

PVC Rigid Conduit



Allied Tube & Conduit® offers a complete line of rigid PVC conduit and fittings and PVC utility duct. For commercial, industrial and utility usage, Allied 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 National Electrical Code.

- Commercial, Industrial and Utility Usage
- Corrosion Resistant
- Non-Magnetic and non-galvanic
- Self Extinguishing
- Impact Resistant

Corrosion Proof

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

Non-Magnetic and Non-Galvanic

Properties of Allied PVC Conduit provide good insulation and no power loss or conductor heating.

Self-Extinguishing

Properties make PVC fire resistant.

Impact Resistant

Tough, durable, with high tensile strength, yet easy to handle and install right on the jobsite.

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

Type DB-60 and DB-120 utility duct are designed for direct burial applications. Type EB-20 and EB-35 are designed for burial encased in concrete.

Codes and Standards Compliance

Allied Schedule 40 and Schedule 80 rigid conduits are third-party certified to UL 651 and are allowed for use with 90° C conductors, in accordance with the National Electrical Code. They are manufactured in accordance with NEMA TC2.

Allied Type DB and EB ducts are manufactured in accordance with NEMA TC 6&8 and are allowed for use with 90° C conductors.

Allied PVC fittings are manufactured in accordance with NEMA TC3. The UL standard for PVC fittings is UL 651; for boxes UL 514C, for cover plates UL 514D and for enclosures UL 50.

See product pages for UL listing information.

Specification

All wiring shall be installed in Allied Tube & Conduit® rigid PVC conduit and secured by means of proper fittings. All fittings shall be offered by Allied Tube & Conduit®. All outlets, pull boxes and junction points shall be fitted with Allied outlet boxes, fittings and junction boxes.

Exposed conduit shall be securely attached and supported by means of straps. The straps shall be installed at the recommended spacing as specified in the National Electrical Code (NEC). The straps must allow for linear expansion and contraction of the conduit due to temperature change. If the variance in temperature exceeds 25°F, expansion joints shall be installed according to the manufacturer's recommendations.

If rigid PVC conduit is embedded in concrete or direct buried, support straps are not required.

Schedule-40 PVC Rigid Conduit Rated for 90° C Wiring

Allied Schedule-40 is sunlight resistant. Meets or exceeds the requirements of NEMA TC-2 and UL-651 for Schedule 40 Conduit*.

Schedule 40

1/2	0.840	0.578	0.109	0.166	6000
3/4	1.050	0.780	0.113	0.220	4400
1	1.315	1.004	0.133	0.327	3600
1-1/4	1.660	1.335	0.140	0.444	3300
1-1/2	1.900	1.564	0.145	0.530	2250
2	2.375	2.021	0.154	0.749	1400
2-1/2	2.875	2.414	0.203	1.187	930
3	3.500	3.008	0.216	1.613	880

3-1/2	4.000	3.486	0.226	1.952	630
4	4.500	3.961	0.237	2.312	570
5	5.563	4.975	0.258	3.133	380
6	6.625	5.986	0.280	4.068	260
8*	8.625	7.853	0.322	6.080	140

*UL 651 does not include 8"

Extra Heavy Wall Schedule-80 PVC Rigid Conduit Rated for 90° C Wiring

Allied Schedule-80 is sunlight resistant. Meets or exceeds the requirements of NEMA TC-2 and UL-651 for Schedule 80 Conduit.

Schedule 80

1/2	0.840	0.502	0.147	0.205	6000
3/4	1.050	0.698	0.154	0.278	4400
1	1.315	0.910	0.179	0.406	3600
1-1/4	1.660	1.227	0.191	0.577	3300
1-1/2	1.900	1.446	0.200	0.726	2250
2	2.375	1.881	0.218	0.986	1400
2-1/2	2.875	2.250	0.276	1.504	930
3	3.500	2.820	0.300	2.013	880
3-1/2	4.000	3.280	0.318	2.456	630
4	4.500	3.737	0.377	3.022	570
5	5.563	4.713	0.375	4.330	380
6	6.625	5.646	0.432	5.954	260

Rigid PVC Conduit – Utility Duct

Utility Duct - Type DB-60 for Direct Burial Rated for use with 90° C Wire

3	3.500	0.092	0.656	1760
4	4.500	0.121	1.217	1140
5	5.563	0.152	1.889	760
6	6.625	0.182	2.694	520

Meets NEMA TC 6 and 8 and ASTM F 512

Utility Duct - Type DB-100 for Direct Burial Rated for use with 90° C Wire

3	3.500	0.112	0.879	1760
4	4.500	0.145	1.463	1140
5	5.563	0.179	2.233	760
6	6.625	0.213	3.164	520

Meets NEMA TC 6 and 8 and ASTM F 512

Utility Duct - Type DB-120 for Direct Burial Rated for use with 90° C Wire

1	1.315	0.060	0.169	7200
1-1/2	1.900	0.060	0.247	4500
2	2.375	0.077	0.427	2800
3	3.500	0.118	0.917	1760
4	4.500	0.154	1.537	1140
5	5.563	0.191	2.357	760
6	6.625	0.227	3.336	520

Meets NEMA TC 6 and 8 and ASTM F 512

Utility Duct - Type EB-20 for Encased Burial Rated for use with 90° C Wire

4	4.500	0.082	0.883	1140
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Meets NEMA TC 6 and 8 and ASTM F 512

Utility Duct - Type EB-35 for Encased Burial Rated for use with 90° C Wire

5	5.563	0.126	1.586	760
6	6.625	0.152	2.210	520

Meets NEMA TC 6 and 8 and ASTM F 512

Telephone Duct - Type C

4	4.350	0.149	1.497	1260
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Meets CAO 8546

Type C duct has minimum pipe stiffness of 120 lbs/in/in