Scepter®

Rigid PVC Conduit & Fittings

ELECTRICAL SYSTEMS

RIGID PVC CONDUIT & FITTINGS

12mm – 150mm
1/2" – 6"

www.ipexelectrical.com

IPEX

We build tough products for tough environments®

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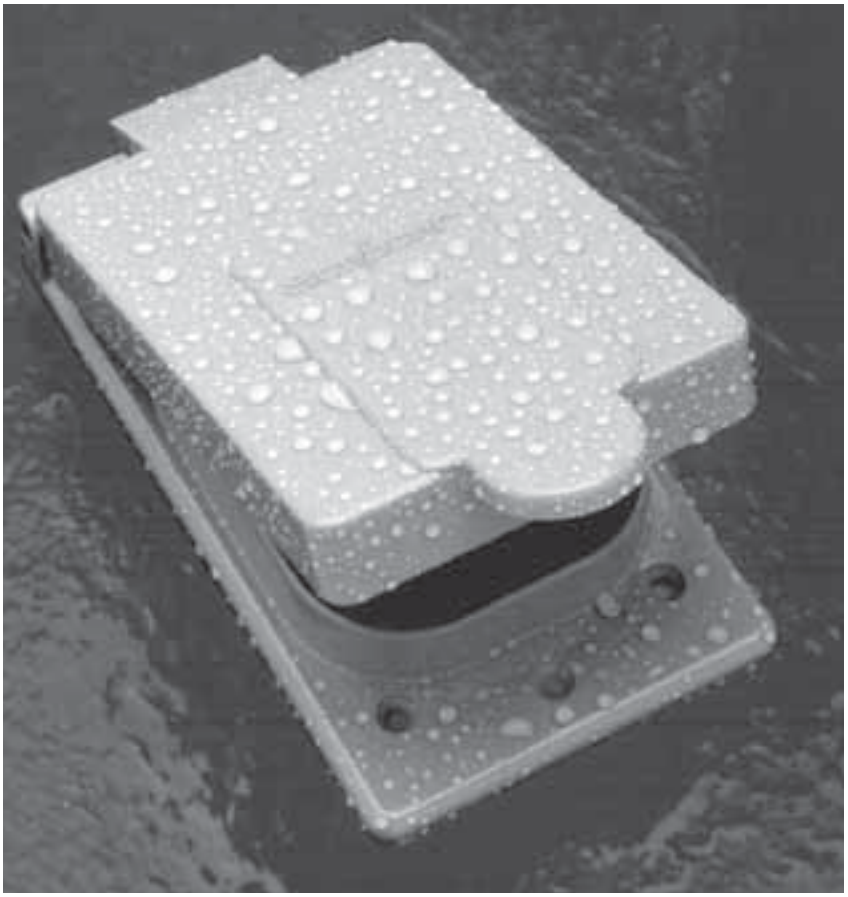
INTRODUCTION

This manual provides the most comprehensive information about Scepter® PVC systems – from basic raw material to installation characteristics of the finished product. Written with the engineer, contractor and distributor in mind, it is based on laboratory test results and IPEX Electrical Inc.'s many years of field experience.

At IPEX, we have been extruding Scepter PVC conduit and molding Scepter PVC fittings since 1951. We formulate our own compounds, maintain strict quality control during production, and offer the most comprehensive line of electrical products throughout North America.

More important, our commitment to our customer extends beyond the sale. Quality control and thorough jobsite field reports have earned Scepter a reputation for product quality and service excellence.



Engineers, electricians, contractors, specifiers and utilities have realized for many years the advantages of PVC. Today, IPEX electrical systems include Scepter® PVC conduit and fittings, Super Duct® power and communication ducts, Cor-Line® ENT and Kwikon® fittings, FiberTel® High Density Polyethylene Innerduct, SceptaCon™ Trenchless Raceway and Kwikpath® Communication Raceway Systems. These brands are the number-one choice for power, communication and data needs. Whether exposed, concealed in walls, encased in concrete, or directly buried, IPEX electrical products are preferred For The Long Run.

By specifying "Scepter Electrical Products" by name the IPEX commitment to excellence is guaranteed.

APPLICATIONS

Typical industrial, commercial and residential applications of Scepter Rigid PVC Conduit pipe and fittings include:

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

ADVANTAGES

LABOUR 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.

SUNLIGHT RESISTANT

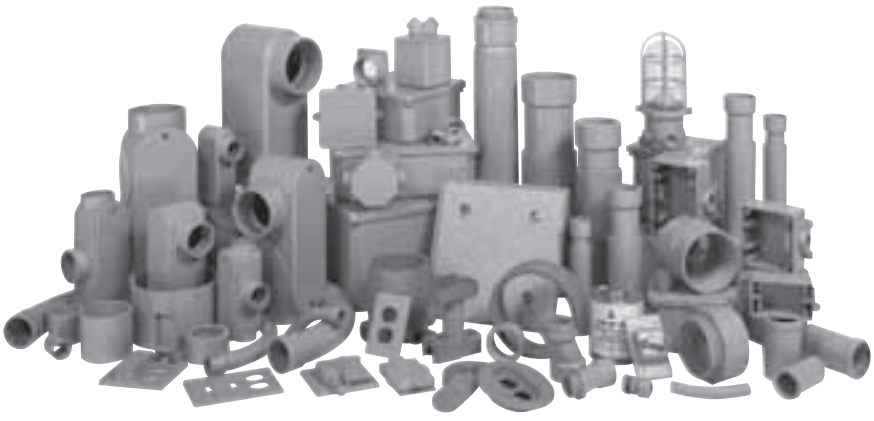
The 2006 Canadian electrical code rule 2-130 is intended to ensure that totally enclosed nonmetallic raceways are properly protected against adverse effects from direct exposure to UV rays. electrical nonmetallic raceways marked for such application are suitable for installation and use for direct exposure to rays of the sun. Scepter Rigid PVC conduit meets the criteria for sunlight resistance, is approved for the purpose, and is appropriately marked.

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 labor costs.

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.



STRENGTH

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

Scepter Rigid PVC Conduit Schedule 40		CSA Impact Test		UL Impact Test	
Size (in)	Size (mm)	@ -29°F	-34°C	@ 72°F	23°C
1/2	12	8.9 ft.lbs	12 joules	50 ft.lbs	68 joules
3/4	20	8.9 ft.lbs	12 joules	80 ft.lbs	109 joules
1	25	8.9 ft.lbs	12 joules	100 ft.lbs	136 joules
1-1/4	32	8.9 ft.lbs	12 joules	120 ft.lbs	163 joules
1-1/2	40	8.9 ft.lbs	12 joules	150 ft.lbs	204 joules
2	50	8.9 ft.lbs	12 joules	190 ft.lbs	258 joules
2-1/2	65	8.9 ft.lbs	12 joules	210 ft.lbs	285 joules
3 - 6	75-150	8.9 ft.lbs	12 joules	220 ft.lbs	298 joules

Note: CSA impacts are carried out at temperatures that are well below freezing, while UL impacts are tested at room temperature.

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.

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 For The Long Run.

ADVANTAGES CONT'D

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.

CHEMICAL RESISTANCE

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

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.

FIRE RESISTANT

IPEX's proprietary PVC compound used to manufacture Scepter products is a self-extinguishing material and will not support combustion. Samples taken from an actual fire show the outer surface of the conduit was blistered and charred. The interior of the conduit, however, was unaffected. Additionally, the undamaged conductors were then removed and reinstalled in new conduit. Fire-resistant characteristics when tested to CAN ULC S102.2 are as follows:

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

FT-4 RATING

Scepter Rigid PVC conduit is certified to meet the requirements of FT-4 allowing its use in noncombustible construction per Section 3.1.5.20 of the National Building Code, which reads:

1.) Subject to the limits on the size of elements that penetrate fire separations as stated in Sentence 3.1.9.3.(2), within a fire compartment of a building required to be of noncombustible construction, totally enclosed nonmetallic raceways not more than 175mm in outside diameter, or of an equivalent rectangular area, are permitted to be used to enclose optical fibre cables and electrical wires and cables, provided the raceways exhibit a vertical char not more than 1.5m when tested in conformance with the Vertical Flame Test (FT - 4) Conduit or Tubing on Cable Tray in Clause 6.16 of CSA C22.2 No. 211.0, "General Requirements and Methods of Testing for Nonmetallic conduit."

CONCRETE TIGHT

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

SUITABLE FOR DIRECT BURIAL

PVC is suitable for direct burial and requires no extra protection when installed in accordance with the Canadian Electrical Code, the National Electrical Code, and the local inspection authority guidelines. The usual care regarding trenches and backfilling should be respected.

ONE-SOURCE SPECIFICATION

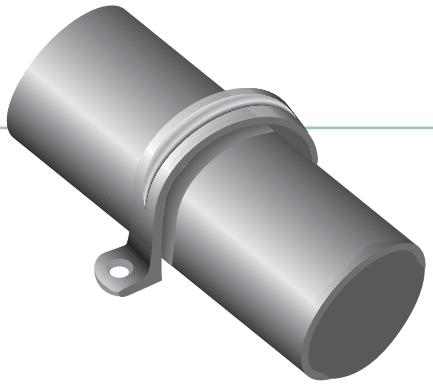
IPEX offers a full range of PVC fittings and accessories. As a result, it is easy to specify a single source PVC system.

QUALITY CONTROL

In addition to IPEX's rigorous quality control testing, Scepter electrical products carry third-party certification by CSA, UL, and NRTL.

INSTALLATION

SUPPORT



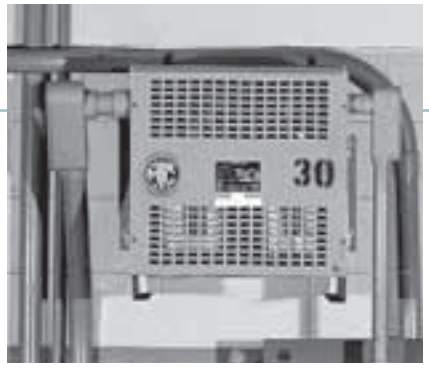
Due to PVC's lightweight, support spacing is different than that used with metal conduits. Supporting straps should NOT be firmly tightened, so that linear movement of the pipe is possible. The maximum allowable support spacing, per the Canadian Electrical Code (CEC) is as follows:

SUPPORT SPACING

Nominal Conduit Diameter		Canadian Electrical Code Max. Support Spacing	
inches	mm	feet	metres
1/2	12	2-1/2	.75
3/4	20	2-1/2	.75
1	25	2-1/2	.75
1-1/4	32	4	1.20
1-1/2	40	4	1.20
2	50	5	1.50
2-1/2	65	6	1.80
3	75	6	1.80
3-1/2	90	7	2.10
4	100	7	2.10
5	125	7	2.10
6	150	8	2.50

MAX OPERATING TEMPERATURE

The Canadian Electrical Code (CEC) allows the use of Scepter Rigid PVC Conduit up to a maximum ambient temperature of 167°F (75°C).



