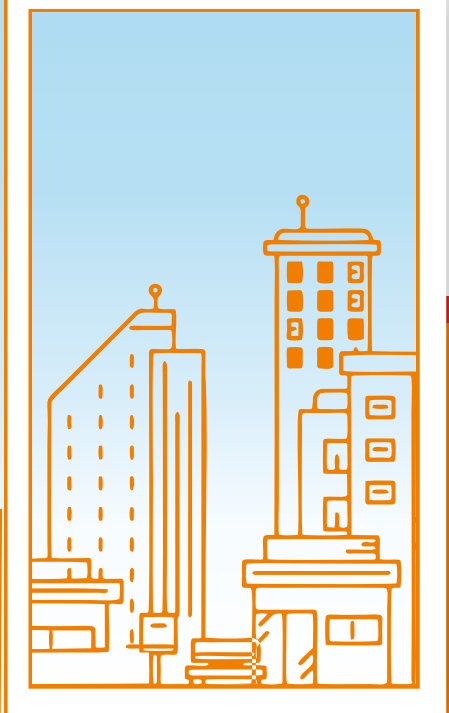


- RIGID PVC CONDUIT PIPES & FITTINGS
- PVC ELECTRICAL INSULATION TAPE
- FAN BOXES & CONCEALED BOXES
- GI BOXES • MCB • ISOLATOR



BRANCH OFFICES

DEHRADUN

HCL Compound, Niranjanpur,
Saharanpur Road,
Dehradun - Uttarakhand- 248001
Phone: 0135-7968354

GUWAHATI

Itabhatta Road, (Kula Basumotari Road),
Near Shiva Mandir, Dhirenpara,
Dist. - Kamrup (Metro),
Guwahati - 781025 Assam.
Mobile: +91 9435707862

MUMBAI

1/4, 4th Marine Street, Office No-5,
1st Floor, Dhobi, Talao, Mumbai-400002
Phone: 022-6516 7026
Email: mumbai@plazacables.com

GHAZIABAD

III, M/R, 28 A, Near Kalka Garhi Chowk,
Nehru Nagar, Ghaziabad - 201001 (U.P.)
Phone: 0120-4146890, 4101480

KOLKATA

Prodder Court Building 18,
Rabindra Sarani Gate- 4, 2nd Floor,
Kolkata - 70000
Mobile: +91 8902334430

PUNJAB

234, Behind Mayur Restaurant,
Pabhat Village, Zirakpur, Distt. Patiala
Mobile: +91 9934681806

REPRESENTATIVES IN :

Agra | Aligarh | Chandigarh | Darbhanga | Faridabad | Gurugram | Indore | Jammu | Jind | Jaipur | Jabalpur | Kerala
Lucknow | Nagpur | Raipur | Rohtak | Siliguri | Srinagar



PLAZA POWER SOLUTIONS PRIVATE LIMITED

(Formerly known as Plaza Power & Infrastructure Co.)
AN ISO 9001:2015 & 14001:2015 CERTIFIED COMPANY

Head Office : A-74, Okhla Industrial Area, Phase-II, New Delhi-110020
Factory : Plot No. K-7, K-8, K-9, UPSIDC Industrial Area, Sikandrabad
Bulandshahr - U. P. - 203205

E-mail : info@plazacables.com | **Web.:** www.plazacables.com

For Any
Business Inquiries

☎ **011-66369666**

Customer Care No.

☎ **1800 121 8050**



ABOUT US

Founded in 2009, PCG has established itself as a leading manufacturer of PVC conduit pipes, MCBs, insulation tapes, and a wide range of allied products. The brand operates under the Plaza Cables (Plaza Wires Limited) umbrella, a trusted name in the wires and cables industry since 1975. Recognized by the Indian Cable and Conductor Association as an outstanding cable manufacturer, Plaza Cables has earned a reputation for excellence and industry leadership. In 2023, Plaza Cables successfully went public, a milestone reflecting the strong trust and confidence placed in the company by its customers and stakeholders.

Building on this legacy, PCG was created to cater to the growing demand for high-quality PVC piping solutions. Our state-of-the-art manufacturing facility in Uttar Pradesh is equipped with advanced technology and premium-grade materials. Certified under ISO 9001:2015 and ISO 14001:2015, every product is manufactured in accordance with stringent Indian (BIS) and international quality standards. With a highly skilled workforce and modern infrastructure, PCG consistently delivers reliable, durable, and high performance products that require minimal maintenance. Supported by over five decades of industry experience through Plaza Cables, PCG has become a trusted choice among architects, consultants, and contractors nationwide.

To ensure smooth product availability, we maintain a robust distribution network of authorized distributors, dealers, and retailers across North India. All sales and marketing activities are efficiently coordinated from our corporate headquarters in New Delhi.

Guided by the Make in India initiative, PCG is committed to serving the evolving needs of Indian consumers. Looking ahead, our mission is to expand our product portfolio, strengthen our presence across India, and extend our reach into international markets.



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CHAIRMAN-CUM-MANAGING DIRECTOR'S MESSAGE



MR. SANJAY GUPTA
Group Chairman and Managing Director

"It is a privilege to lead PCG, where our commitment goes beyond manufacturing-we aim to deliver solutions that inspire trust and ensure safety in every project. Backed by decades of industry experience through our sister company, Plaza Cables, we bring expertise, innovation, and quality to everything we do."

Our teams are driven by the goal of creating durable, high-performance products that meet the demands of modern construction and electrical infrastructure. Every process, every material, and every product reflects our focus on reliability, efficiency, and sustainability.

As we look to the future, our mission is to empower our customers, strengthen our presence across India, and contribute to the growth of the industries we serve. I am proud of the trust our partners place in us and remain committed to upholding the highest standards of excellence in all that we do."

Sanjay Gupta
Sanjay Gupta
(Chairman & Managing Director)

PLAZA POWER MAINTAINS A STATE-OF-THE-ART MANUFACTURING UNIT IN SIKANDRABAD-U.P.



