

**POPULAR**<sup>TM</sup>

**ELECTRICAL &  
NON PRESSURE**

*Products*



# WORDS OF FOUNDING FATHER

Pipe Industry in Pakistan was Revolutionized in 1975 by the Vision of Late Haji Sheikh M. Rafiq.

“Pipe is an element of great significance in the construction industry but it lacks the desired quality. Hence, there is a need to introduce high quality pipes in the construction sector as the idea is to change the value system as a whole.

– Late Haji Sheikh M. Rafiq (RA)

 **5 Decades**  
of Winning Trust &  
Confidence of Pakistanis

 **Production**  
State of the Art  
Facility with Latest  
Technology

 **Leader**  
with Widest  
Business Network

## PROUDLY EXPORTING FROM PAKISTAN TO

 **UK** |  **UAE** |  **KSA** |  **OMAN**

— Internationally Certified —



## Approvals & Certifications

- Infrastructure Development Authority (IDAP)
- Communication & Works Department (C&W)
- Housing Urban Development (HUD)
- Public Health Engineering Department (PHED)
- Lahore Development Authority (LDA)
- National Highway Authority (NHA)
- Sui Northern Gas Pipelines Limited (SNGPL)
- National Engineering Services of Pakistan (NESPAK)
- Pakistan Standards and Quality Control Authority (PSQCA)
- Pakistan Engineering Council (PEC)
- Intellectual Property Organization Pakistan
- The Lahore Chamber of Commerce & Industry
- Frontier Works Organization (FWO)
- Army Housing Directorate - AG's Branch General Headquarters, Rawalpindi
- Military Engineer Services, Pakistan (MES)
- DHA Karachi, Lahore, Multan, Bahawalpur, Gujranwala, Islamabad, Peshawar and Quetta
- Fauji Foundation
- Pakistan Atomic Energy Commission
- National Textile University, Karachi
- University of Engineering and Technology Lahore (UET)



# POPULAR™

## ELECTRICAL *Products*

ABOVE **50** YEARS SERVICE LIFE



# Electrical Conduit Pipes & Fittings

**PS-1905 Equivalent to BS-6099**

High Mechanical Strength  
Prevent Electrical Shocks  
Self Extinguishing  
Durable | Non-Conductive | Smooth Interior

### MATERIAL PROPERTIES

Unplasticized Polyvinyl Chloride (UPVC)

Specific Gravity	1.42 - 1.46	gm/cm <sup>3</sup>
Flammability	Self Extinguishing	-

### Dimensions & Wall Thickness As Per PS 1905 / BS 6099

Nominal Size (Inch)	Outer Dia (mm)		Length	Wall Thickness (mm)		Pipes / Bundle
	Min	Max		Min	Max	
1/2"	17.2	17.5	10 (ft)	1.0	1.2	100
3/4"	21.2	21.5	10 (ft)	1.1	1.3	50
1"	26.6	26.9	10 (ft)	1.2	1.4	50
1-1/4"	33.4	33.7	10 (ft)	1.4	1.7	35
1-1/2"	42.2	42.5	10 (ft)	1.6	1.8	25
			13 (ft)			
2"	60.2	60.5	10 (ft)	1.7	1.9	20
			13 (ft)			



# POPULAR™

## ELECTRICAL Products

# No More Electrical Losses!

## Cables

POPULAR CABLES 7/0.029" 5-CORE PVC-INS 250/440V BS:2004

British Standards / IEC Specifications

BS-3360      BS-2004

BS-6360      BS-6004

IEC-60228

With **99.99% PURE COPPER**

**CHOOSE WISE, CHOOSE RIGHT**



LET THE FIGURES VOUCH FOR OUR DEDICATION TO

# EXCELLENCE

In simplified terms, **Stranding Refers to Twisting.**

A single clockwise rotation is termed a 'Pitch.'