CUTTING

Scepter Rigid PVC Conduit can be easily cut on the jobsite by using a hacksaw, carpenter's saw or PVC conduit cutters. For larger sizes of conduit, the use of a mitre box is also recommended to ensure a square cut.

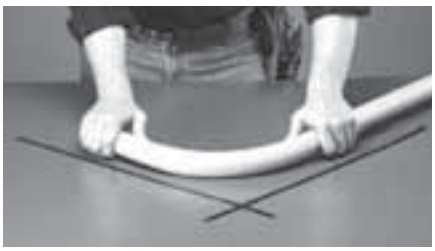
SOLVENT CEMENTING

After cutting Scepter Rigid PVC Conduit, remove all sharp edges or burrs from the inside of the conduit with a knife. Thoroughly clean the end of the pipe and inside the fitting with a rag or pipe cleaner. Check the pipe and fitting for a dry fit before cementing. Apply a generous amount of IPEX solvent cement to both surfaces; slide together and give a quarter turn to ensure the solvent is spread evenly on the material. Hold together for a few seconds until the joint is made.

Usually the solvent-cemented joint will be strong enough to install immediately. However, in climates with low temperatures or areas with high humidity, extra time may be required before moving the pipe for permanent installation. Solvent-cemented joints appear to "set up" instantly, but will take up to 24 hours to cure properly. After this time, the solvent-cemented joint has completely cured and is waterproof. For extreme cold weather installations, the use of IPEX PVC Primer is recommended. Normal installation temperatures are between 40°F (4°C) and 110°F (43°C), however, high strength joints have been made at temperatures as low as -15°F (-26°C) with quality cements. In these extreme conditions the cement must be kept warm to prevent excessive thickening and gelation in cold weather.

IPEX cements and primers are available in half-pint (250ml), pint (500ml), quart (1-litre) and gallon (4-litre) containers. The shelf life of conduit cement and primer is 2 years from the date of manufacture. The date code stamped on the bottom of the can is the date of manufacture, not the expiry date. Always verify that the cement is within this 2 year time frame before using.

BENDING



PVC is a thermoplastic material that, when heated, becomes soft and pliable. As a result, its shape can be altered.

A flameless heat source is recommended to heat the pipe. AN OPEN FLAME SHOULD NOT BE USED. An electric unit or an infra-red propane unit is recommended for heating the pipe.

The necessary temperature for bending Scepter Rigid PVC pipe is 260°F (127°C). The pipe must be heated evenly over an area approximately ten times the diameter of the pipe before any attempt at bending is made. Bending the pipe when it has not been thoroughly heated will cause the pipe to "kink." With proper care and a little practice, the bend will form easily.

Cooling the pipe with cold air or water will cause "spring back." Allow a few extra degrees of overbending to compensate for this phenomenom. The maximum bending radius shall be six times the internal diameter according to the Canadian Electrical Code and the National Electrical Code.

USING EXPANSION JOINTS

It is equally important to know when to install an expansion joint as it is to know how to correctly install the expansion joint. Expansion joints are required when the temperature change is greater than 25°F (14°C). Scepter Rigid PVC Conduit has a coefficient of linear expansion of 3.6 x 10-4 in./ft./°F (.054mm/m/°C). Generally, a 100 ft. (30.48m) run of PVC conduit will undergo a change in length of 3.6 inches (91.44mm) for every 100°F (56°C) temperature change.

For conduit installed indoors, the range of expansion and contraction can be calculated using the maximum air temperature plus the heat contributed by the conductors inside the conduit and the minimum air temperature expected. Expansion joints are not required indoors unless there are widely varying temperatures such as the attic of a building.

Conduit installed outdoors, exposed to direct sunlight, will be considerably hotter than the air temperature. As a guideline in this case, add 27°F (15°C) to the temperature change. Expansion joints should be installed to allow for all anticipated temperature changes.

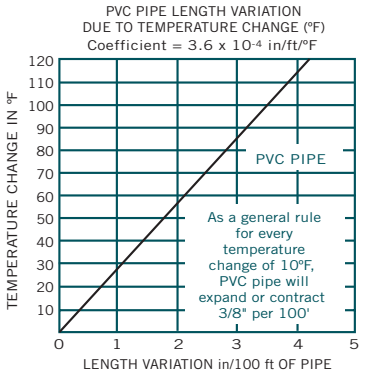
EXPANSION FORMULA

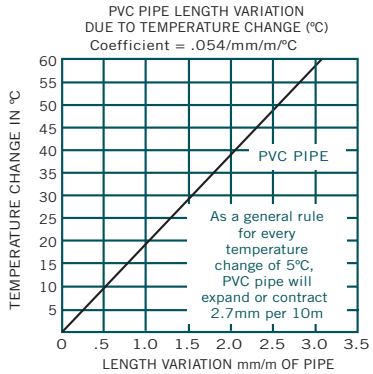
By using the following formulas and the charts below, the total expected expansion in a run can be easily determined:

°F Total Expansion (in.) = length of run (ft.)
x temperature change (°F) x 0.00036

or

°C Total Expansion (mm) = length of run (m)
x temperature change (°C) x 0.054





NUMBER OF EXPANSION JOINTS REQUIRED

Use the following equation to determine the number of expansion joints needed for a Scepter Rigid PVC Conduit installation:

$$\text{Number of joints} = \frac{\text{total expansion (mm or in)}}{E}$$

E = Expansion joint travel length 101.6mm (4") or 203.2mm (8") depending on diameter.

Always round up to the next whole number.

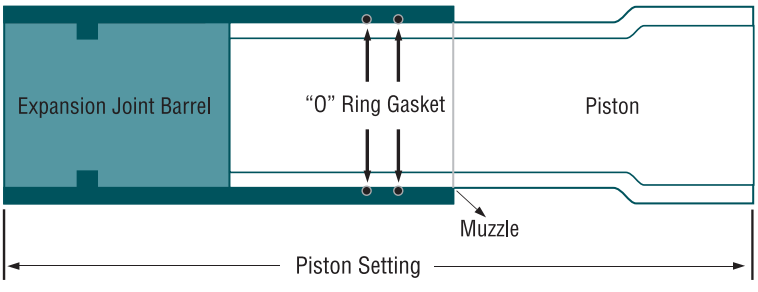
SETTING THE PISTON OPENING

The expansion joint must be installed to allow for expansion and contraction of the conduit run. On a cold day, if an expansion joint is installed completely closed with the piston bottomed, there is no room for expansion when the conduit is warmed. If it is installed open to the maximum on a hot day, the expansion joint will pull apart when cooled.

The correct piston opening for any installation condition can be easily determined using the formula below.

$$\text{Piston setting} = \text{compressed length} + \left(\frac{\text{max. temperature} - \text{installation temperature}}{\text{max. temperature} - \text{min. temperature}} \right) \times E$$

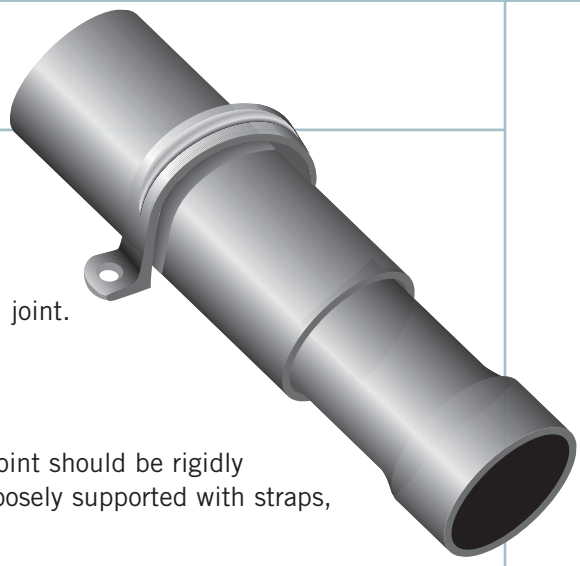
Formula can be used for both metric and imperial measurements.



Size		Compressed Length		Travel	
(mm)	(in)	(mm)	(in)	(mm)	(in)
13	1/2	203.2	8.00	101.6	4
20	3/4	203.2	8.00	101.6	4
25	1	215.9	8.50	101.6	4
32	1-1/4	228.6	9.00	101.6	4
38	1-1/2	228.6	9.00	101.6	4
51	2	235.0	9.25	101.6	4
64	2-1/2	235.0	9.25	101.6	4
76	3	362.0	14.25	203.2	8
89	3-1/2	362.0	14.25	203.2	8
102	4	362.0	14.25	203.2	8
127	5	362.0	14.25	203.2	8
152	6	362.0	14.25	203.2	8

INSTALLATION OF EXPANSION JOINTS

USING EXPANSION JOINTS



Proper functioning of an expansion joint depends on three procedures:

1. The correct placement of the expansion joint.
2. The proper installation of Scepter Rigid PVC Conduit and the expansion joint.
3. The proper placement and fastening of support straps.

One Expansion Joint - Figure 1

If only one expansion joint is needed between two boxes, the barrel of the joint should be rigidly fastened close to the first box. Scepter Rigid PVC Conduit should then be loosely supported with straps, allowing the conduit to move freely as it expands and contracts.

Two Expansion Joints - Figure 2

If two expansion joints are needed, the joints should be firmly fastened back to back at the centre of the run. Scepter Rigid PVC Conduit should be loosely supported with straps, allowing the conduit to move freely as it expands and contracts.

Two Expansion Joints (Alternative) - Figure 3

Alternatively, the centre of the run and the two expansion joints (located at the boxes) should be rigidly fastened. All other support straps should be loosely fastened.