MANUFACTURING FACILITY INFORMATION

Annual Production Capacity	14 Million Meters Per Annum, 1,440 Ton PVC Compound Per Annum
Total Land Area	3,394 Square Meters
Owned / Leased	Owned
IT Infrastructure	FCA Integral ERP
Green Zone	Conformance to PCB norms
Laboratory	In-House for All Tests
Address	K-7, K-8, K-9, Sikandrabad Industrial Area, District – Bulandshaher, Uttar Pradesh





OUR VALUED CUSTOMERS



दिल्ली मेट्रो रेल कॉर्पोरेशन लिमिटेड
Delhi Metro Rail Corporation Limited



IndianOil



Rajshree Nursing
Institute Bareilly



and many more...



CERTIFICATIONS



ISO 9001:2015 - CERTIFICATE

ISO 9001 is a globally recognized standard that defines the criteria for an effective quality management system. Achieving this certification helps organizations of any size strengthen customer trust, ensure compliance with regulatory expectations, and enhance their ability to compete in international markets.

ISO 14001:2015 - CERTIFICATE

ISO 14001 is an internationally recognized standard for establishing an effective Environmental Management System (EMS). It offers organizations a structured framework to develop, implement, and continually enhance their environmental practices and overall environmental performance.



IS 14927:PART2:SEC1:2023 - CERTIFICATE

IS 14927 (Part 2/Sec 1) : 2023 specifies standards for cable trunking and ducting systems, ensuring safe housing, protection, and installation of electrical and communication cables with mechanical strength, insulation, and fire resistance.

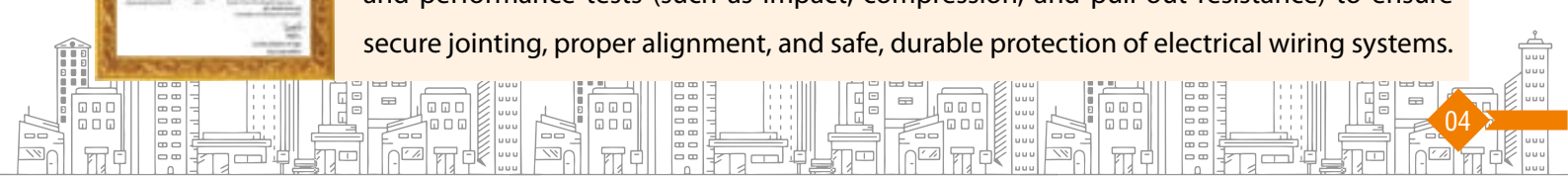
IS 9537:PART3:1983 - CERTIFICATE

IS 9537 (Part 3):1983 sets out specifications for rigid plain conduits made of insulating materials - typically PVC - used in electrical installations. This standard defines requirements for mechanical strength, dimensions, insulation properties, and tests (such as bending, heat resistance, and impact) to ensure safe and durable protection for electrical wiring.



IS 3419:1988 - CERTIFICATE

IS 3419:1988 specifies standards for fittings used with rigid non-metallic conduits made of insulating materials - typically PVC - in electrical installations. This standard defines requirements for dimensions, mechanical strength, insulation properties, heat resistance, and performance tests (such as impact, compression, and pull-out resistance) to ensure secure jointing, proper alignment, and safe, durable protection of electrical wiring systems.



OUR PRODUCTS



RIGID PVC CONDUIT PIPES

PCG PVC Conduit Pipes are designed for reliable protection of electrical installations, ensuring safety and durability in residential, commercial, and industrial applications. Engineered to resist fire, impact, chemicals, and extreme temperatures, these conduits provide long-lasting performance.

APPLICATIONS

- Protection of electrical cables and wiring systems
- Use in residential, commercial, and industrial installations
- Suitable for all weathers and temperatures

KEY FEATURES

- High impact strength for robust performance
- Excellent chemical resistance
- Superior light proofing
- Fire-resistant and heat-tolerant
- Maintains flexibility even in low temperatures





STANDARD

IS 9537: Part 3:1983, ISO 14001:2015, ISO 9001:2015

AVAILABLE SIZES:

19mm, 20mm, 25mm, 32mm, 40mm & 50mm
PVC Conduit & FRLS Conduit

GRADE

Light mechanical stresses (LMS), Medium mechanical stresses (MMS), Heavy mechanical stresses (HMS).

COLOUR

Ivory, Grey

TESTING

All PCG Products are tested as per IS 9537: Part 3:1983

ELECTRICAL CHARACTERISTICS (AS PER IS 9537)

1. Electrical Strength - No breakdown observed at 2000V
2. Insulation Resistance - Min. 100 Mega Ohm

MECHANICAL STRENGTH (AS PER IS 9537)

1. Impact Resistance – No crack visible
2. Compression Resistance – Retains the original shape on the removal of the force
3. Bending strength – No crack visible at 180° Bending

THERMAL STRENGTH

(AS PER IS 9537, IS 14927 & IS 3419)

1. Thermal Resistance – (-5° to +60°C)
2. Resistance to Burning – Flame retardant (Flame die out within 30 sec)
3. Resistance to heat- Less than 2.0mm

DIMENSION

NOMINAL SIZE (IN MM)	MAXIMUM O. D. (IN MM)	MINIMUM O. D. (IN MM)	MINIMUM INTERNAL DIAMETER			PACKING/BUNDLE (IN METERS)
			LIGHT MECHANICAL STRESS (IN MM)	MEDIUM MECHANICAL STRESS (IN MM)	HEAVY MECHANICAL STRESS (IN MM)	
20	20	19.70	17.40	16.90	15.80	120
25	25	24.60	22.10	21.40	20.60	75
32	32	31.60	28.60	27.80	26.60	60
40	40	39.60	35.80	35.40	34.40	45
50	50	49.50	45.10	44.30	43.20	30



QUALITY



TRUSTABILITY



SOLIDITY



DURABILITY



AFFORDABLE

PVC CASING N-CAPPING

PCG PVC Casing N Capping offers safe, organized, and durable routing for electrical wiring in residential, commercial, and industrial spaces. Made from high-strength, non-conductive PVC, it provides reliable protection against moisture, dust, chemicals, and physical damage while maintaining a clean, streamlined look.