### Copper Grade

LME grade copper  
99.99% Conductivity

### Production

**Stranding**  
Minimum  
Pitch

**Insulation**  
Maximum Insulation  
Thickness

### PVC

**Virgin PVC**  
In house PVC  
compounding unit

**Using Au 72  
Value PVC  
Resin**

Our preference for AU-72 is directly linked to the enhanced properties, leading to **Higher Operating Temperature, Emergency Overload Temperature, and Short Circuit Temperature.**



## OUR CABLES HAVE SUCCESSFULLY MET



**ALL THE REQUIRED  
STANDARDS AND QUALIFICATIONS  
IN EVERY TEST!**



# PVC INSULATED, NON-SHEATED GENERAL PURPOSE CABLE

Conductor - Class 1 Copper, solid, or class 2 copper, stranded, as indicated below

Insulation - PVC type TI 1

Colors - Red, Yellow, Blue, Green, Black

Nominal cross-sectional area (mm <sup>2</sup> )	Class Of Conductor	Number and nominal diameter (mm)	Nominal conductor diameter (mm)	D.C.R at 20°C Ω/KM	Nominal Copper Weight (Kg/Km)		Radial thickness of insulation (mm)	Mean overall diameter		Approx cable weight Kg/Km	Current Rating (Amp)		Voltage Drop mV/A/m
					Solid	Stranded		Lower Limit (mm)	Upper limit (mm)		Single Phase	Three Phase	
0.5	1	1/0.80	0.8	36.00	4.50	N/A	0.60	1.90	2.30	7.7028	11	9	76
0.5	2	7/0.31	0.93		N/A	4.80		2.00	2.40		8.1912		
0.75	1	1/0.97	0.97	24.50	6.60	N/A	0.60	2.10	2.50	10.1796	15	12	62
0.75	2	7/0.37	1.11		N/A	6.90		2.20	2.60		10.668		
1	1	1/1.13	1.13	18.10	9.00	N/A	0.60	2.20	2.70	12.9564	19	15	44
1	2	7/0.44	1.32		N/A	9.70		2.30	2.80		13.8448		
1.5	1	1/1.38	1.38	12.10	13.30	N/A	0.70	2.60	3.20	18.795	24	18	29
1.5	2	7/0.53	1.59		N/A	14.00		2.70	3.30		19.7148		
2.5	1	1/1.77	1.77	7.41	21.90	N/A	0.80	3.20	3.39	28.40608	32	26	18
2.5	2	7/0.67	2.01		N/A	22.40		3.30	4.00		30.4384		
4	1	1/2.24	2.24	4.61	35.00	N/A	0.80	3.60	4.40	44.0432	42	34	11
4	2	7/0.85	2.55		N/A	36.10		3.80	4.60		45.6456		
6	1	1/2.74	2.74	3.08	52.40	N/A	0.80	4.10	5.00	62.9504	54	44	7.3
6	2	7/1.04	3.12		N/A	54.00		4.30	5.20		65.0528		
10	1	1/3.56	3.56	1.83	88.40	N/A	1.00	5.30	6.40	105.356	73	61	4.4
10	2	7/1.35	4.05		N/A	90.80		5.60	6.70		108.698		
16	1	1/4.48	4.48	1.15	140.00	N/A	1.00	6.32	6.48	157.2072	98	82	2.8
16	2	7/1.70	5.1		N/A	145.00		6.40	7.80		166.352		



