

# Electrical Product Catalogue



[www.ipexna.com](http://www.ipexna.com)

ISSUE DATE: DECEMBER 2016

- Rigid PVC Conduit & Fittings
- Nonmetallic Tubing & Fittings (ENT)
- PVC Raceway for Horizontal Directional Drilling (HDD)
- Nonmetallic Light Fixtures
- Power & Communication Duct
- Specialty Products

  
**IPEX**  
Committed to Excellence

**We build tough products for tough environments.®**

**COR-LINE**

**KWIKON**

*Scepter JBox*

*Scepter*

**MONOBLOC**

*SceptaCon*

**INEXO**

**EPR**

**SUPER  
DUCT**

*Sceptalight*

**FIBERTEL**



Committed  
to **EXCELLENCE**

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

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







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# ELECTRICAL EASY SPEC

| PRODUCT   | SIZE RANGE  | STANDARDS  | APPLICATIONS   |
|---|---|--|--|
| RIGID PVC CONDUIT & FITTINGS                    |   |  |  |
| Scepter® Rigid PVC Conduit                      | 1/2" - 8"<br>(12mm - 200mm)   | CSA C22.2 No. 211.2, No.211.0, UL651, NEMA TC2   | Utilities, cable, communications, residential, airports, subways, bridges & tunnels, mines, marinas, water/sewage treatment plants, pulp & paper industries, street & highway lighting, food processing plants, agricultural, parking garages, car washes, fish plants,steel mills |
| Scepter® Rigid PVC Fittings                     | 1/2" - 8"<br>(12mm - 200mm)   | CSA C22.2 No. 85, UL Listed, UL514B - UL514C   |  |
| EPR® Repair Kit                                 | 1-1/4" - 6"<br>(30mm - 150mm)   | N/A  | DB II duct repair, rigid PVC repair, concrete encased, direct burial   |
| NONMETALLIC TUBING & FITTINGS                   |   |  |  |
| Cor-Line® ENT                                   | 1/2" - 2-1/2"<br>(12mm - 50mm)  | CSA C22.2 No. 227.1, UL 1653, NEMA TC-13   | Residential, commercial, institutional, hospitals & nursing homes, stadiums & arenas   |
| Kwikon® Fittings                                | 1/2" - 2-1/2"<br>(12mm - 50mm)  | CSA C22.2 No. 227.1, UL 514B   |  |
| PVC RACEWAY FOR HORIZONTAL DIRECTIONAL DRILLING |   |  |  |
| Sceptacon™ PVC for HDD                          | 2" - 6"<br>(75mm - 150mm)   | CSA C22.2 No. 211.0/211.2, UL 651, NEMATC2   | Environmentally sensitive areas, historical landmarks, road & highway crossings, urban areas, street lights, traffic lights  |
| NONMETALLIC LIGHT FIXTURES                      |   |  |  |
| Sceptalight™                                    | 3/4" (19mm)<br>Threaded hubs,<br>Ceiling mount,<br>Wall mount,<br>Pendant mount | Wet Locations: CSA C22.2 No. 250, UL 1598<br>Hazardous Locations: UL 844 CLASS I, DIV 2 Groups A, B, C & D, CLASS II, DIV 2 Groups F & G | Chemical plant, food processing, highway tunnels, mine tunnels, walk-in freezers, industrial/commercial, marine, agricultural, waste water, greenhouses  |
| POWER & COMMUNICATIONS DUCT                     |   |  |  |
| Super Duct® Pipe and Fittings                   | 2" - 6"<br>(50mm - 150mm)   | CSA C22.2 No. 211.1  | Utilities, telecom, hospitals/medical complexes, commercial buildings, communications, cable   |
| Monobloc® Spacers                               | 2" - 6"<br>(50mm - 150mm)   | N/A  | Underground duct banks, medical campus, university campus  |
| Interlocking Spacers                            | 2" - 5"<br>(50mm - 125mm)   | N/A  | Underground duct banks, medical campus, university campus  |
| SPECIALTY PRODUCTS                              |   |  |  |
| INEXO® ICF Boxes                                | 1/2", 3/4", 1"<br>(12mm, 19mm, 25mm)  | CSA C22.2 No. 18.2, UL514C   | Insulated concrete form (ICF) buildings, schools, churches, hotels   |
| Guy Guards                                      | 6-1/2' - 7'<br>(2m - 2.13m)   | N/A  | Support and stabilize poles & antennas   |
| TELECOMMUNICATION SYSTEMS                       |   |  |  |
| FiberTel® HDPE Innerduct                        | 1/2" - 8"<br>(12mm - 200mm)   | N/A  | Communication, data, cable television & general purpose ducting  |

# ELECTRICAL TYPE DESIGNATION

UL UNDERWRITERS LABORATORIES INC. (UL 50 AND UL 508)

| TYPE DESIGNATION | STANDARD   |
|------------------|--|
| 1                | Indoor use primarily to provide protection against contact with the enclosed equipment and against a limited amount of falling dirt.   |
| 2                | Indoor use to provide a degree of protection against limited amounts of falling water and dirt.  |
| 3                | Outdoor use to provide a degree of protection against windblown rain; undamaged by the formation of ice on the enclosure.  |
| 4                | Either indoor or outdoor use to provide a degree of protection against falling rain, splashing water, and hose-directed water; undamaged by the formation of ice on the enclosure.   |
| 4X               | Either indoor or outdoor use to provide a degree of protection against falling rain, splashing water, and hose-directed water; undamaged by the formation of ice on the enclosure; resists corrosion.                        |
| 6P               | Indoor or outdoor use primarily to provide a degree of protection against hose-directed water, the entry of water during prolonged submersion at a limited depth, and be undamaged by the formation of ice on the enclosure. |
| 12               | Indoor use to provide a degree of protection against dust, dirt, fiber flyings, dripping water, and external condensation of noncorrosive liquids.   |
| 13               | Indoor use to provide a degree of protection and spraying of water, oil, and noncorrosive liquids.   |

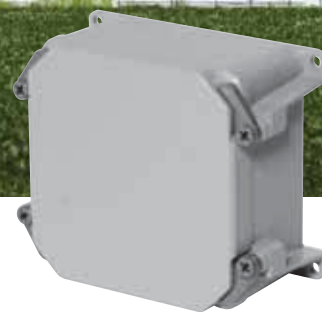
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# *Scepter*® JBox™

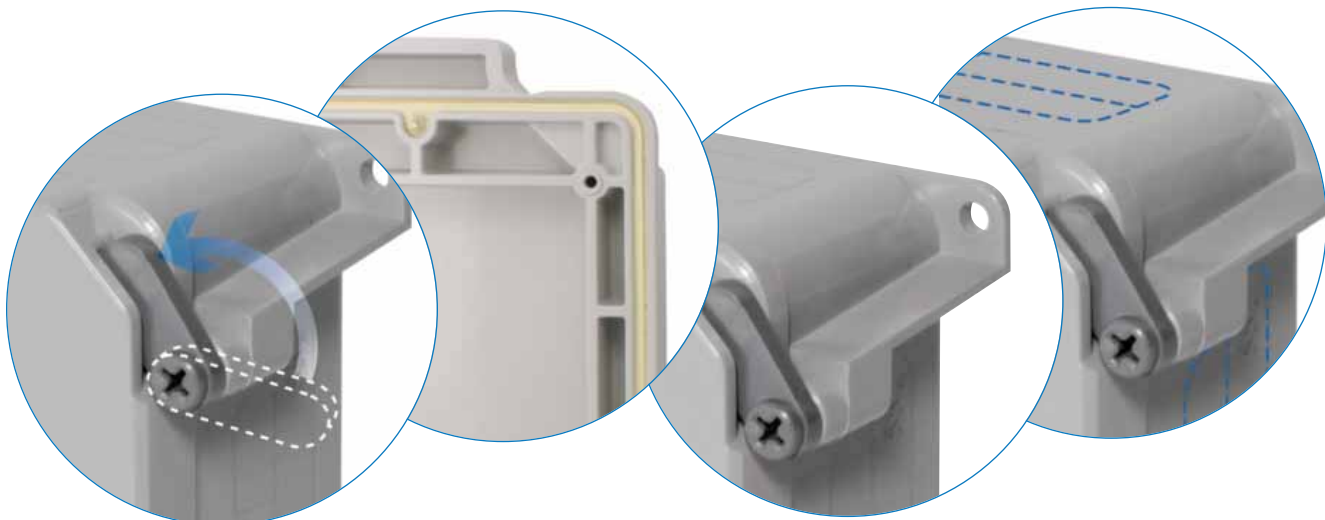
The Next Generation Junction Box



## Meet the FASTEST Junction Box to install anywhere!

We've completely redesigned the original junction box and added features to make this the quickest and easiest box for contractors to install – no matter the situation!

- ✓ Hand-close Fasteners
- ✓ Integrated Gasket
- ✓ Molded Mounting Feet
- ✓ Smooth Flat Cover
- ✓ Gridlines for drilling



To get the full picture go to [ipexna.com](http://ipexna.com)



We introduced PVC pipe in 1951. Since then, the type of challenges industry faces have changed. What hasn't changed is our commitment to meeting your needs. For more than three generations, the Scepter® line of rigid conduit and fittings - manufactured today by IPEX Electrical Inc. - has stood for quality, innovation and service.

In addition to our Scepter® brand, we offer the industry's widest selection of electrical nonmetallic tubing and fittings, all backed by a single source. Each product is specifically engineered to meet or even exceed the demanding standards of the Canadian electrical construction industries.

# Rigid PVC Conduit & Fittings



Scepter Rigid PVC Conduit & Fittings

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Scepter JBox

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EPR Repair Kits

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# 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, UL and NRTL.

## 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 Sunlight resistant

Electrical nonmetallic Scepter Rigid PVC conduit meets the 2009 electrical code criteria for sunlight resistance, is approved for the purpose, and is appropriately marked.

### 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.

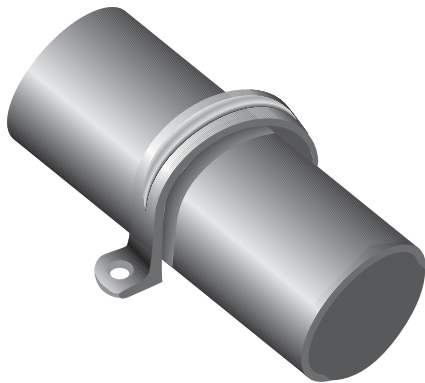
| IPEX Compound  | Flame Spread | Smoke Developed | Fuel Contribution |
|----------------|--------------|-----------------|-------------------|
| 1/8" thickness | 10 - 20      | 225 - 270       | 0                 |
| 3/4" thickness | 10 - 20      | 300 - 390       | 0                 |

### 11 Concrete Tight

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



# TECHNICAL INFORMATION



## SUPPORT

Due to PVC's light weight, 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   |

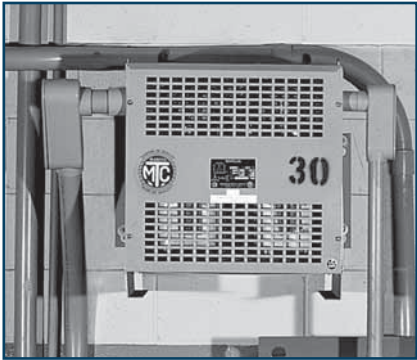


## MAX OPERATING TEMPERATURE

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.



## TECHNICAL INFORMATION

### 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 quarter-pint (125ml), 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 phenomenon. The maximum bending radius shall be six times the internal diameter according to the Canadian Electrical Code and the National Electrical Code.



# TECHNICAL INFORMATION EXPANSION FITTINGS

## USING EXPANSION JOINTS

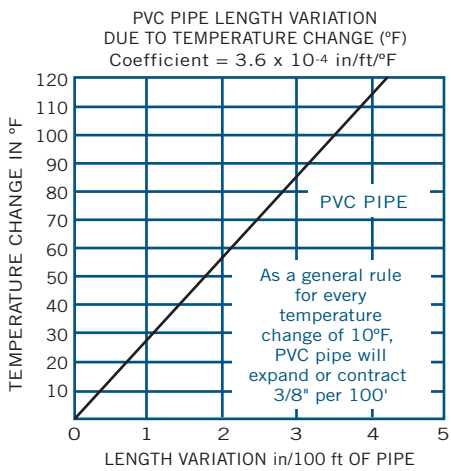
It is equally important to know when to install an expansion joint as it is to know how to correctly install the expansion joint. Expansion joints are required when the temperature change is greater than 25°F (14°C). Scepter Rigid PVC Conduit has a coefficient of linear expansion of  $3.6 \times 10^{-4}$  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.

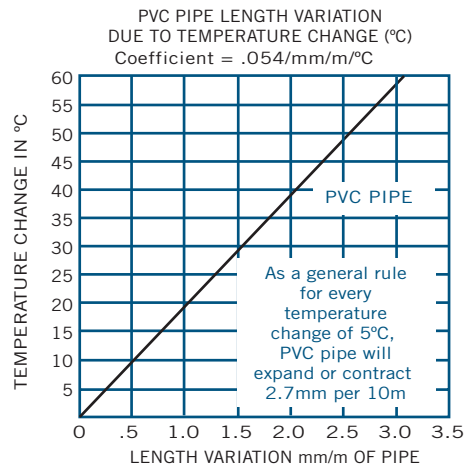
## EXPANSION FORMULA

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



# TECHNICAL INFORMATION EXPANSION FITTINGS

## 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.

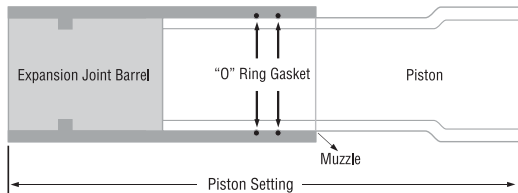
## SETTING THE PISTON OPENING

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    |

## 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.

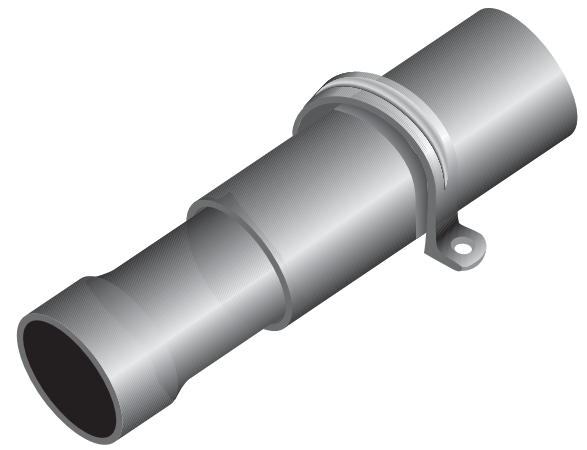
## TECHNICAL INFORMATION EXPANSION FITTINGS

### INSTALLATION OF EXPANSION JOINTS

#### USING EXPANSION JOINTS

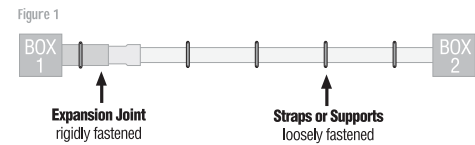
Proper functioning of an expansion joint depends on three procedures:

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.



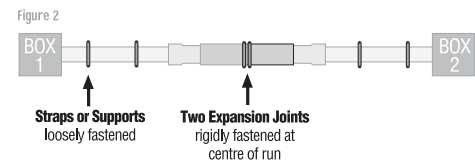
#### One Expansion Joint - Figure 1

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.



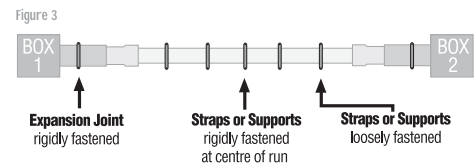
#### Two Expansion Joints - Figure 2

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.



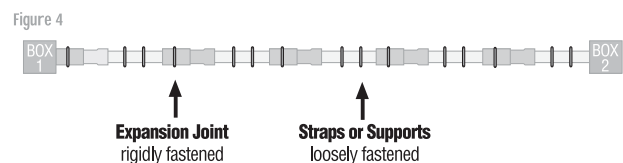
#### Two Expansion Joints (Alternative) - Figure 3

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.

## TECHNICAL INFORMATION

| Nominal Size |    | Rigid PVC |         | Aluminum  |         | Rigid Steel |         |
|--------------|----|-----------|---------|-----------|---------|-------------|---------|
| inches       | mm | lbs/100ft | kg/100m | lbs/100ft | kg/100m | lbs/100ft   | kg/100m |

### Weight Comparison of Rigid PVC Conduit

|       |     |     |     |     |     |      |      |
|-------|-----|-----|-----|-----|-----|------|------|
| 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 |

## PRODUCT SELECTION CHART & DIMENSIONS

| Nominal Size |    | Product Code | O.D.   |    | I.D.   |    | Min. Wall |    | Weight   |         | Standard ft./crate |
|--------------|----|--------------|--------|----|--------|----|-----------|----|----------|---------|--------------------|
| inches       | mm |              | inches | mm | inches | mm | inches    | mm | lbs./100 | kg/100m |                    |

### Rigid conduit

|       |     |                |                  |       |       |       |       |       |      |     |       |                 |
|-------|-----|----------------|------------------|-------|-------|-------|-------|-------|------|-----|-------|-----------------|
| 1/2   | 12  | (10')<br>(20') | 032105<br>032106 | 0.840 | 21.3  | 0.622 | 15.8  | 0.109 | 2.8  | 15  | 22.6  | 6,000<br>12,000 |
| 3/4   | 20  | (10')<br>(20') | 032107<br>032108 | 1.050 | 26.7  | 0.824 | 20.9  | 0.113 | 2.9  | 21  | 31.2  | 4,400<br>8,800  |
| 1     | 25  | (10')<br>(20') | 032110<br>032111 | 1.315 | 33.4  | 1.049 | 26.6  | 0.133 | 3.4  | 31  | 46.2  | 3,600<br>7,200  |
| 1-1/4 | 32  | (10')<br>(20') | 032112<br>032114 | 1.660 | 42.2  | 1.380 | 35.1  | 0.140 | 3.6  | 42  | 63.0  | 3,300<br>6,600  |
| 1-1/2 | 40  | (10')<br>(20') | 032115<br>032116 | 1.900 | 48.3  | 1.610 | 40.9  | 0.145 | 3.7  | 53  | 78.4  | 2,250<br>4,500  |
| 2     | 50  | (10')<br>(20') | 032120<br>032121 | 2.375 | 60.3  | 2.067 | 52.5  | 0.154 | 3.9  | 71  | 105.5 | 1,400<br>2,800  |
| 2-1/2 | 65  | (10')<br>(20') | 032125<br>032126 | 2.875 | 73.0  | 2.469 | 62.7  | 0.203 | 5.2  | 112 | 167.2 | 780<br>1,560    |
| 3     | 75  | (10')<br>(20') | 032130<br>032131 | 3.500 | 88.9  | 3.068 | 77.9  | 0.216 | 5.5  | 166 | 247.8 | 780<br>1,560    |
| 3-1/2 | 90  | (10')<br>(20') | 032135<br>032136 | 4.000 | 101.6 | 3.548 | 90.1  | 0.226 | 5.7  | 200 | 297.7 | 630<br>1,260    |
| 4     | 100 | (10')<br>(20') | 032140<br>032141 | 4.500 | 114.3 | 4.026 | 102.3 | 0.237 | 6.0  | 236 | 352.4 | 600<br>1,200    |
| 5     | 125 | (10')<br>(20') | 032150<br>032151 | 5.563 | 141.3 | 5.047 | 128.2 | 0.258 | 6.6  | 321 | 478.5 | 230<br>460      |
| 6     | 150 | (10')<br>(20') | 032160<br>032161 | 6.625 | 168.3 | 6.065 | 154.1 | 0.280 | 7.1  | 417 | 621.0 | 260<br>520      |
| 8     | 200 | (10')<br>(20') | 032180<br>032181 | 8.620 | 219.0 | 7.980 | 202.6 | 0.322 | 8.18 | 559 | 833.1 | 140<br>280      |

