

Rigid PVC Conduit Pipe

For Usage in Below and
Above Ground Systems



RIGID CONDUIT PIPE

For usage in both below and above ground systems for residential, industrial, commercial and institutional applications.



Product Description & Applications

NAPCO manufactures a complete line of Rigid PVC Conduit pipe and fittings for electrical applications. Our products are designed to reduce labor and maintenance costs, while offering superior performance.

Products are certified by the Canadian Standards Association (CSA) and Underwriters Laboratories (UL) for use in above and below ground applications and meet NEMA TC-2.

Our Schedule 40 Rigid PVC conduit pipe is available in 1/2- to 6-inch diameters and 10- or 20-foot lengths.

Potential Applications Include:

- Power Utilities
- Cable, data and communication lines
- Institutional, commercial and industrial buildings
- Residential buildings, including service entrances
- Street and highway underground feeds
- Transportation systems – subways, bridges, tunnels and airports
- Water and wastewater treatment plants
- Marinas
- Mines and mills

Design Advantages

Saves Labour

Rigid PVC Conduit pipe is easy to install, cut and join. No special tools are required. It can easily be cut with a hacksaw or PVC conduit cutters.

Easy Wire Pulls

The conduit's smooth interior surface reduces friction and prevents damage to wires when pulling wire and conductors for long runs, and even through 90° bends. To make wire pulling easier, use a large pull-rope and wire-pulling lubricant.

Simplifies Direct Burial

NAPCO Rigid PVC Conduit does not require additional protection for direct burial installations according to the National Electrical Code (NEC). Normal construction practices should be followed for trenching and backfill operations.

Non-Conductive

Our Rigid PVC Conduit is non-sparking and non-conductive. It eliminates the second point of contact and phase to ground faults. For a complete positive ground for the whole system, use a separate grounding conductor.

Long Life

NAPCO Rigid PVC Conduit and fittings resist acids, alkalis, salt solutions and most other chemicals. (Refer to the Chemical Resistance Guide for detailed information.) There is no risk of corrosion when exposed to naturally corrosive soil conditions, or electrochemical or galvanic environments. They are also resistant to direct sunlight, heat and all weather conditions, even after years of exposure; as well as macro and microorganism, fungi and rodents.

Lightweight Materials

Rigid PVC Conduit is easier to move and handle because it is one-fifth the weight of steel and half the weight of aluminum. See chart below.

| Approximate Weight Comparison | | | |
|-------------------------------|----------------|---------------------|------------------|
| Size (IN) | PVC (LB/100FT) | Aluminum (LB/100FT) | Steel (LB/100FT) |
| 1/2" | 16.1 | 27 | 79 |
| 3/4" | 21.5 | 37 | 105 |
| 1" | 31.9 | 53 | 153 |
| 1 1/4" | 43.8 | 70 | 201 |
| 1 1/2" | 52.3 | 86 | 249 |
| 2" | 70.3 | 116 | 334 |
| 2 1/2" | 112.0 | 183 | 527 |
| 3" | 146.7 | 239 | 690 |
| 3 1/2" | 176.4 | 288 | 831 |
| 4" | 208.9 | 340 | 982 |
| 5" | 283.4 | 465 | 1,344 |
| 6" | 368.0 | 613 | 1,771 |

| Dimensions | | | | |
|-------------------|----------------------------|---------------------------|--------------------------|---------------------------|
| Nominal Size (IN) | Avg. Outside Diameter (IN) | Avg. Inside Diameter (IN) | Avg. Wall Thickness (IN) | Approx. Weight (LB/100FT) |
| 1/2" | 0.840 | 0.608 | 0.116 | 16.1 |
| 3/4" | 1.050 | 0.810 | 0.120 | 21.5 |
| 1" | 1.315 | 1.033 | 0.141 | 31.9 |
| 1 1/4" | 1.660 | 1.362 | 0.149 | 43.8 |
| 1 1/2" | 1.900 | 1.592 | 0.154 | 52.3 |
| 2" | 2.375 | 2.049 | 0.163 | 70.3 |
| 2 1/2" | 2.875 | 2.445 | 0.215 | 112.0 |
| 3" | 3.500 | 3.042 | 0.229 | 146.7 |
| 3 1/2" | 4.000 | 3.520 | 0.240 | 176.4 |
| 4" | 4.500 | 3.998 | 0.251 | 208.9 |
| 5" | 5.565 | 5.017 | 0.274 | 283.4 |
| 6" | 6.625 | 6.031 | 0.297 | 368.0 |



FT-4 Vertical Flame Test

The FT-4 Rating means our Rigid PVC Conduit pipe and fittings can be used in non-combustible construction as per part 3 of the National Building Code of Canada (NBC).

Specification

All wiring shall be installed in Rigid PVC Conduit and secured with proper fittings. All conduit and fittings shall be manufactured by NAPCO. All outlets, pull boxes and junction points shall be NAPCO products.

Exposed conduit shall be securely attached and supported with straps that are installed at the recommended spacing specified in the Canadian Electrical Code (CEC) Section 12-1114. 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.

Certification

Rigid PVC Conduit Pipe is certified to CSA Standard C22.2 No. 211.2, UL 651 and conforms to NEMA TC-2. Our Rigid PVC Conduit shall be installed according to the National Electrical Code (NEC) Article 352.



Our various pipe and fittings solutions have been manufactured to meet the need of our customers and their applications. Contact one of the Sales Centres for more information:

Sales & Distribution Centres:

Langley, BC, Canada
T/F 1.800.663.0696
F 1.800.663.6564

Woodbridge, ON, Canada
T/F 1.866.769.7473
F 905.856.3986

Laval, QC, Canada
T/F 1.800.465.9754
F 450.688.6624

Distribution Centres:

Calgary, AB, Canada
T/F 1.800.663.0696
F 1.800.663.6564

Winnipeg, MB, Canada
T/F 1.800.663.0696
F 1.800.663.6564



napcopipe.com