Pakistan Council of Scientific & Industrial Research



Pakistan Standards & Quality Control Authority



Advanced Certification ISO 45001:2018 & UKAS 8872



ISO 9001:2015 Certified



ISO 14001:2015 Certified



University of Engineering and Technology Lahore



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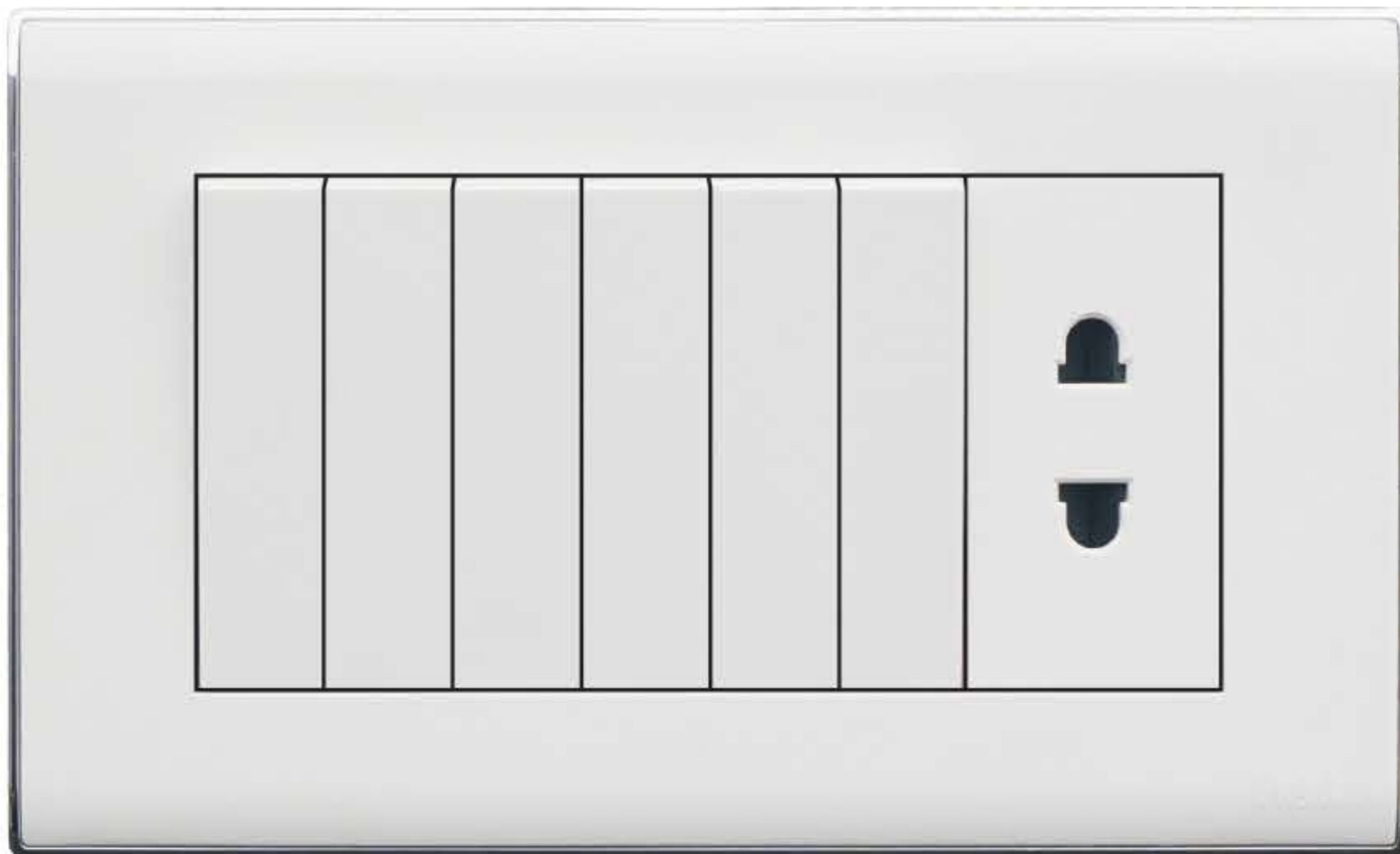
## ELECTRICAL Products