PHYSICAL PROPERTIES OF PVC TYPE II

| Properties                             | Unit               | Value              | ASTM Test Method |
|--|--------------------|--------------------|------------------|
| Electrical                             |                    |                    |                  |
| Dielectric Strength                    | volts/mil          | 1215               | D149             |
| Dielectric Constant                    | 60 cps at 30°C     | 3.55               | D150             |
|  | 1000 cps at 30°C   | 3.22               | D150             |
| Power Factor                           | 60 cps at 30°C     | 4.04               | D150             |
|  | 1000 cps at 30°C   | 4.71               | D150             |
| Physical                               |                    |                    |                  |
| Specific Gravity                       |                    | 13.5               | D792             |
| Hardness                               | Durometer D        | 78                 | D676             |
| Izod Impact Strength @ 73°F (23°C)     | ft.lb/in. notch    | 15.0               | D256             |
| Tensile Strength @ 73°F (23°C)         | psi                | 6000               | D638             |
| Compressive Strength                   | psi                | 8600               | D695             |
| Flexural Strength                      | psi                | 11500              | D790             |
| Thermal                                |                    |                    |                  |
| Coefficient of Thermal Conductivity    | BTU/sec/in2/°F/in. | 0.11               | C177             |
| Coefficient of Linear Expansion        | per °F x 10-5      | 5.5                | D696             |
| Heat Distortion Temperature at 264 psi | °F                 | 158                | D648             |
| Others                                 |                    |                    |                  |
| Flammability                           |                    | self-extinguishing | D635             |
| Water Absorption in 30 days            | %                  | 0.6                |                  |
| Color                                  |                    | charcoal grey      |                  |
| Light Transmission                     |                    | opaque             | D791             |

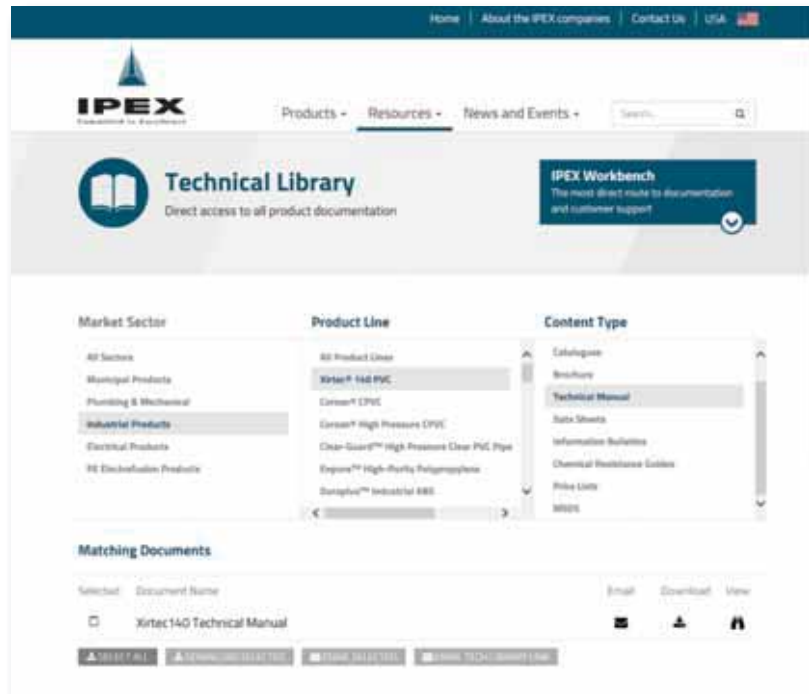
All technical data is believed to be accurate and is presented solely for information and guidance.



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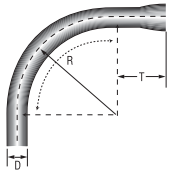
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## CONDUIT ELBOWS

| Size<br>inches | Part<br>Number | Product<br>Code | D<br>inches | T<br>inches | R<br>inches |
|----------------|----------------|-----------------|-------------|-------------|-------------|
|----------------|----------------|-----------------|-------------|-------------|-------------|

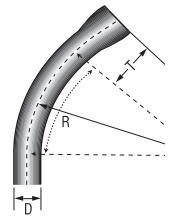
### 90° Elbows c/w Solvent Bell End (Bell End x Plain End)



\*plain end x plain end  
only

|        |        |        |       |       |       |
|--------|--------|--------|-------|-------|-------|
| 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 |
| 8*     | EE7090 | 069099 | 8.622 | 8.300 | 48.00 |

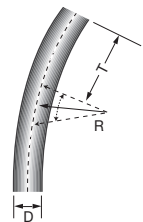
### 45° Elbows c/w Solvent Bell End (Bell End x Plain End)



\*plain end x plain end  
only

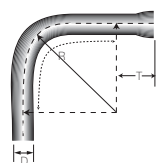
|        |        |        |       |       |       |
|--------|--------|--------|-------|-------|-------|
| 1/2    | EE1045 | 069201 | 0.840 | 1.500 | 4.00  |
| 3/4    | EE1545 | 069202 | 1.050 | 1.500 | 4.50  |
| 1      | EE2045 | 069203 | 1.315 | 1.875 | 5.75  |
| 1-1/4  | EE2545 | 069204 | 1.660 | 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 |
| 8*     | EE7045 | 069213 | 8.622 | 8.300 | 48.00 |

### 30° Elbows Plain End x Plain End



|       |        |        |       |       |       |
|-------|--------|--------|-------|-------|-------|
| 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 |
| 8     | EE7030 | 069254 | 8.622 | 8.300 | 48.00 |


### Utility 90° Elbows c/w Solvent Bell End (Bell End x Plain End)





|   |          |        |       |        |       |
|---|----------|--------|-------|--------|-------|
| 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.

## CONDUIT FITTINGS


|   | Size<br>inches | Part<br>Number | Product<br>Code |
|---|----------------|----------------|-----------------|
| <b>Pipe Straps PVC 2 Hole</b>   |                |                |                 |
|  | 1/2            | PS10           | 077811          |
|   | 3/4            | PS15           | 077812          |
|   | 1              | PS20           | 077813          |
|   | 1-1/4          | PS25           | 077814          |
|   | 1-1/2          | PS30           | 077815          |
|   | 2              | PS35           | 077816          |

|   |       |      |        |
|---|-------|------|--------|
| <b>Pipe straps Polyethylene (PE) 2 Hole</b>                                       |       |      |        |
|  | 2-1/2 | PS40 | 077262 |
|   | 3     | PS45 | 077263 |
|   | 4     | PS55 | 077264 |

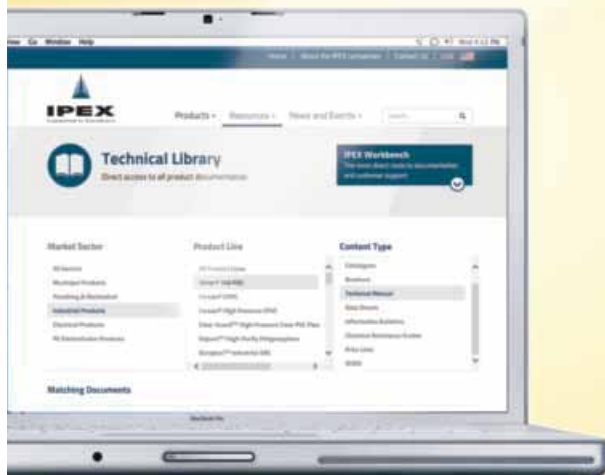
|   |       |       |        |
|---|-------|-------|--------|
| <b>Nonmetallic Conduit Clamps &amp; Wall Spacers</b>                              |       |       |        |
|  | 1/2   | CCS10 | 077794 |
|   | 3/4   | CCS15 | 077796 |
|   | 1     | CCS20 | 077797 |
|   | 1-1/4 | CCS25 | 077798 |
|   | 1-1/2 | CCS30 | 077799 |
|   | 2     | CCS35 | 077800 |
|   | Base  | CCS-B | 077343 |

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

|  | Size<br>inches | Part<br>Number | Product<br>Code |
|--|----------------|----------------|-----------------|
| <b>Pipe straps Coated Steel 1 Hole</b>   |                |                |                 |
|  | 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          |

|  |       |      |        |
|--|-------|------|--------|
| <b>Pipe straps Coated Steel 2 Hole</b>   |       |      |        |
|  | 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 |

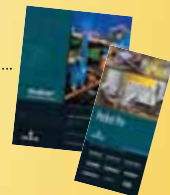
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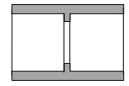
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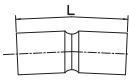
## CONDUIT FITTINGS

### Couplings



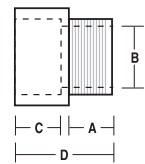
| Size<br>inches | Part<br>Number | Product<br>Code | A<br>inches | B<br>inches | C<br>inches |
|----------------|----------------|-----------------|-------------|-------------|-------------|
| 1/2            | EC10           | 077001          | 1.080       | 0.840       | 1.437       |
| 3/4            | 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<br>inches | Part<br>Number | Product<br>Code | L<br>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



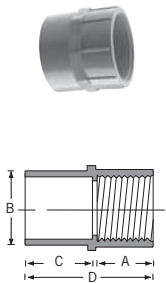
| Size<br>inches | Part<br>Number | Product<br>Code | A<br>inches | B<br>inches | C<br>inches | D<br>inches |
|----------------|----------------|-----------------|-------------|-------------|-------------|-------------|
| 1/2            | TA10           | 077021          | 0.700       | 0.591       | 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       |



## CONDUIT FITTINGS

| Size<br>inches | Part<br>Number | Product<br>Code | A<br>inches | B<br>inches | C<br>inches | D<br>inches |
|----------------|----------------|-----------------|-------------|-------------|-------------|-------------|
|----------------|----------------|-----------------|-------------|-------------|-------------|-------------|

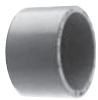
### Female Adapters NPT Tapered Thread



|       |      |        |       |       |       |       |
|-------|------|--------|-------|-------|-------|-------|
| 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 |

| Size<br>inches | Part<br>Number | Product<br>Code |
|----------------|----------------|-----------------|
|----------------|----------------|-----------------|

### Reducer Bushings



|               |        |        |
|---------------|--------|--------|
| 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



|           |      |        |
|-----------|------|--------|
| 3/4 x 1/2 | 1825 | 077314 |
| 1 x 1/2   | 1826 | 077315 |
| 1 x 3/4   | 1827 | 077316 |

| Size<br>inches | Part<br>Number | Product<br>Code |
|----------------|----------------|-----------------|
|----------------|----------------|-----------------|

### End Caps



|       |       |        |
|-------|-------|--------|
| 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 |
| 8     | CAP80 | 077657 |

### End Bells



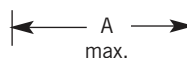
|       |       |        |
|-------|-------|--------|
| 1/2   | EB-10 | 077406 |
| 3/4   | EB-15 | 077085 |
| 1     | EB-20 | 077323 |
| 1-1/4 | EB-25 | 077324 |
| 1-1/2 | EB-30 | 077325 |
| 2     | EB-35 | 077326 |
| 2-1/2 | EB-40 | 077327 |
| 3     | EB-45 | 077328 |
| 3-1/2 | EB-50 | 077329 |
| 4     | EB-55 | 077330 |
| 5     | EB-60 | 077331 |
| 6     | EB-65 | 077332 |
| 8     | EB-80 | 077652 |

## EXPANSION FITTINGS

For use with Scepter rigid PVC conduit, Scepter Expansion Fittings accommodate for conduit thermal expansion and contraction. Available in an extensive range of sizes, expansion fittings are easily installed for each specific installation. For best performance, it is recommended that the EK is positioned immediately below the meter socket.

| Size inches | Part Number | Product Code | A (inches) max. | B (inches) min. | Travel inches |
|-------------|-------------|--------------|-----------------|-----------------|---------------|
|-------------|-------------|--------------|-----------------|-----------------|---------------|

### "O" Ring Expansion Joints



|       |      |        |       |       |   |
|-------|------|--------|-------|-------|---|
| 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 |

| Size inches | Part Number | Product Code |
|-------------|-------------|--------------|
|-------------|-------------|--------------|

### Expansion & Deflection Fitting Assemblies

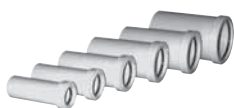


|   |         |        |
|---|---------|--------|
| 2 | SE-J-35 | 077889 |
| 3 | SE-J-45 | 077890 |
| 4 | SE-J-55 | 077891 |

complete assembly

| Size inches | Part Number | Product Code | A Dia. inches | 2 Length | 3 Length | Overall Length |
|-------------|-------------|--------------|---------------|----------|----------|----------------|
|-------------|-------------|--------------|---------------|----------|----------|----------------|

### One Piece Expansion Joints (OPEJ)



|       |        |        |       |       |       |      |
|-------|--------|--------|-------|-------|-------|------|
| 1/2   | OPEJ10 | 077018 | 1.102 | 0.60  | 2.465 | 3.25 |
| 3/4   | OPEJ15 | 077019 | 1.314 | 0.729 | 2.646 | 3.50 |
| 1     | OPEJ20 | 077053 | 1.610 | 0.885 | 2.725 | 3.75 |
| 1-1/4 | OPEJ25 | 077054 | 1.987 | 0.950 | 2.895 | 4.00 |
| 1-1/2 | OPEJ30 | 077061 | 2.208 | 1.075 | 3.030 | 4.25 |
| 2     | OPEJ35 | 077063 | 2.701 | 1.140 | 3.206 | 4.50 |

## CONDUIT FITTINGS

| Size<br>inches | Part<br>Number | Product<br>Code |
|----------------|----------------|-----------------|
|----------------|----------------|-----------------|

### Nonmetallic Threaded Strain Relief Connectors

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

|     |        |        |
|-----|--------|--------|
| 1/2 | TSRC10 | 077754 |
| 3/4 | TSRC15 | 077756 |



| From<br>inches | To<br>inches |
|----------------|--------------|
|----------------|--------------|

### Strain Relief Connectors Grommet Dimensions



W = .195

W = .285

L = .450

L = .530



W = .220

W = .291

L = .516

L = .565



Ø = .240

Ø = .300"

| Size<br>inches | Part<br>Number | Product<br>Code |
|----------------|----------------|-----------------|
|----------------|----------------|-----------------|

### Strain Relief Connectors c/w 6 Grommets

|     |       |        |
|-----|-------|--------|
| 3/4 | SRC15 | 077985 |
|-----|-------|--------|



| From<br>inches | To<br>inches |
|----------------|--------------|
|----------------|--------------|



Ø = .290

Ø = .385



Ø = .405

Ø = .500



Ø = .525

Ø = .625

## CEMENTS AND PRIMERS

| Size | Part<br>Number | Product<br>Code |
|------|----------------|-----------------|
|------|----------------|-----------------|

### Conduit Cement c/w Applicator Cap



|       |          |        |
|-------|----------|--------|
| 125ml | S100PT25 | 074717 |
| 250ml | S100PT5  | 074713 |
| 500ml | S100PT   | 074714 |
| 1L    | S100QT   | 074715 |
| 4L    | S100GAL  | 074716 |

| Size | Part<br>Number | Product<br>Code |
|------|----------------|-----------------|
|------|----------------|-----------------|

### Primer



|       |         |        |
|-------|---------|--------|
| 250ml | C100PT5 | 074306 |
| 500ml | C100PT  | 074307 |
| 1L    | C100QT  | 074308 |

### AVERAGE # OF JOINTS PER PINT OR QUART OF CEMENT

| Nominal Pipe Size<br>inches | Nominal Pipe Size<br>mm | # of Joints<br>per Pint | # of Joints<br>per Quart | Nominal Pipe Size<br>inches | Nominal Pipe Size<br>mm | # of Joints<br>per Pint | # of Joints<br>per Quart |
|-----------------------------|-------------------------|-------------------------|--------------------------|-----------------------------|-------------------------|-------------------------|--------------------------|
| 1/2                         | 12                      | 350                     | 700                      | 2-1/2                       | 12                      | 40                      | 80                       |
| 3/4                         | 19                      | 200                     | 400                      | 3                           | 19                      | 35                      | 70                       |
| 1                           | 25                      | 150                     | 300                      | 3-1/2                       | 25                      | 30                      | 60                       |
| 1-1/4                       | 32                      | 110                     | 220                      | 4                           | 32                      | 24                      | 48                       |
| 1-1/2                       | 38                      | 80                      | 160                      | 5                           | 38                      | 10                      | 20                       |
| 2                           | 50                      | 45                      | 90                       | 6                           | 50                      | 8                       | 16                       |

## ACCESS FITTINGS

No other manufacturer offers such an extensive range of access fitting sizes (1/2" to 4") or hub configurations (LB, T, LL, LR, TB, C, E). CSA certified and UL listed, Scepter access fittings come fully factory assembled so parts cannot be misplaced during shipping and handling.

Manufactured with threaded brass screws and inserts, and flexible PVC gaskets, Scepter access covers can be removed as often as needed without wear or cracking. Stainless steel screws are available on request.

| Size<br>inches | A<br>inches | B<br>inches | C<br>inches | D<br>inches | E<br>inches | F<br>inches |
|----------------|-------------|-------------|-------------|-------------|-------------|-------------|
|----------------|-------------|-------------|-------------|-------------|-------------|-------------|

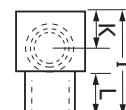
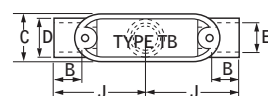
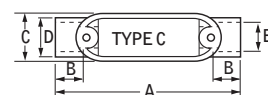
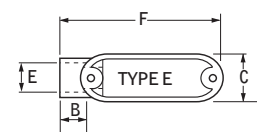
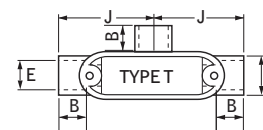
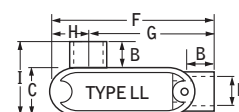
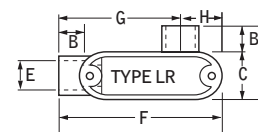
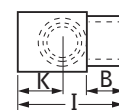
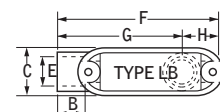
**Access Fitting Dimensions**

|       |        |       |       |       |       |        |
|-------|--------|-------|-------|-------|-------|--------|
| 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<br>inches | G<br>inches | H<br>inches | I<br>inches | J<br>inches | K<br>inches | L<br>inches |
|----------------|-------------|-------------|-------------|-------------|-------------|-------------|
|----------------|-------------|-------------|-------------|-------------|-------------|-------------|

**Access Fitting Dimensions**

|       |        |       |       |       |       |       |
|-------|--------|-------|-------|-------|-------|-------|
| 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 | -     |




All access fittings are CSA certified and UL listed for wet locations, except Type TB. Supplied with threaded brass inserts, combination brass head screws and PVC gasketing. Stainless steel screws are available upon request.




## ACCESS FITTINGS

|  | Hub Size<br>inches | Part<br>Number | Product<br>Code |
|--|--------------------|----------------|-----------------|
|--|--------------------|----------------|-----------------|


### Access fittings Type LB

|   |       |         |        |
|---|-------|---------|--------|
|  | 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 |


### Access fittings Type LL

|   |       |         |        |
|---|-------|---------|--------|
|  | 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 |

### Access Fittings Type T


|   |       |        |        |
|---|-------|--------|--------|
|  | 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 LR


|   |       |         |        |
|---|-------|---------|--------|
|  | 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 |

|  | Hub Size<br>inches | Part<br>Number | Product<br>Code |
|--|--------------------|----------------|-----------------|
|--|--------------------|----------------|-----------------|


### Access Fittings Type C

|  |       |        |        |
|--|-------|--------|--------|
|  | 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 |

### Access Fittings Type E

|  |       |        |        |
|--|-------|--------|--------|
|  | 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

|  |       |        |        |
|--|-------|--------|--------|
|  | 1/2   | STB10S | 077451 |
|  | 3/4   | STB20S | 077452 |
|  | 1     | STB30S | 077453 |
|  | 1-1/4 | STB40S | 077454 |
|  | 1-1/2 | STB50S | 077455 |
|  | 2     | STB60S | 077456 |

### “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.


### “Two In One” Pull Elbow


|  |            |         |        |
|--|------------|---------|--------|
|  | 1/2 or 3/4 | PE15/10 | 077491 |
|--|------------|---------|--------|


All access fittings are CSA certified and UL listed for wet locations, except Type TB. Supplied with threaded brass inserts, combination brass head screws and PVC gasketing. Stainless steel screws are available upon request.

