TOMPANY





بني ثقة تدوم

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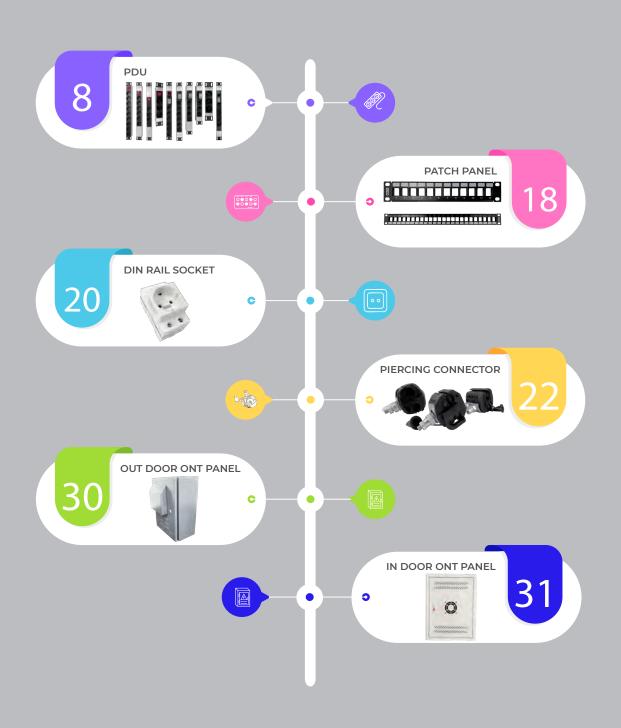
MHG is a leading Egyptian company dedicated to delivering the highest standards of quality in the field of electrical works and supplies. With a commitment to excellence,

MHG provides a comprehensive range of innovative solutions and products designed to meet the evolving demands of the engineering sector.

Our priority is achieving unparalleled customer satisfaction while adhering to the highest industry standards and addressing the growing needs of the market.



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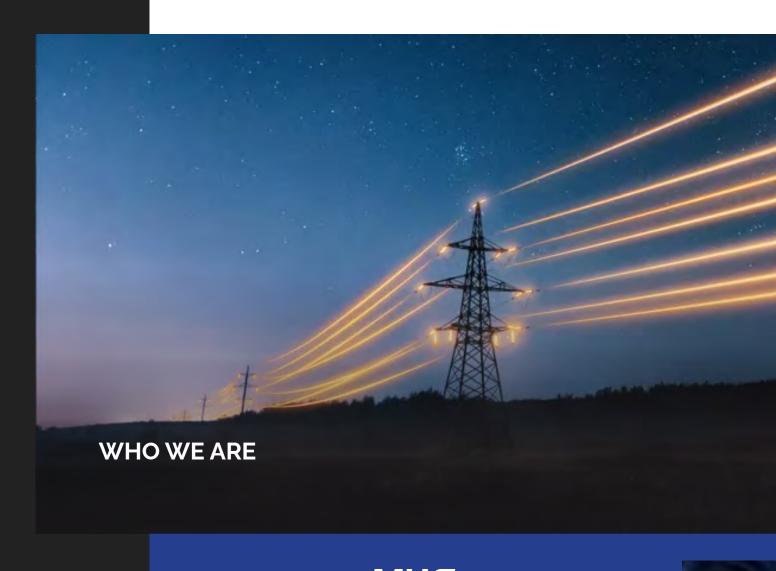


Thank you for choosing us, We know the value of each penny you spend on searching for good service. We appreciate you for trusting us..

Satisfying your needs is our mission



For Advanced Engineering Industries



MHG for Advanced Engineering Industries

MHG is a leading Egyptian company dedicated to delivering the highest standards of quality in the field of electrical works and supplies. With a commitment to excellence, MHG provides a comprehensive range of innovative solutions and products designed to meet the evolving demands of the engineering sector. Our priority is achieving unparalleled customer satisfaction while adhering to the highest industry standards and addressing the growing needs of the market.

نحـن شـركة مصريـة رائـدة تلتـزم بتقديـم أعلى معاييـر الجـودة في مجـالات الأعمـال الكهربائيـة والمعــدات. نســعى لتوفيـر حلــول ومنتجــات مبتكــرة وشــاملة تلبــي الاحتياجــات المتزايــدة فــى القطــاع المندســى، مــع ضمــان رضــا عملائنــا التــام والوفــاء بمعاييــر الصناعــة المتطــورة.