APPLICATIONS

- Open wiring in homes, offices, and commercial buildings
- LAN and telecom cabling
- False ceilings and sleeving installations
- General cable management for electrical and low-voltage systems

KEY FEATURES

- High-strength, lightweight uPVC construction
- Non-conductive and chemically resistant for added safety
- Double-locking mechanism for secure wire placement
- Easy, quick installation with snap-on design
- Protects against dust, moisture, and impact
- Heat- and weather-resistant for long-term use
- Available in multiple sizes for versatile installations
- Cost-effective, low-maintenance cable protection

STANDARD

IS 14927: Part 2: Sec 1:2023, ISO 14001:2015, ISO 9001:2015

AVAILABLE SIZES:

20x12mm, 25x16mm, 30x15mm, 32x16mm, 38x16mm, 50x16mm.

COLOUR

Ivory



TESTING

All PCG Products are tested as per IS 14927: Part 2: Sec 1:2023

ELECTRICAL CHARACTERISTICS

AS PER IS 9537, IS 14927 & IS 3419)

1. Electrical Strength - No breakdown observed at 2000V
2. Insulation Resistance - Min. 100 Mega Ohm

MECHANICAL STRENGTH

(AS PER IS 9537, IS 14927 & IS 3419)

1. Impact Resistance - No crack visible
2. System access cover retention - The access cover shall remain secured.

THERMAL STRENGTH

(AS PER IS 9537, IS 14927 & IS 3419)

1. Thermal Resistance - (-5° to +60°C)
2. Resistance to Burning - Flame retardant (Flame die out within 30 sec)
3. Resistance to heat - Less than 2.0mm



ACCESSORIES OF CONDUIT PIPE



PCG PVC Bends are engineered to ensure smooth directional transitions within electrical conduit systems, delivering the same level of safety, durability, and reliability associated with the PCG brand. Designed to complement PCG PVC Conduit Pipes, these bends maintain consistent protection of electrical wiring across residential, commercial, and industrial installations. Built to withstand fire, impact, chemicals, and extreme temperatures, PCG PVC Bends provide long-lasting performance in any environment.

APPLICATIONS

- Ensures smooth cable routing in electrical conduit networks
- Ideal for residential, commercial, and industrial installations
- Suitable for concealed and surface wiring systems
- Reliable performance across all weather conditions and temperatures

KEY FEATURES

- High impact strength for durable, distortion-free bending
- Excellent chemical and corrosion resistance for extended service life
- Fire-resistant and heat-tolerant, ensuring enhanced safety
- Superior light proofing to protect sensitive wiring
- Precisely molded angles for easy installation and secure fit
- Retains flexibility even in low-temperature environments

STANDARD

IS 3419:1988, ISO 14001:2015, ISO 9001:2015

GRADE

Light mechanical stresses (LMS), Medium mechanical stresses (MMS), Heavy mechanical stresses (HMS).

COLOUR

Ivory

PVC BEND



DIMENSION OF PVC BEND

SIZES	OUTSIDE DIAMETER	MINIMUM INSIDE DIAMETER (BEND)	INSIDE DIAMETER (Collar (D3))	RADIUS	LENGTH OF ONE END FROM CENTRE END (Y)	LENGTH OF COLLAR (12)
20 mm	19.70-20 mm	16.9 mm	20.1-20.3 mm	65 mm	115 mm	35 mm
25 mm	24.7-25 mm	21.3 mm	25.1-25.4 mm	90 mm	160 mm	35 mm
32 mm	31.7-32 mm	27.9 mm	32.1-32.4 mm	125 mm	215 mm	45 mm
40 mm	39.7-40 mm	35.5 mm	40.1-40.5 mm	160 mm	260 mm	45 mm
50 mm	49.7-50 mm	44.7 mm	50.1-50.5 mm	210 mm	310 mm	55 mm

SURFACE JUNCTION BOX / CIRCULAR BOX



PCG PVC Junction Boxes are designed to provide secure and organized wiring connections within electrical conduit systems. Built with precision and reinforced with robust PVC material, these boxes offer superior protection against fire, impact, moisture, and chemicals. Their durable construction ensures long-lasting performance across residential, commercial, and industrial applications.

APPLICATIONS

- Distribution and interconnection of electrical wiring
- Suitable for concealed and surface conduit installations
- Ideal for residential, commercial, and industrial projects
- Effective in all weather conditions and varying temperatures

KEY FEATURES

- High impact-resistant body for dependable installation
- Excellent chemical, moisture, and corrosion resistance
- Fire-resistant and heat-tolerant for enhanced safety
- Smooth inner finish for easier cable pulling and connection
- Precision-molded sizes for secure fit with PCG conduits
- UV-stable and light-proof construction



ONE WAY



TWO WAY



THREE WAY



FOUR WAY

DIMENSION OF SURFACE JUNCTION BOX

SIZES	OUTSIDE DIAMETER OF SPOUT (B)	INSIDE DIAMETER OF COLLAR TAKER (C)	LENGTH OF SPOUT (D)	DEPTH OF MAIN CAVITY (E)	COLLAR HALF FROM BOTTOM (E)	INNER DIAMETER OF MAIN CAVITY (G)	THICKNESS
20 mm	23 mm	17-17.25 mm	20 mm	25 mm	13.5-14.5 mm	60-61.5 mm	1.6 mm
25 mm	29.5 mm	22.75-23 mm	23 mm	28 mm	16.5-17.5 mm	60-61.5 mm	1.6 mm



DEEP JUNCTION BOX / CIRCULAR BOX

PCG PVC Deep Junction Boxes offer added internal space for complex wiring, larger cable volumes, and enhanced flexibility during installation. Designed for safety and durability, they ensure neat cable management while providing superior protection against heat, chemicals, and mechanical stress.