Three or More Expansion Joints - Figure 4

If more than two joints are needed in a very long run, they should be put in a series, one after the other. Each barrel must be rigidly fastened while conduit is loosely supported with straps allowing the conduit to move freely as it expands and contracts. When installed in a series, each section acts independently of the other. Spacing of conduit supports must be in accordance with Section 12-1114 of the Canadian Electrical Code or NEC Article 347-8. (See Table on Support Spacing)

INSTALLATION RECOMMENDATIONS

- Expansion joints should be mounted so the piston can travel in a straight line in the barrel. If the alignment is not straight, the piston will bind, preventing the joint from functioning correctly.
- The expansion joint barrel should be clamped tight, but the conduit mounted loose enough in its hangers to allow for movement as it expands and contracts.
- Scepter nonmetallic straps are correctly sized and designed for proper support, and must be used to secure the conduit.
- When expansion joints are used in a vertical position, the piston should be mounted in a downward position so dirt cannot deposit between the barrel and piston at the muzzle of the expansion joints.

Figure 1

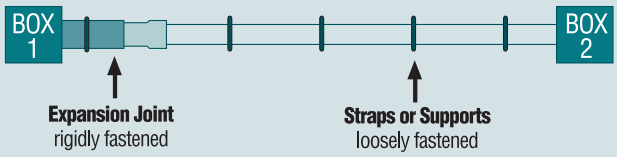


Figure 2

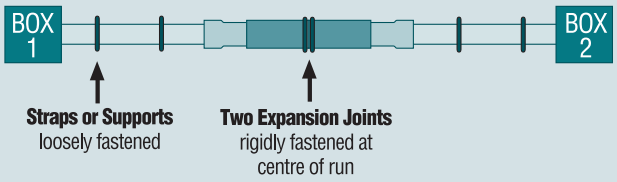


Figure 3

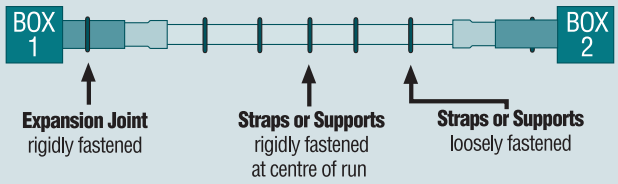
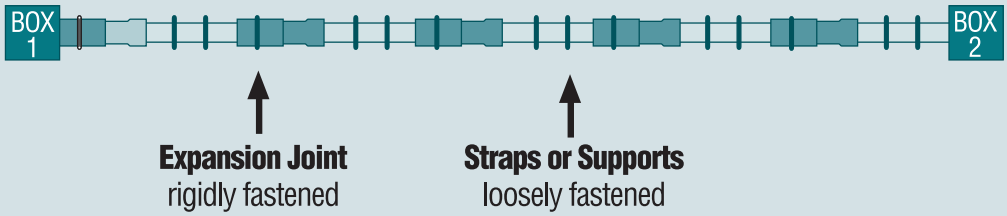


Figure 4



COMMON MISTAKES

Three common mistakes are:

1. Forgetting to use expansion joints.
2. Not using enough expansion joints.
3. Overtightening of support straps.

It is more cost effective to use more expansion joints than needed, rather than too few. It is difficult to correct the problem after conductors are installed and in service. Failure to accomodate expansion/contraction may result in pipe fracture.

LISTINGS

Scepter Rigid PVC Conduit is certified to the following:

CSA C22.2 No. 211.2
CSA C22.2 No. 211.0

UL Listed-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 are certified to the following:

C-22.2 No. 85

UL Listed
UL514B - UL514C
Approvals

Canadian Electrical Code, Part 1
Rules 12-1100 – 12-1122

NRTL/C

APPROVALS

Canadian Electrical Code, Part 1. Rules 12-1100 – 12-1122

SAMPLE 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.

CONDUIT DIMENSIONS

RIGID CONDUIT

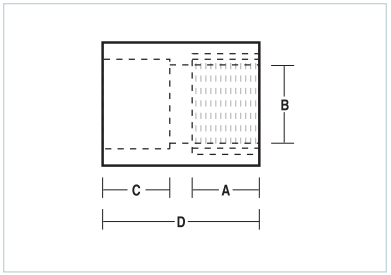
Nominal Size inches	mm	Product Code	O.D. inches	mm	I.D. inches	mm	Min. Wall inches	mm	Weight lbs./100	kg/100m	Standard ft./crate
1/2	12	(10') 032105 (20') 032106	0.840	21.3	0.622	15.8	0.109	2.8	15	22.6	6,000 12,000
3/4	20	(10') 032107 (20') 032108	1.050	26.7	0.824	20.9	0.113	2.9	21	31.2	4,400 8,800
1	25	(10') 032110 (20') 032111	1.315	33.4	1.049	26.6	0.133	3.4	31	46.2	3,600 7,200
1-1/4	32	(10') 032112 (20') 032114	1.660	42.2	1.380	35.1	0.140	3.6	42	63.0	3,300 6,600
1-1/2	40	(10') 032115 (20') 032116	1.900	48.3	1.610	40.9	0.145	3.7	53	78.4	2,250 4,500
2	50	(10') 032120 (20') 032121	2.375	60.3	2.067	52.5	0.154	3.9	71	105.5	1,400 2,800
2-1/2	65	(10') 032125 (20') 032126	2.875	73.0	2.469	62.7	0.203	5.2	112	167.2	780 1,560
3	75	(10') 032130 (20') 032131	3.500	88.9	3.068	77.9	0.216	5.5	166	247.8	780 1,560
3-1/2	90	(10') 032135 (20') 032136	4.000	101.6	3.548	90.1	0.226	5.7	200	297.7	630 1,260
4	100	(10') 032140 (20') 032141	4.500	114.3	4.026	102.3	0.237	6.0	236	352.4	600 1,200
5	125	(10') 032150 (20') 032151	5.563	141.3	5.047	128.2	0.258	6.6	321	478.5	230 460
6	150	(10') 032160 (20') 032161	6.625	168.3	6.065	154.1	0.280	7.1	417	621.0	260 520

WEIGHT COMPARISON OF RIGID PVC CONDUIT

Nominal Size		Rigid PVC		Aluminum		Rigid Steel	
inches	mm	inches	mm	inches	mm	inches	mm
1/2	12	15	23	28	41	79	118
3/4	20	21	31	27	54	105	157
1	25	31	46	53	79	153	228
1-1/4	32	42	63	70	104	201	300
1-1/2	40	53	78	86	129	249	371
2	50	71	106	116	173	334	498
2-1/2	65	112	167	183	272	527	786
3	75	166	248	239	356	690	1029
3-1/2	90	200	298	288	429	831	1239
4	100	236	352	340	507	982	1464
5	125	321	479	465	694	1334	1989
6	150	417	621	613	914	1771	2641

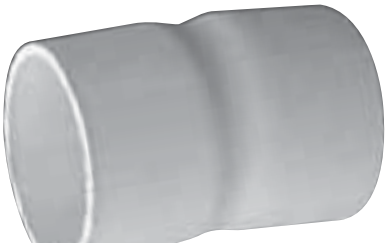
COUPLINGS

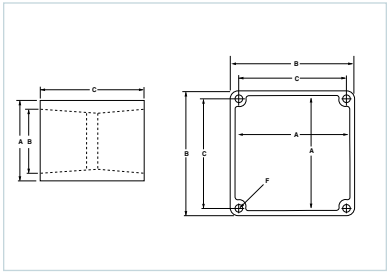
Size (inches)	Part Number	Product Code	A (inches)	B (inches)	C (inches)
1/2	EC10	077001	1.080	0.840	1.437
3/4	EC15	077002	1.300	1.050	1.703
1	EC20	077003	1.590	1.315	2.031
1-1/4	EC25	077004	2.000	1.660	2.156
1-1/2	EC30	077005	2.230	1.900	2.281
2	EC35	077006	2.720	2.375	2.406
2-1/2	EC40	077007	3.320	2.875	3.187
3	EC45	077008	4.000	3.500	3.437
3-1/2	EC50	077009	4.500	4.000	3.625
4	EC55	077010	5.000	4.500	3.750
5	EC60	077011	6.120	5.563	4.187
6	EC65	077012	7.370	6.625	4.562



5° COUPLINGS

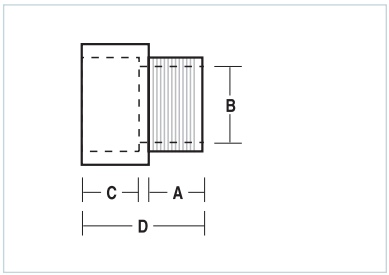
Size (inches)	Part Number	Product Code	L (inches)
2	5EC35	077100	4.0
2-1/2	5EC40	077101	5.5
3	5EC45	077103	6.0
3-1/2	5EC50	077102	7.0
4	5EC55	077104	7.0
5	5EC60	077105	7.5
6	5EC65	077106	11.0





TERMINAL ADAPTERS

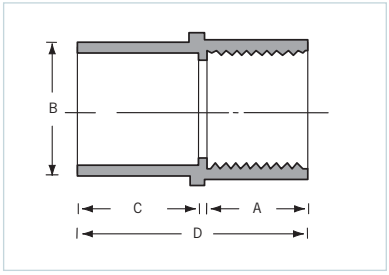
1/2" - 1-1/4" Tapered Thread; 1-1/2" - 6" Non-Tapered Thread



Size (inches)	Part Number	Product Code	A (inches)	B (inches)	C (inches)	D (inches)
1/2	TA10	077021	0.700	0.591	0.750	1.550
3/4	TA15	077022	0.675	0.790	1.000	1.750
1	TA20	077023	0.625	1.000	1.115	1.860
1-1/4	TA25	077024	0.640	1.311	1.300	2.125
1-1/2	TA30	077025	0.725	1.530	1.425	2.250
2	TA35	077026	0.800	1.970	1.150	2.100
2-1/2	TA40	077027	0.800	2.346	1.900	2.930
3	TA45	077028	0.815	2.915	2.000	3.055
3-1/2	TA50	077029	1.000	3.385	1.715	3.055
4	TA55	077030	0.815	3.850	1.990	3.215
5	TA60	077031	1.105	4.810	2.000	5.985
6	TA65	077032	1.105	5.825	2.130	6.500