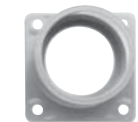
## SERVICE ENTRANCE FITTINGS


Scepter rigid PVC conduit is suitable for use in both overhead and underground service laterals. A complete range of non-corroding PVC service entrance fittings is available, including meter hubs, weather heads and meter offsets.

|   | Size<br>inches | Part<br>Number | Product<br>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          |


|   | Size<br>inches | Part<br>Number | Product<br>Code | A<br>inches | B<br>inches |
|---|----------------|----------------|-----------------|-------------|-------------|
|  | 1-1/4          | LM025          | 069641          | 12          | 0.92        |
|   | 1-1/2          | LM030          | 069645          | 12          | 1.69        |
|   | 2              | LM035          | 069646          | 14          | 1.52        |
|   |                |                |                 |             |             |

|   | Size<br>inches | Part<br>Number | Product<br>Code |
|---|----------------|----------------|-----------------|
|  | 1-1/4          | M025           | 077941          |
|   | 2              | M035           | 077942          |

|   | Size<br>inches | Part<br>Number | Product<br>Code |
|---|----------------|----------------|-----------------|
|  | 1-1/4          | MHU25          | 077961          |
|   | 1-1/2          | MHU30          | 077963          |
|   | 2              | MHU35          | 077965          |
|   | 2-1/2          | MHU40          | 077967          |
|   | 3              | MHU45          | 077968          |

|   | Size<br>inches | Part<br>Number | Product<br>Code |
|---|----------------|----------------|-----------------|
|  | 2              | EJ35TA         | 077680          |
|   | 2-1/2          | EJ40TA         | 077398          |
|   | 3              | EJ45TA         | 077681          |
|   | 4              | EJ55TA         | 077682          |

These special Scepter PVC expansion joints are supplied with the appropriately sized TA fitting. Assembled at the factory, the fittings are ready for installation directly to the meter socket. The installer needs only to 'set' the piston opening when connecting the underground raceway.

|   | Size<br>inches | Part<br>Number | Product<br>Code |
|---|----------------|----------------|-----------------|
|  | 2              | SMR20TA        | 068371          |
|   | 2-1/2          | SMR25TA        | 068372          |
|   | 3              | SMR30TA        | 068373          |
|   | 4              | SMR40TA        | 068374          |

Slip Meter Risers allow the underground PVC service conduit to 'slip' inside the fitting and thus account for ground movement. The factory assembled SMR fitting is supplied with a male adapter, is 2 feet in length and is sized to accept the underground raceway (i.e. 2" underground service conduit requires a 2" SMR). The SMR fitting must be installed with the open barrel end towards the ground.

## BOXES - F SERIES

Our complete range of Scepter boxes and covers makes it easy to locate power and control precisely where you want it.

Scepter F-Series 3-in-1 PVC surface mount outlet boxes are available in single (deep), double and triple-gang configurations, with 1/2", 3/4" and 1" entry hubs all in one box. This innovative design enables contractors to reduce inventory, while ensuring they have the size they need when they need it.

With the exception of the FD, FD2 & FD3 Blank Boxes, Scepter F Series 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, Double Gang and Triple Gang Box.

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

| Hub Size<br>inches | Part<br>Number | Product<br>Code | Volume<br>in <sup>3</sup> |
|--------------------|----------------|-----------------|---------------------------|
|--------------------|----------------|-----------------|---------------------------|

### Single Gang Boxes

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



FSC



FS



FSCC



FSS

### Single Gang Deep Boxes

|             |           |        |      |
|-------------|-----------|--------|------|
| 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  
Outside Dimensions: Height, 4 9/16" - Width, 2 13/16" - Depth 2 3/4",  
Cubic Inches = 35.30



FDC101520

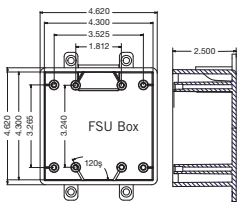


FDS101520



FD Blank

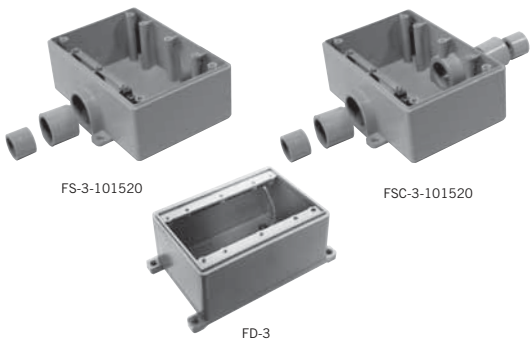
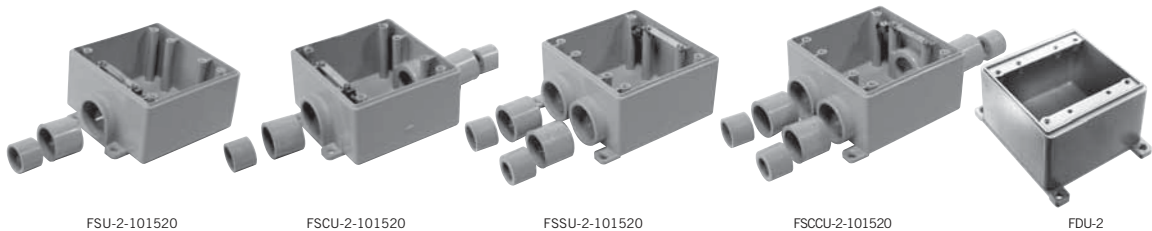
BOXES - F SERIES



Universal Double Gang boxes – NEW Style

| Hub Size inches | Part Number    | Product Code |
|-----------------|----------------|--------------|
| 1/2, 3/4, 1     | FSU-2-101520   | 077364       |
| 1/2, 3/4, 1     | FSCU-2-101520  | 077368       |
| 1/2, 3/4, 1     | FSSU-2-101520  | 077372       |
| 1/2, 3/4, 1     | FSCCU-2-101520 | 077369       |
| Blank           | FDU-2          | 077649       |

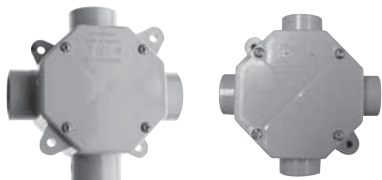
Note: FS-2 cu.in = 39.5, FSC-2 & FSS-2 cu.in. = 37.0, FSCC-2 cu.in. = 36.0



Triple Gang Boxes

|             |              |        |
|-------------|--------------|--------|
| 1/2, 3/4, 1 | FS-3-101520  | 077337 |
| 1/2, 3/4, 1 | FSC-3-101520 | 077438 |
| Blank       | FD-3         | 077737 |

**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       |

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



| Size inches | Part Number | Product Code |
|-------------|-------------|--------------|
| 4 x 1 deep  | XR20        | 077989       |
| 4 x 2 deep  | XR35        | 077990       |

## COVER PLATES - F SERIES

| Description | Part Number | Product Code |
|-------------|-------------|--------------|
|-------------|-------------|--------------|

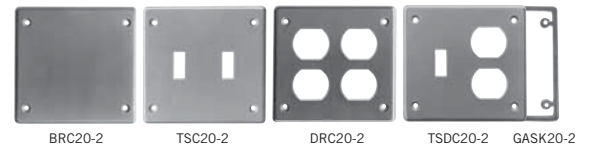
### Single Gang Plates

|                   |             |        |
|-------------------|-------------|--------|
| 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 |

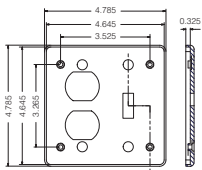


### Double Gang Plates – OLD Style

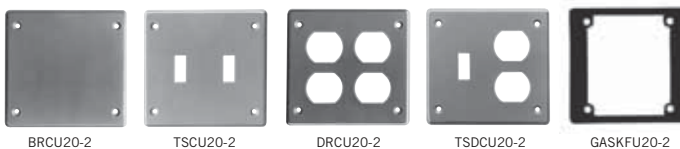
|                                |          |        |
|--------------------------------|----------|--------|
| Blank Cover c/w Gasket         | BRC20-2  | 077614 |
| Double Switch                  | TSC20-2  | 077738 |
| Double Duplex Receptacle       | DRC20-2  | 077740 |
| Combo Switch Duplex Receptacle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



### Universal Double Gang Plates – NEW Style *(only fits new style double gang boxes)*

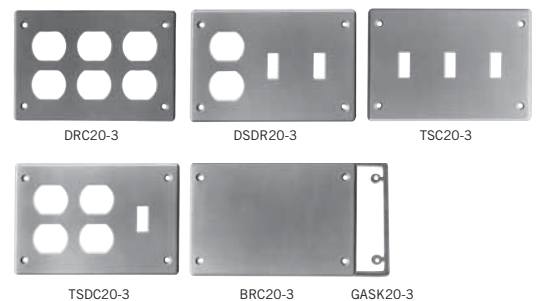


|                                |            |        |
|--------------------------------|------------|--------|
| Blank Cover c/w Gasket         | BRCU20-2   | 077359 |
| Double Switch                  | TSCU20-2   | 077373 |
| Double Duplex Receptacle       | DRCU20-2   | 077362 |
| Combo Switch Duplex Receptacle | TSDCU20-2  | 077374 |
| PVC Gasket                     | GASKFU20-2 | 172650 |



### Triple Gang Plates

|                         |          |        |
|-------------------------|----------|--------|
| 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 |



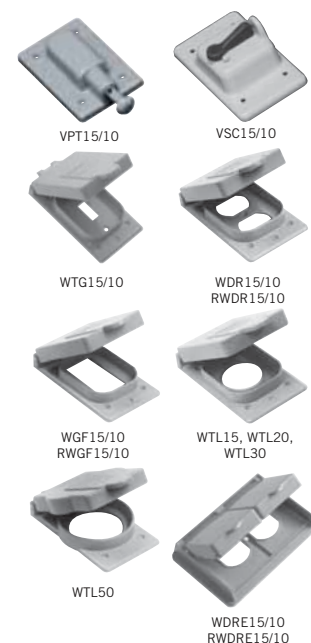


## WEATHERPROOF COVERS

Manufactured with stainless steel return-springs/clips and packaged with brass screws, Scepter weatherproof covers provide a positive seal, even in cold temperatures.

| Description                                     | Device Opening (in) | Part Number | Product Code |
|---|---------------------|-------------|--------------|
| <b>Single Gang Weatherproof Covers</b>          |                     |             |              |
| 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.

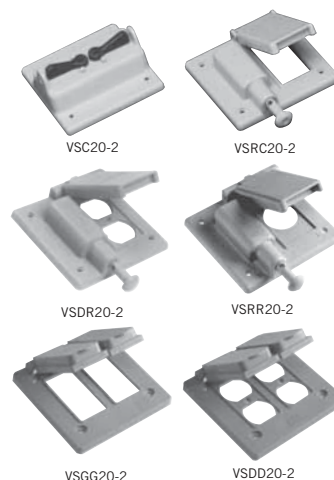


### Double Gang Weatherproof Covers – OLD Style

|   |           |        |
|---|-----------|--------|
| 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 |

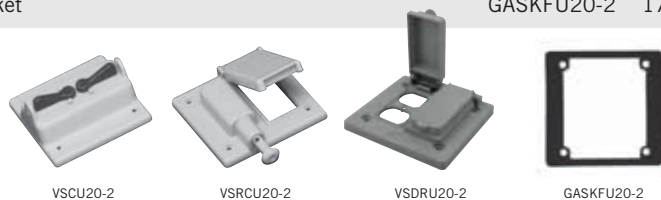
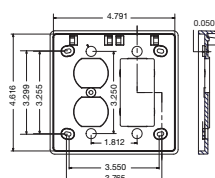
Gaskets are included with all weatherproof covers.

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



### Double Gang Weatherproof Covers – NEW Style *(only fits new style double gang boxes)*

|  |            |        |
|--|------------|--------|
| Toggle Switch Cover                          | VSCU20-2   | 077376 |
| Combination Switch Cover & GFI Receptacle    | VSRCU20-2  | 077357 |
| Combination Switch Cover & Duplex Receptacle | VSDRU20-2  | 077356 |
| Gasket                                       | GASKFU20-2 | 172650 |



## SCEPTER PVC ROUND FLOOR BOX

Suitable for slab-on-grade, below grade and wood floor construction, Scepter PVC round floor boxes and accessories enable contractors to collectively run in-floor power, data and communications wiring to a single box for significant savings in time and materials.

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.

Complete technical information available at [www.ipexelectrical.com](http://www.ipexelectrical.com) – Nonmetallic Floor Box & Accessories Technical Manual.



FB

**Floor Box Base**  
(includes disposable protective cap and reducer plugs)

Color  
Description

Part  
Number

Product  
Code

FB

076954



FBS-KIT

**Floor Box Base c/w Leveling Ring Adapter**  
(includes disposable protective cap, reducer plugs and leveling ring adapter)

FBKIT

077068

**Floor Box Stand Kit (includes FB Box)**  
(is equipped with several height brackets which accommodate the different rebar and post-tension cable heights and slab depths found from job-site to job-site.)

FBS-KIT

077700



AFMC

**Metal Cover Adapter Kit**  
(includes levelling ring, metal cover adapter and 2 gaskets)

AFMC

076953



LRA-U

**Universal Leveling Ring Adapter**

LRA-U

076606



FBDRC

**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



FBUDK

**Tri-Service Universal Divider Kit**  
(includes upper and lower dividers, riser tube and 2 grommets)

FBUDK

077948



FBYC

**Y Connector (3/4")**

FBYC

077499

BRASS AND NICKEL COVER PLATES

new

These cover plates help to protect enclosed power data and communications wiring from daily environmental floor conditions such as mopping (UL scrub water tested) and foot traffic (UL approved for cover loading).

The covers feature a light lacquer finish for extra strength and durability in high traffic areas and include a rubber gasket and aluminum backing plate to create a water-tight seal. The flush mount cover plates should be installed to the floor box using the LRA-U.



| Description | Part Number | Product Code |
|-------------|-------------|--------------|
|-------------|-------------|--------------|

Nickel Cover Plates

|   |         |        |
|---|---------|--------|
| Duplex Receptacle Cover with Dual Flip Lid                  | DFL-2-N | 178279 |
| Duplex Receptacle Cover with Individual Screw Plug Openings | SSC-N   | 178278 |
| Combination 2" x 1/2" Single Screw Plug Opening             | DSC-N   | 178280 |



DFL-2-N



SSC-N



DSC-N

Brass Cover Plates

|   |         |        |
|---|---------|--------|
| Duplex Receptacle Cover with Dual Flip Lid                        | DFL-2   | 178096 |
| Duplex Receptacle Cover with Individual Screw Plug Openings       | SSC     | 178093 |
| Combination 2" x 1/2" Single Screw Plug Opening                   | DSC     | 178091 |
| Combination 2" x 1/2" Single Screw Plug and 1/2" Datacomm Opening | DSC-P/C | 178092 |



DFL-2



SSC



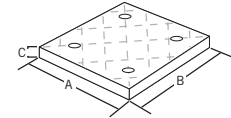
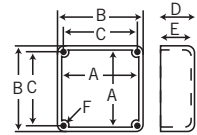
DSC-N

# JUNCTION BOXES

## 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.

Scepter's JB **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.

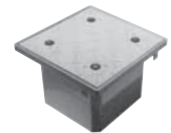


| Part Number | Product Code | Box ID (inches) |   |   | Lid Dimensions (inches) |   |   | Volume (in³) |
|-------------|--------------|-----------------|---|---|-------------------------|---|---|--------------|
|             |              | L               | W | D | A                       | B | C |              |

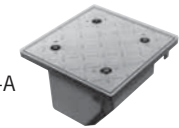
## Flanged Box w Fire-reinforced Safety Tread Cover

|        |        |   |   |       |      |      |      |       |
|--------|--------|---|---|-------|------|------|------|-------|
| 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 |

H887



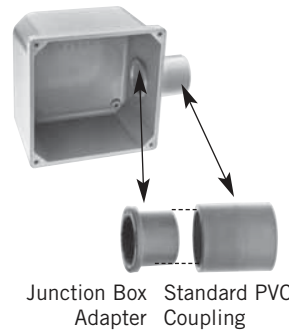
H887-A



| Size (inches) | Part Number | Product Code |
|---------------|-------------|--------------|
|---------------|-------------|--------------|

## Junction Box Adapters

|       |       |        |
|-------|-------|--------|
| 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

# SCEPTER JBOX

4" - 16" (100mm - 400mm)

## Scepter® JBox™

Scepter® JBox™, the Next Generation Junction Box. The original junction box is completely redesigned and new features have been added to make this the easiest box to use. The patent pending integral gasket, non-metallic fasteners, molded mounting feet, embossed grid-lines and flat cover features have been engineered to provide a contractor-friendly junction box.

### ADVANTAGES

- 1 Zero Footprint**  
Design allows for installation in corners and immediately adjacent to other products. There is easy access to all mounting feet and fasteners.
- 2 Installing Overhead**  
Integral fasteners allow for easy overhead positioning and securing.
- 3 Mounting in a Cover**  
Pilot lights, control switches and other devices are easily mounted. The Cover is free and clear of supporting ribs, and has a uniform thickness.
- 4 Added Security**  
Sizes 6" and larger feature a lock-out option. Tie-wrap, tamper resistant bolt or padlock will restrict access to the box.
- 5 More Interior Volume**  
Increased space from wire pulling and for ease of bend radius. The increased cubic inch volume allows for more flexibility

### APPLICATIONS

- Corrosive environments
- Waste-water treatment facilities
- Marine & car washes
- Agricultural
- Wash down

### STANDARDS

#### NEMA Rated

1, 2, 3R, 4, 4X, 6\*, 6P\*, 12, 13

\*Applies only to 4" to 12" non-hinged covers

#### CSA Listed

CSA C22.2 No. 40

CSA C22.2 No. 85

UL 50 / CSA C22.2 No. 94.1

UL 50E / CSA C22.2 No. 94.2



### SHORT FORM SPECIFICATIONS

Junction boxes shall be acceptable for indoor and outdoor use and manufactured of PVC in a gray color analogous to Rigid PVC conduit and fittings. The junction box and its fasteners, hinges or components shall be entirely non-metallic. Boxes shall be NEMA rated and certified to bi-national standard UL50/50E – CSA No.94.1/94.2 by a Nationally Recognized Testing Laboratory (i.e. UL or CSA).

The cover/box gasket shall be dual-molded or permanently fixed so as to be an integrated part of the cover. The cover should be secured to the box using non-metallic quarter-turn "close by hand,

tool assist to open" fasteners. To aid in the alignment and proper positioning of conduit connections the box/enclosure shall have embossed gridlines on the sidewalls. The mounting feet shall be a permanent molded feature of the box and not extend beyond the periphery of the box/enclosure. On boxes/enclosures of nominal size 6" x 6" and larger, back-panel / DIN rail mounting and pad-lock provisions shall be incorporated into the product.