APPLICATIONS

- Ideal for installations requiring multiple cable entries
- Suitable for fan points, switchboards, and complicated wiring joints
- Perfect for residential, commercial, and industrial sites
- Reliable performance in all climates and conditions

KEY FEATURES

- Extra depth for improved cable accommodation
- Rugged, high-impact construction
- Excellent resistance to fire, chemicals, and environmental factors
- Light-proof, ensuring safe cable protection
- Precision-crafted knockouts for easy conduit entry
- Sturdy covers and locking system for secure closure

DIMENSION OF DEEP JUNCTION BOX

SIZES	OUTSIDE DIAMETER OF SPOUT (B)	INSIDE DIAMETER OF COLLAR TAKER (C)	LENGTH OF SPOUT (D)	DEPTH OF MAIN CAVITY (E)	COLLAR HALF FROM BOTTOM (E)	INNER DIAMETER OF MAIN CAVITY (G)	THICKNESS
20 mm	23 mm	17-17.25 mm	20 mm	65 mm	13.5-14.5 mm	60-61.5 mm	2.00 mm
25 mm	29.5 mm	22.75-23 mm	23 mm	65 mm	16.5-17.5 mm	60-61.5 mm	2.00 mm



ONE WAY (TERMINAL)



TWO WAY (ANGLE)



THREE WAY (TEE)



FOUR WAY (INTERSECTION)

COUPLER / SOCKET

PCG PVC Couplers are designed to ensure strong, seamless connections between conduit pipes, supporting continuous protection of electrical wiring. Manufactured with high-quality PVC material, these couplers deliver reliable performance in harsh conditions, maintaining structural integrity over time.

APPLICATIONS

- Joining PCG PVC conduit pipes in long wiring runs
- Ideal for residential, commercial, and industrial installations
- Suitable for both concealed and exposed wiring systems

KEY FEATURES

- High impact strength for secure and long-lasting joints
- Smooth internal design for effortless cable movement
- Exceptional chemical and moisture resistance
- Fire-resistant and thermally stable
- Precision-molded for perfect alignment with PCG conduits
- UV-resistant and light-proof construction



PVC COUPLER-STANDARD

DIMENSION OF PVC COUPLER

SIZES	INSIDE DIAMETER OF COLLAR	INSIDE DIAMETER OF RIDGE	MINIMUM OVERALL LENGHT	MINIMUM WALL THICKNESS
20 mm	20.1 - 20.3 mm	17.5 - 17.90 mm	100 mm	1.20 mm
25 mm	25.1 - 25.4 mm	22 - 22.5 mm	110 mm	1.40 mm

ELBOW AND TEE

PCG PVC Elbows and Tees provide smooth directional changes and branching within conduit systems, ensuring organized cable routing and consistent protection. Built for strength and precision, they maintain system integrity under demanding conditions.

APPLICATIONS

- Facilitates directional changes (Elbows)
- Enables branching across wiring circuits (Tees)
- Suitable for residential, commercial, and industrial wiring setups
- Compatible with both concealed and open conduit systems

KEY FEATURES

- Robust, impact-resistant PVC build
- Fire-resistant and capable of withstanding high temperatures
- Excellent chemical and corrosion resistance
- Smooth interior surfaces to prevent cable damage
- Accurate angle and dimensional stability for easy installation
- Maintains flexibility even in low temperatures



ELBOW



TEE

DIMENSION OF ELBOW AND TEE

SIZES	INSIDE DIAMETER OF COLLAR	LENGTH (L)	RADIUS	MINIMUM WALL THICKNESS
20 mm	20.1 - 20.3 mm	35 mm	20 mm	1.20 mm
25 mm	25.1 - 25.4 mm	35 mm	25 mm	1.40 mm



MISCELLANEOUS ITEMS

PCG PVC Saddles ensure secure and stable mounting of conduit pipes along walls and surfaces. Available as **Spacer Bar Saddles** for elevated conduit placement and **Saddles Without Base** for compact, close-to-surface installation, both are crafted to deliver firm grip, durability, and long-term reliability.

APPLICATIONS

- Mounting and securing conduit pipes on walls, ceilings, and structural surfaces
- Suitable for residential, commercial, and industrial layouts
- Designed for concealed, exposed, and overhead wiring systems

KEY FEATURES

- High-strength PVC construction for firm pipe support
- Resistant to fire, chemicals, and varying temperatures
- Lightweight yet durable for quick and easy installation
- Corrosion-free and weatherproof performance
- Smooth edges to prevent pipe abrasion
- Maintains secure grip without deformation over time

SPACER BAR SADDLE

S. NO.	NOMINAL SIZE (IN MM)	STANDARD PACKING NOS/BAG
1	20	1000
2	25	1000

SADDLE WITHOUT BASE

S. NO.	NOMINAL SIZE (IN MM)	STANDARD PACKING NOS/BAG
1	20	1000
2	25	1000



SPACER BAR SADDLE



SADDLE WITHOUT BASE

GI MODULAR BOX

PCG GI Modular Boxes are crafted from pre-galvanized virgin sheets with a 120 GSM zinc coating, offering excellent corrosion and rust resistance. Each box is built for safety and reliability, featuring precision threads, an earthing terminal for shock protection, and protective tape to shield against dust and cement during installation. Available in a variety of sizes, these boxes provide a secure and seamless fit for all modular electrical switches.

APPLICATIONS

- Housing for modular switches and electrical fittings
- Ideal for residential, commercial, and industrial setups

KEY FEATURES

- Superior rust and corrosion resistance
- 120 GSM durable zinc coating
- Easy and convenient installation
- Protection against cement and dust
- Shock-resistant for enhanced safety



MODULE	SIZE (IN MM)
1 or 2 Module	76x76x50 (3x3)
3 Module	106 x 76 x 50 (4 x3)
4 Module	136x76x50 (5x3)
6 Module	210x76x50 (5x3)
8 Module Rectangular	230x78.5x50 (9x3)
8 Module Square	136x132x50x (5x5)
12 Module	207x132x50x (8x6)
16 Module	143x233x50 (9x6)
18 Module	204x210x50 (8x8)



FAN BOX

PCG Fan Boxes are robust enclosures designed to securely house ceiling fan wiring. Crafted from high-quality metal, they protect electrical connections, ensure stable fan installation, and comply with building safety standards, making them perfect for both new builds and renovations.

APPLICATIONS

- Safe installation and wiring of ceiling fans and accessories

KEY FEATURES

- Durable construction for reliable support
- Protects wiring from damage and environmental exposure
- Ensures stable fan mounting
- Maintains electrical safety and regulatory compliance
- Ideal for new construction and renovation projects



DIMENSION OF FAN BOX

S. NO.	SIZES	THICKNESS	DEPTH	LENGTH OF ROD	DIAMETER OF ROD	SURFACE INNER DIAMETER
1	2 Inch Fan Box	0.80 mm	50 mm	280 mm	12 mm	140 mm
2	2.5 Inch Fan Box	0.80 mm	65 mm	280 mm	12 mm	140 mm
3	3 Inch Fan Box	1.60 mm	75 mm	440 mm	12 mm	140 mm

CONCEALED BOX / LED BOX

PCG Concealed Boxes provide secure and discreet housing for electrical connections within ceilings. They protect wiring from damage, moisture, and environmental exposure while ensuring a clean, modern finish. Designed for versatility, these boxes are ideal for a wide range of electrical installations.