# Cable Trunk Double Lock System

IEC 61084-2-1

Size Range: 16x16mm - 100x100mm



# Switch & Socket

Pro White Series

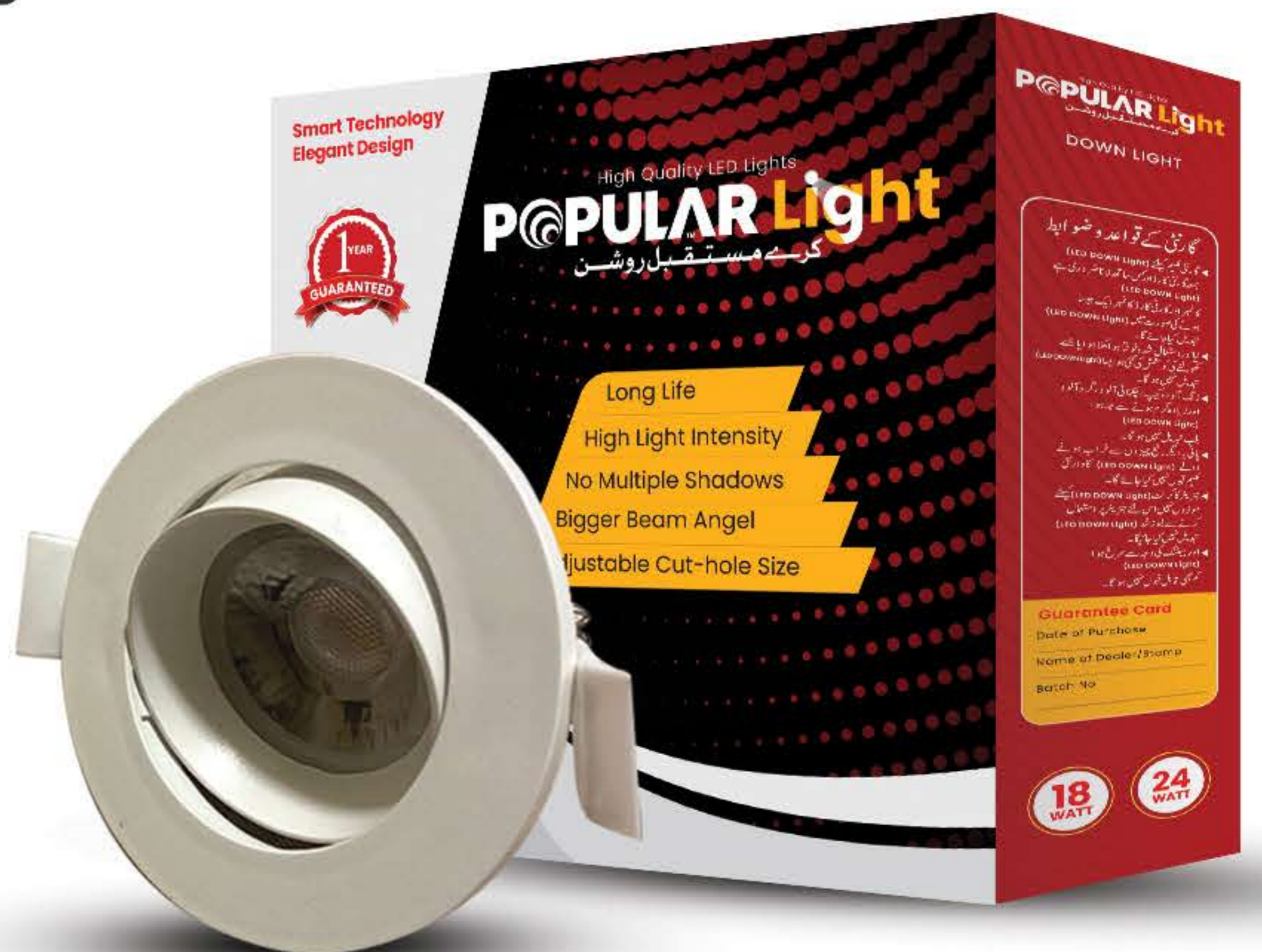
IEC 60069-1 / IEC 60884-1

The Safe Way is  
The Best Way

# Light

80% Energy Saving

- SMD Downlight
- Light Panel
- Ice Panel
- Flood Lights
- COB





# POPULAR™

## NON PRESSURE Products

ABOVE **50** YEARS SERVICE LIFE



## U-PVC Soil Waste & Vent System Super Flow

BS EN-1329 B & BD Series

Smooth flow due to swept angle  
Free from decomposition  
Non Corrosive  
Durable | Light Weight

### MATERIAL PROPERTIES

Unplasticized Polyvinyl Chloride (UPVC)		
Specific Gravity	1.42 - 1.46	gm/cm <sup>3</sup>
Flammability	Self Extinguishing	-

### SUPER FLOW B - SERIES

Size	Outer Dia (mm)		Wall Thickness (mm)		No. Of Pipes / Bundle
	Min	Max	Min	Max	
36 mm	36.2	36.5	3.00	3.50	20
43 mm	42.8	43.1	3.00	3.50	15
56 mm	56.00	56.40	3.00	3.40	10
63 mm	63.00	63.40	3.00	3.40	10
160 mm	160.00	160.40	3.20	3.50	1

### SUPER FLOW BD - SERIES

Size	Outer Dia (mm)		Wall Thickness (mm)		No. Of Pipes / Bundle
	Min	Max	Min	Max	
82 mm	82.00	82.40	3.00	3.40	7
90 mm	90.00	90.40	3.00	3.40	5
110 mm	110.00	110.40	3.20	3.50	5
160 mm	160.00	160.50	4.00	4.60	1



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## NON PRESSURE *Products*

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## U-PVC Underground Drainage Pipes SN Series

**BS EN-1401**

Resistant to chemicals & gases found in sewage  
Quality finish ensuring smooth flow  
Durable  
Light weight and easy to install

### MATERIAL PROPERTIES

Unplasticized Polyvinyl Chloride (UPVC)		
Specific Gravity	1.42 - 1.46	gm/cm <sup>3</sup>
Flammability	Self Extinguishing	-

### U-PVC Underground Drainage Pipes SN Series As Per BS EN-1401

Nominal outside Diameter (mm)	Stiffness Class SN-4 SDR 41		Stiffness Class SN-8 SDR 34	
	e (min)	e (max)	e (min)	e (max)
110	3.2	3.8	3.2	3.8
160	4	4.6	4.7	5.4
200	4.9	5.6	5.9	6.7
250	6.2	7.1	7.3	8.3
315	7.7	8.7	9.2	10.4
355	8.7	9.8	10.4	11.7
400	9.8	11	11.7	13.1



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For Residential, Commercial  
and Sewer Runoff System.

