



# PERMALINE

uPVC ELECTRICAL CONDUIT SYSTEM



## Application

ATLANTA PERMALINE is highly suitable for the protection of electrical wires and cables. It comes with thick wall, which is recommended for exposed and embedded application, respectively. Conforms to the specifications of the Bureau of Products Standards, PNS 14.

## Advantages



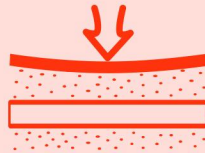
### Dielectric Strength

It can withstand 2000 volts of substantially sine-wave form and having a frequency of 60hz, for 15 minutes between electrodes.



### Resistance to Burning

It is fire retardant and suitable for exposed piping.



### Compression Resistance

It can withstand impact stress and direct pressure.



### Weather Proof

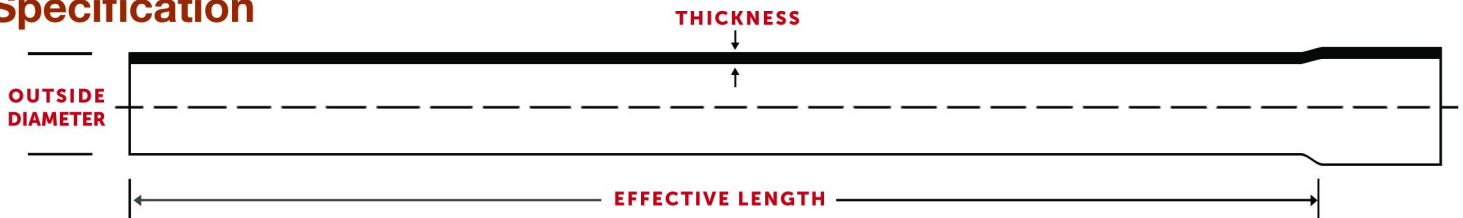
It can retain all properties under any weather condition.



### High Insulation

Being an insulator, it prevents grounding and short circuit. Has insulation resistance of > 100 Ω

## Specification




### THICK WALL

OUTSIDE DIAMETER (mm)	NOMINAL SIZE (inches)	EFFECTIVE LENGTH (m)	WALL THICKNESS	
			MIN	MAX
20	1/2	3	2.2	2.62
25	3/4	3	2.3	2.73
32	1	3	2.4	2.84
40	1 1/4	3	2.4	2.84
50	1 1/2	3	2.4	2.97
63	2	3	2.5	2.98
75	2 1/2	3	2.9	3.39
90	3	3	3.5	4.02
110	4	3	4.2	4.82
160	6	3	6.1	6.91
225	8	3	10.8	12.5

# GENERAL PROPERTIES

PARAMETERS	TEST METHOD	SPECIFICATION	ACTUAL VALUE
Specific Gravity	ASTM D792	-	1.43
Vicat Softening, °C, min.	ISO 2507	≥76	81.3
Water Absorption	ISO 2508 / ISO 8361	max of 40 g/m <sup>2</sup>	2.32
Pipe Stiffness	ASTM D2412	Minimum of 415kPa at 5.0% deflection	1426kPa
Dielectric Strength	PNS 14:2019 Annex B	2000V, 50 Hz to 60 Hz for 15 minutes.	No breakdown occurred at 2000V
Insulation Resistance	PNS 14:2019 Annex B	>100 MΩ	>100 MΩ
Tensile Strength @ 28°	ISO 6259 / ASTM D638	min of 27.6	41.4
Elongation at Break, %	ISO 6259 / ASTM D638	min of 15%	154.00%
Resistance to Burning	PNS 14:2019	Flame Shall extinguish in less than 30s	Flame Extinguish Instantaneously
Heat Reversion Test	ISO 2505	≤5.0%	2.50%
Resistance to Acetone / Dichloromethane	ISO 3472 / ISO 9852	No Delamination	No Delamination
Impact Strength	ISO 3127:1980	TIR% max - 10%	0% at specified impact strength
Flattening	PNS 14:2019	No splitting or cracking	No splitting or cracking

### CONDUIT ELBOW



mm	in
20	1/2
25	3/4
32	1
40	1-1/4
50	1-1/2
63	2
75	2-1/2
90	3
110	4
160	6


### END CAP



mm	in
20	1/2
25	3/4
32	1
40	1-1/4
50	1-1/2
63	2
75	2-1/2
90	3
110	4
160	6
225	8

(1/2" - 3/4")  
(1" - 8")

### COUPLING



mm	in
20	1/2
25	3/4
32	1
40	1-1/4
50	1-1/2
63	2
75	2-1/2
90	3
110	4
160	6

(1/2" - 2")  
(2-1/2" - 6")

### MALE ADAPTER



mm	in
20	1/2
25	3/4
32	1
40	1-1/4
50	1-1/2
63	2
75	2-1/2
90	3
110	4
160	6


(1/2" - 2")  
(2-1/2" - 6")

### JUNCTION W/ COVER




SIZE	H
44mm	

### UTILITY BOX



SIZE	L	W	H
108mm		58mm	45mm

### ENDBELL




mm	in
20	1/2
25	3/4
32	1
40	1-1/4
50	1-1/2
63	2
75	2-1/2
90	3
110	4
160	6
225	8

### ELBOW LONGSWEEP 90°



SIZE	4 x 90° (DH) x 0.50M	4 x 90° (DH) x 0.90M	4 x 90° (SH) x 0.90M	4 x 90° (DH) x 1.00M	4 x 90° (SH) x 1.00M

### ELBOW LONGSWEEP 45°




SIZE	4 x 45° (DH) x 1.00M	4 x 45° (SH) x 1.00M

### LOCKNUT W/ BUSHING



SIZE	1/2

### PIPE CLAMP W/ CONCRETE NAIL



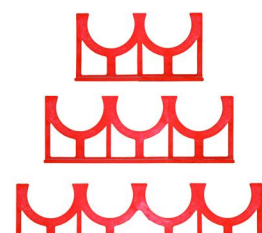
SIZE	20mm	25mm	32mm

### SOLVENT CEMENT



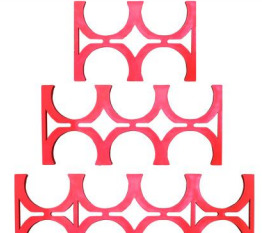
SIZE	100cc	200cc	400cc	946cc

### DUCT SPACER (flat back)



SIZE (IN)	GROOVE
4	2
4	3
4	4

### DUCT SPACER (back to back)



SIZE (IN)	GROOVE
4	2
4	3
4	4



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