Acceptable manufacturer: IPEX (Scepter JBox Series)



### SMOOTH FLAT COVER

- No ribs – offers a flat, smooth surface for mounting of devices or labels
- No engravings

### HAND-CLOSE FASTENERS

- Close by hand – tool assist to open
- 100% non-metallic – corrosion resistant material
- No loose hardware for easy installation

### LOCK-OUT OPTION

- Available on sizes 6" to 16"
- Use a tie-wrap, bolt or padlock for added security



### GRIDLINES FOR DRILLING

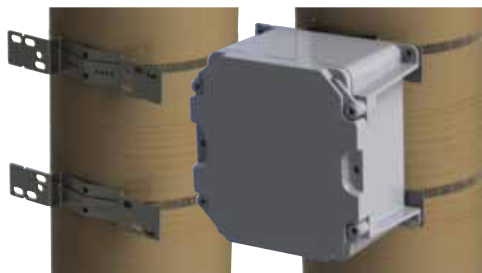
- Easy reference for drilling knockouts
- Makes conduit alignment a snap
- Indicates a "drill zone"

### INTEGRATED GASKET

- Injection molded and extruded gaskets permanently fixed to the cover – no installation required
- Proprietary gasket material creates a 6P rated enclosure (4" – 12")
- Neoprene gasket material creates a 4X rated enclosure (14" – 16")

### MOLDED MOUNTING FEET

- Molded – no loose parts to assemble
- Located on corners out of the way of conduit connections
- Flush with the back of the box for close surface mounting
- Integrated design of mounting feet offers improved strength



### POLE MOUNTING KIT

- One kit fits 4" to 12" new Scepter JBoxes (PMK4-12)
- Supplied as a complete kit
- Works with wood, concrete, steel and composite poles
- Installs on round, square & octagonal poles up to 15" diameter

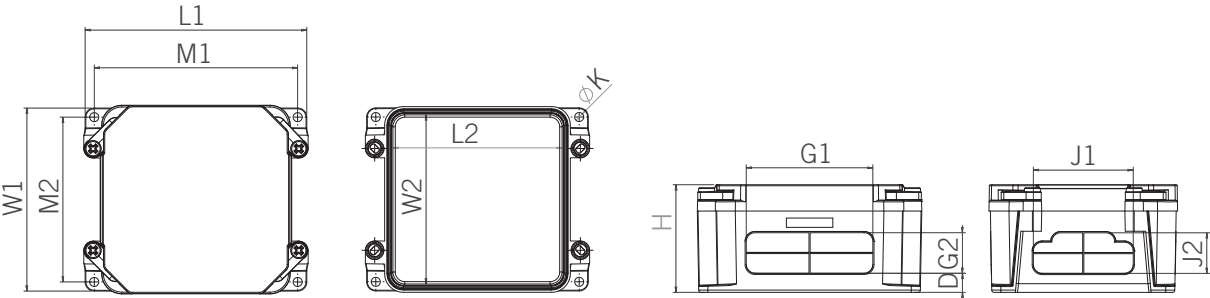
### BACK PANEL

- Designed to fit sizes 6" and 16"
- Made of 14 gauge carbon steel
- White epoxy powder-coated finish
- Easy to cut and drill to mount devices



SCEPTER JBOX 4" TO 6"

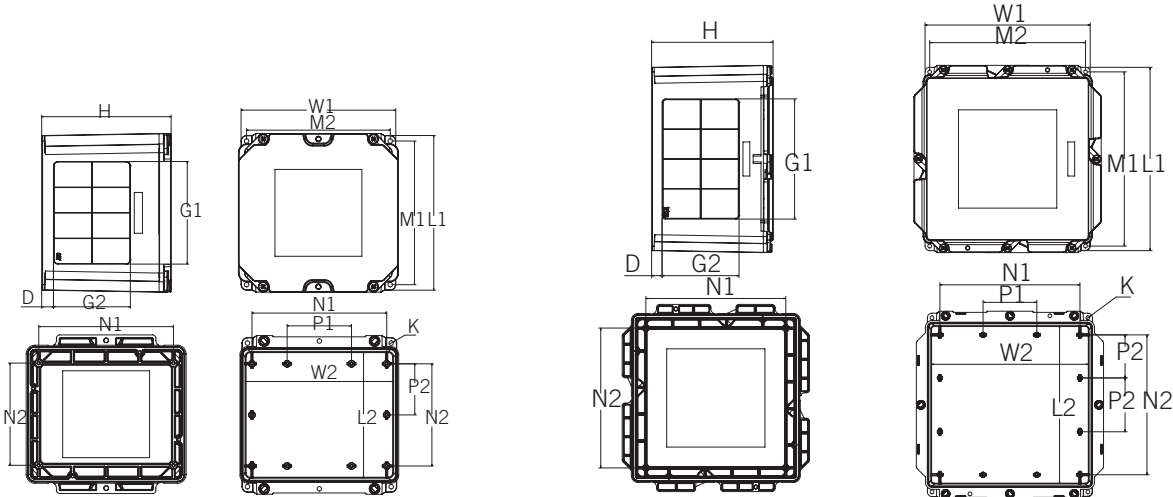
| Size<br>inches | Part<br>Number | Product<br>Code | L1   | W1   | L2   | W2   | H    | M1   | M2   | G1   | G2   | J1   | J2   | D    | K    |
|----------------|----------------|-----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| inches         |                |                 |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 4x4x2          | JBX442         | 277000          | 4.97 | 3.93 | 3.48 | 3.48 | 2.90 | 4.48 | 3.44 | 2.41 | 1.09 | 1.72 | 1.09 | 0.51 | 0.24 |
| 4x4x4          | JBX444         | 277001          | 4.90 | 3.86 | 3.48 | 3.48 | 4.89 | 4.41 | 3.37 | 2.22 | 2.97 | 1.59 | 2.97 | 0.59 | 0.24 |
| 5x5x2          | JBX552         | 277002          | 5.97 | 4.93 | 4.55 | 4.55 | 2.90 | 5.48 | 4.44 | 3.41 | 1.09 | 2.69 | 1.09 | 0.51 | 0.24 |
| 6x3x4          | JBX634         | 277003          | 3.90 | 5.86 | 2.48 | 5.48 | 4.89 | 3.41 | 5.37 | 1.22 | 2.72 | 3.42 | 2.72 | 0.59 | 0.28 |
| 6x6x4          | JBX664         | 277004          | 7.58 | 7.58 | 5.86 | 7.20 | 4.90 | 6.90 | 6.90 | 4.47 | 2.47 | 4.47 | 2.47 | 0.59 | 0.28 |
| 6x6x6          | JBX666         | 277005          | 7.51 | 7.51 | 5.79 | 7.13 | 6.90 | 6.83 | 6.83 | 4.22 | 4.47 | 4.22 | 4.47 | 0.72 | 0.28 |



JBX8442 - JBX444

SCEPTER JBOX 8" TO 16"

| Size<br>inches | Part<br>Number | Product<br>Code | L1    | W1    | L2    | W2    | H    | M1    | M2    | G1    | G2   | N1    | N2    | P1   | P2   | D    | K    |
|----------------|----------------|-----------------|-------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|------|------|------|------|
| inches         |                |                 |       |       |       |       |      |       |       |       |      |       |       |      |      |      |      |
| 8x8x4          | JBX884         | 277006          | 9.58  | 9.58  | 7.86  | 9.20  | 4.90 | 8.90  | 8.90  | 6.47  | 1.97 | 8.25  | 6.26  | 3.94 | 3.13 | 0.59 | 0.28 |
| 8x8x7          | JBX887         | 277007          | 9.47  | 9.47  | 7.76  | 9.10  | 7.90 | 8.90  | 8.90  | 6.22  | 4.65 | 8.25  | 6.26  | 3.94 | 3.13 | 0.75 | 0.28 |
| 12x12x4        | JBX12124       | 277008          | 13.58 | 12.24 | 11.74 | 11.74 | 4.90 | 12.90 | 11.56 | 9.28  | 2.03 | 10.26 | 10.25 | 3.94 | 3.13 | 0.56 | 0.28 |
| 12x12x6        | JBX12126       | 277009          | 13.58 | 12.24 | 11.74 | 11.74 | 6.90 | 12.90 | 11.56 | 9.03  | 3.78 | 10.26 | 10.25 | 3.94 | 3.13 | 0.67 | 0.28 |
| 12x12x8        | JBX12128       | 277010          | 13.58 | 12.24 | 11.74 | 11.74 | 8.90 | 12.90 | 11.56 | 8.81  | 5.64 | 10.26 | 10.25 | 3.94 | 3.13 | 0.76 | 0.28 |
| 14x14x8        | JBX14148       | 277011          | 15.72 | 14.39 | 13.80 | 13.80 | 9.1  | 15.1  | 13.70 | 11.05 | 5.69 | 12.25 | 10.26 | 3.94 | 3.16 | 0.83 | 0.33 |
| 14x14x10       | JBX141410      | 277012          | 15.72 | 14.39 | 13.80 | 13.80 | 11.1 | 15.1  | 13.70 | 11.05 | 7.55 | 12.25 | 10.26 | 3.94 | 3.16 | 0.83 | 0.33 |
| 16x16x10       | JBX161610      | 277013          | 17.64 | 16.30 | 15.71 | 15.71 | 11.1 | 17.0  | 15.60 | 12.55 | 7.55 | 14.25 | 12.26 | 4.71 | 4.09 | 0.83 | 0.33 |



JBX884 - JBX887

JBX12124 - JBX161610

# SCEPTER JBOX WITH HINGED COVER

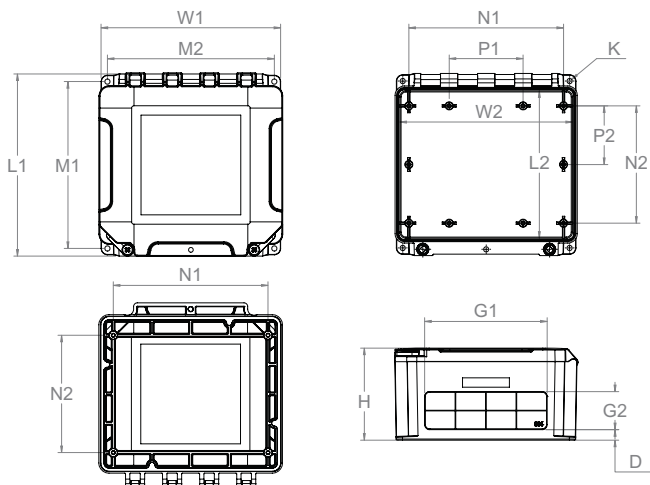
The new Hinged Cover opens up to 214° and are removable for complete and easy access to control devices and instrumentation.

The Scepter JBox Hinged Cover is NEMA 3R and 4X rated, ideally suited for indoor and outdoor industrial, MRO and OEM applications, and in wash-down environments. It is 100% non-metallic and includes all the features that users have come to appreciate in the Scepter JBox.

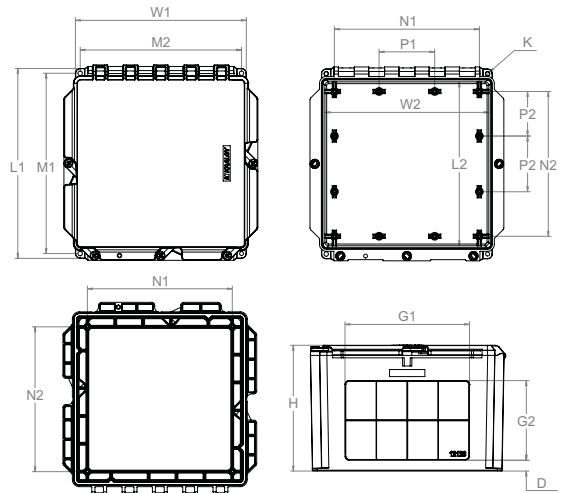


## SCEPTER JBOX HINGED COVER

| Size inches | Part Number | Product Code | L1    | W1    | L2    | W2    | H    | M1   | M2    | G1 inches | G2   | N1    | N2    | P1   | P2   | D    | K    |
|-------------|-------------|--------------|-------|-------|-------|-------|------|------|-------|-----------|------|-------|-------|------|------|------|------|
| 8x8x4       | JBXH884     | 277100       | 9.58  | 9.58  | 7.86  | 9.2   | 4.9  | 8.9  | 8.9   | 6.47      | 1.97 | 8.25  | 6.26  | 3.94 | 3.13 | 0.59 | 0.28 |
| 8x8x7       | JBXH887     | 277101       | 9.47  | 9.47  | 7.86  | 9.2   | 7.9  | 8.9  | 8.9   | 6.22      | 4.65 | 8.25  | 6.26  | 3.94 | 3.13 | 0.75 | 0.28 |
| 12x10x6     | JBXH12106   | 277102       | 11.51 | 12.17 | 9.67  | 11.67 | 6.9  | 10.8 | 11.49 | 8.03      | 3.78 | 10.25 | 8.26  | 3.94 | 2.16 | 0.67 | 0.28 |
| 12x12x4     | JBXH12124   | 277103       | 13.58 | 12.24 | 11.74 | 11.74 | 4.9  | 12.9 | 11.56 | 9.28      | 2.03 | 10.26 | 10.25 | 3.94 | 3.13 | 0.56 | 0.28 |
| 12x12x6     | JBXH12126   | 277104       | 13.58 | 12.24 | 11.74 | 11.74 | 6.9  | 12.9 | 11.56 | 9.03      | 3.78 | 10.26 | 10.25 | 3.94 | 3.13 | 0.67 | 0.28 |
| 14x14x8     | JBXH14148   | 277106       | 15.72 | 14.39 | 13.80 | 13.80 | 9.1  | 15.1 | 13.70 | 11.05     | 5.69 | 12.25 | 10.26 | 3.94 | 3.16 | 0.83 | 0.33 |
| 14x14x10    | JBXH141410  | 277107       | 15.72 | 14.39 | 13.80 | 13.80 | 11.1 | 15.1 | 13.70 | 11.05     | 7.55 | 12.25 | 10.26 | 3.94 | 3.16 | 0.83 | 0.33 |
| 16x16x10    | JBXH161610  | 277108       | 17.64 | 16.30 | 15.71 | 15.71 | 11.1 | 17.0 | 15.60 | 12.55     | 7.55 | 14.25 | 12.26 | 4.71 | 4.09 | 0.83 | 0.33 |



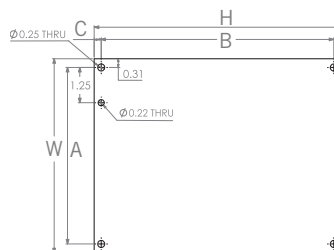
JBXH884 - JBXH887



JBXH12106 - JBXH161610

## BACK PANELS

| Size<br>inches | Part<br>Number | Product<br>Code | W     | H     | A     | B     | C    |
|----------------|----------------|-----------------|-------|-------|-------|-------|------|
| 6x6            | BP66CSW        | 077864          | 4.88  | 6.75  | 4.26  | 6.25  | 0.25 |
| 8x8            | BP88CSW        | 077861          | 6.88  | 8.75  | 6.26  | 8.25  | 0.25 |
| 12x10          | BP1210CSW      | 077862          | 8.88  | 10.75 | 8.26  | 10.25 | 0.25 |
| 12x12          | BP1212CSW      | 077865          | 10.88 | 10.75 | 10.26 | 10.25 | 0.25 |
| 14x14          | BP1414CSW      | 077867          | 10.88 | 12.75 | 10.26 | 12.25 | 0.25 |
| 16x16          | BP1616CSW      | 077868          | 12.88 | 14.75 | 12.26 | 14.25 | 0.25 |



## SCEPTER JBOX PERFORMANCE RATINGS

**MAXIMUM TEMPERATURE RANGE:** Maximum ambient temperatures to 122°F (50°C) as per the NEC

**RECOMMENDED OPERATING TEMPERATURE:** -40°F to 122°F (-40°C to 50°C)

**UV AND WATER EXPOSURE RATING:** UL 746C approved for exposure to UV and water

**FLAME & SMOKE RATING:** UL 94V-0 (UL94 Vertical Flame Test)

**NEMA ENCLOSURE RATINGS:** The Scepter JBox is NEMA Rated 1, 2, 3R, 4, 4X, 6\*, 6P\*, 12, 13 (\*Applies only to sizes 4" to 12")

**INDUSTRIAL CONTROL PANELS UL 508A:** Suitable to be used as an enclosure per section 18 of UL 508A

**CONDUCTORS:** Suitable for use with 90°C Rated Conductors

## NEMA RATING

| Type | Description   |
|------|---|
| 1    | Enclosures for indoor use providing protection from contact with the enclosed equipment and ingress of solid objects (falling dirt).  |
| 2    | Enclosures for indoor use providing protection from contact with the enclosed equipment, ingress of solid objects (falling dirt) and from harmful effects on equipment due to ingress of water (dripping and light splashing)   |
| 3R   | Enclosures for indoor or outdoor use providing protection from contact with the enclosed equipment, ingress of solid objects (falling dirt) and from harmful effects on equipment due to ingress of water (rain, sleet, snow) and is undamaged by the external formation of ice.  |
| 4    | Enclosures for indoor or outdoor use providing protection from contact with the enclosed equipment, ingress of solid objects (falling dirt and windblown dust) and from harmful effects on equipment due to ingress of water (rain, sleet, snow, splashing water and hose directed water) and is undamaged by the external formation of ice.                |
| 4X   | Enclosures for indoor or outdoor use providing protection from contact with the enclosed equipment, ingress of solid objects (windblown dust) and from harmful effects on equipment due to ingress of water (rain, sleet, snow, splashing water and hose directed water), protection against corrosion and is undamaged by the external formation of ice.   |
| 6    | Enclosures for indoor or outdoor use providing protection from contact with the enclosed equipment, ingress of solid objects (falling dirt) and from harmful effects on equipment due to ingress of water (hose directed water and entry of water on occasional temporary submersion at a limited depth) and is undamaged by the external formation of ice. |
| 6P   | Enclosures for indoor or outdoor use providing protection from contact with the enclosed equipment, ingress of solid objects (falling dirt) and from harmful effects on equipment due to ingress of water (hose directed water and entry of water during prolonged submersion at a limited depth) and is undamaged by the external formation of ice.        |
| 12   | Enclosures for indoor use providing protection from contact with the enclosed equipment, ingress of solid objects (falling dirt circulating dust, lint, fibers and flyings) and from harmful effects on equipment due to ingress of water (dripping and light splashing).   |
| 13   | Enclosures for indoor use providing protection from contact with the enclosed equipment, ingress of solid objects (falling dirt circulating dust, lint, fibers and flyings) and from harmful effects on equipment due to ingress of water (dripping and light splashing) and against the spraying, splashing and seepage of oil and non-corrosive coolants. |

**NOTE:** The Scepter JBox Hinged Cover is NEMA Rated for 1, 2, 3R, 4, 4X, 12 & 13



# The RIGHT BOX for the RIGHT Environment



**Scepter®**  
**JBox™**  
The Next Generation Junction Box

**The Scepter® JBox™ has a new feature...the Hinged Cover.** Designed to work with your existing PVC conduit runs, the Scepter JBox Hinged Cover opens more than 180° for complete and easy access to control devices and instruments. NEMA 3R and 4X rated, the Scepter JBox Hinged Cover is ideally suited for indoor and outdoor use, in wash-down environments and includes all the features that contractors have come to appreciate in the new Scepter JBox.

VISIT [www.ipexna.com](http://www.ipexna.com)

NEMA Rated 1, 2, 3R, 4, 4X, 12 & 13



UL 50 / CSA C22.2 No. 94.1 | UL 50E / CSA C22.2 No. 94.2  
CSA C22.2 No. 40 | CSA C22.2 No. 85



# EPR REPAIR KITS

1-1/4" - 6" (30mm - 150mm)



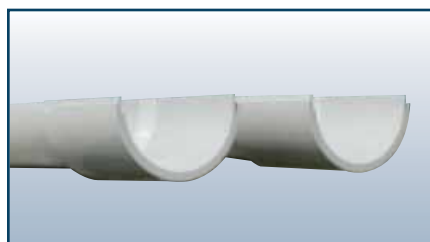
These clever and innovative conduit repair kits from IPEX are the first total repair systems for broken and damaged PVC conduit. They offer fast and easy repairs for damaged conduit caused by actions such as earth excavation, horizontal and core drilling.