APPLICATIONS

- Safe and hidden mounting of electrical connections within ceilings

KEY FEATURES

- Shields wiring from physical and environmental damage
- Maintains a sleek, integrated appearance
- Reliable and adaptable for diverse installations
- Suitable for residential, commercial, and industrial projects



DIMENSION OF CONCEALED BOX

SIZES	SURFACE INNER DIAMETER	DEPTH
2 Inch Concealed Box	100 mm	50 mm
2.5 Inch Concealed Box	100 mm	65 mm
3 Inch Concealed Box	100 mm	75 mm



SELF ADHESIVE PVC ELECTRICAL INSULATION TAPE

Exposure at 27±2°C and 93 ± 2% relative humidity
Measurements : Width – 1.7 cm | Length – 6 m / 15 m | Thickness – 0.125 mm

PCG Electrical Insulation Tape is a reliable, self-extinguishing/fire-resistant solution designed for secure insulation and protection of electrical components. Its stretchable design grips firmly and adapts to any surface, providing long-lasting waterproof and weatherproof protection against corrosion.

APPLICATIONS

- Insulation of wires and cables
- Protection of transformers, panels, and electrical appliances
- Use in electronic systems and communication equipment

KEY FEATURES

- Self-extinguishing / Fire-resistant for enhanced safety
- Stretchable and strong adhesion
- Waterproof and weatherproof
- Corrosion-resistant

STANDARD : IS 7809-3-1(1986)

SIZE : 6 Mtrs. and 15 Mtrs.

COLOUR : Black, Red, Blue, Yellow, Green & White

1. FLAMABILITY TEST : It shall be designed by addition of 'FR' with F-PVC P 90/0/TP/FR

2. ELECTROLYTIC CORROSION : It shall be measured in accordance to either visual test as specified in 2 of IS 8516:1977

3. STABILITY IN ACCELERATED AGING : Never testing for behaviour under accelerated ageing conditions

4. INSULATION RESISTANCE LIST : The central Value of insulation resistance shall be at least 105 MQ 25 mm width after 24



Thickness	0.125+ - 0.025 mm
Tensile strength	150/10 mm width per mm thickness (min)
Adhesion to steel	1.6 N/10 mm width (min)
Adhesion to backing	1.3 N/10 width (min)
Electric strength at room temp.	40 KV/mm (min)
Electric strength after humid conditioning	35 KV/mm (min)
Flammability	Self extinguishing
Electrolytic corrosion	Within permissible degrees of corrosion as specified
Insulation resistance	10 ⁵ M Ohms (min)
Available Colors	Red, Blue, Yellow, Black, Green, White



SWITCH TO SAFETY & PROTECT WITH **PCG MCB**

ZEST
MINIATURE CIRCUIT BREAKER

PRESENTING PCG
MCB, ISOLATOR, RCCB/ELCB, CHANGEOVER SWITCH,
DISTRIBUTION BOARD, PLUG & SOCKET DB



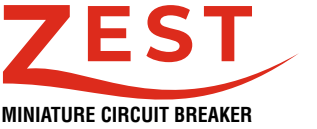
10kA





MCB

MINIATURE CIRCUIT BREAKERS



MINIATURE CIRCUIT BREAKER

Engineered to deliver optimum security to the heavy electrical appliances of your home and office, the PCG MCB range becomes a cherished partner of the premise. Powered by PCG technology, this range is designed by the finest brains of India.

These circuit breakers secure the premise from electrical fire caused due to short circuits. Its exclusive mid-trip function makes it easy to identify circuit fault as a knob stays in center in case of overload or short circuit. Manufactured with superior fire-resistant plastic parts, which prevent abnormal heating and offer resistance against strong impacts. The high short-circuit withstand capacity of 10000A (10kA) makes the range a perfect fit for your heavy electrical appliances.

PCG MCB AT A GLANCE

- State of the Art Design
- High Speed and High Breaking Capacity Mechanism
- Independent Manual Operation
- Mid-Trip Feature
- Flame Retardant Material of Housing and Cover
- Easy Mounting with Two Steps Din Rail Clip
- Contact Position Indicating Window
- Trip-Free Mechanism
- Bus bar and Cable Connection Facility
- Energy-Efficient MCB
- Large Cable Terminals
- IP 20 Degree Protection



FEATURES & BENEFITS

IP 20 Degree Protection

Terminals are finger touch proof. Prevents electrical shock by accidental touch.

Padlocking Facility

Dolly can be padlocked in OFF position for personal safety during maintenance. ON positioning for extremely critical loads.

Current Limiting Design Class 3

Minimum let through energy under fault condition due to ultra fast contact separation and rapid quenching of the arc. This reduces stress on connected loads and cables.

Indication

PCG MCB's have a clear & visible indicator to show if thermal is on or off.

Din Rail Mounting

Two stage snapping device for simple, effortless and firm seating on 35 mm Din Rail, easy & efficient mounting.

Combination Head Captive Screws

Safe and provides the flexibility of both +/- Head screw driver.

Low Power Consumption

Cost effective and energy saving. The Watt loss of PCG MCBs is extremely low, providing valuable energy savings over its entire life cycle.

Wide Range

6.0 to 63 A
1P, 1P+N, 2P, 3P, 3P+N & 4P configurations
B & C Tripping Characteristic

Air Circulation

When two poles are placed adjacent to each other, these channels form a tunnel, resulting in effective air circulation around individual poles.

2 Position Dolly

Clear indication of the operational status of the device.

CONSTRUCTIONAL DETAILS

HOUSING

PCG MCBs are made up of engineered thermo plastic for self lubrication and critical performance. the housing and other moulded components are fire retardant having high dielectric strength therefore enabling it to withstand high temperature.

