americanlite®



MEETS ANSI/ UL651

PVC Rigid Conduit

SCH40 & SCH80

www.americanlite.com



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PRODUCT DESCRIPTION

ELECTRICAL CONDUIT

FOR USE IN POWER, TELEPHONE AND OTHER ELECTRICAL DUCT SYSTEMS

AMERICANLITE PIPE offers a complete line of rigid PVC conduit and duct. For commercial, industrial and utility usage, **AMERICANLITE PVC** conduit and duct is proven durable and effective for years of maintenance-free performance in underground, encased and exposed applications in accordance with the Electrical Code in the USA.





AMERICANLITE'S PVC RIGID CONDUITS ADVANTAGES

Corrosion Proof
Resistant to most chemicals, PVC is typically not affected by corrosive soils or salts.

Self-Extinguishing
Properties make PVC fire resistant.

Non-Magnetic and Non-Galvanic
Properties of Americanlite PVC Conduit provide good insulation and no power loss or conductor heating.

Impact Resistant
Tough, durable, with high tensile strength, yet easy to handle and install right on the job site.



QUALITY CONTROL IN AMERICANLITE PIPE

Americanlite pipe is tested in accordance with the provisions of the appropriate listed standard(s) and subject to inspection by its quality control inspectors throughout the manufacturing process. Americanlite's Quality Management System is ISO 9001: 2000 registered.



APPLICATIONS

Americanlite Schedule 40 & 80 rigid PVC conduit systems are sunlight resistant and are used exposed, encased in concrete, concealed in walls and in direct burial applications including systems for:

Utilities

Cable, data and communication lines

Institutional, commercial, industrial buildings

Residential applications, & service entrances

Street and highway underground feeds

Transportation systems - subways, bridges, tunnels, airports

Water and wastewater treatment plants

Marinas

Mines and mills



AMERICANLITE SCHEDULE 40 AND SCHEDULE 80 CONDUIT'S DATA SHEET

Americanlite Schedule 40 and Schedule 80 PVC rigid nonmetallic conduit is designed and produced for use in both above-ground and underground installations.

- Highest quality control standards.
- Rated for use with 90 ° C conductors.
- Light weight and easy installation.
- Ultraviolet protection.
- **High impact and deformation properties.**
- **Solvent cemented joints.**
- **Superior dielectric strength.**
- **Smooth solid wall.**

Americanlite PVC Schedule 40 and 80 conduit is manufactured in accordance with the following specifications:

- **ANSI/UL 651**
- **NEMA TC-2**

Mechanical Properities		**Thermal Properities**	
Item	Typical value	Item	Typical value
Specific Gravity	1.4 - 1.7	Coefficient of Thermal Expansion -in /in/ ° C	5.13 x 10-5
Tensile Strength (psi) @ 73.4 ° F	5,000	Coefficient of Thermal Expansion -in /in / ° F	3.0 x 10-5
Izod Impact -ft lbs /in of notch	0.65 - 1.50	Deflection Temp. ° F Under Load @ 264 psi	140 ° F
Flexural Strength (psi)	12,500	Thermal Conductivity BTU (hr) (ft) (° F/in)	1.3
Comprehensive Strength (psi)	9,000		
Hardness (Durometer D)	95		

Electrical Properities		**Fire Resistance Properities**	
Item	Typical value	Item	Typical value
Dielectric Strength - volts/mil	1100	Fire Resistance	Self Extinguishing
Dielectric Constant 60 CPS @ 30 ° C	4	Flame Spread	10
Power Factor 60 CPS @ 30 ° C	1.93	Smoke Development	330

DIMENSIONS AND WEIGHTS

Americanlite Schedule 40 and Schedule 80 Conduit NEMA TC-2 and ANSI/UL 651

RIGID NON-METALLIC CONDUIT FOR USE IN BOTH ABOYE GROUND AND UNDERGROUND INSTALLATIONS

SCHEDULE 40 CONDUIT

SIZE	Average O.D.	NOM.I.D	MIN.T.	WT/M
1/2	0.840	0.622	0.109	0.266
3/4	1.050	0.824	0.113	0.353
1	1.315	1.049	0.133	0.521
1 1/4	1.660	1.380	0.140	0.705
1 1/2	1.990	1.610	0.145	0.841
2	2.375	2.067	0.154	1.129
2 1/2	2.875	2.469	0.203	1.790
3	3.500	3.068	0.213	2.337
3 1/2	4.000	3.548	0.226	2.805
4	4.500	4.026	0.237	3.319
5	5.563	5.047	0.258	4.486
6	6.625	6.065	0.280	5.814
8	8.625	7.942	0.322	8.257

Schedule 40 is furnished in standard 10' lengths with one bell end.

20' lengths are available upon request.

SCHEDULE 80 CONDUIT

SIZE	Average O.D.	NOM.I.D	MIN.T.	WT/M
1/2	0.840	0.546	0.147	0.335
3/4	1.050	0.742	0.154	0.454
1	1.315	0.957	0.179	0.668
1 1/4	1.660	1.278	0.191	0.925
1 1/2	1.990	1.500	0.200	1.121
2	2.375	1.939	0.218	1.547
2 1/2	2.875	2.323	0.276	2.346
3	3.500	2.900	0.300	3.316

3 1/2	4.000	3.364	0.318	4.011
4	4.500	3.826	0.337	4.590
5	5.563	4.813	0.375	6.349
6	6.625	5.761	0.432	8.712

Schedule 80 is furnished in standard 10' lengths with one bell end.

20' lengths are available upon request.