FEMALE ADAPTERS

NPT Tapered Thread



Size (inches)	Part Number	Product Code	A (inches)	B (inches)	C (inches)	D (inches)
1/2	FA10	077041	0.800	0.620	0.825	1.725
3/4	FA15	077042	0.800	0.820	1.000	1.900
1	FA20	077043	1.000	1.065	1.200	2.300
1-1/4	FA25	077044	1.015	1.395	1.300	2.425
1-1/2	FA30	077045	1.050	1.575	1.290	2.440
2	FA35	077046	1.075	2.050	1.375	2.550
2-1/2	FA40	077047	1.675	2.470	1.985	3.760
3	FA45	077048	1.630	3.090	2.150	4.100
3-1/2	FA50	077049	1.800	3.540	2.000	3.985
4	FA55	077050	1.755	4.025	2.185	4.210
5	FA60	077051	2.065	5.035	3.000	5.240
6	FA65	077052	2.065	6.045	3.000	5.235

REDUCER BUSHINGS

Size (inches)	Part Number	Product Code
3/4 x 1/2	1805	077300
1 x 1/2	1805-1	077301
1 x 3/4	1806	077302
1-1/4 x 3/4	1807-1	077303
1-1/4 x 1	1807	077304
1-1/2 x 1	1808-1	077305
1-1/2 x 1-1/4	1808	077306
2 x 1	1809-1	077313
2 x 1-1/4	1809	077307
2 x 1-1/2	1810	077308
2-1/2 x 2	1811	077309
3 x 2	1812-1	077310
3 x 2-1/2	1812	077311
4 x 2	1813-1	077319
4 x 3	1813	077312
4 x 3-1/2	1814	077317

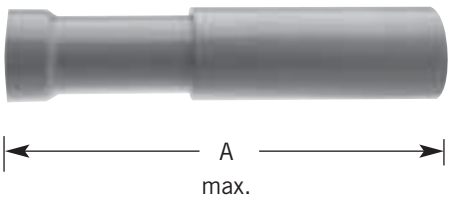
THREADED REDUCER BUSHINGS

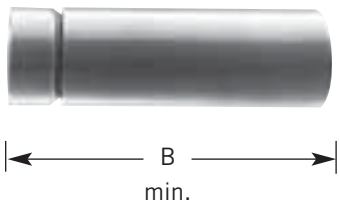
Size (inches)	Part Number	Product Code
3/4 x 1/2	1825	077314
1 x 1/2	1826	077315
1 x 3/4	1827	077316

END CAPS

Size (inches)	Part Number	Product Code
1/2	CAP10	077421
3/4	CAP15	077422
1	CAP20	077423
1-1/4	CAP25	077424
1-1/2	CAP30	077425
2	CAP35	077426
2-1/2	CAP40	077427
3	CAP45	077428
3-1/2	CAP50	077429
4	CAP55	077430
5	CAP60	077431
6	CAP65	077432

"O" RING EXPANSION JOINTS





Size (inches)	Part Number	Product Code	A (in.) max.	B (in.) min.	Travel (in)
1/2	EJ10	077381	12.00	8.00	4
3/4	EJ15	077382	12.00	8.00	4
1	EJ20	077383	12.50	8.50	4
1-1/4	EJ25	077384	13.00	9.00	4
1-1/2	EJ30	077385	13.00	9.00	4
2	EJ35	077386	13.25	9.25	4
2-1/2	EJ40	077387	13.25	9.25	4
3	EJ45	077388	22.25	14.25	8
3-1/2	EJ50	077389	22.25	14.25	8
4	EJ55	077390	22.25	14.25	8
5	EJ60	077391	22.25	14.25	8
6	EJ65	077392	22.25	14.25	8

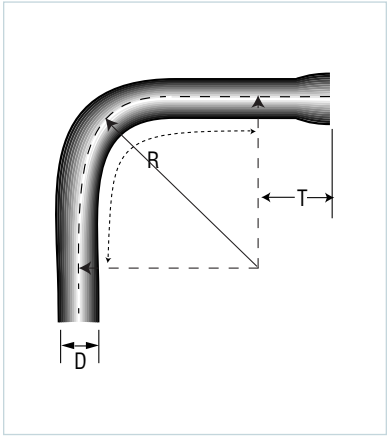
EXPANSION & DEFLECTION FITTING ASSEMBLIES

Size (inches)	Part Number	Description	Product Code
2	SE-J-35	Complete Assembly	077889
3	SE-J-45	Complete Assembly	077890
4	SE-J-55	Complete Assembly	077891

UTILITY 90° ELBOWS

c/w Solvent Bell End

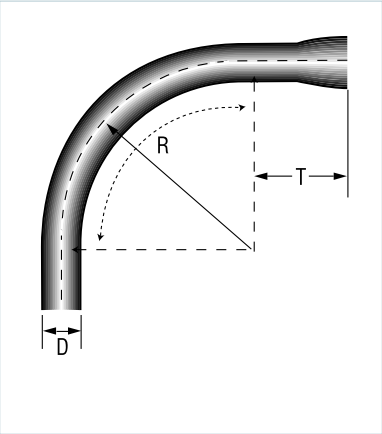
Size (inches)	Part Number	Product Code	D (inches)	T (inches)	R (inches)
2	NSL 2-24	069257	2.375	41.200	24.00
2	NSL 2-36	069260	2.375	31.700	36.00
3	NSL 3-24	069265	3.500	41.200	24.00
3	NSL 3-36	069261	3.500	31.700	36.00
4	NSL 4-36	069267	4.500	31.700	36.00
4	NSL 4-48	069266	4.500	31.700	48.00
5	NSL 5-36	069263	5.563	31.700	36.00
6	NSL 6-36	069264	6.625	31.700	36.00



CSA Utility 90° Elbows are made from 10 ft. pipe.

90° ELBOWS

c/w Solvent Bell End

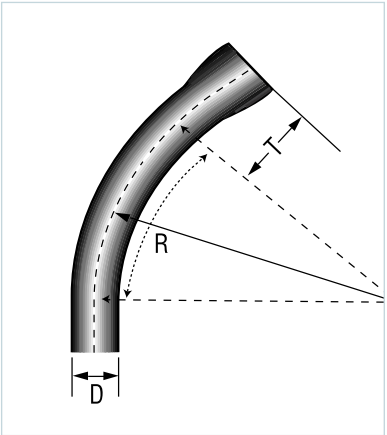


Size (inches)	Part Number	Product Code	D (inches)	T (inches)	R (inches)
1/2	EE1090	069081	0.840	1.500	4.00
3/4	EE1590	069082	1.050	1.500	4.50
1	EE2090	069083	1.315	1.875	5.75
1-1/4	EE2590	069084	1.660	2.000	7.25
1-1/2	EE3090	069085	1.900	2.000	8.25
2	EE3590	069086	2.375	2.000	9.50
2-1/2	EE4090	069087	2.875	3.000	10.50
3	EE4590	069088	3.500	3.125	13.00
3-1/2*	EE5090	069089	4.000	3.250	15.00
4	EE5590	069090	4.500	3.375	16.00
5	EE6090	069091	5.563	3.625	24.00
6	EE6590	069092	6.625	3.750	30.00

* plain end only

45° ELBOWS

c/w Solvent Bell End



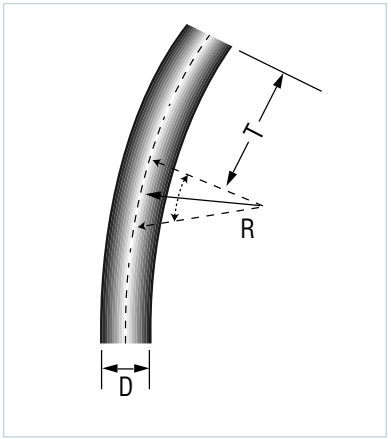
Size (inches)	Part Number	Product Code	D (inches)	T (inches)	R (inches)
1/2	EE1045	069201	0.840	1.500	4.00
3/4	EE1545	069202	1.050	1.500	4.50
1	EE2045	069203	1.315	1.875	5.75
1-1/4	EE2545	069204	1.660	2.000	7.25
1-1/2	EE3045	069205	1.900	2.000	8.25
2	EE3545	069206	2.375	2.000	9.50
2-1/2	EE4045	069207	2.875	3.000	10.50
3	EE4545	069208	3.500	3.125	13.00
3-1/2*	EE5045	069209	4.000	3.250	15.00
4	EE5545	069210	4.500	3.375	16.00
5	EE6045	069211	5.563	3.625	24.00
6	EE6545	069212	6.625	3.750	30.00

* plain end only

30° ELBOWS

Plain End x Plain End

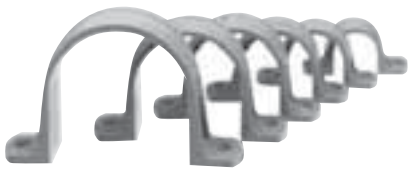
Size (inches)	Part Number	Product Code	D (inches)	T (inches)	R (inches)
1/2	EE1030	069241	0.840	1.500	4.00
3/4	EE1530	069242	1.050	1.500	4.50
1	EE2030	069243	1.315	1.875	5.75
1-1/4	EE2530	069244	1.660	2.000	7.25
1-1/2	EE3030	069245	1.900	2.000	8.25
2	EE3530	069246	2.375	2.000	9.50
2-1/2	EE4030	069247	2.750	3.000	10.50
3	EE4530	069248	3.500	3.125	13.00
3-1/2	EE5030	069249	4.000	3.250	15.00
4	EE5530	069250	4.500	3.375	16.00
5	EE6030	069251	5.563	3.625	24.00
6	EE6530	069252	6.625	3.750	30.00



PIPE STRAPS PVC

2 Hole

Size (inches)	Part Number	Product Code
1/2	PS10	077811
3/4	PS15	077812
1	PS20	077813
1-1/4	PS25	077814
1-1/2	PS30	077815
2	PS35	077816



PIPE STRAPS POLYETHYLENE (PE)

2 Hole

Size (inches)	Part Number	Product Code
2-1/2	PS40	077262
3	PS45	077263
4	PS55	077264

PIPE STRAPS COATED STEEL

2 Hole

Size (inches)	Part Number	Product Code
2	CS35	077818
2-1/2	CS40	077819
3	CS45	077820
3-1/2	CS50	077821
4	CS55	077822
5	CS60	077824
6	CS65	077823

PIPE STRAPS COATED STEEL

1 Hole

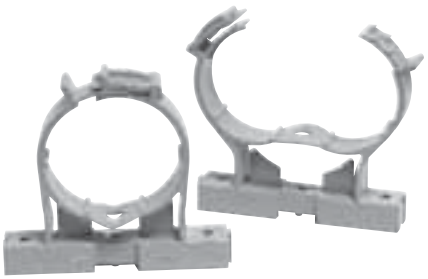
Size (inches)	Part Number	Product Code
1/2	CS10-1	077831
3/4	CS15-1	077832
1	CS20-1	077833
1-1/4	CS25-1	077834
1-1/2	CS30-1	077835
2	CS35-1	077836
2-1/2	CS40-1	077837
3	CS45-1	077838
3-1/2	CS50-1	077839
4	CS55-1	077840

CLAMPS & WALL SPACERS

NONMETALLIC CONDUIT CLAMPS & WALL SPACERS

Size (inches)	Part Number	Product Code	X (inches)	Y (inches	Z (inches)
1/2	CCS10	077794	1.191	2.414	1.824
3/4	CCS15	077796	1.195	2.660	2.106
1	CCS20	077797	1.215	2.962	2.443
1-1/4	CCS25	077798	1.182	3.300	2.855
1-1/2	CCS30	077799	1.193	3.600	3.170
2	CCS35	077800	1.195	4.135	3.785
Base	CCS-B	077343	-	-	-

Note: CCS-B are sold individually, two pieces are required to create one base unit.