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. And, unlike other conduit repair systems, EPR Kits are capable of repairing various lengths and types of pipe quickly and accurately, saving you time and money.

## ADVANTAGES

- ① **Restores structural integrity of conduit system**
- ② **Cost savings with fast and easy installation**
- ③ **Compatibility** – inside diameter of bell equals outside diameter of pipe to create a bell and spigot connection
- ④ **Special interlocking joints provide water-tight seal**
- ⑤ **Packaging includes easy to follow instruction sheet**
- ⑥ **Ideal for the repair of rigid PVC conduit in electrical, telecommunication, utility and CATV applications**

## REPAIRS CONDUIT AS EASY AS 1-2-3



EPR KIT FOR CONDUIT REPAIR

| Size (in) | Part Number | Product Code | Length (in) |
|-----------|-------------|--------------|-------------|
| 1-1/4     | EPR25       | 077982       | 24          |
| 1-1/2     | EPR30       | 077981       | 24          |
| 2         | EPR35       | 077980       | 24          |
| 2-1/2     | EPR40       | 077960       | 24          |
| 3         | EPR45       | 077958       | 24          |
| 4         | EPR55       | 077957       | 24          |
| 5         | EPR60       | 077956       | 24          |
| 6         | EPR60       | 077955       | 24          |

EPR KIT ADAPTER FOR DUCT REPAIR

| Size (in) | Part Number | Product Code | UPC          | Standard Pkg |
|-----------|-------------|--------------|--------------|--------------|
| 2         | EPRA35      | 077852       | 622454380233 | 80           |
| 3         | EPRA45      | 077853       | 622454380240 | 20           |
| 4         | EPRA55      | 077854       | 622454380257 | 20           |
| 5         | EPRA60      | 077855       | 622454380264 | 4            |
| 6         | EPRA65      | 077856       | 622454380271 | 4            |

\* Item sold separately from the EPR Kit.





## SAVE Time & Money with Cor-Line ENT & Kwikon Fittings

### An ENT system you can count on!

In 1986 we made in-slab electrical raceways faster to install by introducing the industry's first true, integrated ENT system – long lengths of flexible tubing that reduce the number of couplings needed. Cor-Line tubing and Kwikon fittings are designed to work together and provide the most robust concrete-tight ENT system on the market.

- Strong and flexible ENT tubing
- Six locking tabs for unbreakable connections
- Boxes are installation ready and concrete-tight
- Form stubbies eliminate the need to drill to the deck
- Labour saving design compared to traditional EMT



### Kwikon Slab Boxes... Installation Made Easy

- Approved for support of ceiling fans up to 35 lbs and luminaries up to 50 lbs
- **NEW** corner mounting tabs to guide nails inside the trim area
- **NEW** Clear Vue vacuum formed, removable covers allow markings to be seen and prevent slur or stucco from entering the box
- Ready to install – no assembly required

We designed Cor-Line® Electrical Nonmetallic Tubing (ENT), and Kwikon® fittings, slab boxes and accessories with two goals. Firstly, we set out to create an integrated ENT system tough enough to meet the rugged day-to-day challenges of the construction industry. More importantly, we wanted to make a system that saves time and money on the job site. People who work with it daily insist we got it right on both counts.

The best alternative to heavy and labor-intensive 10 ft. lengths of metal conduit, Cor-Line was made for fast, easy installation, saving valuable man-hours on any construction site.

As the toughest non-corroding, non-conducting ENT system on the market, its durability — even under tons of concrete — ensures years of reliable use for savings over the long run.

Saving contractors time, money and worry, this integrated ENT system makes sure the job gets done right.

# Nonmetallic Tubing & Fittings



Cor-Line ENT

38

Kwikon Fittings

38





# COR-LINE ENT & KWIKON FITTINGS

1/2" - 2-1/2" (12mm - 65mm)



Noncorroding and nonconducting Cor-Line® Electrical Nonmetallic Tubing (ENT) and Kwikon® fittings, slab boxes and accessories are engineered for the rugged day-to-day challenges of the construction industry - whether encased in concrete, concealed in walls or ceilings, or in direct burial applications.

Cor-Line ENT's corrugated construction allows it to be bent easily by hand. No special bending equipment is required. And our patented Kwikon couplings and connectors, with their unique 360° locking tabs, provide for snap-on, lock-in installation that exceeds CSA and UL requirements for conduit pullout.

Add our innovative form stubbys and Kwikon concrete-tight slab boxes, (available with or without integral 1/2", 3/4" or 1" molded hub connectors) and you've got a total integrated system that saves you time and money on the job. Available in 1/2" to 2" sizes, Cor-Line ENT is FT-4 rated for use in non-combustible construction.

## ADVANTAGES

- 1 Concrete-Tight**  
Every contractor's worst nightmare is a product that doesn't work or hold up in poured concrete; the costs of replacement and repair can be tremendous. Cor-Line ENT and Kwikon fittings are concrete-tight, requiring no solvent welding or tape around the connections, or paper stuffed inside.
- 2 Pull Resistant**  
Once a length of Cor-Line tubing is connected to a coupling or connector, it stays connected, thanks to our unique six locking tab design. With a pull-out resistance of up to 175 lbs., our patented snap-on, lock-in system provides a seal that easily meets CSA requirements for conduit pullout.
- 3 Fire Resistant**  
Cor-Line ENT tubing and Kwikon fittings and slab boxes are approved for use in noncombustible 2 hour and 4 hour fire-rated floor/ceiling assemblies.
- 4 Impact Resistant**  
Cor-Line ENT is made of impact resistant PVC, so it won't break or crack if an object is dropped on it or someone steps on it.
- 5 Strong Fittings**  
Kwikon's strong, solid fittings meet all CSA requirements.
- 6 Flexible**  
Flexible enough to be bent by hand, Cor-Line ENT is tough enough to withstand crushing and breaking.

## APPLICATIONS

- Residential (low or high rise)
- Commercial (low or high rise)
- Institutional (Prisons, Schools, Universities)
- Hospitals and Nursing Homes
- Stadiums and Arenas

## STANDARDS



CSA Standards C22.2

NEMA TC-13

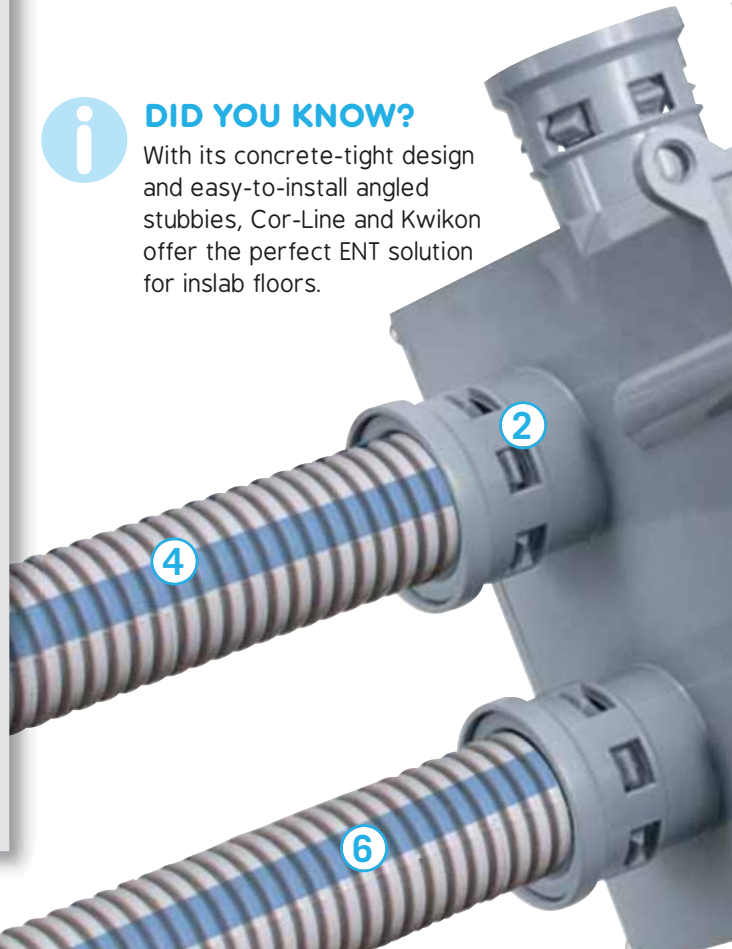
## STORAGE & HANDLING

- NOT to be installed, stored, or handled in cold temperatures below -20°C (-4°F)
- NOT to be stored outside



## DID YOU KNOW?

With its concrete-tight design and easy-to-install angled stubbies, Cor-Line and Kwikon offer the perfect ENT solution for inslab floors.



## INSTALLING IS THIS EASY

### 1. Unroll Cor-Line to desired length

Available in convenient coil and reel lengths up to 1,500 ft., Cor-Line gives you the flexibility to measure out exactly the amount of tubing you need. Cor-Line requires fewer couplings for long spans than metal conduit. It's recommended ENT be securely fastened at 2 – 3 ft. intervals.

### 2. Cut Cor-Line with an Ent Cutter

For straight cuts every time use the Kwikon scissor-style cutting tool. However, no special tools or cutting equipment are necessary. Cor-Line can even be cut with a standard utility knife.

### 3. Make bends and turns by hand

Unlike metal which has to be cut to fit tight spaces, Cor-Line can be bent, turned and manipulated by hand to wind around irregular curves and corners. When bending, ensure the radius of the curve is at least six times the diameter of the tubing.

### 4. Simply snap connections together

With no special tools or equipment needed, Kwikon's unique snap-on fittings quickly and easily join or terminate Cor-Line ENT and provide a concrete-tight connection.

### 5. Pull Cable through Cor-Line

Cor-Line's interior corrugated surface significantly reduces the amount of friction when pulling cables through long runs, even in runs with 90° bends. With Cor-Line, you can pull longer runs of cable without worrying about damage.



## SHORT FORM SPECIFICATIONS

### GENERAL

#### 1.1 References

- A. Standards referred to in this section are:
  - 1. CSA Standards C22.2, No. 227.1 and C22.2 No. 85.
  - 2. NEMA TC-13 Electrical Nonmetallic Tubing.

### PRODUCTS

#### 2.1 Manufacturers

- A. Acceptable manufacturers are listed below
  - 1. Electrical Nonmetallic Tubing:
    - a. Cor-Line by IPEX
  - 2. Electrical Nonmetallic Tubing Fittings:
    - a. Kwikon by IPEX
  - 3. Electrical Nonmetallic Tubing Boxes:
    - a. Kwikon by IPEX
- B. All ENT tubing, ENT fittings, ENT boxes and accessories shall be manufactured by the same company so as to form a complete ENT system.
- C. ENT systems shall be approved for use in fire resistance rated concrete floor-ceiling assemblies with fire resistance ratings up to 4 hours.

#### 2.2 Raceways

- B. ENT raceway shall be listed to CSA C22.2 No. 227.1 and manufactured in accordance with NEMA TC-13.

#### 2.3 Fittings

- A. ENT Fittings shall be manufactured of high-impact PVC,
- B. ENT Fittings shall meet the following requirements:
  - 1. Six locking tabs located every 60° providing 360° contact.
  - 2. Locking tabs shall provide a conduit pullout of a minimum 175 ft-lb force.
  - 3. Concrete tight without the need for taping.
  - 4. When transitioning to EMT conduit, the transition fitting shall have six locking tabs for ENT connection and set-screw connection for EMT.

#### 2.4 Boxes

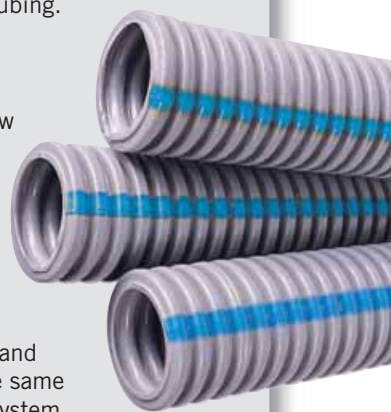
- A. ENT boxes shall be manufactured of high-impact PVC,
- B. ENT Slab Box and Wall Box requirements:
  - 1. Slab Boxes shall be approved for the purpose and concrete-tight.
  - 2. Round Slab Boxes shall be approved for use with luminaires up to 50 lbs and ceiling fans up to 35 lbs.
  - 3. Round Slab Boxes shall have threaded brass inserts for the attachment of luminaires or ceiling fans.
  - 4. Slab Boxes shall have eight (8) integrally molded ENT hub connectors with six locking tabs for ENT raceway connection.

### INSTALLATION

#### 3.1 Installation

- A. ENT raceways, fittings, boxes and accessories shall be installed in accordance with the 2009 Canadian Electrical Code, Part 1 – C22.1-02 (CEC) and the 1995 National Building Code of Canada (NBC).
- B. Where ENT penetrates a fire-rated wall, floor or ceiling assembly, an approved firestop system is CSA certified to CSA Standards C22.2, No. 211.0.


See Codes & Standards for additional installation information.






## COR-LINE ENT

### Cor-Line ENT Coils – Blue Stripe




| Size<br>inches | ID<br>inches | OD<br>inches | Length<br>feet | Product<br>Code |
|----------------|--------------|--------------|----------------|-----------------|
| 1/2            | 0.578        | 0.840        | 370            | 012000          |
| 3/4            | 0.778        | 1.050        | 240            | 012008          |
| 1              | 1.000        | 1.315        | 160            | 012018          |
| 1-1/4          | 1.345        | 1.660        | 500            | 012046          |
| 1-1/2          | 1.574        | 1.900        | 300            | 012032          |
| 2              | 2.025        | 2.375        | 225            | 012043          |

### Cor-Line ENT Reels – Blue Stripe



| Size<br>inches | ID<br>inches | OD<br>inches | Length<br>feet | Product<br>Code |
|----------------|--------------|--------------|----------------|-----------------|
| 1/2            | 0.578        | 0.840        | 1500           | 012004          |
| 3/4            | 0.778        | 1.050        | 1000           | 012009          |
| 1              | 1.000        | 1.315        | 750            | 012019          |
| 1-1/4          | 1.345        | 1.660        | 1000           | 012047          |
| 1-1/2          | 1.574        | 1.900        | 750            | 012033          |
| 2              | 2.025        | 2.375        | 500            | 012044          |

### COR-LINE ENT 10' Sticks – Blue Stripe



| Size<br>inches | Length<br>feet | Product<br>Code | Crate<br>Size |
|----------------|----------------|-----------------|---------------|
| 1/2            | 10             | 012005          | 3600          |
| 3/4            | 10             | 012006          | 2200          |
| 1              | 10             | 012007          | 1800          |

#### Storage of Kwikon ENT Tubing

Manufacturer recommends that ENT tubing should not be stored outdoors where subjected to direct sunlight without protective covering, i.e. packaging or tarps.

## KWIKON FITTINGS

### Kwikon Couplings




| Size<br>inches | Part<br>Number | Product<br>Code |
|----------------|----------------|-----------------|
| 1/2            | KC10           | 089000          |
| 3/4            | KC15           | 089001          |
| 1              | KC20           | 089002          |
| 1-1/4          | KC25           | 189670          |
| 1-1/2          | KC30           | 189671          |
| 2              | KC35           | 189672          |

### Kwikon Snap-in Connectors



| Size<br>inches | Part<br>Number | Product<br>Code |
|----------------|----------------|-----------------|
| 1/2            | KTS10          | 089146          |
| 3/4            | KTS15          | 089147          |
| 1              | KTS20          | 089148          |


### Kwikon Connectors\*



| Size<br>inches | Part<br>Number | Product<br>Code |
|----------------|----------------|-----------------|
| 1/2            | KTA10          | 089006          |
| 3/4            | KTA15          | 089007          |
| 1              | KTA20          | 089008          |
| 1-1/4          | KTA25          | 189680          |
| 1-1/2          | KTA30          | 189681          |
| 2              | KTA35          | 189682          |

\*KTA connectors are supplied with locknuts.

### Kwikon Transition Couplings



| Size<br>inches | Part<br>Number | Product<br>Code |
|----------------|----------------|-----------------|
| 1/2            | KTC10          | 089012          |
| 3/4            | KTC15          | 089013          |
| 1              | KTC20          | 089014          |

## KWIKON FITTINGS

**KWIKON ENT FORM STUBBIES** create conduit stub-downs in concrete without needing to drill holes in the plywood form. Available in the original stubby design, the angled version and the Multi-Link, Kwikon form stubbies also protect the ENT from potential damage during the removal of wood forms.

| Size inches | Part Number | Product Code |
|-------------|-------------|--------------|
|-------------|-------------|--------------|

### Kwikon ENT Form Stubbies



|       |         |        |
|-------|---------|--------|
| 1/2   | KSTB-10 | 089330 |
| 3/4   | KSTB-15 | 089331 |
| 1     | KSTB-20 | 089332 |
| 1-1/4 | KSTB-25 | 089333 |

The **KWIKON ENT ANGLED FORM STUBBY** gives you the advantage of positioning the ENT at a lower profile within the slab.

| Size inches | Part Number | Product Code |
|-------------|-------------|--------------|
|-------------|-------------|--------------|

### Kwikon ENT Angled Form Stubbies



|       |          |        |
|-------|----------|--------|
| 1/2   | KASTB-10 | 089233 |
| 3/4   | KASTB-15 | 089234 |
| 1     | KASTB-20 | 089235 |
| 1-1/4 | KASTB-25 | 089236 |
| 1-1/2 | KASTB-30 | 089238 |

The **KWIKON ENT MULTI-LINK FORM STUBBY** features a snap-together design which enables them to be configured in a variety of tightly grouped formations. It also features a thin removable film over the drop opening.

| Size inches | Part Number | Product Code |
|-------------|-------------|--------------|
|-------------|-------------|--------------|

### Kwikon ENT Multi-Link Form Stubbies



|     |         |        |
|-----|---------|--------|
| 1/2 | MSTB-10 | 089031 |
| 3/4 | MSTB-15 | 089026 |
| 1   | MSTB-20 | 089025 |

**KWIKON STUB DOWN FITTINGS** are designed for direct connection to ENT on the horizontal. The flanged base offers a NPSC threaded hub connection on the vertical (at the exit point of the slab) allowing for the direct transition to other raceway products or to ENT connection.

Either way, our Kwikon ENT connection creates a stub down of ENT without penetrating the form.

Designed to offer the optimal balance of bend radius and overall height in the slab, these fittings provide a bend radius of 2-1/2" while standing less than 3-3/8" tall.

| Size inches | Part Number | Product Code |
|-------------|-------------|--------------|
|-------------|-------------|--------------|

### Kwikon (KT90) Stub Down Fittings (Kwikon x Threaded)



|     |         |        |
|-----|---------|--------|
| 1/2 | KT90-10 | 089060 |
| 3/4 | KT90-15 | 089059 |
| 1   | KT90-20 | 089058 |

### Kwikon (KK90) Stub Down Fittings (Kwikon x Kwikon)



|     |         |        |
|-----|---------|--------|
| 1/2 | KK90-10 | 089055 |
| 3/4 | KK90-15 | 089056 |
| 1   | KK90-20 | 089057 |

The **NEW ENT SUPPORT UNIT (ESU)** raises the tubing or conduit up off the concrete form during the concrete pour maintaining a level raceway and allows for maximum aggregate flow and concrete consolidation.

Easy to use, the ESU snaps around any size of ENT. It is perfect for use in high rise buildings constructed with post-tensioned (PT) concrete slabs.