Our Vision

We strive to establish a clear and forward-thinking vision that guarantees client satisfaction and long-term loyalty. By ensuring every product we offer combines technical excellence, creative innovation, and social responsibility, we embrace a collaborative approach to deliver exceptional results across all projects.

نطمـح إلى بناء رؤية واضحة تضمـن رضا العمـلاء وولاءهـم على المـدى الطويل. من خـلال تقديـم منتجات تجمع بيـن التميز التقنـي، الابتـكار الإبداعـي، والمسـؤولية المجتمعيـة، نعتمـد على نهـج تعاونى لتحقيق نتائج اسـتثنائية في جميع مشـاريعنا.





Our Mission

نمـدف إلـى الريـادة فـي القطـاع الصناعـي مـن خـلال تجـاوز توقعـات عملائنـا عبـر الابتكار المتجـدد، تقديم حلـول متطورة، وخدمـة اسـتثنائية. نحـن ملتزمـون بـأن نكـون شـريكا موثوقًـا لعملائنـا مـن خلال تقديم القيمـة والتميز في كل مـا نقوم به. Our mission is to lead the industry by exceeding client expectations through groundbreaking innovation, state-of-the-art solutions, and exceptional service delivery. We are committed to becoming a trusted partner for our clients by consistently delivering value and excellence in everything we do.



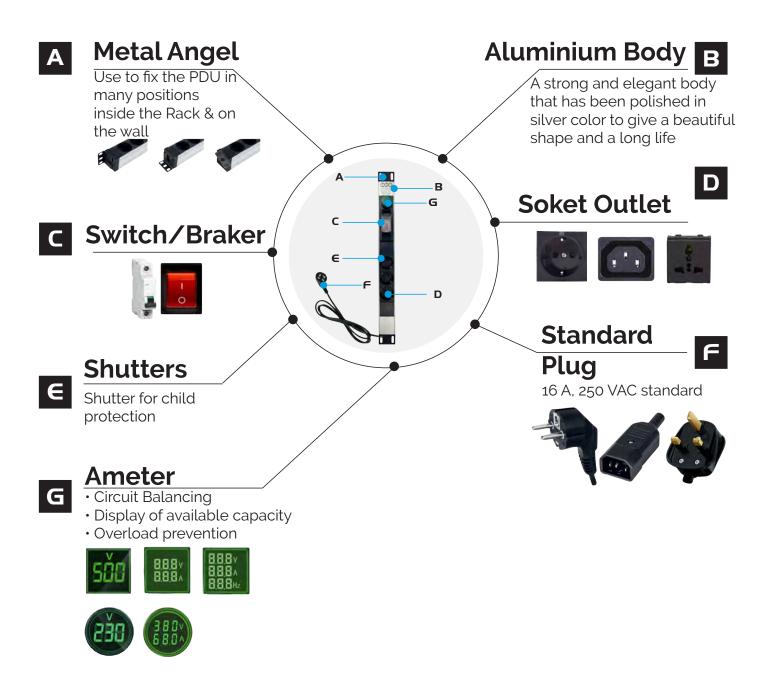
PDU Intelegence

Are designed for supplying power to equipment for incorporation into each of data center.

Within the rack, the PDU deliver the necessary power for the server and network components via a givin number of suitable connector sockets. Thanks to via a givin number of any IT rack may be quickly and easly equipped with a professional power distribution system, In addition to commercial and industrial uses.

PDU

Simple units that provide power distribution to multiple devices.





Applications:

- Offices: Powering multiple office equipment like computers, printers, and phones.
- Small Server Rooms: Basic power distribution to servers and networking equipment without the need for monitoring or control.
- Home Use: Providing additional power outlets for home electronics.





Power Distribution Units

(PDUS)

And their applications Design standards

POWER DISTRIBUTION UNITS (PDUS) ARE CRITICAL COMPONENTS IN MANAGING POWER DISTRIBUTION IN VARIOUS ENVIRONMENTS. THEIR APPLICATIONS VARY BASED ON THEIR TYPES AND THE SPECIFIC NEEDS OF THE FACILITY OR EQUIPMENT THEY SUPPORT. HERE ARE DETAILED DESCRIPTIONS OF THE MAIN TYPES OF PDUS AND THEIR APPLICATIONS:

Hozizontal or Vertical

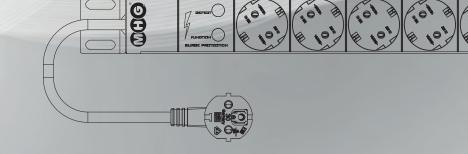






Designed for horizontal toolless mounting, 1-U PDU can also be mounted vertically simply by rotating the mounting lugs.

