

Pvc Duct & Conduit

Pipe System



ALGAWAS
Plastic Industries LLC

British Standard - BS 3506 - NEMA TC-2 - ANSI / UL651

Duct & Conduit

For use in electrical, telephone, communication and other duct systems

Telephone Duct Pipe
British Standard BPO

British Standard Telephone Duct (B.P.O.)

Size (mm)	OD (mm)	Minimum	Wall (mm)
Duct 56	53.90		1.55
Duct 54D	96.50		3.25

Pipes can be supplied in 6.07 and 6.1m as per the standard or 6m length if required.

BS 3506

Nominal Size	Outside Class Diameter		Average Value	Wall Thickness O (non pressure)	
	Min. mm	Max. mm		Min. mm	Max. mm
1 1/2	48.1	48.4	2.2	1.8	2.2
2	60.2	60.5	2.2	1.8	2.2
3	88.7	89.1	2.2	1.8	2.2
4	114.1	114.5	2.8	2.3	2.8
6	168.0	168.5	3.7	3.1	3.7
8	218.8	219.4	3.7	3.1	3.7
10	272.6	273.4	3.7	3.1	3.7

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UL 651 Listed

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Al Gawas Plastic Industries LCC, produces a range of upvc schedule 40 ducts in sizes 1/2" to 6" that are in accordance with NEMA TC-2A standard and listed to UL 651. The conduits are suitable for above or below ground installations and made from 100% virgin pvc resin. The ducts meet and exceed all the mechanical and performance requirement of both the NEMA TC2 and UL 651 standards.

General Properties

- Fully compliant to NEMA TC-2 and UL 651
- Rated for use with 90oC conductors
- Ultraviolet protected
- High impact and deformation properties
- Solvent cement joints with deep sockets
- Can be supplied in various lengths such as 3m, 6m, 2.9m, 5.8m (standard leg lengths 3m, 6m)
- Smooth solid wall
- Produced under an ISO 9001:2008 Quality Assurance System

Mechanical Properties

	ASTM	Typical Value
Specific Gravity	D792	1.4 - 1.7
Tensile Strength (psi) @ 73.4°F	D638	5,000
Izod Impact - ft lbs/in of notch	D256	0.65 - 1.50
Flexural Strength (psi)	D790	12,500
Comprehensive Strength (psi)	D695	9,000
Hardness (Durometer D)	D2240	95

Fire Resistance Properties

	ASTM	Typical Value
Fire Resistance	-	Self Extinguishing
Flame Spread	E162	10
Smoke Development	E84	330

Thermal Properties

	ASTM	Typical Value
Coefficient of Thermal Expansion - in/in/ oC	D696	5.13 x 10-5
Coefficient of Thermal Expansion - in/in/ *F	D696	3.0 x 10-5
Deflection Temp. oF Under Load @ 264 psi	D648	140*F
Thermal Conductivity BTU (hr) (ft) (oF/in)	C177	1.3

Electrical Properties

	ASTM	Typical Value
Dielectric Strength - volts/mil	D149	1,100
Dielectric Constant 60 CPS @ 30°C	D150	4.00
Power Factor 60 CPS @ 30°C	D150	1.93

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NEMA TC-2 AND ANSI / UL651 Sizes and Dimensions of PVC Conduit

U.S. Customary Units				
Nominal Size Inches	Outside Diameter, Average	Wall Thickness, Inches EPC-40-PVC		Socket Insertion Depth Inches
		Maximum	Minimum	
1 1/4	1.660+0.005	0.160	0.140	15/16 - 2
1 1/2	1.900+0.006	0.165	0.145	1 1/6 - 2
2	2.375+0.006	0.174	0.154	1 1/8 - 2
2 1/2	2.875+0.007	0.227	0.203	1 1/2 - 3
3	3.500+0.008	0.242	0.216	1 5/8 - 3 1/8
3 1/2	4.000+0.008	0.253	0.226	1 11/16 - 3 1/4
4	4.500+0.009	0.265	0.237	1 3/4 - 3 3/8
5	5.563+0.010	0.289	0.258	1 15/16 - 3 5/8
6	6.625+0.011	0.314	0.280	2 1/8 - 3 3/4

Metric Units				
Nominal Size Inches	Outside Diameter, Average	Wall Thickness, Inches EPC-40-PVC		Socket Insertion Depth Inches
		Maximum	Minimum	
1 1/4	42.15+0.13	4.06	3.56	23.8 - 50.8
1 1/2	48.26+0.15	4.19	3.68	27.0 - 50.8
2	60.32+0.15	4.42	3.91	28.6 - 50.8
2 1/2	73.02+0.18	5.77	5.16	38.1 - 76.2
3	88.90+0.20	6.15	5.49	41.3 - 79.4
3 1/2	101.60+0.20	6.43	5.74	42.9 - 82.6
4	114.30+0.23	6.73	6.02	44.5 - 85.7
5	141.30+0.25	7.34	6.55	49.2 - 92.1
6	168.28+0.28	7.98	7.11	54.0 - 95.3