### FEATURES

- One size fits all 1/2" - 2"
- Saves time and labour
- Easy locking mechanism
- Securable to the concrete form
- Minimal footprint reduces amount of surface contact

| Part Number | Product Code |
|-------------|--------------|
|-------------|--------------|

### ENT Support Unit (ESU)

|           |        |
|-----------|--------|
| ESU-10-35 | 089149 |
|-----------|--------|



## KWIKON SLAB BOXES

### STANDARD SLAB BOXES

- Approved for support of ceiling fans up to 35 lbs. and luminaires up to 50 lbs.
- Concrete-tight.
- Corner and traditional mounting tabs offer contractors two options when installing to the slab deck
- Angled design guides the nail into position within the trim cover area
- All molded connectors have 360° locking tabs that exceed UL and CSA requirements for pull-out.
- Manufactured from high-impact PVC.
- Nonmetallic/non-conducting/non-corroding.
- Threaded brass inserts. (10/32 for ceiling fans, 8/32 for luminaires).
- Supplied as a fully assembled one piece unit.

| Size inches | Part Number | Product Code |
|-------------|-------------|--------------|
|-------------|-------------|--------------|

### Kwikon Slab Boxes w/ Molded Connectors – Volume 44 cu in.



|                         |             |        |
|-------------------------|-------------|--------|
| 8 x 1/2                 | SMB-H-10    | 089455 |
| 8 x 3/4                 | SMB-H-15    | 089459 |
| 4 x 1/2, 4 x 3/4        | SMB-H-10/15 | 089457 |
| 4 x 1/2, 2 x 3/4, 2 x 1 | SMB-H-10/20 | 089456 |
| 4 x 3/4, 4 x 1          | SMB-H-15/20 | 089463 |

### Kwikon Slab Boxes w/ Knockouts (w/o Molded Connectors)

– Volume 44 cu in.



|                         |           |        |
|-------------------------|-----------|--------|
| 8 x 1/2                 | SMB-10    | 089450 |
| 4 x 1/2, 2 x 3/4, 2 x 1 | SMB-10/20 | 089451 |

### SQUARE SLAB BOXES

- Direct mounting of 4" devices and 4" square covers.
- Mounting feet are located on corners for quicker positioning and securing to form.
- Standard dimension 2-gang cover plates cover all exposed surfaces.

| Size inches | Part Number | Product Code |
|-------------|-------------|--------------|
|-------------|-------------|--------------|

### Kwikon Square Slab Boxes w/ Molded Connectors

– Volume 44 cu in.



|                  |            |        |
|------------------|------------|--------|
| 8 x 1/2          | SSBH-10    | 089452 |
| 8 x 3/4          | SSBH-15    | 089453 |
| 4 x 1/2, 4 x 3/4 | SSBH-10/15 | 089454 |
| 4 x 3/4, 4 x 1   | SSBH-15/20 | 089471 |

### SHALLOW SLAB BOXES

- Threaded brass inserts (10/32 for ceiling fans, 8/32 for luminaires).
- Approval for support of ceiling fans up to 35 lbs and luminaires up to 50 lbs.
- Overall height of box (2-7/8") allows for use in thinner slabs.
- Clear Vue vacuum formed removable covers

| Size inches | Part Number | Product Code |
|-------------|-------------|--------------|
|-------------|-------------|--------------|

### Kwikon Shallow Slab Boxes w/ Molded Connectors

– Volume 36 cu in.



|                         |              |        |
|-------------------------|--------------|--------|
| 8 x 1/2                 | SMBS-H-10    | 089485 |
| 8 x 3/4                 | SMBS-H-15    | 089487 |
| 4 x 1/2, 4 x 3/4        | SMBS-H-10/15 | 089486 |
| 4 x 1/2, 2 x 3/4, 2 x 1 | SMBS-H-10/20 | 089488 |
| 4 x 3/4, 4 x 1          | SMBS-H-15/20 | 089489 |

### CONCRETE WALL BOXES

- Fully assembled and installation ready
- Perfectly suited for deep or shallow construction preferences
- Kwikon hubs do not protrude inside the box
- Clear Vue vacuum formed removable covers

| Size inches | Part Number | Product Code |
|-------------|-------------|--------------|
|-------------|-------------|--------------|

### Kwikon Concrete 3-1/2" Deep Concrete Wall Boxes



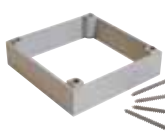
|                         |              |        |
|-------------------------|--------------|--------|
| 4 x 1/2, 4 x 3/4        | SVDB-H-10/15 | 089496 |
| 4 x 3/4, 4 x 1          | SVDB-H-15/20 | 089049 |
| 4 x 1/2, 2 x 3/4, 2 x 1 | SVDB-H-10/20 | 089052 |
| 8 x 3/4                 | SVDB-H-15    | 089065 |

### Kwikon 2" Shallow Concrete Wall Boxes



|         |           |        |
|---------|-----------|--------|
| 4 x 1/2 | SVSB-H-10 | 089054 |
| 4 x 3/4 | SVSB-H-15 | 089053 |

### Kwikon Slab Box Extension Ring




SMBR 089494


Adjusts height of SMB/SMBH series slab boxes by 1"

- Easily installed.
- Quickly adjusts to new height.

# ACCESSORIES

|   | Description | Part Number | Product Code |
|---|-------------|-------------|--------------|
|  | 1/2         | TP10        | 089003       |
|   | 3/4         | TP15        | 089004       |
|   | 1           | TP20        | 089005       |
|   |             |             |              |

## Tapered Plugs

|  | Description                 | Part Number | Product Code |
|--|-----------------------------|-------------|--------------|
|  | Cutting Tool 1/2" – 1"      | CLC20       | 988210       |
|  | Cutting Tool 1/2" – 2"      | CLC35       | 988915       |
|  | Replacement Blade for CLC20 | SSB         | 988211       |
|  | Replacement Blade for CLC35 | SB35        | 988916       |

## Cutting Tool



# Dual Mounting System from Kwikon



## Slab Box Installation Made Easy

Designed to withstand tough jobsite environments, Kwikon® ENT slab boxes are nonmetallic, nonconductive and noncorroding. All Deep Round Series slab boxes feature our new CORNER MOUNTING TABS. These uniquely positioned corner tabs allow contractors to easily nail Kwikon slab boxes to the slab deck. The angled design guides the nail to be positioned inside the fixture's trim cover, reducing the threat of visible rust bleeding through the finished ceiling.

- Approved for support of ceiling fans up to 35 lbs and luminaries up to 50 lbs
- Corner and traditional mounting tabs offer contractors two options when installing to the slab deck
- Angled design guides the nail into position within the trim cover area
- Ready to install – no assembly required
- Clear Vue vacuum formed removable covers



# The SceptaCon™ Solution

## The SceptaCon™ Joint

Featuring slide-in spline locking system.

### ...an essential part of your SMART lighting solution

**SceptaCon™** is one of the first PVC systems designed for the rigors of trenchless applications. Made of durable Schedule 40 PVC, SceptaCon links seamlessly to existing PVC conduit infrastructure and allows utilities to standardize on PVC throughout their entire electrical system.



*SceptaCon is the ideal solution to short drilling projects where heavy local traffic can't be interrupted.*

Now available in a 2" diameter, SceptaCon is ideally suited for street lighting and traffic signal applications where installation requires a smaller diameter pipe than your typical electrical raceway. As the only approved, boreable PVC electrical raceway available in a 2" size, SceptaCon allows contractors to install RW cables instead of the more expensive TECK cables.

#### No Fusion or Cementing Required

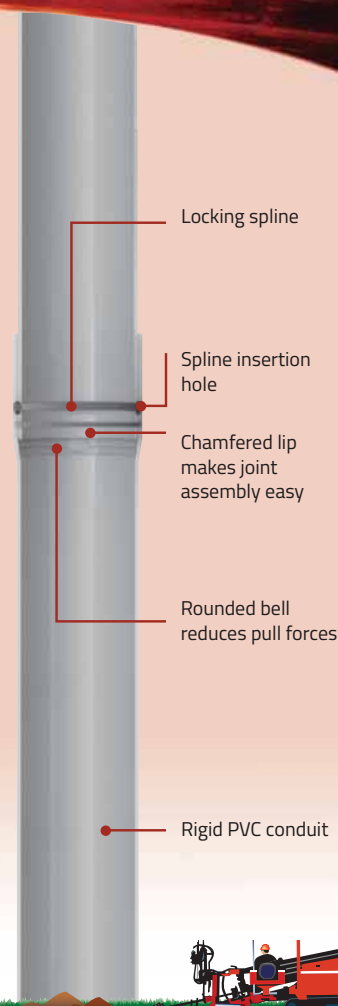
With SceptaCon's slide-in locking system, a watertight joint can be made in seconds, without fusion or cementing

#### Pressure Rating & Flexibility

SceptaCon is pressure rated to 80 psi and approved for a 65 ft bend radius

#### Easier to Handle & No Reel to Return

Installed one length at a time, SceptaCon doesn't require the use of a reel...no reel deposit, no reel truck, and no need to return the reel after use



Rigid PVC conduit

Rounded bell reduces pull forces

Chamfered lip makes joint assembly easy

Spline insertion hole

Locking spline

Rigid PVC conduit

Until now, there have been few choices for electrical conduit in trenchless applications. Non-PVC conduit systems require transition couplings or adapters to connect to existing PVC conduit infrastructure and often a proper transition method does not exist. While existing PVC products are compatible they require set up time and can lack the joint pull-strength needed for directional drilling applications.

SceptaCon™ is one of the first PVC systems designed for the rigors of trenchless applications. It links seamlessly to existing PVC conduit infrastructure and allows utilities to standardize on PVC throughout their entire electrical system.

# PVC Raceway for HDD



SceptaCon PVC Raceway for Horizontal  
Directional Drilling



# SCEPTACON PVC FOR HDD

2" - 6" (53mm - 150mm)



SceptaCon™ is one of the first PVC systems designed for the rigors of trenchless applications. It links seamlessly to existing PVC conduit infrastructure and allows utilities to standardize on PVC throughout their entire electrical system.

And because SceptaCon is made to the same high standards as our Scepter Rigid PVC Conduit, contractors and electrical utilities can be assured of the same level of quality – above ground and below. SceptaCon delivers the performance, reliability and long life you expect from IPEX.

## ADVANTAGES

- 1 No Cementing or Lubrication Required**  
SceptaCon's slide-in locking system and pre-installed, pre-lubricated gaskets allow contractors to create a water-tight seal by hand in seconds – in all temperatures without having to worry about solvents or chemicals freezing or drying too quickly.
- 2 No Fusion Required**  
Because SceptaCon joints can be quickly joined by hand in seconds, crews don't need large, expensive fusion equipment or special training to create water-tight joints.  
In addition, SceptaCon can be assembled one pipe length at a time, then pulled underground, eliminating the need for long strings of pipe on the job. In this way, SceptaCon is ideal for short haul applications in cramped urban areas.
- 3 Superior Performance**  
SceptaCon is made from durable schedule 40 PVC that's resistant to creasing, scoring or flattening when pulled past obstructions in the borehole, yet flexible enough to bend with underground twists and turns. SceptaCon remains round, unlike HDPE which can stretch and become oval. And with PVC's proven 70-year history in underground piping, it's no surprise telecommunication contractors are turning to SceptaCon PVC raceway for reliable performance – now and over the long term.
- 4 Easier to Handle**  
SceptaCon saves crews all the hassles of working with HDPE. As any crew knows, cumbersome HDPE reels are heavy and awkward to transport and work with, and the material is notoriously rigid in cold temperatures. On the other hand, SceptaCon is available in convenient 10' and 20' lengths that are lightweight, easy to handle and no problem to work with in all types of weather.

## APPLICATIONS

- Environmentally Sensitive Areas
- Historical Landmarks
- Road and Highway Crossings
- Urban Areas
- Street Lights
- Traffic Lights

## STANDARDS



### FAST AND EASY JOINT ASSEMBLY

SceptaCon needs no special equipment or training joining quickly to create a water-tight seal in seconds.



#### Step 1

Remove the red protective plugs and locking spline. Slide the spigot and bell ends past the pre-lubricated gasket to the positive stop alignment ring.



#### Step 2

Using the insertion hole, completely push the locking spline into the pipe's inner groove to lock lengths together.

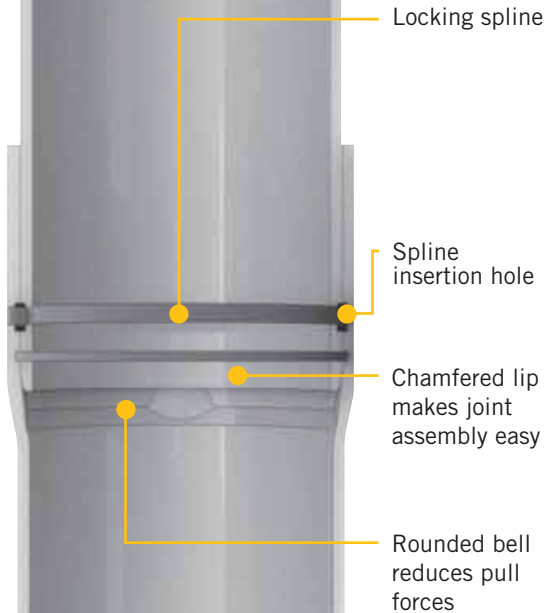


#### Step 3

You're done! Our spline locking system ensures they'll stay together during pull-through and over their life underground.

## THE SCEPTACON™ JOINT

Featuring slide-in spline locking system.



Rigid PVC conduit

## SHORT FORM SPECIFICATIONS

### GENERAL

Installation of conduit in defined areas (such as environmentally sensitive areas, existing roadways and high traffic pedestrian areas) shall be accomplished using trenchless horizontal directional drilling methods.

### PRODUCT

The trenchless raceway system shall be manufactured of schedule 40 PVC and to PVC conduit specifications providing for a seamless transition to rigid nonmetallic conduit, duct or other approved conduit systems. Each length of conduit shall be supplied with end caps, a locking spline, a factory installed pre-lubricated o-ring seal and a positive stop alignment ring. Each length shall incorporate dimensionally precise machined grooves (internal on the bell and external on the spigot) whereby the connection of the raceway lengths creates a cavity for the locking spline. The bell end of each length shall have a label affixed by the manufacturer that provides installation instructions while clearly identifying and protecting the spline insertion opening.

Acceptable manufacturers are: SceptaCon Trenchless Raceway by IPEX.

### APPROVALS

The Trenchless Raceway System shall be third party certified to UL651 and CSA C22.2 No.211.2.

### PERFORMANCE SPECIFICATIONS

SceptaCon is made for fast installation, creating a water-tight seal in seconds with no special fusion equipment or training needed. SceptaCon is manufactured to UL651 and CSA C22.2 no. 211.2 standards and meets all testing requirements of Rigid PVC Conduit (PVC).

- SceptaCon's rated bend radius is sixty five (65) feet
- Rated Pulling Force
 

|                |                                    |
|----------------|------------------------------------|
| 2" – 3,000 lbs | 4" – 8,700 lbs                     |
| 3" – 7,000 lbs | 5" – 11,300 lbs    6" – 14,000 lbs |
- SceptaCon's water tightness using the joint immersion test
  - 80psi pressure without a bending force applied
  - 80psi pressure when subjected to a 65 foot bend radius

### SCEPTACON PRODUCT SELECTION CHART

| Nominal Diameter |     | Product Code                 | O.D.  |       | I.D.  |       | Min. Wall |     |
|------------------|-----|------------------------------|-------|-------|-------|-------|-----------|-----|
| in               | mm  |                              | in    | mm    | in    | mm    | in        | mm  |
| 2                | 53  | (20') 106421                 | 2.375 | 60.3  | 2.067 | 52.5  | 0.154     | 3.9 |
| 3                | 78  | (10') 106430<br>(20') 106431 | 3.500 | 88.9  | 3.068 | 77.9  | 0.216     | 5.5 |
| 4                | 103 | (10') 106440<br>(20') 106441 | 4.500 | 114.3 | 4.026 | 102.3 | 0.237     | 6.0 |
| 5                | 129 | (10') 106450<br>(20') 106451 | 5.563 | 141.3 | 5.047 | 128.2 | 0.258     | 6.6 |
| 6                | 155 | (10') 106460<br>(20') 106461 | 6.625 | 168.3 | 6.065 | 154.1 | 0.280     | 7.1 |

Every length is delivered with protective plugs to keep the conduit free of dirt and debris during shipping and job site handling.

# NEW

# Sceptalight LED

Introducing the NEW Sceptalight LED light fixture and adapter kit. Sceptalight LEDs offer significant energy savings and can last beyond 50,000 hours without a single need for maintenance. Certified and tested for use in indoor, outdoor, wet locations, wash down and corrosive environments, Sceptalight LEDs are certified to the latest LED light fixture standards and NEMA 4X approved.

## STANDARDS

LIGHT FIXTURE (LVPF/LVPE-LED)

CSA C22.2 250.0 UL 1598

LIGHT ENGINE (LLED-15)

CSA T.I.L. B-79A UL 1598C



### RETROFIT OPTION

Sceptalight LEDs can easily retrofit onto existing installations for increased energy savings.

### CORROSION RESISTANT

Heat sink is coated with a durable e-coat layer that prevents corrosion.

### NEMA 4X AND IP66 RATED

Approved for wet locations, wash down and corrosive environments.

### HEAT DISSIPATION

Specially designed heat sink ensures long life and optimum performance for over 50,000 hours.

### ENERGY EFFICIENT

1,000 lumens of light output is produced with only 15 Watts of electricity.

### DIMMABLE

Lights are dimmable down to 5% for maximum control of the lighting environment.

### POLYCARBONATE GLOBE

Impact and weather resistant for tough environments.



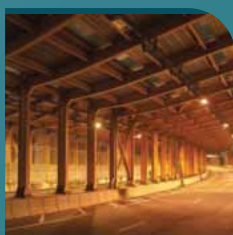
**Sceptalight**

Whether you're looking for economical outdoor lighting solutions or corrosion-resistant fixtures for punishing industrial environments, Sceptalight fixtures from IPEX prove themselves to be all-round performers in a variety of indoor and outdoor applications. Sceptalight fixtures are made from a glass-reinforced thermoplastic polyester resin, which enable them to stand up better to corrosive elements than metal. This thermoplastic design marries an unrivaled balance of strength, stiffness and toughness with all the benefits users appreciate of Scepter rigid PVC conduit and fittings – long life, easy servicing and high impact-resistance.

Sceptalight's thermoplastic construction offers outstanding corrosion and chemical resistance. And its interior and exterior silicone gaskets create a watertight seal, the reason it performs equally well indoors and outside.

Wherever you need a lighting fixture that can withstand exposure to chemicals, fluids or harsh physical conditions, you'll find a home for Sceptalight.

# Nonmetallic Light Fixtures



Sceptalight Nonmetallic Light Fixtures

50

# SCEPTALIGHT NONMETALLIC LIGHT FIXTURES



Whether you're looking for economical outdoor lighting solutions, corrosion-resistant fixtures for punishing industrial environments or energy-saving LED, Sceptalight fixtures from IPEX prove themselves to be all-round performers in a variety of indoor and outdoor applications. Sceptalight fixtures are made from a glass-reinforced thermoplastic polyester resin, which enable them to stand up better to corrosive elements than metal. This thermoplastic design marries an unrivaled balance of strength, stiffness and toughness with all the benefits users appreciate of Scepter rigid PVC conduit and fittings – long life, easy servicing and high impact-resistance.

Sceptalight's thermoplastic construction offers outstanding corrosion and chemical resistance. Silicone gaskets in Sceptalight fixtures – mounted at the base of the globe and within the ceiling box – provide a water- and vapour-tight seal which protects the electrical connections inside.

Wherever you need a lighting fixture that can withstand exposure to chemicals, fluids or harsh physical conditions, you'll find a home for Sceptalight.

