

SCEPTER RIGID PVC CONDUIT & FITTINGS

1/2" - 8" (12mm - 200mm)



Professional electricians ask for Scepter conduit by name for the quality and superior performance that ensures a long trouble free life. Scepter conduit is light weight and offers excellent chemical resistance, high tensile and impact strength, and the FT-4 rating permits use in noncombustible construction.

Suitable for exposed, concrete encased and direct burial applications, Scepter conduit requires no extra protection and is third party certified by CSA (sizes 1/2" - 8" and by NSF (sizes 1/2" - 6").

SHORT FORM SPECIFICATIONS

All wiring shall be installed in Rigid PVC conduit and secured to PVC boxes and cabinets by means of proper fittings. All boxes, access fittings and covers shall be furnished with threaded brass inserts, brass screws and PVC gaskets.

Rigid PVC fittings and junction boxes shall be used for all outlets, pull boxes and junction points. All PVC junction boxes shall be NEMA 1, 2, 3, 4, 4X, 6P, 12 and 13 rated and UL Listed for wet locations.

Exposed conduit shall be securely held in place by suitable hangers or straps with the maximum spacing of points for supports not exceeding those specified in the CEC or NEC. Except when embedded in concrete, rigid conduit pipe shall not be clamped tightly. It shall be supported in such a manner as to permit adequate linear movement, allowing for expansion and contraction of conduit due to temperature change. Where a temperature change exceeding 25°F (14°C) is anticipated, rigid PVC expansion joints shall be installed in accordance with the manufacturer's recommendations.

Proper care shall be taken when field bending, to maintain the internal diameter and wall thickness of the conduit.

The contractor shall furnish and install Scepter Rigid PVC conduit pipe and fittings made by IPEX. Where the engineer's specifications indicate Scepter products or equivalent, the equivalent shall be CSA certified and accepted by the Canadian Electrical Code. Due to broad manufacturing tolerances, all pipe and fitting products shall be of the same manufacturer.

APPLICATIONS

- Utilities
- Cable
- Communications
- Residential
- Airports
- Subways
- Bridges & tunnels
- Water treatment plants
- Sewage treatment plants
- Pulp & paper industries
- Street & highway lighting
- Food processing plants
- Agricultural, dairy, hogs, cattle, chicken, etc.
- Parking garages
- Car washes
- Fish plants
- Mines
- Marinas
- Steel mills

STANDARDS



Scepter Rigid PVC Conduit conforms to: CSA C22.2 No. 211.2, CSA C22.2 No. 211.0
NSF Certified to UL651
Sunlight Resistant
Rated for use with 90°C conductors
NEMA TC2
Corps. of Engineers Spec. CE 303:01
Military Spec, Federal Spec. WC 1094A

Scepter Rigid PVC boxes and fittings conform to:
CSA C22.2 No. 85
UL Listed UL514B - UL514C



DID YOU KNOW?

Compared to metal, PVC products reduce labour on a typical installation by up to two-thirds. The reason? PVC is easy to work with. It can also be cut and joined without the usual pipe vices, cutters, threading equipment, and reamers associated with metal conduit.

ADVANTAGES

1 Labor Savings

Compared to metal, PVC products reduce labor on a typical installation by up to two-thirds. The reason? PVC is easy to work with. It can also be cut and joined without the usual pipe vices, cutters, threading equipment and reamers associated with metal conduit.

2 Lightweight Conduit

Scepter Rigid PVC Conduit is one-half the weight of aluminum and one-sixth the weight of steel. As a result, handling and installation are easier and faster, reducing labour costs.

3 Easy Joining

Solvent cementing is all that is required, eliminating the need for power-threading machines, pipe vices and cutting equipment. A hacksaw or carpenter's saw is the only equipment required.

4 Strength

Scepter Rigid PVC Conduit offers both high impact and high tensile strength. And, even in cold temperatures, exceeds all CSA and UL standards.