**ASTM D-2729**

Free from decomposition  
Smooth & Pleasant Look  
Durable | Light Weight  
Resistant to chemicals found in domestic effluent

### MATERIAL PROPERTIES

Unplasticized Polyvinyl Chloride (UPVC)		
Specific Gravity	1.42 - 1.46	gm/cm <sup>3</sup>
Flammability	Self Extinguishing	-

### Tarsil Series As Per ASTM D-2729

Nominal Pipe Size (in)	Wall Thickness (mm)	Pipes / Bundle
2"	1.78	15
3"	1.78	7
4"	1.90	5
5"	2.27	1
6"	2.54	1

### Significance and Use

The pipe and fittings in this specification are designed and have the physical, chemical, and other properties for sewer and drainage applications. The following lists the typical applications for the sewer and drain pipe:

- Land drainage standard and perforated
- Storm drainage standard and perforated
- House connections to septic tanks standard
- Industrial waste disposal standard and perforated
- Building sewers and underground drains standard
- Footing drains (foundation drains) standard and perforated
- Leaching system piping for septic tank effluents standard and perforated



# POPULAR™

## NON PRESSURE Products

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## U-PVC O Class

Pipes & Fittings

**BS-3506**

**Gravity Flow Application**

Free from decomposition

Non Corrosive

Durable | Light Weight

Self-Extinguishing

### MATERIAL PROPERTIES

Unplasticized Polyvinyl Chloride (UPVC)

Specific Gravity	1.42 - 1.46	gm/cm <sup>3</sup>
Flammability	Self Extinguishing	-

### U-PVC O Class Pipes As Per BS-3506

Nominal Size (inches)	Outer Dia		Wall Thickness (mm)		No. Of Pipes / Bundle
	Min	Max	Min	Max	
1-1/2	48.10	48.40	1.80	2.20	25
2	60.20	60.50	1.80	2.20	15
3	88.70	89.10	1.80	2.20	7
4	114.10	114.50	2.30	2.80	5
5	140.00	140.40	2.60	3.10	1
6	168.00	168.50	3.10	3.70	1
8	218.80	219.40	3.10	3.70	1
10	272.60	273.40	3.10	3.70	1
12	323.40	324.30	3.10	3.70	1
14	355.00	356.00	3.70	4.20	1



# POPULAR™

## GARDENIA *Products*



## PVC Garden, Gas & Level Pipes

Garden Pipe

Size Range: 1/2" 2.0 mm to 2" 5.0 mm

Gas Pipe

Size Range: 12.5 mm 2.0 mm to 15.5 mm 3.5 mm

Level Pipe

Size Range: 8.5 mm 1.3 mm



## Solvent Cement ASTM D-2564



Range: 25 gm | 50 gm | 75 gm  
125 gm | 250 gm | 500 gm

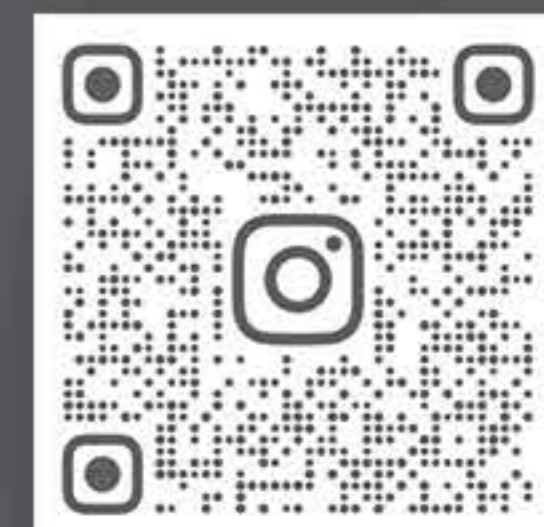




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