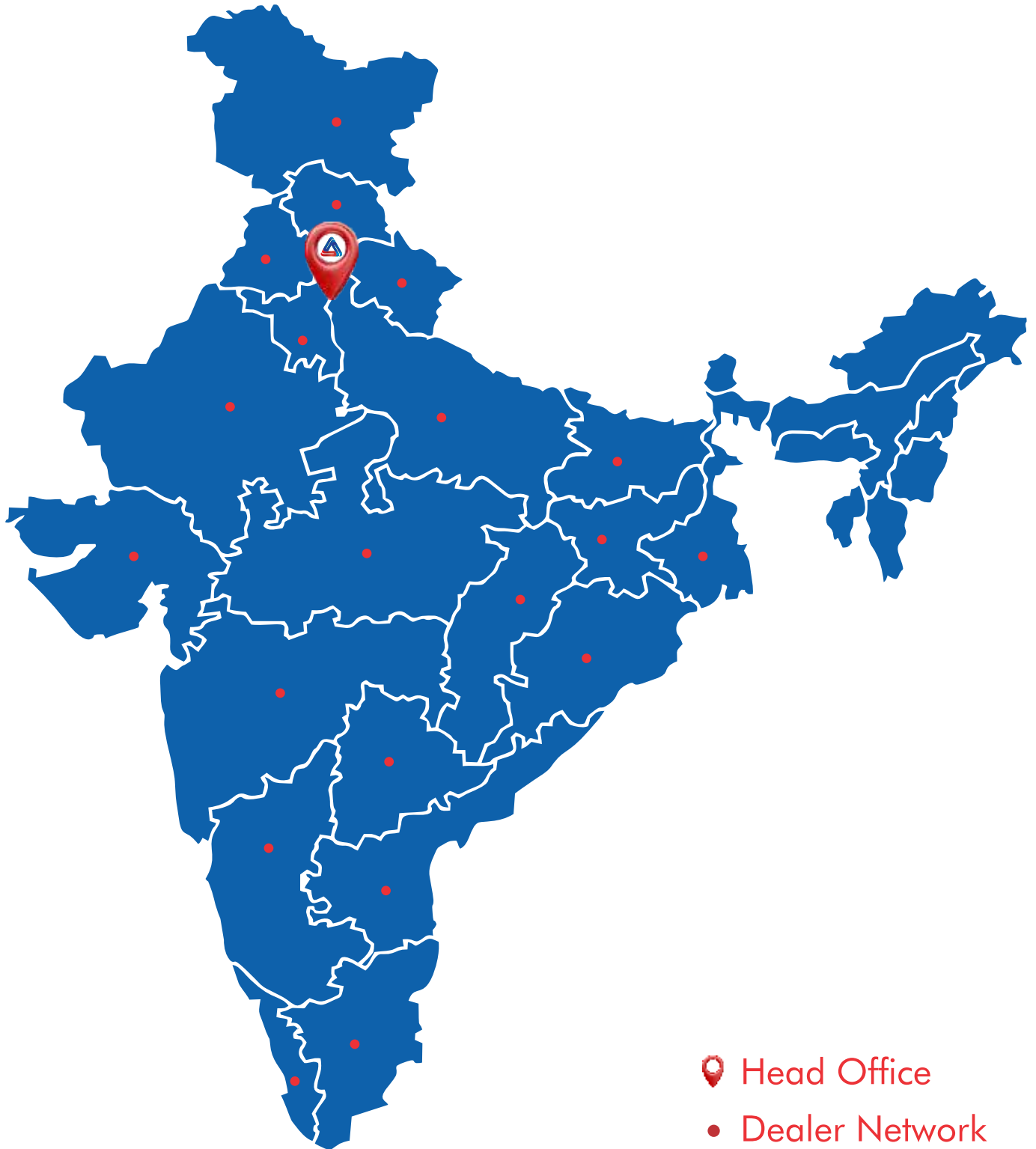
Our Valuable Clients



Our Prestigious Projects



Our Dealer Network





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