OPERATING MECHANISM

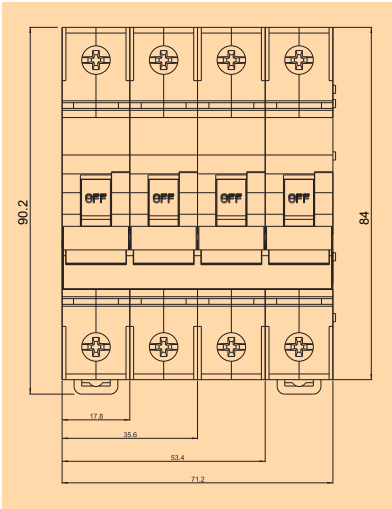
PCG Circuit Breaker are based on thermal magnetic technology. The protection is ensured by combining a temperature receptive mechanism (bimetal) and a current sensitive electromagnetic device. the thermal operation provides protection from normal overload and the electro- magnetic device against large overloads and short circuits.

SUPERIOR CONTACT MECHANISM

The mechanism comprises of fixed and moving contacts made up of silver Polish for surety, extended life span and anti-weld properties. These contacts have low contact resistance resulting in reduced voltage drop and low watt loss commensurating to energy savings.

HIGH TECH ARC BLOWER

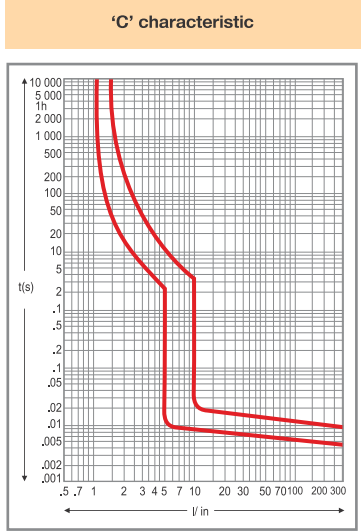
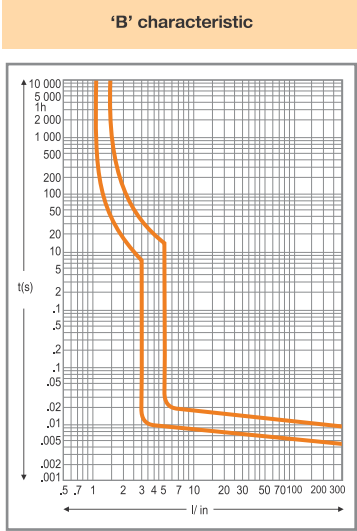
Protects form hazards of overloads and short - circuits. The arc under the influence of magnetic field is moved into the arc chute where it is quickly extinguished and quenched



TECHNICAL DATA - TRIPPING CURVES

Type	Application	Thermal Test Current		Tripping Time $I_{n} \leq 63A$	Electro Magnetic Test Current	Tripping Time (t)
		Low	High			
B	Lighting & Distribution with no surge Current	1.13xIn		>1hour	3xIn	$\geq 0.1s$
			1.45xIn	<1hour	5xIn	<0.1s
C	Inductive Load with surge Current	1.13xIn		>1hour	5xIn	$\geq 0.1s$
			1.45xIn	<1hour	10xIn	<0.1s
D	High Inductive Load & High Inrush Current	1.13xIn		>1hour	10xIn	$\geq 0.1s$
			1.45xIn	<1hour	20xIn	<0.1s

TECHNICAL DATA CHARACTERISTICS



	MCB		Isolator
Standard Conformity	IS/IEC60898-1-2002		IS/IEC60947-3
Rated Current (In)	B	C	
	6-63A	6-63A	40-100A
	240/415V		240/415V
Rated Frequency Hz	50/60Hz		50Hz
	1P, 1P+N, 2P, 3P, 3P+N & 4P		2P, 3P & 4P
Rated Short Circuit Breaking Capacity	10kA		10kA
Rated Insulation Voltage (Ui)	660V		660V
Electrical/Mechanical Life			
<32A	30,000		30,000
>32A	10,000		10,000
Ambient Temperature	-5°C to +55°C		-5°C to +55°C
	ELC 3		
Mounting	Clip on Din rail (35 mm x 7.5 mm)		
	25 mm ²		25 mm ²
Degree of Protection	IP 20		IP 20
Magnetic Release Setting	(3-5)In	(5-10)In	
Ambient reference temperature	30°C		
Installation Position	Vertical/Horizontal		Vertical/Horizontal





ISOLATOR

ZEST
ISOLATOR

ISOLATOR

PCG Isolators are switch Disconnectors with independent manual operation, capable of making, carrying and breaking current under normal circuit conditions, which may includes operating under overload condition and also carry current under a specified abnormal circuit conditions such as those of short circuits for a specified time

PCG ISOLATORS ARE PROVIDED WITH FOLLOWING FEATURES

- 1) Safety terminals to avoid improper cable termination
- 2) Easy Snap pusher for mounting easily on Din Rail channel of DB's
- 3) Large cable terminal to terminate cable size upto 25sq mm
- 4) Cooler operation - Grooves provides on outer body on Isolator so that when individual poles are placed adjacent to each other in DB's It forms a very infective path for better air circulation resulting no over heating between two poles.
- 5) Center knob mechanism for better performance
- 6) Combination head captive screw
- 7) Available in 2P, 3P & 4P configuration in 40 63 & 100A current rating



RESIDUAL CURRENT CIRCUIT BREAKER (RCCB/ELCB)

Day after day we come across many un to do events hampering human lives due to negligent usage of electricity. Even large number of industrial and Domestic fire are attributed to and caused by electricity. Faulty insulated equipments or wrong usage of electrical device cause current to flow through insulation to the earth. This is leakage current. This current poses two sever risk factors which are

- Fire Risk
- Electrocutation Risk

Residual Current Circuit Breaker Provides the function of isolation switching and earth leakage protection of electrical circuits. Its also provides the indirect protection of the human body against the dangerous effects of electric current. It is also a protective device against fire caused by the electrical circuit fault.