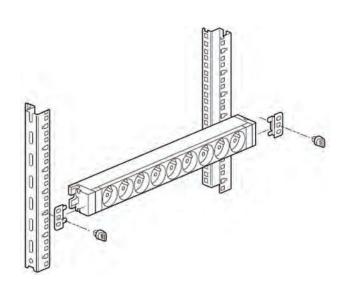
Vertical mounting requires a bolt and nut to fix the PDU securely to the racket.







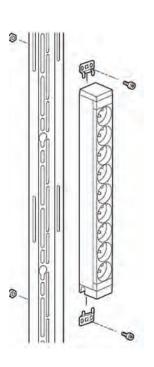
Mounting Brackets



Horizontal Mounting

In MHG 19" Cainnets

Can be mounted in all 19" cabinets except for 19" HD racks which require the use of equipment screws.

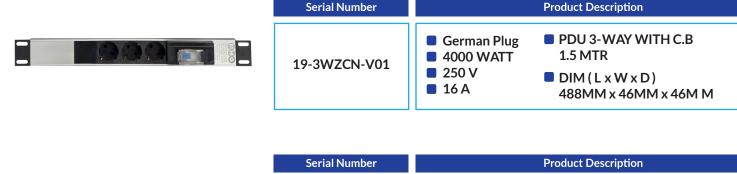


Vertical Mounting

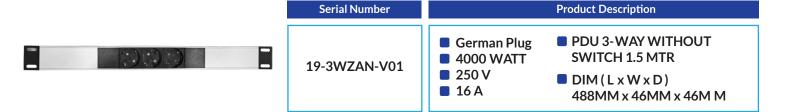
In freestanding Cabinets with support

UPGRADE TO THE

NEXT NERATION INTELLIGENT PDU'S



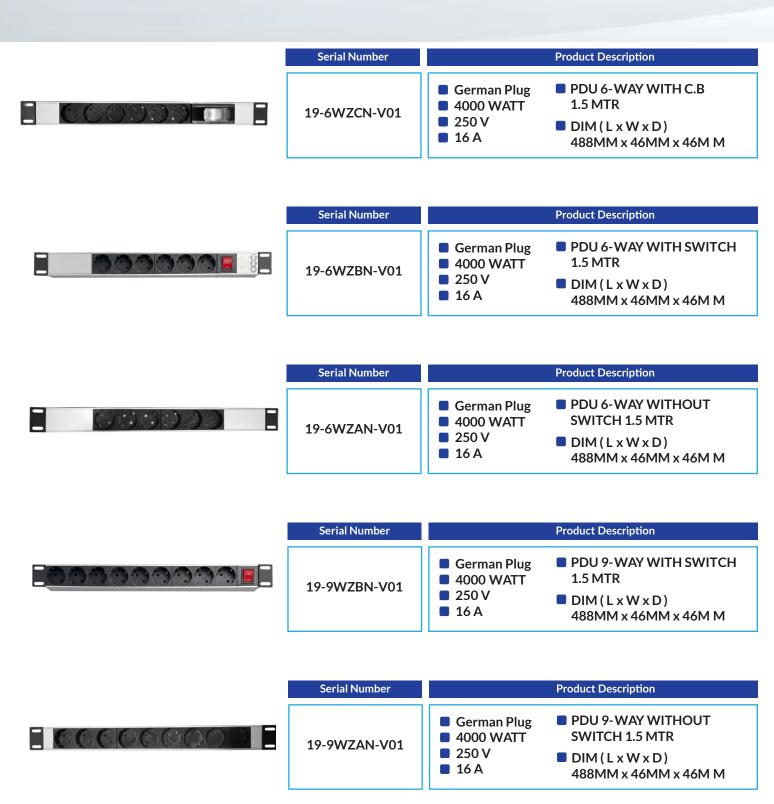




Basic Power Distributio Uits (PDU)