## APPLICATIONS

- Chemical Plant
- Food Processing
- Highway Tunnel
- Mine Tunnels
- Walk-in Freezers
- Industrial/Commercial
- Marine
- Agricultural
- Waste Water
- Greenhouses

## STANDARDS



50



## WET LOCATIONS

C22.2 No. 250  
CSA Listed to UL 1598  
Minimum 60°C supply conductors

CSA certified for wet locations, Sceptalight fixtures are built to withstand any environment where liquids drip, splash or flow against electrical equipment. And our polycarbonate globes are an excellent alternative to glass in punishing environments where high impact resistance is important. Sceptalight fixtures can operate in extreme temperatures and are resistant to damaging ultraviolet rays. For years, our fixtures have been proven performers on docks, wharfs, decks, walkways, shipyards and a variety of other applications where exposed to the elements.

### LIGHT OPTIONS

|                     |   |
|---------------------|---|
| LED                 | ✓ |
| Incandescent        | ✓ |
| Compact Fluorescent | ✓ |



## HAZARDOUS LOCATIONS

CSA Listed to UL 844  
CLASS I, DIV 2 Groups A, B, C & D CLASS II,  
DIV 2 Groups F & G  
Minimum 90°C supply conductors

Sceptalight offers fixtures that are CSA certified for hazardous locations, making them the ideal choice for specific harsh industrial environments involving flammable or explosive gases, vapours or dusts. In addition to their sturdy construction, all our fixtures rated for hazardous locations include a heat-treated globe designed to endure drastic temperature changes such as direct spray of cool water on a hot fixture. Sceptalight fixtures are equipped with brass screws and inserts to ensure performance in punishing industrial conditions.

### LIGHT OPTIONS

|                     |   |
|---------------------|---|
| LED                 |   |
| Incandescent        | ✓ |
| Compact Fluorescent | ✓ |





## ADVANTAGES

- 1 Available in LED, compact fluorescent and incandescent to suit a variety of applications.**
- 2 Stable Construction**  
Reinforced support feet offer secure mounting.
- 3 Adaptable**  
Threaded conduit hubs permit connection to nonmetallic and metallic raceways.
- 4 Watertight Seal**  
Temperature and weather-resistant silicone gaskets protect fixture from moisture penetration.
- 5 Long Life**  
Sceptalight nonmetallic fixtures provide long life and easy servicing—unlike metal fixtures and guards that can corrode and seize together.
- 6 Indoor/Outdoor Use**  
UV-resistant material makes Sceptalight fixtures suitable for both indoor and outdoor use.
- 7 Corrosion Resistant**  
Thermoplastic construction resists attack from acids, alcohols, alkalis, organic solvents, detergents/ cleaners, greases and oils as well as many other types of chemicals.  
Withstands exposure to direct sunlight, heat, salt water and extreme weather.
- 8 Durable, Impact Resistant**  
High-impact nonmetallic guard resists physical impact, chemical attack and heat-induced deformation.

## SHORT FORM SPECIFICATIONS

Light fixtures shall be nonmetallic and constructed of 30% glass filled polyester material exhibiting a maximum linear expansion of  $1.4 \times 10^{-5}$  in./in./°F. Fixtures shall be assembled with high temperature silicone gaskets, brass inserts and screws.

Incandescent light fixtures shall be rated for use with a Maximum 150 Watt incandescent lamp. Compact fluorescent light fixtures shall be of the wattage specified and be supplied complete with lamp and ballast (high power factor, low harmonic electronic for 18 & 26 Watt fixtures and magnetic for 7, 9 & 13 Watt fixtures).

Light fixtures shall be third-party certified to CSA C22.2 No. 9 and C22.2 No. 250 for indoor/outdoor wet location use and where the specified installation requires; Class I Div 2 and Class II Div 2 hazardous location use.

### APPROVED PRODUCTS:

Sceptalight™ LVPF/LVPL/LVPE/LPMF/LPPL series light fixtures manufactured by IPEX.



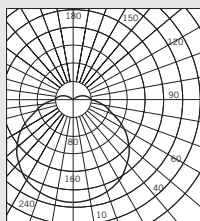
# SCEPTALIGHT LED

Introducing three new Sceptalight LED products: the LED Retrofit Light Engine, the Heavy-Duty LED Light Fixture and the Utility LED Light Fixture. Sceptalight LEDs offer significant energy savings, up to 85% compared to incandescent, and up to 34% compared to fluorescents. Moreover, Sceptalight LEDs can last beyond 50,000 hours without a single need for maintenance.

Constructed of very strong and durable materials, the polycarbonate globe is impact resistant and is resistant to UV light degradation. The specially designed aluminum heat sink dissipates the heat generated by the LEDs to the exterior environment ensuring long-life and optimal performance in both hot and cold environments. Sceptalight LEDs have been tested and certified for use in indoor, outdoor, wet location, wash down and corrosive environments. They are certified to the latest LED light fixture standards and NEMA 4X approved.



## PHOTOMETRIC DATA



15W 120V  
Frosted LED

## STANDARDS

|                               |                  |          |
|-------------------------------|------------------|----------|
| LIGHT FIXTURE (LVPF/LVPE-LED) | CSA C22.2 250.0  | UL 1598  |
| LIGHT ENGINE (LLED-15)        | CSA T.I.L. B-79A | UL 1598C |



### RETROFIT OPTION

Sceptalight LEDs can easily retrofit onto existing installations for increased energy savings.

### CORROSION RESISTANT

Heat sink is coated with a durable e-coat layer that prevents corrosion.

### NEMA 4X AND IP66 RATED

Approved for wet locations, wash down and corrosive environments.

### HEAT DISSIPATION

Specially designed heat sink ensures long life and optimum performance for over 50,000 hours.

### ENERGY EFFICIENT

1,000 lumens of light output is produced with only 15 Watts of electricity.

### DIMMABLE

Lights are dimmable down to 5% for maximum control of the lighting environment.

### POLYCARBONATE GLOBE

Impact and weather resistant for tough environments.

## TECHNICAL SPECIFICATIONS

|                          |         |
|--------------------------|---------|
| LUMEN OUTPUT .....       | 1000 LM |
| INPUT VOLTAGE .....      | 120 VAC |
| FREQUENCY .....          | 60 HZ   |
| NOMINAL POWER .....      | 15 W    |
| COLOUR TEMPERATURE ..... | 5000 K  |
| CRI .....                | > 80    |

|                                 |                |
|---------------------------------|----------------|
| POWER FACTOR .....              | 0.98           |
| TOTAL HARMONIC DISTORTION ..... | 10.5%          |
| OPERATING TEMPERATURE .....     | -40°C TO 40°C  |
| DIMMABILITY RANGE .....         | DOWN TO 5%     |
| RATED LIFE .....                | > 50,000 HOURS |
| WARRANTY* .....                 | 5 YEARS        |

\*LIMITED WARRANTY & LIMITATION OF LIABILITY: Consult IPEX Sceptalight™ LED Retrofit Light Engine Specific Terms and Conditions of Sale and Limited Warranty and Limitation of Liability for further details, available at [www.ipexna.com](http://www.ipexna.com)

# SCEPTALIGHT COMPACT FLUORESCENT

Sceptalight Compact Fluorescent fixtures combine the outstanding corrosion and chemical resistance of their thermoplastic design with the energy-saving advantages of compact fluorescents. Working four to five times more efficiently per watt than incandescents, Sceptalight compact fluorescents provide 10-20 times the lamp life. Without sacrificing light levels, they use 75% less energy than incandescents for a lower total energy and maintenance cost. They are available in twin tube and quad tube configurations and include ballast.

## Twin Tubes

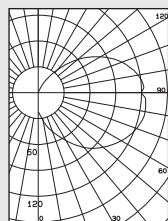
- Available in 7, 9 & 13 Watt
- Standard Magnetic Ballast

## Quad Tubes

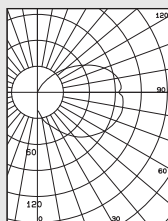
- Available in 18 & 26 Watt
- Electronic Ballast provides "Instant Start" at temps as low as -25°C
- Offers 10,000 hours of lamp life



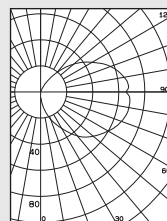
## PHOTOMETRIC DATA



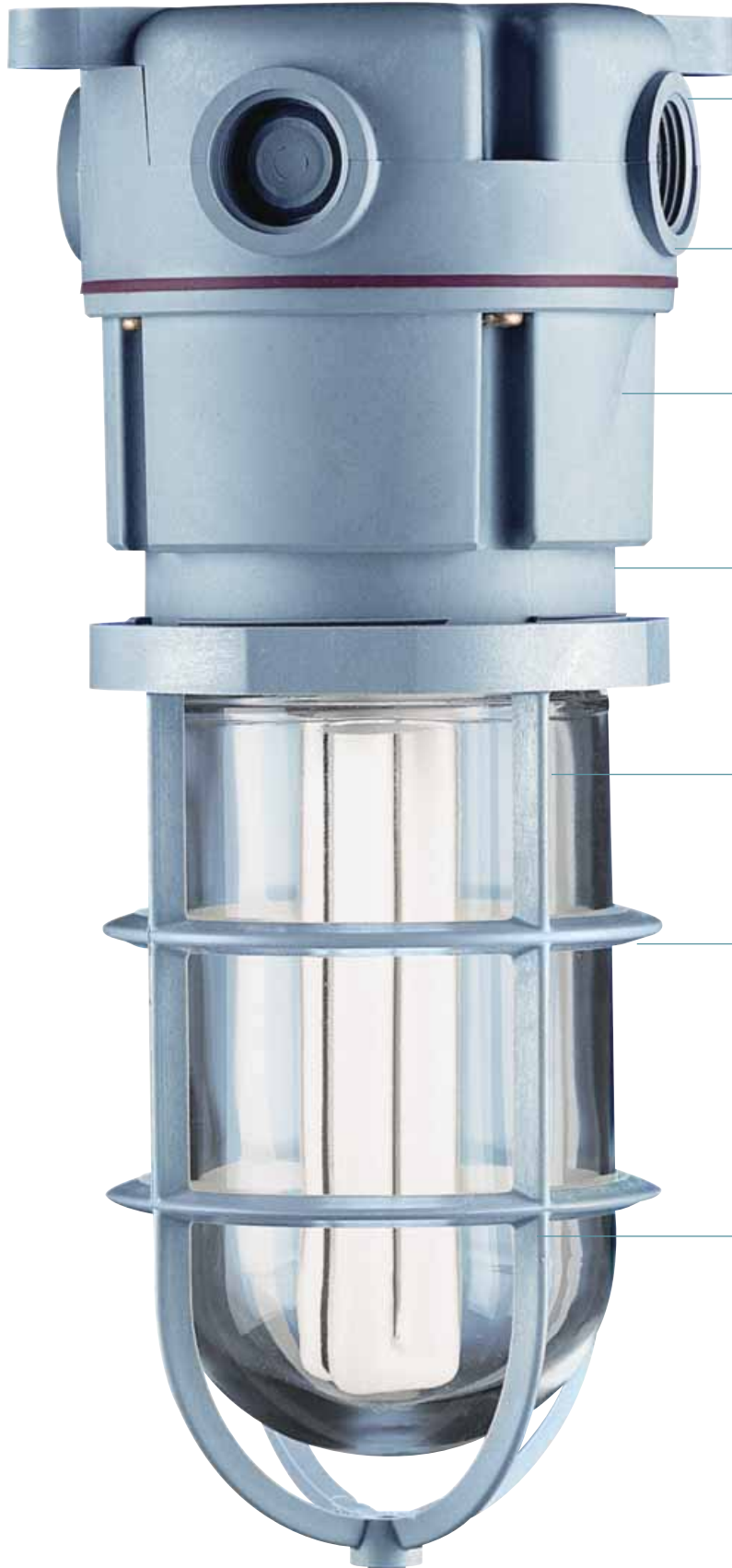
**26W Quad  
Compact  
Flourescent**



**18W Quad  
Compact  
Flourescent**



**13W Twin-Tube  
Compact  
Flourescent**



### **STABLE CONSTRUCTION**

Reinforced support feet offer secure mounting.

### **ADAPTABLE**

Threaded conduit hubs permit connection to nonmetallic and metallic raceways.

### **WATERTIGHT SEAL**

Temperature and weather-resistant gaskets protect fixture from moisture penetration.

### **LONG LIFE**

Sceptalight nonmetallic fixtures provide long life and easy servicing—unlike metal fixtures and guards that can corrode and seize together.

### **INDOOR/OUTDOOR USE**

UV-resistant material makes Sceptalight fixtures suitable for both indoor and outdoor use.

### **CORROSION RESISTANT**

Thermoplastic construction resists attack from acids, alcohols, alkalis, organic solvents, detergents/cleaners, greases and oils as well as many other types of chemicals. Withstands exposure to direct sunlight, heat, and extreme weather.

### **DURABLE, IMPACT RESISTANCE**

High-impact nonmetallic guard resists physical impact, chemical attack and heat-induced deformation.

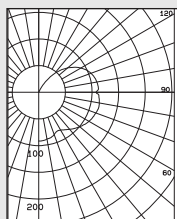
# SCEPTALIGHT INCANDESCENT

Sceptalight incandescent fixtures make the most practical choice to meet the daily needs of commercial, industrial, marine and agricultural applications. Our incandescents will take up to a 150 watt incandescent bulb and are ideal for short burn times as well as flashing and dimming applications.

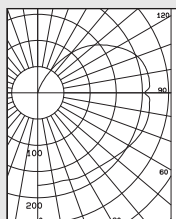
For light to medium duty applications that do not require the same level of ruggedness, Sceptalight has a low-cost ceiling-mounted Utility Light Fixture available in standard, clear polycarbonate and coloured heat-resistant globes.



## PHOTOMETRIC DATA



**100W 120V  
Coated A19  
Incandescent**



**150W 120V  
Coated A21  
Incandescent**





### **INSTALLATION FLEXIBILITY**

Fixtures can be mounted in ceiling, wall or pendant methods to accommodate installation requirements.

### **INDOOR/OUTDOOR USE**

Temperature and weather-resistant gaskets protect fixture from moisture penetration.

### **COST EFFECTIVE SOLUTION**

Inexpensive to install, the fixture takes up to a 150 watt incandescent bulb.

### **ADAPTABLE LIGHTING ENVIRONMENTS**

Ideal for short burn times, flashing & dimming applications.

### **COLOURED GLOBES AVAILABLE**

Available in a range of coloured heat-resistant globes to transform the light into an indicator or warning light.

### **CORROSION RESISTANT**

Thermoplastic construction withstands exposure to direct sunlight, heat & extreme weather.

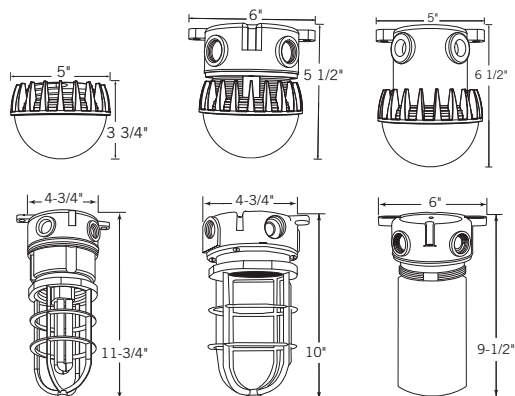


## MOUNTING OPTIONS

**Sceptalight LED can be retrofit with Ceiling Mounts only.**

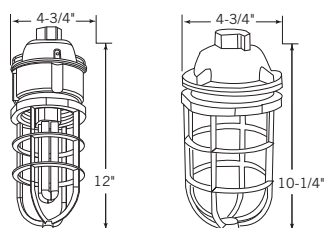
### CEILING MOUNT

Box with four 3/4" threaded hubs and integral mounting feet.



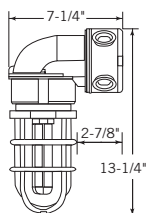
### PENDANT MOUNT

Pendant cap with 3/4" threaded hub and a locking set screw.



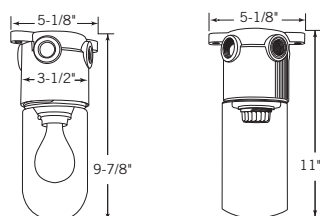
### WALL MOUNT

Box with four 3/4" threaded hubs, 90° wall bracket and integral mounting feet.



### CEILING MOUNT UTILITY FIXTURES

Box with four 3/4" threaded hubs and integral mounting feet.



## GLOBE OPTIONS

(For incandescent and fluorescent options only)

### Standard Clear Glass Globes

Ideal for general purpose area lighting for either indoor or outdoor use.

### Clear Polycarbonate Globes

Impact resistant globes for added protection in case of accidental contact.

### Coloured Heat-Resistant Glass Globes

Available in red, blue, green or amber – to transform the light to an indicator or warning light.



Clear  
Polycarbonate



Standard/Heat-treated  
Clear Glass



Heat-treated  
Red Glass



Heat-treated  
Blue Glass



Heat-treated  
Green Glass



Heat-treated  
Amber Glass

## WET LOCATION USE



| Description | Part Number | Product Code | Standard Packaging |
|-------------|-------------|--------------|--------------------|
|-------------|-------------|--------------|--------------------|

### Sceptalight LED

|  |          |        |    |
|--|----------|--------|----|
| 15 W LED Retrofit Light Engine         | LLED-15  | 277018 | 20 |
| 15 W LED LVPF Heavy Duty Light Fixture | LVPF-LED | 277074 | 6  |
| 15 W LED LVPE Utility Light Fixture    | LVPE-LED | 277075 | 6  |

### Ceiling mount with standard clear glass globe

|                                 |           |        |   |
|---------------------------------|-----------|--------|---|
| 150 W Incandescent              | LVPF150C  | 077225 | 6 |
| 150 W Incandescent (Less Guard) | LVPF150LG | 077237 | 6 |
| 7 W Compact Fluorescent         | LVPL7C    | 077120 | 6 |
| 9 W Compact Fluorescent         | LVPL9C    | 077121 | 6 |
| 13 W Compact Fluorescent        | LVPL13C   | 077122 | 6 |
| 18 W Compact Fluorescent        | LVPL18C   | 077210 | 6 |
| 26 W Compact Fluorescent        | LVPL26C   | 077170 | 6 |

### Ceiling mount with clear polycarbonate globe (no guard)

|                          |           |        |   |
|--------------------------|-----------|--------|---|
| 7 W Compact Fluorescent  | LVPL7PCC  | 077145 | 6 |
| 9 W Compact Fluorescent  | LVPL9PCC  | 077155 | 6 |
| 13 W Compact Fluorescent | LVPL13PCC | 077165 | 6 |
| 18 W Compact Fluorescent | LVPL18PCC | 077211 | 6 |
| 26 W Compact Fluorescent | LVPL26PCC | 077176 | 6 |

### Pendant mount with standard clear glass globe

|                          |          |        |   |
|--------------------------|----------|--------|---|
| 150 W Incandescent       | LPMF150C | 077231 | 6 |
| 13 W Compact Fluorescent | LPPL13C  | 077185 | 6 |
| 18 W Compact Fluorescent | LPPL18C  | 077212 | 6 |
| 26 W Compact Fluorescent | LPPL26C  | 077184 | 6 |

### Pendant mount with clear polycarbonate globe (no guard)

|                          |           |        |   |
|--------------------------|-----------|--------|---|
| 7 W Compact Fluorescent  | LPPL7PCC  | 077345 | 6 |
| 9 W Compact Fluorescent  | LPPL9PCC  | 077355 | 6 |
| 13 W Compact Fluorescent | LPPL13PCC | 077365 | 6 |
| 18 W Compact Fluorescent | LPPL18PCC | 077273 | 6 |
| 26 W Compact Fluorescent | LPPL26PCC | 077375 | 6 |

### Wall Mount

|                        |        |        |   |
|------------------------|--------|--------|---|
| 90° Wall Mount Bracket | LWB150 | 077233 | 1 |
|------------------------|--------|--------|---|

**Note:** For wall mount fixtures select the desired ceiling mount fixture from above and add LWB150 90° wall mount bracket.