ACCESS FITTINGS* TYPE LB

Hub Size (inches)	Part Number	Product Code
1/2	SLB10S	077541
3/4	SLB20S	077542
1	SLB30S	077543
1-1/4	SLB40S	077544
1-1/2	SLB50S	077545
2	SLB60S	077546
2-1/2	SLB70S	077547
3	SLB80S	077548
3-1/2	SLB90S	077549
4	SLB100S	077550

* All access fittings are CSA certified and all access fittings except Type TB are UL listed for wet locations. Supplied with threaded brass inserts, combination brass head screws and PVC gasketing.

* Stainless steel screws are available upon request.

ACCESS FITTINGS* TYPE LR

Hub Size (inches)	Part Number	Product Code
1/2	SLR10S	077481
3/4	SLR20S	077482
1	SLR30S	077483
1-1/4	SLR40S	077484
1-1/2	SLR50S	077485
2	SLR60S	077486
2-1/2	SLR70S	077480
3	SLR80S	077488
3-1/2	SLR90S	077487
4	SLR100S	077489

ACCESS FITTINGS* TYPE LL

Hub Size (inches)	Part Number	Product Code
1/2	SLL10S	077521
3/4	SLL20S	077522
1	SLL30S	077523
1-1/4	SLL40S	077524
1-1/2	SLL50S	077525
2	SLL60S	077526
2-1/2	SLL70S	077527
3	SLL80S	077528
3-1/2	SLL90S	077530
4	SLL100S	077529

* All access fittings are CSA certified and all access fittings except Type TB are UL listed for wet locations. Supplied with threaded brass inserts, combination brass head screws and PVC gasketing.

* Stainless steel screws are available upon request.

ACCESS FITTINGS* TYPE T

Hub Size (inches)	Part Number	Product Code
1/2	ST10S	077461
3/4	ST20S	077462
1	ST30S	077463
1-1/4	ST40S	077464
1-1/2	ST50S	077465
2	ST60S	077466
2-1/2	ST70S	077467
3	ST80S	077468
3-1/2	ST90S	077571
4	ST100S	077572

ACCESS FITTINGS* TYPE C

Hub Size (inches)	Part Number	Product Code
1/2	SC10S	077501
3/4	SC20S	077502
1	SC30S	077503
1-1/4	SC40S	077504
1-1/2	SC50S	077505
2	SC60S	077506
2-1/2	SC70S	077507
3	SC80S	077508
3-1/2	SC90S	077510
4	SC100S	077509

* All access fittings are CSA certified and all access fittings except Type TB are UL listed for wet locations. Supplied with threaded brass inserts, combination brass head screws and PVC gasketing.

* Stainless steel screws are available upon request.

ACCESS FITTINGS* TYPE E

Hub Size (inches)	Part Number	Product Code
1/2	SE10S	077561
3/4	SE20S	077562
1	SE30S	077563
1-1/4	SE40S	077564
1-1/2	SE50S	077565
2	SE60S	077566
2-1/2	SE70S	077567
3	SE80S	077568
3-1/2	SE90S	077569
4	SE100S	077570

ACCESS FITTINGS* TYPE TB

Hub Size (inches)	Part Number	Product Code
1/2	STB10S	077451
3/4	STB20S	077452
1	STB30S	077453
1-1/4	STB40S	077454
1-1/2	STB50S	077455
2	STB60S	077456

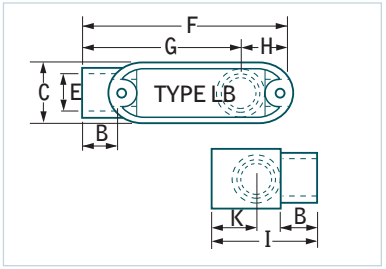
* All access fittings are CSA certified and all access fittings except Type TB are UL listed for wet locations. Supplied with threaded brass inserts, combination brass head screws and PVC gasketing.

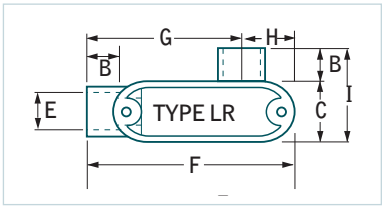
* Stainless steel screws are available upon request.

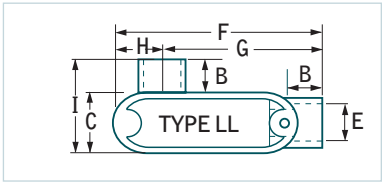
ACCESS FITTING DIMENSIONS

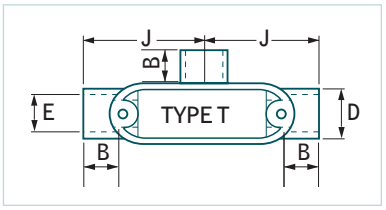
Size (inches)	A (inches)	B (inches)	C (inches)	D (inches)	E (inches)	F (inches)
1/2	5.606	0.639	1.268	1.100	0.840	4.337
3/4	5.606	0.810	1.536	1.325	1.050	5.395
1	6.500	0.910	1.700	1.660	1.335	6.250
1-1/4	7.900	1.050	2.300	2.250	1.100	7.625
1-1/2	8.500	1.125	2.675	2.250	1.900	8.250
2	10.875	1.160	3.188	2.820	2.375	10.531
2-1/2	14.600	1.750	4.500	3.950	2.870	13.630
3	14.600	1.900	4.500	3.950	3.510	13.630
3-1/2	17.040	2.125	5.536	5.000	4.000	16.000
4	17.040	2.125	5.536	5.000	4.530	16.000

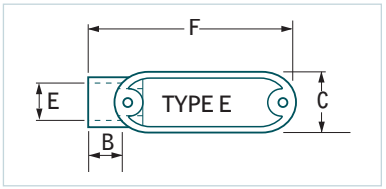
Size (inches)	G (inches)	H (inches)	I (inches)	J (inches)	K (inches)	L (inches)
1/2	4.095	1.297	2.487	2.280	1.005	0.750
3/4	4.095	1.297	2.487	2.803	1.005	0.810
1	4.750	1.500	2.075	3.250	1.125	1.115
1-1/4	5.750	1.750	3.575	3.950	1.562	1.300
1-1/2	6.500	1.750	3.938	4.250	1.656	1.425
2	8.156	2.344	4.535	5.438	1.968	1.160
2-1/2	9.825	3.805	6.240	7.300	2.610	-
3	10.897	2.733	6.240	7.300	2.610	-
3-1/2	11.465	4.535	7.500	8.535	2.975	-
4	11.465	4.535	7.500	8.535	2.975	-

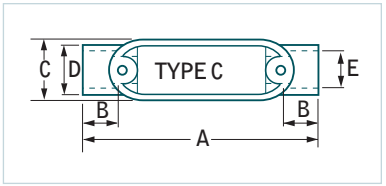


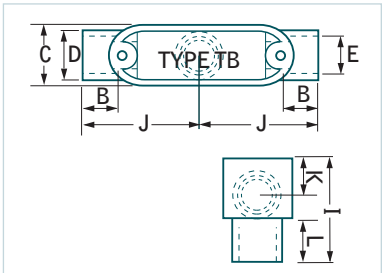












END BELLS

Size (inches)	Part Number	Product Code
1/2	EB-10	077406
3/4	EB-15	077085
1	EB-20	077323
1-1/4	EB-25	077324
1-1/2	EB-30	077325
2	EB-35	077326
2-1/2	EB-40	077327
3	EB-45	077328
3-1/2	EB-50	077329
4	EB-55	077330
5	EB-60	077331
6	EB-65	077332

SERVICE ENTRANCE FITTINGS

Size (inches)	Part Number	Product Code
1/2	EF10	077281
3/4	EF15	077282
1	EF20	077283
1-1/4	EF25	077284
1-1/2	EF30	077285
2	EF35	077286
2-1/2	EF40	077287
3	EF45	077288
3-1/2	EF50	077289
4	EF55	077290

METER OFFSETS & HUBS

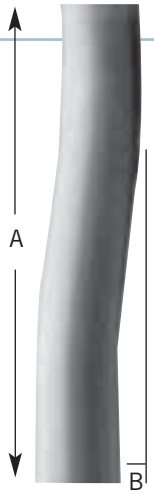
METER OFFSETS

Size (inches)	Part Number	Product Code
1-1/4	MO25	077941
2	MO35	077942

LONG METER OFFSETS

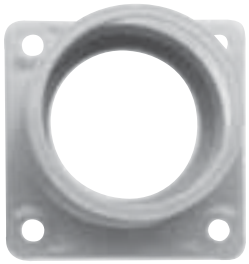
Fabricated

Size (inches)	Part Number	Product Code	A (inches)	B (offset)
1-1/4	LMO25	069641	12	0.92
1-1/2	LMO30	069645	12	1.69
2	LMO35	069646	14	1.52