Comprehesive and Advaced Reliale Power Solution

Power Solution







Number

16-3WZCN-V01

Product Description

- German Plug4000 WATT
- 250 V
- 16 A
- PDU 3-WAY WITH C.B 1.5 MTR
- DIM (L x W x D) 430MM x 46MM x 46M M



Serial Number

16-3WZBN-V01

- German Plug
- 4000 WATT
- **250 V**
- 16 A

Product Description

- PDU 3-WAY WITH SWITCH 1.5 MTR
- DIM (L x W x D) 430MM x 46MM x 46M M



Serial Number

16-3WZAN-V01

- Product Description
- German Plug
- 4000 WATT
- 250 V16 A
- PDU 3-WAY WITHOUT SWITCH 1.5 MTR
- DIM (L x W x D) 430MM x 46MM x 46M M



Serial Number

16-6WZBN-V01

- - German Plug4000 WATT
 - 250 V
 - 16 A

Product Description

- PDU 6-WAY WITH SWITCH 1.5 MTR
- DIM (L x W x D) 430MM x 46MM x 46M M



Serial Number

16-6WZAN-V01

- - German Plug4000 WATT
 - 250 V
 - 16 A

Product Description

■ PDU 6-WAY WITHOUT SWITCH 1.5 MTR

DIM (L x W x D) 430MM x 46MM x 46M M

PDU for Data Ceter and IT nfrastructure

Serial Number





Serial Number Product Description German Plug 4000 WATT 250 V 16 A DIM (L x W x D) 347MM x 46MM x 46M M



10-3WZAN-V01	 German Plug 4000 WATT 250 V 16 A 	 PDU 3-WAY WITHOUT SWITCH 1.5 MTR DIM (L x W x D) 347MM x 46MM x 46M M
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Product Description

- Highest availability with the Kentix SmartPDU
- Seamless rack monitoring including early fire detection
- Reliable power supply for IT, OT, edge data centres and large data centres
- PDU without compromise for critical applications
- Continuous residual current measurement (RCM) to increase electrical safety and fire protection

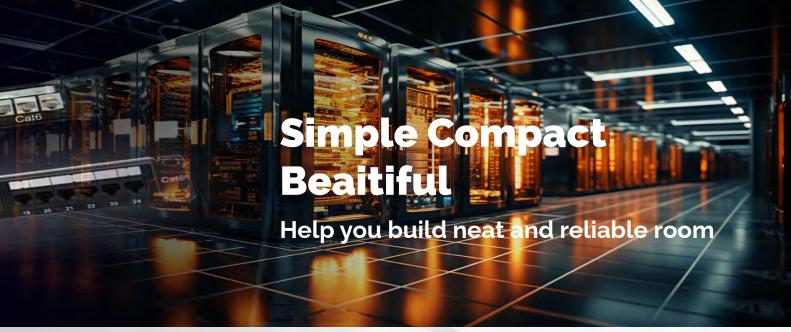






Main

Serial Number	PP6A-1U-12
Product or Component Type	Patch Panel
Communication Network Category	6
Accessory / Separate part Designation	Insulation Displacement Connector
Cable Shielding Type	UTP
Number of Port	12 / 24