PHYSIOLOGICAL EFFECT OF ELECTRIC CURRENT ON HUMAN BODY

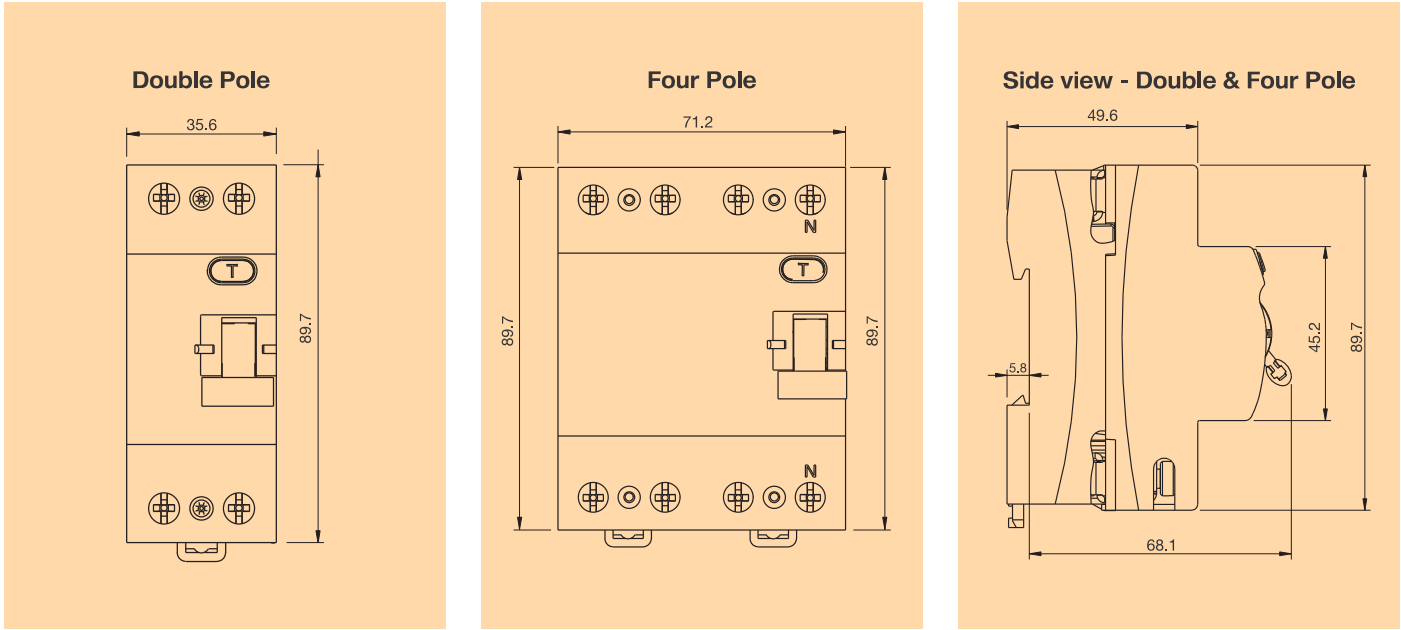
- | | | |
|-----------|--|--|
| 500 mA | | Immediate cardiac arrest resulting in death |
| 70-100 mA | | Cardiac fibrillation; the heart begins to vibrate and no longer beats at a steady rate. This situation is dangerous since it is irreversible |
| 20-30 mA | | Muscle contraction can cause respiratory paralysis |
| 10 mA | | Muscle contraction: the person remains "stuck" to the conductor |
| 1-10 mA | | Prickling sensations |

As per Indian Electricity Rules 1956 at all installations with load above 5 KW use of RCCB is compulsory



Majority of mishaps occur due to current leakage consequently leading to fire. PCG RCCB of the required rating instantly detects this leakage and terminates the supply reducing the risk of any kind of fire. The range is available in AC Residual Tripping Characteristics in 2 & 4 Pole Configurations in 16, 20, 25, 32, 40, 63, 80 & 100Amps in 30, 100 & 300mA sensitivity.

- Provides protection against earth fault/leakage current and also fulfill the function of isolation.
- Automatically measures and disconnect the circuit when earth fault/leakage current occurs and exceeds the rated sensitivity.
- High short-circuit current withstand capacity - 6kA
- Equipped with finger protected connection terminals (Ip20)
- Fire resistant plastic parts to withstand abnormal heating and strong impact
- Independent of power supply and line voltage. Also free from external voltage fluctuation.
- Incorporates a filtering device for prevention of nuisance tripping due to transient voltage
- Clear & visible indicator to show if the circuit is on or off



TECHNICAL SPECIFICATION (RCCB)

S.NO.	PARAMETER	OBSERVATION
A	ELECTRICAL PARAMETER	
1	TYPE (WAVE FROM OF THE EARTH LEAKAGE SENSED)	AC, A, AC-G, A-G, AC-S, A-S, A-SI
2	RATED CURRENT IN (AMP)	25, 40, 63
3	POLES	2P, 4P
4	RATED VOLTAGE Ue- (V)	230/400-240/415
5	RATED SENSITIVITY (AMP)	0.01 FOR 2P25A, 0.03, 0.1, 0.3, 0.5
6	INSULATION VOLTAGE UI (V)	500
7	RATED RESIDUAL MAKING AND BREAKING CAPACITY (Im)	500 (IN=25A/40A), 800 (IN=80 A/100A)
8	SHORT-CIRCUIT CURRENT	6000/10000
9	SCPD FUSE (AMP)	10000
10	BREAK TIME UNDER (SEC)	<0.1 (Normal Type), 10 ms-300 ms (G-Type), 150 ms-500 ms(S Type)
11	RATED FREQUENCY (HZ)	50/60
12	RATED IMPULSE WITHSTAND VOLTAGE (1.2/50) Uimp -(V)	6000
13	POLLUTION DEGREE	2
B	MECHANICAL	
14	ELECTRICAL LIFE	2000
15	MECHANICAL LIFE	2000
16	PROTECTION DEGREE	IP 20
17	FAULT CURRENT INDICATOR	YES
C	INSTALLATION	
18	TERMINAL CONNECTION TYPE	CABLE/BUS BAR
19	TIGHTING TORQUE(N-m)	2.5
20	MOUNTING	ON DIN RAIL (35mm) BY FAST CLIP DEVICE
21	CONNECTION	FROM TOP AND BOTTOM
D	ENVIRONMENTAL PARAMETER	
22	AMBIENT TEMP WITH DAILY AVERAGE<35 DEG CNTIGRADE	-5.....+40
23	STORAGE TEMPERATION	-25....+ 70