METER HUBS

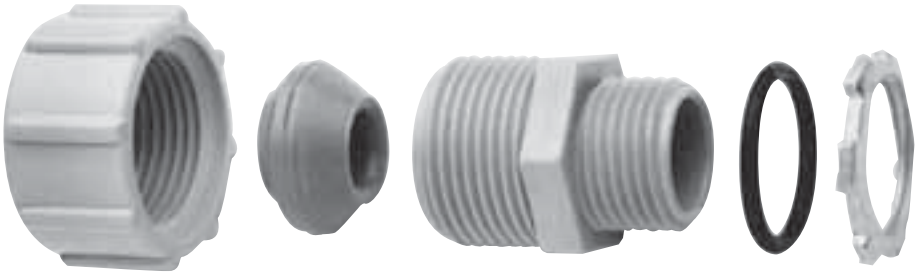
Size (inches)	Part Number	Product Code
1-1/4	MHU25	077961
1-1/2	MHU30	077963
2	MHU35	077965
2-1/2	MHU40	077967
3	MHU45	077968



NONMETALLIC THREADED STRAIN RELIEF CONNECTORS

c/w "O"Ring, Locknut & 6 Grommets

Size (inches)	Part Number	Product Code
1/2	TSRC10	077754
3/4	TSRC15	077756



STRAIN RELIEF CONNECTORS

c/w 6 Grommets

Size (inches)	Part Number	Product Code
3/4	SRC15	077985

STRAIN RELIEF CONNECTORS GROMMET DIMENSIONS

	FROM (inches)	TO (inches)		FROM (inches)	TO (inches)
	W = .195 L = .450	W = .285 L = .530		Ø = .290	Ø = .385
	W = .220 L = .516	W = .291 L = .565		Ø = .405	Ø = .500
	Ø = .240	Ø = .300"		Ø = .525	Ø = .625

"TWO IN ONE" PULL ELBOW

The "two in one" access pull elbow reduces inventory costs (3/4" hub fitting supplied with 3/4" x 1/2" reducers). This pull elbow is approved for wet locations and provides for easy wire pulling.

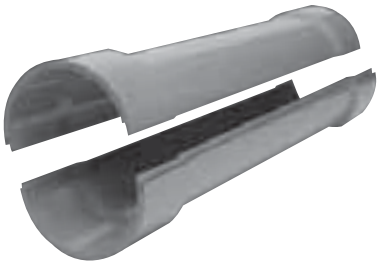
Size (inches)	Part Number	Product Code
1/2 or 3/4	PE15/10	077491

EPR KITS FOR CONDUIT REPAIR

EPR Kits from IPEX are the first total repair systems for broken and damaged PVC conduit. They offer fast and easy repairs for damaged conduit caused by actions such as earth excavation, horizontal and core drilling.

With unique interlocking joints, the EPR Kits' two half shell bell by bell pieces simply close around the installed wire and cable. Using standard PVC solvent cement, EPR Kits are quickly and easily assembled and connected, restoring the conduit to its original form.

EPR Kits are manufactured of high-impact and non-conductive PVC, ensuring a life long quality repair for your system. All sizes are 24 inches in length.



EPR KITS

Size (in) (inches)	Part Number	Product Code
1-1/4	EPR25	077976
1-1/2	EPR30	077971
2	EPR35	077972
2-1/2	EPR40	077973
3	EPR45	077974
4	EPR55	077975
5	EPR60	077977
6	EPR65	077979

PE FUSION BONDING SYSTEM

PE Fusion is a high strength modified acrylic adhesive, formulated to chemically bond a variety of dissimilar materials.

The PE Fusion Bonding System is an excellent polyethylene adhesive for the connection of HDPE pipe to standard PVC fittings and other non-standard materials such as fiberglass, LDPE, ABS and polycarbonate. It is ideal for use with IPEX's EPR Kits to easily complete a repair of damaged HDPE conduit.

Part Number	Product Description	Product Code
PEFKIT	PE Fusion Kit	178182
PEFCASE	PE Fusion Case	178183
PEF35	PE Fusion 35ml Cartridge	178184
PEFTIP	PE Fusion Static Mixer Tip	178185

PVC PIPE VIPER™

The Pipe Viper is an anti-corrosive coiled spring used to cold bend rigid PVC while maintaining the inner diameter of the conduit.

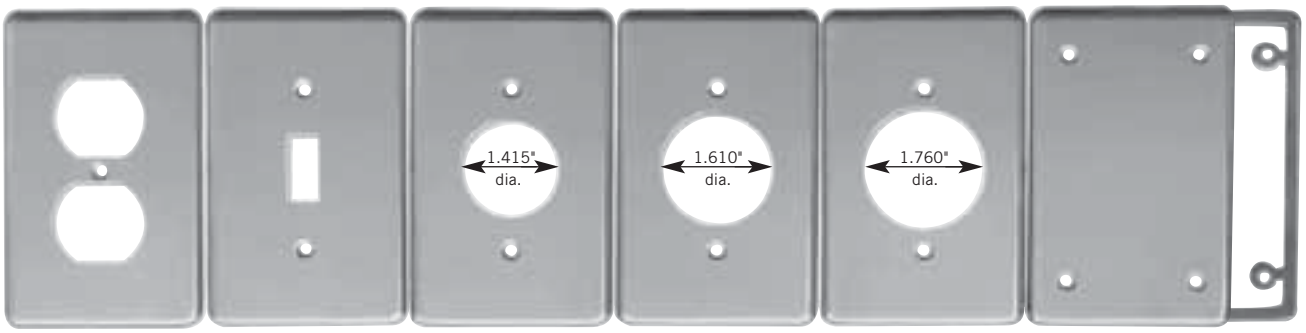
A time-saving tool, the Pipe Viper eliminates the ned for prefabricated elbows, special fittings and heat sources (heat gun, hot boxes, heating blankets) normally required to reshape conduit.

With the use of the Pipe Viper, PVC conduit with smaller diameters (1/2", 3/4" and 1") can be bent by hand, but all diameters can easily be bent using a pipe hickey.

Size (inches)	Part Number	Product Code
1/2	RSB-16HD	077636
3/4	RSB-20HD	077637
1	RSB-25HD	077638
1-1/4	RSB-30HD	077639
1-1/2	RSB-35HD	077640
2	RSB-40HD	077641

F SERIES - SINGLE GANG PLATES

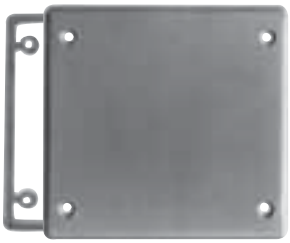
Description	Part Number	Product Code
Duplex Receptacle	DRC15/10	077617
Toggle Switch	TSC15/10	077616
Single Receptacle	20RC15/10	077618
Single Receptacle	20-3RC15/10	077619
Single Receptacle	30-3RC15/10	077620
Blank c/w Gasket	BRC15/10	077611
PVC Gasket	GASK15/10	077621



DRC15/10 TSC15/10 20RC15/10 20-3RC15/10 30-3RC15/10 BRC15/10 GASK 15/10

F SERIES - DOUBLE GANG PLATES

Description	Part Number	Product Code
Blank Cover c/w Gasket	BRC20-2	077614
Double Switch	TSC20-2	077738
Double Duplex Receptacle	DRC20-2	077740
Combo Switch Duplex Receptacle	TSDC20-2	077739
PVC Gasket	GASK20-2	077743



GASK20-2 BRC20-2

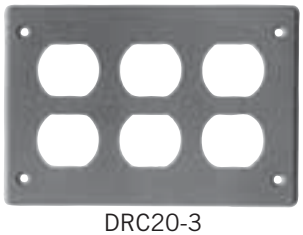
TSC20-2

DRC20-2

TSDC20-2

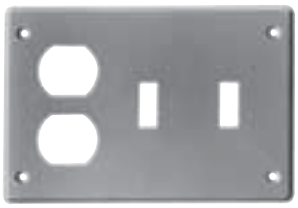
F SERIES - TRIPLE GANG PLATES

Description	Part Number	Product Code
Triple Receptacle	DRC20-3	077747
Combo Switch Receptacle	DSDR20-3	077745
Triple Switch	TSC20-3	077744
Combo Switch Receptacle	TSDC20-3	077746
Blank Cover c/w Gasket	BRC20-3	077748
PVC Gasket	GASK20-3	077749

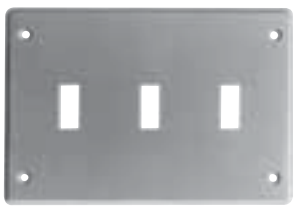


DRC20-3

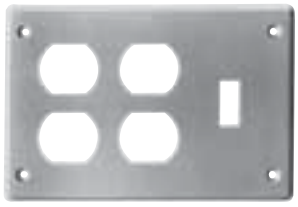
GASK20-3 BRC20-3



DSDR20-3



TSC20-3

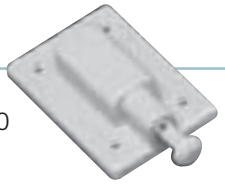


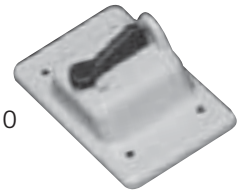
TSDC20-3

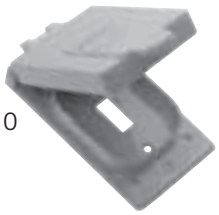
SINGLE GANG WEATHERPROOF COVERS

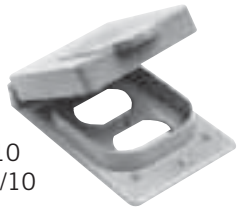
Description	Device Opening (in)	Part Number	Product Code
Plunger-style Switch Cover		VPT15/10	077630
Toggle Switch Cover		VSC15/10	077612
Grey Toggle Switch Cover		WTG15/10	077606
Grey Duplex Receptacle		WDR15/10	077993
White Duplex Receptacle		RWDR15/10	077786
Grey Ground Fault Receptacle		WGF15/10	077785
White Ground Fault Receptacle		RWGF15/10	077787
Single Receptacle Device 15 AMP	1.375	WTL15	077992
Single Receptacle Device 20 AMP	1.625	WTL20	077994
Single Receptacle Device 30 AMP	1.722	WTL30	077991
Single Receptacle Device 50 AMP	2.187	WTL50	077951
Grey Double Door Duplex Receptacle		WDRE15/10	077087
White Double Door Duplex Receptacle		RWDRE15/10	077408
Gasket for W Series Cover (except WDRE & RWDRE)		GASKW	077755
Gasket for WDRE & RWDRE Covers		GASKDD	072225

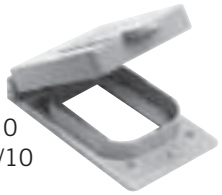
* Gaskets are included with all weatherproof covers.