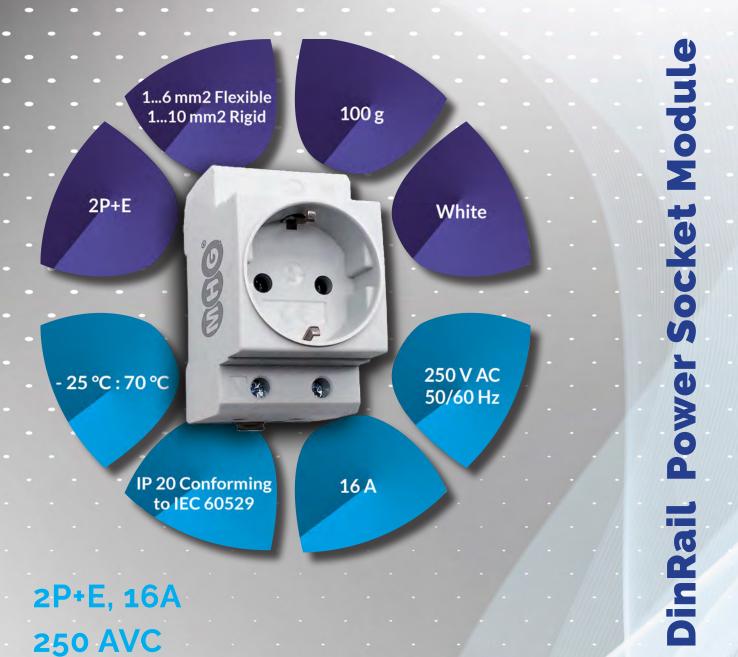


Complementary

Serial Number	PP6A-	1U-24
Product or Component Type	Patch	Panel
Communication Network Category	Steel	
Accessory / Separate part Designation	10 Inch W 254mm H 44.2mm	19 Inch W 482.6mm H 44.2mm
Cable Shielding Type	10 F	RJ45

Enviroment

Standards ANSI/TIA-568-C,2 ISO/IEC 11801 Class E EIA/TIA TSB 40 A



Main

Serial Number	MHG-PS16A-V01
Product or Component Type	DinRail Socket-Module
Poles Description	2P+E

Enviroment

Standards	VDE 0620 UNE 20315-1-1 IEC 60068-1
IP Degree of Protection	IP 20 Conforming to IEC 60529
Amient Air Temperature for Operation	- 25 °C : 70 °C



Complementary

[In] Rated Current	16 A
[Ue] Rated Operational Voltage	250 V AC 50/60 Hz
Mounting Mode	Fixed
Mounting Support	DIN Rail
Height	81 mm
Width	45 mm
Depth	55 mm
Net Weight	100 g
Color	White
Connections - Terminals	16 mm2 Flexible 110 mm2 Rigid

PIERCING CONNECTOR



Sion Waterproof

Anti-corrosion



Shockproof



Warranty



Product Overview:

The Insulated Piercing Connector (IPC) is an advanced engineering solution designed for efficient electrical connections without the need to strip cable insulation. Its waterproof, corrosion-resistant, and durable design ensures a reliable and long-lasting connection, making installation fast, secure, and hassle-free.

General Feature:

- Piercing connector, simple installation, need not strip the cable coat
- Moment nut, piercing pressure is constant, keep good electric connection and make no damage to conductor
- Self-seam frame, wetproof, waterproof, and anti corrosion, extend the using life of insulated lead and connector
- · Adopted special connecting tablet apply to joint of Cu(AI) and AI
- Small electric connecting resistance, impulse current can be up to 15KA
- Special insulated case body, resistance to illumination and environmental aging, the insulation strength can up to 6KV, Arc surface design, apply to connection with the same(different) diameter, wide connection scope(1.5-240mm2).

1 Bolt 1KV Series



The Insulated Piercing Connector (IPC) is an advanced engineering solution designed for efficient electrical connections without the need to strip cable insulation. Its waterproof, corrosion-resistant, and durable design ensures a reliable and long-lasting connection, making installation fast, secure, and hassle-free.

Raw Materials and Their Properties

To ensure superior performance, the Insulated Piercing Connector (IPC) is manufactured using high-quality materials that provide durability, electrical conductivity, and resistance to environmental factors.

Torque Nut



•Function & Importance

The torque nut is a critical component of the Insulated Piercing Connector (IPC).

It ensures consistent and precise tightening, preventing over-tightening or under-tightening, which could compromise the electrical connection.

Designed to shear off at a pre-set torque, guaranteeing optimal contact pressure.

Eliminates the need for torque wrenches, ensuring easy and reliable installation.

Prevents conductor damage and ensures long-term performance.

Sealing & Waterproofing Components:

Material: Silicone Rubber or Thermoplastic Elastomer (TPE)

Key Properties:

Ensures IP67 waterproofing to prevent moisture ingress.

Provides electrical insulation, protecting against short circuits.

Highly flexible, allowing for a secure, tight fit around cables.



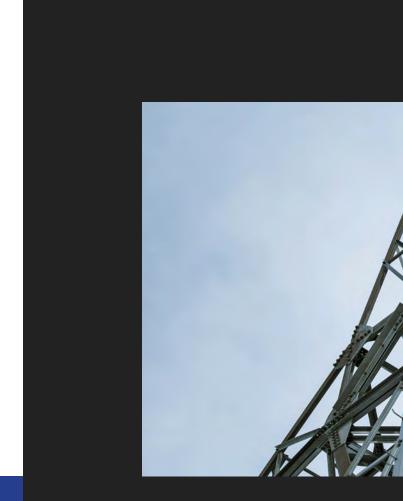
KEY FEATURES & BENEFITS:

01

Easy Installation – No need to strip the cable insulation.