5 Easy Wire Pulls

PVC's exceptionally smooth interior surface greatly reduces the amount of friction while pulling conductors/wires through long runs, even with 90° bends. A large pull-rope and wire-pulling lubricant should be used when pulling all conductors and wires.

6 Noncorroding

PVC is immune to damage from naturally corrosive soil conditions, as well as electro-chemical and galvanic corrosion. This ensures lower maintenance costs and superior performance.

7 Nonconducting

Scepter Rigid PVC Conduit pipe and fittings are nonsparking and nonconducting, thereby eliminating the most dangerous 'second point of contact' and 'phase to ground' faults. The use of a separate grounding conductor in a Scepter PVC conduit system gives a complete and positive ground for the whole system.

8 Chemical resistance

One of the greatest benefits of PVC is its excellent chemical resistance. It resists attack by acids, alkalis, salt solutions, and many other types of chemicals. For more information on PVC and chemical resistance, refer to the IPEX Chemical Resistance Guide.

9 Long Life

Scepter Rigid PVC Conduit pipe and fittings retain their original properties after years of exposure to heat and weather. In addition, resistance to fungi, bacterial action, rodents, termites and corrosive agents ensures a long, trouble-free life for PVC conduit installed indoors or outdoors.

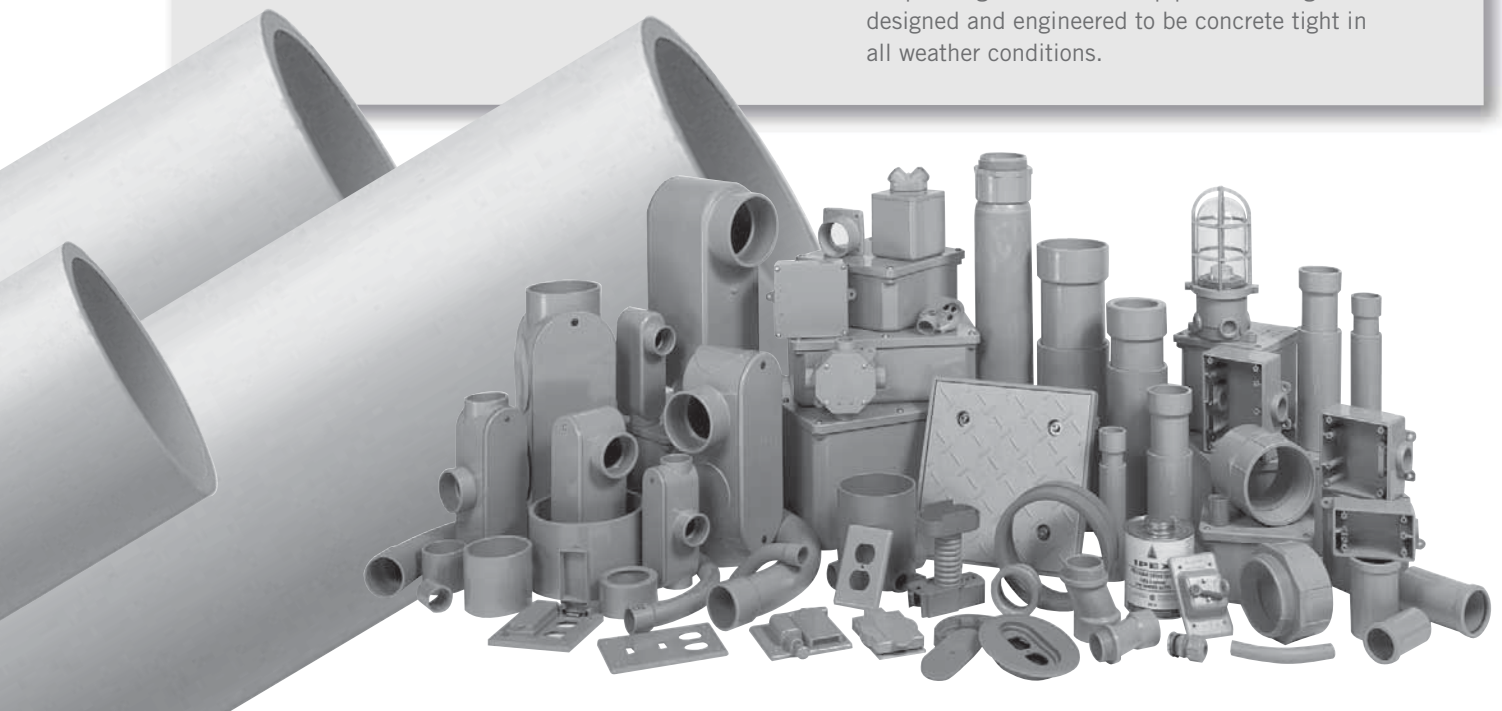
10 Fire Resistant

IPEX's proprietary PVC compound used to manufacture Scepter products is a self-extinguishing material and will not support combustion.

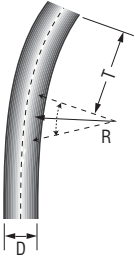
IPEX Compound	Flame Spread	Smoke Developed	Fuel Contribution