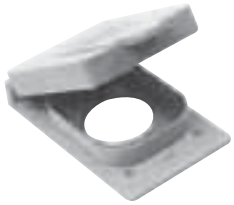

VPT15/10

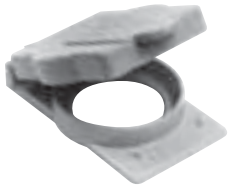

VSC15/10

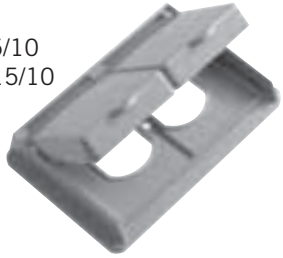

WTG15/10


WDR15/10
RWDR15/10

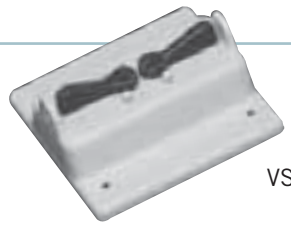

WGF15/10
RWGF15/10


WTL15
WTL20
WTL30

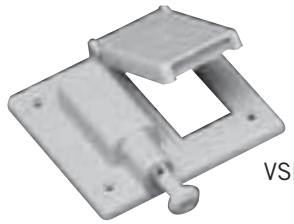

WTL50


WDRE15/10
RWDRE15/10

DOUBLE GANG WEATHERPROOF COVERS



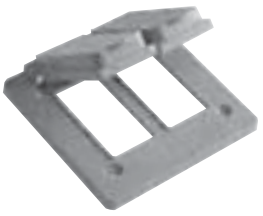
VSC20-2



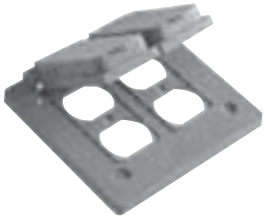
VSRC20-2

VSDR20-2

VSRR20-2



VSGG20-2



VSDD20-2

Description	Part Number	Product Code
Toggle Switch Cover	VSC20-2	077741
Combination Switch Cover & GFI Receptacle	VSRC20-2	077742
Combination Switch Cover & Duplex Receptacle	VSDR20-2	077752
Combination Switch Cover & Single Receptacle	VSRR20-2	077753
Double Door GFCI Cover	VSGG20-2	077096
Double Door Duplex Cover	VSDD20-2	077097
Gasket for Double Gang (except VSGG20-2 & VSDD20-2)	GASK20-2	077743
Gasket for VSGG20-2 and VSDD20-2 Double Gangs	GASKV20-2	072227

* Gaskets are included with all weatherproof covers.

* VSGG20-2 and VSDD20-2 are universal and will fit on most PVC and metal boxes.

F SERIES SINGLE GANG BOXES

Outside Dimensions:
Length, 4-9/16" - Width, 2-13/16 " - Depth, 2"

Hub Size (inches)	Part Number	Product Code	Volume (in3)
1/2	FSC10	077607	17.0
3/4	FSC15	077608	17.0
1/2	FS10	077601	17.5
3/4	FS15	077602	17.5
1/2	FSCC10	077622	16.3
3/4	FSCC15	077623	16.3
1/2	FSS10	077604	17.0
3/4	FSS15	077605	17.0

Note: 10 = 1/2" Hub, 15 = 3/4" Hub


FSC


FS


FSCC

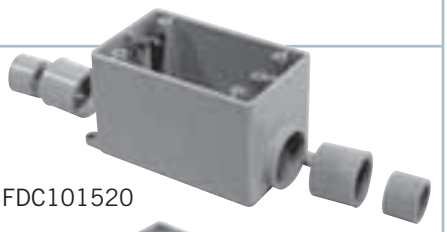

FSS

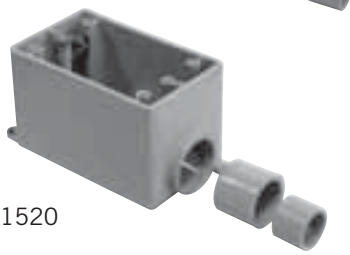
F SERIES SINGLE GANG DEEP BOXES

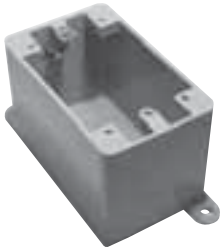
Outside Dimensions:
Height, 4 9/16" – Width, 2 13/16" – Depth 2 3/4", Cubic Inches = 35.30
With the exception of the FD Blank Box, Scepter FD Series Single Gang Deep Boxes are molded with 1" conduit hubs and supplied with reducer bushings. The conduit hub(s) are field modified as 1/2", 3/4" or 1" to accommodate job-site requirements. The appropriate quantity of 1" x 3/4" and 3/4" x 1/2" reducers to create the desired hub size are packaged with each FD Series Single Gang Deep Box.

Hub Size (inches)	Part Number	Product Code	Volume (in3)
1/2, 3/4, 1	FDC101520	077291	26.0
1/2, 3/4, 1	FDS101520	077299	26.8
BLANK	FD BLANK	077603	29.2
347 VOLT	FD347	077610	29.2

Note: 10 = 1/2" Hub, 15 = 3/4" Hub, 20 = 1" Hub

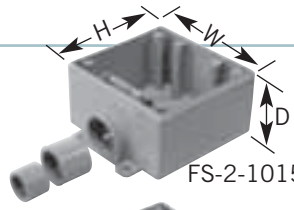

FDC101520


FDS101520

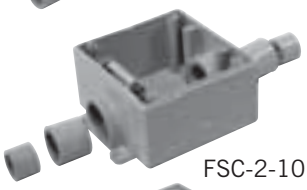

FD Blank

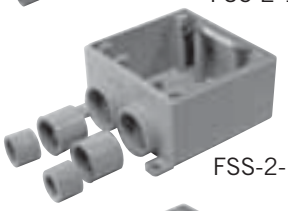
Note: All F Series boxes are supplied with integral mounting feet, threaded brass inserts and grounding clips.

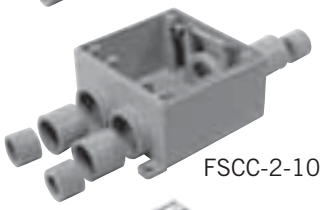
F SERIES DOUBLE GANG BOXES



FS-2-101520


FSC-2-101520


FSS-2-101520

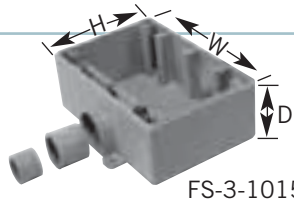

FSCC-2-101520


FD-2

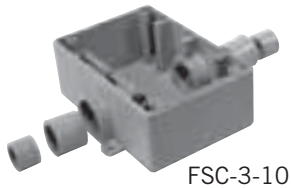
FS-2 cu.in = 39.5, FSC-2 & FSS-2 cu.in. = 37.0, FSCC-2 cu.in. = 36.0
With the exception of the FD-2 Blank Box, Scepter F Series Double Gang Boxes are molded with 1" conduit hubs and supplied with reducer bushings. The conduit hub(s) are field modified as 1/2", 3/4" or 1" to accommodate job-site requirements. The appropriate quantity of 1" x 3/4" and 3/4" x 1/2" reducers to create the desired hub size are packaged with each F Series Double Gang Box.

Hub Size (inches)	Part Number	Product Code
1/2, 3/4, 1	FS-2-101520	077440
1/2, 3/4, 1	FSC-2-101520	077441
1/2, 3/4, 1	FSS-2-101520	077442
1/2, 3/4, 1	FSCC-2-101520	077443
Blank	FD-2	077734

F SERIES TRIPLE GANG BOXES



FS-3-101520


FSC-3-101520

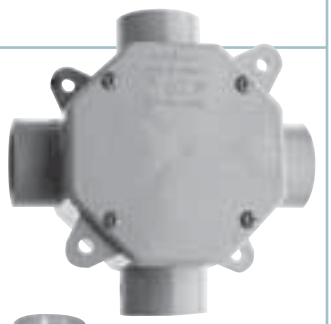

FD-3

With the exception of the FD-3 Blank Box, Scepter F Series Triple Gang Boxes are molded with 1" conduit hubs and supplied with reducer bushings. The conduit hub(s) are field modified as 1/2", 3/4" or 1" to accommodate job-site requirements. The appropriate quantity of 1" x 3/4" and 3/4" x 1/2" reducers to create the desired hub size are packaged with each F Series Triple Gang Box.

Hub Size (inches)	Part Number	Product Code
1/2, 3/4, 1	FS-3-101520	077337
1/2, 3/4, 1	FSC-3-101520	077438
Blank	FD-3	077737

Note: All F Series boxes are supplied with integral mounting feet, threaded brass inserts and grounding clips or bars.

OCTAGONAL BOXES*



Octagonal Boxes are shipped complete with cover, gasket, 4 reducing bushings (3/4" x 1/2"), and 4 sealing caps to be installed from inside box to seal off unused entry hubs.

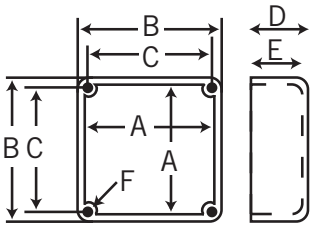
Size (inches)	Part Number	Hub Size (inches)	Product Code
4 x 1-1/2	OB15/10	1/2 - 3/4	077983*
4 x 2-1/8	OB20	1	077984*

OCTAGONAL BOX EXTENSION RINGS

Size (inches)	Part Number	Product Code
4 x 1 deep	XR20	077989
4 x 2 deep	XR35	077990

Note: Octagonal Boxes are not designed for supporting light fixtures.