02

Consistent Contact Pressure Ensures a reliable and durable electrical connection.



KEY FEATURES & BENEFITS:



Superior Protection – Waterproof, moisture-resistant, and UV-resistant for enhanced durability.

04

Versatile Application – Suitable for both aluminum-to-copper and copper to aluminum connections.

05

High Electrical Performance – Low contact resistance for optimal conductivity.

06

Excellent Insulation Strength – Withstands voltages up to 12 kV, ensuring safety and reliability

Testing & Performance Standards:

- Mechanical Strength: The clamping force exceeds of the conductor's breaking strength, ensuring a secure connection.
- Thermal Stability: Designed to withstand high current loads while maintaining temperature stability.
- Environmental Resistance: Built to endure extreme weather conditions, including moisture, salinity, and UV exposure, making it ideal for outdoor applications.
 - Fire Resistance: Made from flame-retardant insulating materials for enhanced safety.



Bolts And Gaskets

Material: Hot Dip Galvanized Steel

Key Properties:

High tensile strength to withstand mechanical stress.

Corrosion resistance, especially in marine or high-humidity environments.

Anti-rust coating ensures a longer lifespan.



INSULATION BODY & HOUSING:

Material: Glass-Fiber Reinforced Polyamide (PA66)

Key Properties:

High mechanical strength and impact resistance.

Excellent thermal stability, capable of withstanding extreme temperatures.

UV-resistant for long-term outdoor durability.

Flame-retardant properties for fire safety compliance.



RED COPPER BLADE

This bimetallic connector is specifically engineered to work seamlessly with both aluminum and copper cables, eliminating compatibility concerns and enhancing its versatility for various electrical applications.

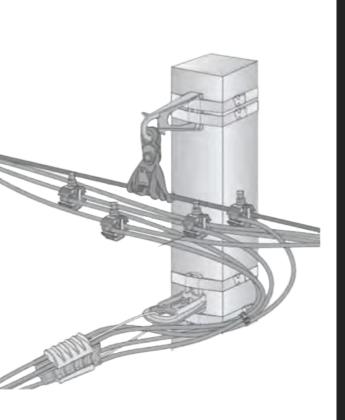
INNOVATIVE USE OF TIN COATING:

- The contact blade is coated with tin to prevent direct electrochemical reactions between copper and aluminum, when these metals come into direct contact, they are prone to galvanic corrosion, leading to rapid degradation.
- From a chemical perspective, tin (Sn) belongs to Group 14 of the periodic table, the same group as lead (Pb) and silicon (Si). It is known for its high resistance to oxidation and low reactivity with both aluminum and copper.
 Why Tin? Tin has a stable oxide layer (SnO₂), which prevents further oxidation and
- Why Tin? Tin has a stable exide layer (SnO₂), which prevents further oxidation and chemical reactions with other metals.
- Why Not Direct Copper-Aluminum Contact? When aluminum and copper come into direct contact, a galvanic couple forms due to their different electrochemical
- potentials, accelerating corrosion and failure of the connection.
- Tin as a Protective Barrier: Since tin is chemically more stable and does not easily form galvanic couples with either aluminum or copper, it acts as an intermediate layer, effectively preventing corrosion and ensuring long-term electrical stability.



THIS BIMETALLIC CONNECTOR IS SPECIFICALLY ENGINEERED TO WORK SEAMLESSLY WITH BOTH ALUMINUM AND COPPER CABLES, ELIMINATING COMPATIBILITY CONCERNS AND ENHANCING ITS VERSATILITY FOR VARIOUS ELECTRICAL APPLICATIONS.