1/8" thickness	10 - 20	225 - 270	0
3/4" thickness	10 - 20	300 - 390	0

11 Concrete Tight

Scepter Rigid PVC Conduit pipe and fittings are designed and engineered to be concrete tight in all weather conditions.



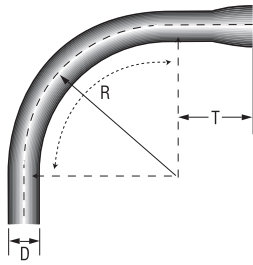
CONDUIT ELBOWS



Size inches	Part Number	Product Code	D inches	T inches	R inches
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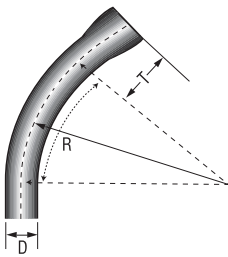
22-1/2° Elbows Schedule 40 Standard Radius

1-1/2	EE1522	078580	1.900	2.000	8.25
2	EE2022	078581	2.375	2.000	9.50
2-1/2	EE2522	078582	2.875	3.000	10.50
3	EE3022	078583	3.500	3.125	13.00
3-1/2	EE3522	078584	4.000	3.250	15.00
4	EE4022	078585	4.500	3.375	16.00
5	EE5022	078586	5.563	3.625	24.00
6	EE6022	078587	6.625	3.750	30.00



90° Elbows Schedule 40 - Integral Bell End

1/2	EE1090B	068420	0.840	1.500	4.00
3/4	EE1590B	068421	1.050	1.500	4.50
1	EE2090B	068422	1.315	1.875	5.75
1-1/4	EE2590B	068423	1.660	2.000	7.25
1-1/2	EE3090B	068424	1.900	2.000	8.25
2	EE3590B	068425	2.375	2.000	9.50
2-1/2	EE4090B	068426	2.875	3.000	10.50
3	EE4590B	068427	3.500	3.125	13.00
3-1/2	EE5090B	068428	4.000	3.250	15.00
4	EE5590B	068429	4.500	3.375	16.00
5	EE6090B	068430	5.563	3.625	24.00
6	EE6590B	068431	6.625	3.750	30.00



45° Elbows Schedule 40 - Integral Bell End

1/2	EE1045B	068561	0.840	1.500	4.00
3/4	EE1545B	068562	1.050	1.500	4.50
1	EE2045B	068563	1.315	1.875	5.75
1-1/4	EE2545B	068564	1.660	2.000	7.25
1-1/2	EE3045B	068565	1.900	2.000	8.25
2	EE3545B	068566	2.375	2.000	9.50
2-1/2	EE4045B	068567	2.875	3.000	10.50
3	EE4545B	068568	3.500	3.125	13.00
3-1/2	EE5045B	068569	4.000	3.250	15.00
4	EE5545B	068570	4.500	3.375	16.00
5	EE6045B	068571	5.563	3.625	24.00
6	EE6545B	068572	6.625	3.750	30.00