PVC MOLDED JUNCTION BOXES



Junction boxes are supplied with threaded brass insert, brass screws, PVC gasketing and mounting feet. Nylon and stainless steel screws, as well as larger sizes of fabricated junctions box, are available upon request.
(F = Threaded brass insert size.)

Part Number	Product Code	A (inches)	B (inches)	C (inches)	D (inches)	E (inches)	F (inches)	Volume (in.³)
JB442	077659	3.675	4.000	3.450	2.125	2.000	8-32	26.5
JB444	077696	3.675	4.000	3.450	4.188	3.750	8-32	51.5
JB446	077669	3.675	4.000	3.450	6.225	6.000	8-32	78.0
JB552	077670	4.680	5.000	4.485	2.000	1.845	8-32	40.0
JB664	077697	6.000	6.375	5.813	4.188	4.000	10-32	138.0
JB666	077698	6.000	6.375	5.813	6.188	6.000	10-32	211.0
JB884	077664	8.075	8.625	7.966	4.230	4.005	1/4-20	434.0
JB887	077671	8.100	8.625	7.966	7.250	7.035	1/4-20	248.0
JB12124	077672	12.085	12.580	11.874	4.256	4.030	1/4-20	577.4
JB12126	077666	12.085	12.580	11.874	6.240	6.025	1/4-20	846.0
JB12128	077668	12.085	12.580	11.874	8.250	8.025	1/4-20	1102.0

Junction boxes are:

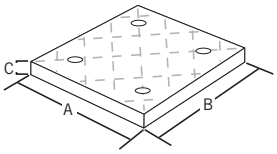
NEMA 1, 2, 3, 4, 4x, 6P, 12, 13 UL listed for wet locations.

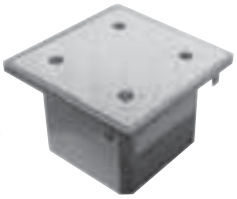
FABRICATED BOXES

Unflanged PVC fabricated boxes of any size may be made to customers' specifications and come complete with lids, gaskets and screws.
These boxes are not CSA Certified and are not returnable.

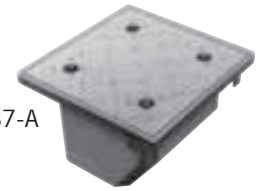
FLANGED BOX W FIBRE-REINFORCED SAFETY TREAD COVER

Scepter's Flanged 'H' Series Junction Boxes provide H10 Highway Loading equivalent to handling a 50 psi load. The fiber-reinforced safety tread cover secures using recessed Hex Key fastening hardware offering a simple installation while reducing the opportunity for tampering.





H887

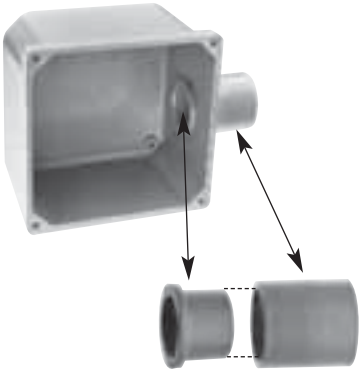


H887-A

Part Number	Product Code	Box ID (inches) L	W	D	Lid Dimensions (inches) A	B	C	Volume (in^3)
H664	077685	6	6	4 1/4	9.0	9.0	0.60	138.0
H666	077686	6	6	6 1/4	9.0	9.0	0.60	211.0
H884	077687	8	8	4 1/4	11.5	11.5	0.75	248.0
H886	077688	8	8	6 1/4	11.5	11.5	0.75	434.0
H887	077689	8	8	7 1/4	11.5	11.5	0.75	434.0
H887-A	077692	8	8	7 1/4	11.5	11.5	0.75	434.0

JUNCTION BOX ADAPTERS

Size (inches)	Part Number	Product Code
1/2	JBA10	077721
3/4	JBA15	077722
1	JBA20	077723
1-1/4	JBA25	077724
1-1/2	JBA30	077725
2	JBA35	077726
2-1/2	JBA40	077727
3	JBA45	077728
3-1/2	JBA50	077729
4	JBA55	077730



Junction Box Adapter

Standard PVC Coupling

NONMETALLIC FLOOR BOX, COVER & METAL COVER ADAPTER

Installation is quick and simple, with our nonmetallic floor box and covers, saving both time and money over similar metallic assemblies.

Scepter's floor box and duplex receptacle covers are constructed from high impact, noncorroding and nonconducting PVC. The flush-mount covers are available in custom colors and are shipped with a levelling ring complete with a grounding clip. Metal cover adapter kits are also available, allowing you to adapt to metal floor plates. Our 6" deep floor box allows flexibility for various concrete floor pours, while our 4-3/4" width offers easy access and ample wire room. The box comes complete with 2 - 1" and 2 - 3/4" hub openings.

All boxes are shipped complete with reducer plugs for added versatility.

FB

AFMC

LRA-U

FBDRC

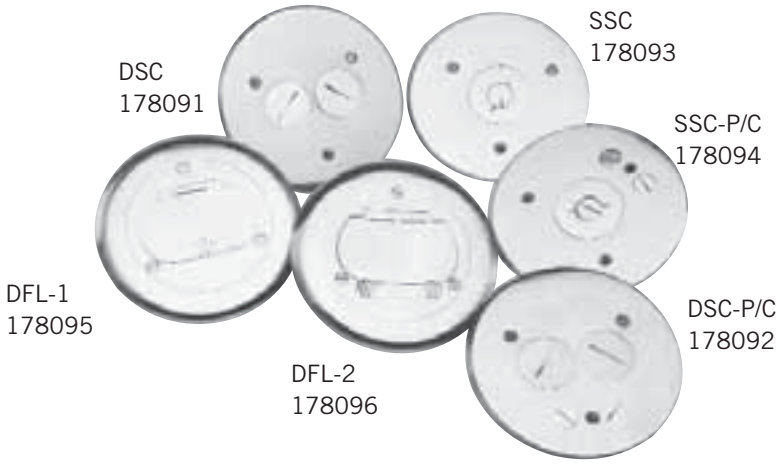
FBUDK

FBYC

Color Description		Part Number	Product Code
Floor Box Base (includes disposable protective cap and reducer plugs)		FB	076954
Floor Box Base c/w Leveling Ring Adapter (includes disposable protective cap, reducer plugs and leveling ring adapter)		FBKIT	077068
Metal Cover Adapter Kit (includes levelling ring, metal cover adapter and 2 gaskets)		AFMC	076953
Universal Leveling Ring Adapter		LRA-U	076606
Floor Box Duplex Receptacle Cover (Nonmetallic) (includes flush mount cover, blank cover & gasket)			
	Brown	FBDRCB	076943
	Gold	FBDRCG	076942
	Grey	FBDRCGr	076941
	Light Almond	FBDRCA	076940
Tri-Service Universal Divider Kit (includes upper and lower dividers, riser tube and 2 grommets)		FBUDK	077948
Y Connector (3/4")		FBYC	077499

BRASS COVER PLATES FOR NONMETALLIC FLOOR BOX

- Brass cover plates offer a one-piece design measuring 5-3/4" diameter.
- Available in a variety of styles accommodating power (single or duplex receptacle) and communication needs.
- Install to the FB box using the Universal Leveling Ring Adapter.



CONDUIT CEMENT

c/w Applicator Cap

Size	Part Number	Product Code
250ml	S100PT5	074713
500ml	S100PT	074714
1L	S100QT	074715
4L	S100GAL	074716

PRIMER

c/w Applicator Cap

Size	Part Number	Product Code
250ml	C100PT5	074306
500ml	C100PT	074307
1L	C100QT	074308

NOTES

NOTES

NOTES

Scepter®

FSC Mixed Sources
Product group from well-managed forests, controlled sources and recycled wood or fiber
www.fsc.org Cert no. SW-COC-002243
© 1996 Forest Stewardship Council
10%

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- Plumbing and mechanical piping systems
- Electrical systems
- Telecommunications and utility piping systems
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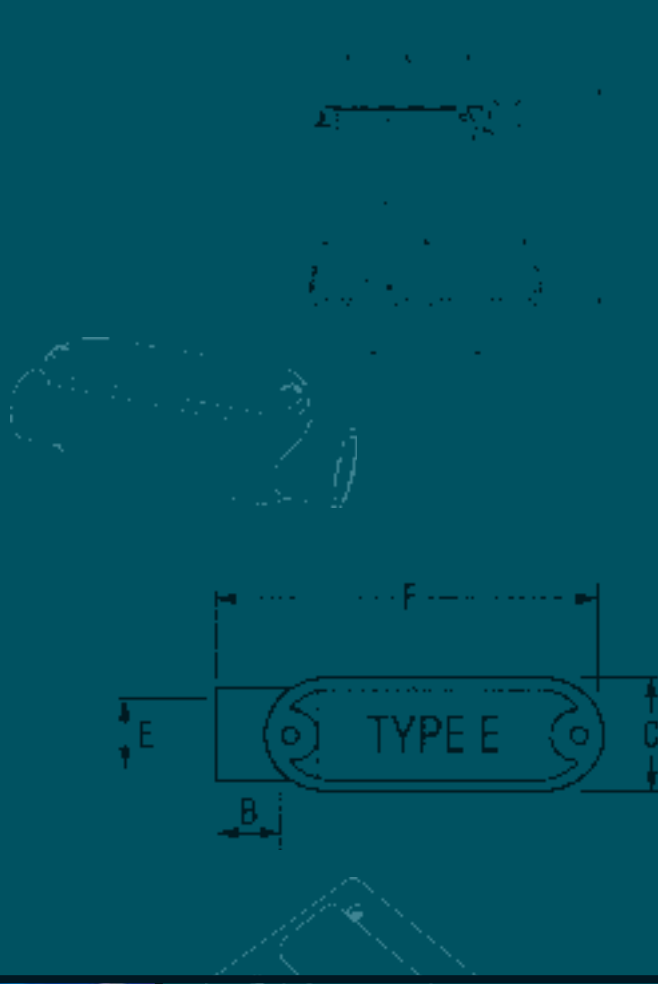
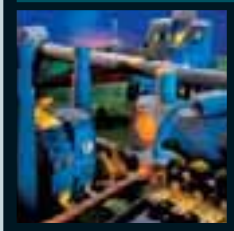
A policy of ongoing product improvement is maintained. This may result in modifications of features and/or specifications without notice.





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