

منتجات مصنع زكا، سنز للبلاد ستيك



PLASTIC PIPES & FITTINGS

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## ELECTRICAL CONDUIT PIPES

### PVC ELECTRICAL CONDUIT PIPES & FITTING

THE POSITIVE CHOICE FOR DOMESTIC,  
COMMERCIAL & INDUSTRIAL WIRING



ZAKA SONS

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ABSOLUTELY COMPLETE SYSTEM

## PVC ELECTRICAL CONDUIT PIPES & FITTINGS

### SUPPLIES FOR ALL YOUR PVC ELECTRICAL CONDUIT NEEDS

**PAKARAB** is a leading manufacturer of PVC products, electrical conduit pipes & fittings. Our modern facility in Karachi has all-new, state of the art production lines, we are a company built with pride and experience providing in the field of PVC pipes manufacturing in Pakistan.

### PVC ELECTRICAL CONDUIT PIPES & FITTINGS

Zaka Sons also offer PakArab PVC electrical conduit pipes, which are designed and developed as per BS-6099/PS-1905. These pipes are widely used for open and concealed wiring in houses & commercial buildings, industries, traffic signals and street lights. Concealed electrical wiring has become the norm of the day in modern construction. For safe and secure installation, conduit pipes of different strengths are used to encase the wiring and placed in grooves carved on the brick surface, before the walls and ceilings are plastered and cemented. Since the conduit pipes are inlaid, they should remain intact for the life of the building. In this aspect, a brand that stands out from the crowd is PakArab. Ensuring safety from electrical and fire hazards, PakArab PVC electrical conduit pipes also stand the test of time against all kind of weather conditions.



### SALIENT FEATURES OF PVC ELECTRICAL CONDUIT PIPES

- Strong and Durable: The electrical conduits are strong and unaffected by the weather conditions.
- Light Weight & Flexible: These are easy to handle and join.
- Resistant to: Wear and abrasion, water, rusting.
- Safe: These are fire resistant with very less electrical conductivity.
- Excellent Surface: Have smooth internal and external surface.
- Cost saving: These are economical.
- Temperature Stability: Can cope with widely fluctuating temperatures (-20 A ^ C to 60 A ^ C) thus resistant to extreme weather conditions and UV stabilized.
- Smoke suppressing: Manufactured from special PVC alloy, which ensure little or no \ release of smoke/toxic fumes if fire breaks out.
- Non-conductive: Nonconductor of electric.
- Easy passage of maximum size and number of cables permitted.



- Flame resistant: Manufacture out of self-extinguishing PVC Material.
- Properties: can hold outstanding physical, thermal and electrical properties.

### PAKARAB APPLICATIONS OF PVC ELECTRICAL CONDUIT PIPES

- Domestic: open and concealed wiring in houses, residential and commercial buildings.
- Industrial: open and concealed wiring in industrial plants and factories.
- Others: traffic signals connections, street light and wiring at public places.

### ADVANTAGES

- **Easy installation and no maintenance:** (Rigid) PVC conduits can be separated and jointed without difficulty. Bends can be made by heating.
- **Non corrosive and fire resistant:** PVC pipes are free from rust and are not attacked by corrosive, salty atmosphere and excessive humidity. Rigid PVC conduits are fire retardant and self-extinguishing. Hence they are less hazardous and safer than other thermoplastic pipes.
- **High Compression strength:** PVC pipes have best mechanical strength and can be used both in open and concealed installations.
- **Conductivity and Non-Conductor:** The electrical conductivity of PVC is nil and there fore it is most suitable for electrical conduits. PVC is also a non-conductor of electricity and as such Rigid PVC conduits and electrical conduits prevent electrical shock and short circuits.

### QUALITY ASSURED:

PakArab produces a wide range of pipes and fittings for Electric and Telecommunication companies, in addition to electrical merchants, throughout Pakistan. Quality is one of the back bone, which has been built upon regular staff training coupled with the latest technologies, ensuring that high levels of quality are achieved in all departments. PakArab listens closely to the needs of its customers, as a result, high service levels are achieved in additions to custom designs solution for special application, PakArab is well recognized for its capabilities to fulfil the need of Pakistan construction industry.

### PVC ELECTRICAL CONDUIT PIPES & FITTINGS

#### BS 6099

Nominal Size Inches	Outside Diameter mm		Thickness mm	Weight kg/m
	min	max		
1/2	17.00	17.30	1.04	0.086
3/4	21.20	21.50	1.25	0.125
1	26.60	26.90	1.33	0.173
1-1/4	33.40	33.70	1.51	0.245
1-1/2	42.10	42.20	1.86	0.398
2	60.20	60.50	2.04	0.612
3	89.70	89.10	1.80	0.798
4	114.10	114.50	1.90	1.032

Dielectric Constant Test Cycle : 50 c/s	5.1 - 5.25
Dielectric Power Factor Test Cycle : 50 c/s	0.1 - 0.146
Shoering - Bridge Method Specific (Volume) Resistance	1.273 X 10 <sup>13</sup> Ω - cm
Electronic Insultation Resistance A1 DC 1000 Volt	
Critical Supported Voltage	
AC 50 CS 11 KV One Minute	No Change