Installation



General Features of insulation piercing connector (IPC)

- Piercing connector, easy installation, no need to strip the cable insulatio.
- Torque nut, constant piercing pressure, Ensures good electrical connectin and does not damaged the conductor Self-sealing frame, waterproof, moisture-proof,
- anti-corrosion, extends the service life of insulated conductor and the connector.
- Special connecting plate, suitable for joint of Cu (AI) and Cu (AI) or Cu and AI.
- Low electrical resistance, resistance less than 2.5 times of the resistance of the branch.
- Special insulated case body, resistance to sunlight ad environmental aging, the insulation strength ca reach 12KV.
- Arc Surface design, applicable to connection with the same (different) diameter, wide connection range 0.75mm2 400mm2/td

PERFORMANCE TESTING

- Mechanical performance the grip force of the wire clamp is 1/10 larger than the breaking force of the conductor, it complies with EN50483
- Temperature rise performance: under the condition of high current, the temperature rise of the connector is lower than that of the connection conductor.
- Thermal cycle performance: conforms to GB/T2317.3-2000, thermal cycle test standard for electrical fittings.
- Waterproof Insulation performance: confirms to the relevant testing requirements in part 2 of GB/1-13140.4-1998.
- Resistance to corrosion performance: under the condition of acid and salt spray, it can withstand three cycle of fourteen days testing.



- Environment aging performance: under the condition of ultraviolet, radiation, dry ad moist, expose it to temperature changes and heat impulses for six weeks.
- Fire-Proof performance: insulation material of the connector passing glowing filament test.
- Conforms to the requirement in chapter 4-10 of GB/T5169.4 6 Screw the nut continuously until the top is cracked and dropped down.

Important Usage Notice:

For optimal performance and maximum efficiency, this IPC should be used exclusively with single-insulated cables to guarantee perfect electrical contact and long-term durability.



Description

Open and close door is smoothly when thhe door closed, the gap between door and framme is uniformmity.

Width mm.: 400 | Height mm.: 400 | Depth mmm.: 212 Ventilation Rate: >= 80%

Pre-Galvanized & Electrostatic Paint

Grounding requirement: The resistance is less thhan 0.01 Ω between metal parts and grounding components



Description

Open and close door is smoothly when the door closed, the gap between door and frame is uniformmity.

Width mm.: 606 | Height mm.:

450 | Depth mmm.: 130

Sheet Metal Thicknes: 1.5 mm

Compatible with: Patch Panel 19" - PDU 19"

Pre-Galvanized & Electrostatic Paint





























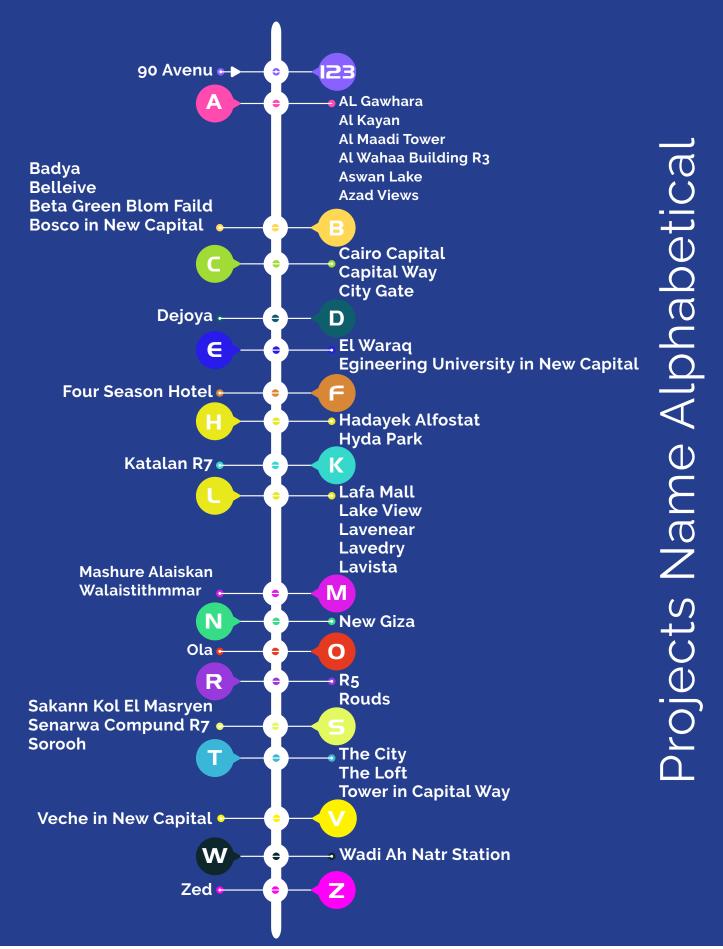








Data Reference List





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