MCB TYPE CHANGEOVER SWITCH



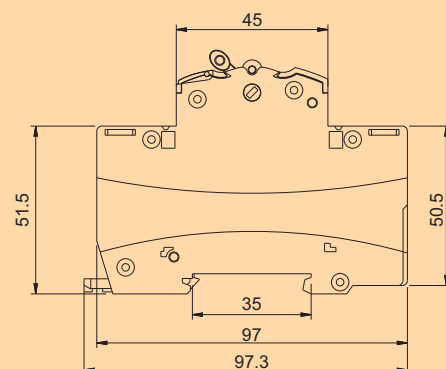
TWO WAY CHANGEOVER SWITCH

FEATURE

- Compact Design
- Double Break Contacts
- Shrouded Terminal
- Can be Mounted with other products like MCB, RCCB, Isolator in Distribution Board
- Front Operation with three positions I-O-II Mid position OFF
- Centre Position off

TECHNICAL DATA

- | | |
|-----------------------------|-------------------------|
| ■ Standard: IS/IEC60947-3 | : 1999 |
| ■ No. of Pole | : 2P & 4P |
| ■ Rated operational voltage | : 240/415V |
| ■ Rated current | : 40A & 63A |
| ■ Rated frequency | : 50Hz |
| ■ Rated insulation voltage | : 660V |
| ■ Dielectric Strength | : 2.5KV |
| ■ Rated impulse Voltage | : 4KV |
| ■ Utilization Categories | : AC 22A |
| ■ Working Temperature | : -5°C to +55°C |
| ■ Mechanical Life | : 15000 |
| ■ Electrical Life | : 10000 |
| ■ Mounting | : Clip on din rail |
| ■ Mounting Position | : Vertical / Horizontal |
| ■ Terminal capacity | : 16mm ² |



DISTRIBUTION BOARD

Distribution Board is the composite system through which the power is distributed to various circuits received from a single source of supply. The Distribution Board comprises of an enclosure (Single Door or Double door), copper busbar, din rail, brass neutral links and earth links. It provides housing to protective devices such as Isolators, RCCBs, MCBs and becomes a complete power distribution system in itself.

The proper selection of DB is extremely important for the safety & reliability of installation. Following factors should be considered while selecting a DB.

- Installation type - Indoor/Outdoor
- Distributions circuit type

PCG make brings comprehensive range of premium distribution boards suitable for residential, commercial & industrial application. PCG DB are made up of superior steel which offers high impact & corrosion resistance and insulated neutral links adds the safety. PCG DB combines very well with MCB & RCB to provide comprehensive protection as a complete system.

Distribution boards suitable for residential, commercial & industrial applications.

1. PCG SPN / TPN Distribution Board Horizontal - Single & Double door
2. Metal & Plastic Enclosure
3. Plug and Socket DB



SPN SINGLE DOOR DISTRIBUTION BOARD WITH IP20 PROTECTION



SPN - SINGLE DOOR

DESCRIPTION	PRODUCT CODE	NO. OF MODULES (INCOMER +OUTGOING)	TOTAL MODULES
4 Way Single Door	PWPDBSPNSD04	4	4
6 Way Single Door	PWPDBSPNSD06	6	6
8 Way Single Door	PWPDBSPNSD08	8	8
12 Way Single Door	PWPDBSPNSD12	12	12
16 Way Single Door	PWPDBSPNSD16	16	16

SPN DOUBLE DOOR DISTRIBUTION BOARD WITH IP20 PROTECTION



SPN - BOUBLE DOOR

DESCRIPTION	PRODUCT CODE	NO. OF MODULES (INCOMER +OUTGOING)	TOTAL MODULES
4 Way Single Door	PWPDBSPNDD04	4	4
6 Way Single Door	PWPDBSPNDD06	6	6
8 Way Single Door	PWPDBSPNDD08	8	8
12 Way Single Door	PWPDBSPNDD12	12	12
16 Way Single Door	PWPDBSPNDD16	16	16

TPN SINGLE DOOR DISTRIBUTION BOARD WITH IP20 PROTECTION



TPN - HORIZONTAL SINGLE DOOR

DESCRIPTION	PRODUCT CODE	NO. OF MODULES (INCOMER +OUTGOING)	TOTAL MODULES
4 Way Single Door	PWPDBTPNSD04	8+12	20
6 Way Single Door	PWPDBTPNSD06	8+18	26
8 Way Single Door	PWPDBTPNSD08	8+24	32
12 Way Single Door	PWPDBTPNSD12	8+36	44

TPN DOUBLE DOOR DISTRIBUTION BOARD WITH IP42 PROTECTION



TPN - HORIZONTAL DOUBLE DOOR

DESCRIPTION	PRODUCT CODE	NO. OF MODULES (INCOMER +OUTGOING)	TOTAL MODULES
4 Way Double Door	PWPDBTPNDD04	8+12	20
6 Way Double Door	PWPDBTPNDD06	8+18	26
8 Way Double Door	PWPDBTPNDD08	8+24	32
12 Way Double Door	PWPDBTPNDD12	8+36	44

PLUG & SOCKET IP20 SINGLE DOOR



DESCRIPTION	PRODUCT CODE
SPN 20A	PWPDBACSPN20

METAL ENCLOSURE (WITH DIN RAIL)



DESCRIPTION	PRODUCT CODE
Single Pole / Double Pole	PWPDBESP/DP
Three Pole / Four Pole	PWPDBETP/FP



APPROVED DEPARTMENTS LIST

CONSTRUCTION MATERIAL PRODUCTS & TECHNOLOGY (EASTERN COMMAND)

Agra, Prayagraj, Lucknow, Kanpur

MES SOUTHERN COMMAND

Bikaner, Bathinda

MES CWE

Bareilly, Meerut Cantt, Dehradun, Pithoragarh

MES

Prayagraj, Gwalior, Agra, Lucknow

MES

Jodhpur, Jaisalmer, Ahmedabad

MES

Jabalpur, Mhow, Ranchi

MES EASTERN COMMAND

Kolkata

PWD

Lucknow

CPWD

Dehradun

PWD

Assam

and other departments...