## WET LOCATION USE CONT'D

| Description | Part Number | Product Code | Standard Packaging |
|-------------|-------------|--------------|--------------------|
|-------------|-------------|--------------|--------------------|

### Utility Light - 150 Watt Incandescent (Ceiling Mount Only)

|                                      |               |        |    |
|--------------------------------------|---------------|--------|----|
| w/ Std. Glass Globe                  | LVPE150-10/15 | 077493 | 6  |
| w/ Polycarbonate Globe               | LVPE150-PCC*  | 077181 | 6  |
| w/ Std. Glass Globe & Clamp-on Guard | LVPE150-1015G | 077402 | 6  |
| w/ H.R. Glass Globe Clear            | LVPE150HRC    | 077578 | 6  |
| w/ H.R. Glass Globe Red              | LVPE150HRR    | 077599 | 6  |
| w/ H.R. Glass Globe Blue             | LVPE150HRB    | 077579 | 6  |
| w/ H.R. Glass Globe Green            | LVPE150HRG    | 077597 | 6  |
| w/ H.R. Glass Globe Amber            | LVPE150HRA    | 077598 | 6  |
| Clamp-on Guard for LVPE              | LVPU150       | 077558 | 30 |

\* Maximum 60W incandescent lamp Type A

## HAZARDOUS LOCATION USE



| Description | Part Number | Product Code | Standard Packaging |
|-------------|-------------|--------------|--------------------|
|-------------|-------------|--------------|--------------------|

### Ceiling mount with heat resistant glass globe

|                                |                |        |   |
|--------------------------------|----------------|--------|---|
| 150 W Incandescent Clear       | LVPF150HRC-HAZ | 077414 | 6 |
| 150 W Incandescent Red         | LVPF150HRR-HAZ | 077415 | 6 |
| 150 W Incandescent Blue        | LVPF150HRB-HAZ | 077416 | 6 |
| 150 W Incandescent Green       | LVPF150HRG-HAZ | 077417 | 6 |
| 150 W Incandescent Amber       | LVPF150HRG-HAZ | 077494 | 6 |
| 18 W Compact Fluorescent Clear | LVPL18HRC-HAZ  | 077347 | 6 |
| 18 W Compact Fluorescent Red   | LVPL18HRR-HAZ  | 077348 | 6 |
| 18 W Compact Fluorescent Blue  | LVPL18HRB-HAZ  | 077349 | 6 |
| 18 W Compact Fluorescent Green | LVPL18HRG-HAZ  | 077353 | 6 |
| 18 W Compact Fluorescent Amber | LVPL18HRA-HAZ  | 077354 | 6 |
| 26 W Compact Fluorescent Clear | LVPL26HRC-HAZ  | 077377 | 6 |
| 26 W Compact Fluorescent Red   | LVPL26HRR-HAZ  | 077378 | 6 |
| 26 W Compact Fluorescent Blue  | LVPL26HRB-HAZ  | 077379 | 6 |
| 26 W Compact Fluorescent Green | LVPL26HRG-HAZ  | 077399 | 6 |
| 26 W Compact Fluorescent Amber | LVPL26HRA-HAZ  | 077400 | 6 |

### Pendant mount with heat resistant glass globe

|                                |                |        |   |
|--------------------------------|----------------|--------|---|
| 150 W Incandescent Clear       | LPMF150HRC-HAZ | 077495 | 6 |
| 150 W Incandescent Red         | LPMF150HRR-HAZ | 077496 | 6 |
| 18 W Compact Fluorescent Clear | LPPL18HRC-HAZ  | 077500 | 6 |
| 18 W Compact Fluorescent Red   | LPPL18HRR-HAZ  | 077498 | 6 |
| 26 W Compact Fluorescent Clear | LPPL26HRC-HAZ  | 077407 | 6 |
| 26 W Compact Fluorescent Red   | LPPL26HRR-HAZ  | 077409 | 6 |

## HAZARDOUS LOCATION USE CONT'D



| Description | Part Number | Product Code | Standard Packaging |
|-------------|-------------|--------------|--------------------|
|-------------|-------------|--------------|--------------------|

### Wall Mount

|                        |        |        |   |
|------------------------|--------|--------|---|
| 90° Wall Mount Bracket | LWB150 | 077233 | 1 |
|------------------------|--------|--------|---|

**Note:** For wall mount fixtures select the desired ceiling mount fixture from above and add LWB150 90° wall mount bracket.

## ACCESSORIES & COMPONENTS

| Description | Part Number | Product Code | Standard Packaging |
|-------------|-------------|--------------|--------------------|
|-------------|-------------|--------------|--------------------|

### Standard Glass Globes

|       |        |        |   |
|-------|--------|--------|---|
| Clear | LGC150 | 077247 | 1 |
|-------|--------|--------|---|



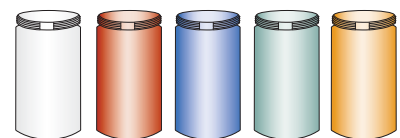
### Heat Resistant Globes

|       |          |        |   |
|-------|----------|--------|---|
| Clear | LG150T   | 077909 | 1 |
| Red   | LCGR150T | 077239 | 1 |
| Blue  | LCGB150T | 077910 | 1 |
| Green | LCGG150T | 077241 | 1 |
| Amber | LCA150T  | 077242 | 1 |



### Polycarbonate Globes (for use with compact fluorescent or maximum 60W incandescent lamp)

|       |        |        |   |
|-------|--------|--------|---|
| Clear | LPCC18 | 077911 | 1 |
| Red   | LPCR18 | 077912 | 1 |
| Blue  | LPCB18 | 077913 | 1 |
| Green | LPCG18 | 077914 | 1 |
| Amber | LPCA18 | 077915 | 1 |



### Threaded Junction Boxes

|  |           |        |   |
|--|-----------|--------|---|
|  | LFB150C   | 077250 | 6 |
|  | LFB150T * | 077251 | 6 |

\*LFB150T complete with 1/2 threaded" hole in center of cover



## ACCESSORIES & COMPONENTS CONT'D

| Description | Part Number | Product Code | Standard Packaging |
|-------------|-------------|--------------|--------------------|
|-------------|-------------|--------------|--------------------|

### Fixture Components (LVPF, LVPL, LPMF, LPPL)

|                                |          |        |   |
|--------------------------------|----------|--------|---|
| Ceiling Mount Box              | LVPB 150 | 077243 | 1 |
| Pendant Mount Cap              | LPC 150  | 077246 | 1 |
| 90 Wall Bracket                | LWB 150  | 077233 | 1 |
| Socket Base Assembly           | LSBA 150 | 077245 | 1 |
| Medium Base Replacement Socket | LSOC 150 | 077249 | 1 |
| Screw-on Guard                 | LVPB 150 | 077978 | 1 |

### Replacement Lamps

|                |         |        |   |
|----------------|---------|--------|---|
| 7 Watt         | LD/E 7  | 072841 | 1 |
| 9 Watt         | LD/E 9  | 072844 | 1 |
| 13 Watt        | LD/E 13 | 072847 | 1 |
| 18 Watt (Quad) | LD/E 18 | 077947 | 1 |
| 26 Watt (Quad) | LD/E 26 | 077081 | 1 |

### Replacement Lamp Holders

|                             |         |        |   |
|-----------------------------|---------|--------|---|
| 7/9 Watt Lamp Holder        | LLH 7/9 | 072843 | 1 |
| 13 Watt Lamp Holder         | LLH 13  | 072849 | 1 |
| 18 Watt Lamp Holder (4 Pin) | LLH 18  | 072818 | 1 |
| 26 Watt Lamp Holder (4 Pin) | LLH 26  | 077082 | 1 |

### Ballasts

|                                  |         |        |   |
|----------------------------------|---------|--------|---|
| 7/9 Watt Magnetic Ballast (NPF)  | LEB 7/9 | 072842 | 1 |
| 13 Watt Magnetic Ballast (NPF)   | LEB 13  | 072848 | 1 |
| 18 Watt Electronic Ballast (HPF) | LEB 18  | 077224 | 1 |
| 26 Watt Electronic Ballast (HPF) | LEB 26  | 077080 | 1 |

### Gaskets

|             |            |        |   |
|-------------|------------|--------|---|
| Box Gasket  | LBGASK 150 | 072820 | 1 |
| Lamp Gasket | LLGASK 150 | 076971 | 1 |



The premier ducting product on the market, IPEX Super Duct® is specifically engineered and quality manufactured to deliver the high-impact and crush strength demanded by today's utility companies, for underground ducting applications.

Made from a specially formulated compound, Super Duct can withstand high physical loads, while providing the natural flexibility for field bending to accommodate minor changes in elevation or direction. And Super Duct's smooth bore makes cable pulling easier.

# Power & Communications Duct



Super Duct Pipe

64

Super Duct Fittings

67

Underground Duct Spacers

70



# SUPER DUCT POWER & COMMUNICATIONS DUCT

2" - 6" (50mm - 150mm)

## SUPER<sup>®</sup> DUCT

Super Duct is recognized by major utilities, contractors and engineering firms as the premier ducting product available on the market.

Super Duct is manufactured with a specialized compound, and engineered for high impact and crush strength specifically required by utilities for underground duct. This compound also enhances the friction coefficient of Super Duct.

Super Duct (Type DB-2) is certified to CSA Standard C22.2 No. 211.1 both for encasement in concrete/masonry and for direct burial.

### APPLICATIONS

- Utilities
- Telecom
- Hospitals / Medical Complexes
- Commercial Buildings
- Communications
- Cable

### STANDARDS



CSA C22.2 No. 211.1

### ADVANTAGES

- 1 Light Weight**  
Super Duct is easy to carry and install, reducing labour requirements and costs.
- 2 Long Lengths**  
Super Duct is available in 10' (3m) and 20' (6.1m) lengths, minimizing the number of connections needed.
- 3 Bell Ends**  
Super Duct is bell-ended, allowing for easy assembly in the field.
- 4 High Compressive Strength**  
Super Duct's specially formulated compound is designed to withstand high loads.
- 5 Low Coefficient of Friction**  
The smooth bore of Super Duct facilitates cable pulling and eliminates costly cable damage.
- 6 Quality Control**  
Stringent, continuous testing ensures that Super Duct is a consistently high quality product.
- 7 Field Bending**  
The natural flexibility of IPEX Super Duct allows field bending, to accommodate minor changes in elevation or direction.



## SUPER DUCT (TYPE DB-2)

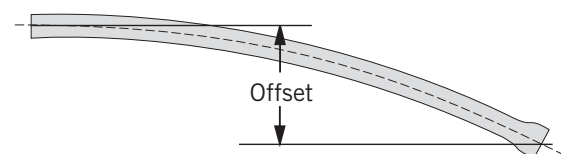
| Description            | CSA Requirements  | Reference              |
|------------------------|---|------------------------|
| Pipe Stiffness<br>@ 5% | 43.5 psi<br>(300 kPa)   | CSA C22.2<br>No. 211.1 |
| Crush<br>Resistance    | 198 lbs. @ 73°F<br>(90 kg @ 23°C)<br>10% max. residual<br>deflection                        | CSA C22.2<br>No. 211.1 |
| Impact<br>Resistance   | 45 ft. lbf @ 73°F<br>(61J @ 23°C)<br>25 ft. lbf @ 0°F<br>(34J @ -18°C)                      | CSA C22.2<br>No. 211.1 |
| Residual Stress        | 149°F (65°C)<br>for 4 hours.<br>Allow to cool to<br>73°F (23°C).<br>0.5% shrinkage allowed. | CSA C22.2<br>No. 211.1 |
| Joint Tightness        | 5 psi (35 kPa) internal<br>water pressure applied<br>for 24 hours.                          | CSA C22.2<br>No. 211.1 |

Note: Super Duct meets or exceeds all CSA requirements.

### FIELD BENDING

Field bending can accommodate minor changes in elevation or direction without the use of special sweeps or fittings. the following table indicates typical maximum offset bends that can be achieved by cold bending.

### ALLOWABLE OFFSET FOR SUPER DUCT



| Size  |     | Max Allowable<br>Offset<br>10' Length |     | Max Allowable<br>Offset<br>20' Length |       |
|-------|-----|---------------------------------------|-----|---------------------------------------|-------|
| in.   | mm  | in.                                   | mm  | in.                                   | mm    |
| 2     | 50  | 20                                    | 508 | 79                                    | 2 007 |
| 3     | 75  | 14                                    | 356 | 56                                    | 1 422 |
| 3-1/2 | 90  | 12                                    | 305 | 49                                    | 1 245 |
| 4     | 100 | 11                                    | 279 | 43                                    | 1 092 |
| 5     | 125 | 7                                     | 178 | 35                                    | 889   |
| 6     | 150 | 7                                     | 178 | 29                                    | 737   |

#### NOTES:

1. Axial deflection should not be attempted at the joints.
2. The above values were established for ambient temperatures above the freezing point. Increased radii may be desirable at below-freezing temperatures.

## SHORT FORM SPECIFICATIONS

### PRODUCT

Duct shall be IPEX Super Duct or approved equal. Duct, fittings, Monobloc spacers and solvent cement shall be provided by the same manufacturer to assure system integrity. The duct is to be secured mechanically with IPEX Monobloc or vertical lock spacers to prevent disturbance to the alignment during installation.

### IDENTIFICATION

Duct shall be identified for type and manufacturer and shall be traceable to plant location, date, shift and machine of manufacture. The markings shall be legible and permanent.

### MATERIAL

Duct for use in underground, encased or direct burial applications shall be made from PVC compound that includes inert modifiers to give high modulus of elasticity, improved weatherability and deflection characteristics.

### STANDARDS

Type DB-2 Super Duct and Solvent Cement Fittings as manufactured by IPEX Inc. shall be used for direct burial and/or concrete encased applications. The duct and fittings must be certified to CSA Standard C22.2 No. 211.1 and be installed in accordance with the Canadian Electrical Code Part 1, Rule 12-1150 through 12-1166. Polyethylene push-fit couplings are only to be used in concrete-encased application.



## INSTALLATION

### BENDS

Standard 90°, 45° and 22 1/2° bends are available from sizes 2" through to 6" in 24", 36", 42" and 60" radius. All bends are supplied with 6" (15.2cm) tangents. The centre line lay length (L) can be calculated using;

$$L = \left( \pi r \times \frac{\phi}{180} \right) + 2 (\text{tangent})$$

Where:  $\pi$  = 3.14

L = centre line lay length

r = radius of bend

$\phi$  = angle of bend

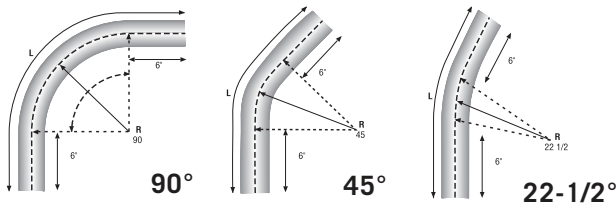
tangent = 6"

**Example:** for a 3" 90° bend with a 36" radius - calculate the lay length:

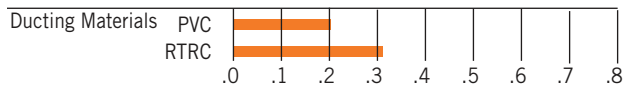
$$L = \left( 3.14 \times 36 \times \frac{90^\circ}{180} \right) + 2 (6)$$

$$L = 69 \text{ inches}$$

$$L (\text{metres}) = \frac{L \text{ imperial} = 69"}{12 \times 3.281} = \frac{69}{39.37} = 1.75 \text{m}$$



### STATIC FRICTION COEFFICIENT



### SUPER DUCT DIMENSIONS

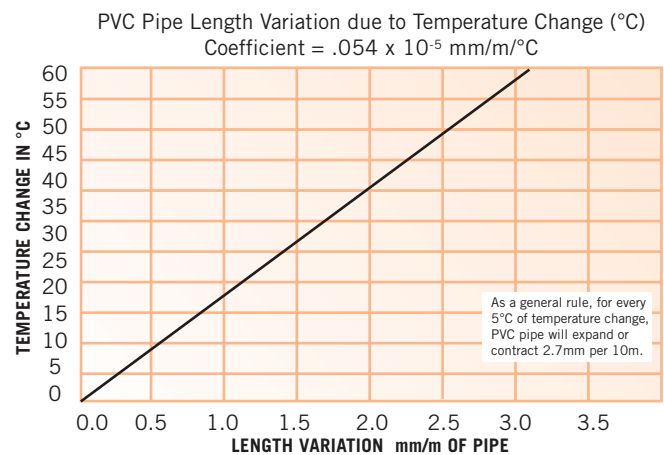
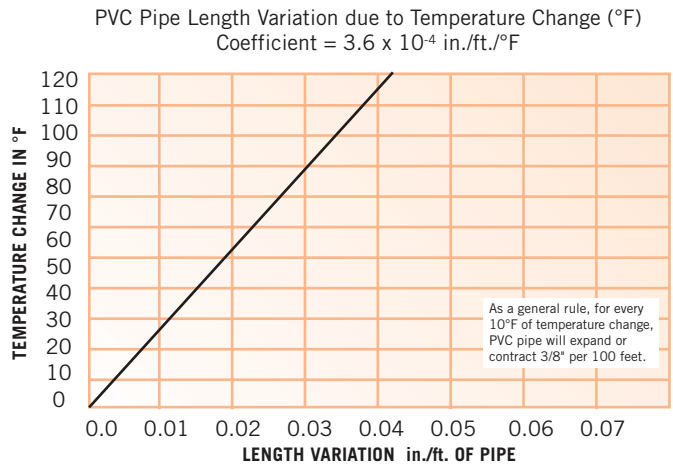
| Dimension |     | Minimum ID |        | Nominal Wall |      | Average OD |        |
|-----------|-----|------------|--------|--------------|------|------------|--------|
| in        | mm  | in         | mm     | in           | mm   | in         | mm     |
| 2         | 50  | 2.001      | 50.83  | .082         | 2.08 | 2.250      | 57.15  |
| 3         | 75  | 3.000      | 76.20  | .097         | 2.46 | 3.250      | 82.55  |
| 3-1/2     | 90  | 3.480      | 88.39  | .109         | 2.77 | 3.730      | 94.74  |
| 4         | 100 | 3.941      | 100.10 | .120         | 3.05 | 4.216      | 107.09 |
| 5         | 125 | 4.974      | 126.34 | .153         | 3.89 | 5.299      | 134.60 |
| 6         | 150 | 5.896      | 149.76 | .180         | 4.57 | 6.275      | 159.39 |

## EXPANSION AND CONTRACTION

The following precautions should be exercised when extreme temperature variations are anticipated during the installation of IPEX Super Duct.

1. Allow extra duct footage at each tie-in for contraction when duct temperature is higher than soil temperature. Allow extra room for expansion if reverse condition exists.
2. Backfill from tie-in point toward end of duct run.

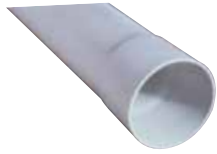
The coefficient of thermal expansion of IPEX Super Duct is  $3 \times 10^{-5}$  in./in./°F ( $5.4 \times 10^{-5}$  mm/mm/°C). These charts show the expansion that can be expected at various temperature ranges for unburied (unrestrained) duct.



## SUPER DUCT PRODUCT SELECTION

| Dimension<br>(in) | Product<br>Code | Product<br>Code B.C. | Ft/Crate | Weight/<br>100' (lbs) |
|-------------------|-----------------|----------------------|----------|-----------------------|
|-------------------|-----------------|----------------------|----------|-----------------------|

### CSA Type II – 10' Length Belled



|       |        |         |       |       |
|-------|--------|---------|-------|-------|
| 2     | 008220 | *008225 | 2,460 | 33.7  |
| 3     | 008230 | *008233 | 1,120 | 61.2  |
| 3-1/2 | 008235 | *008235 | 810   | 77.3  |
| 4     | 008240 | *008244 | 630   | 99.2  |
| 5     | 008250 | *008253 | 430   | 159.6 |
| 6     | 008260 | *008263 | 280   | 226.6 |

\*Product Codes are for B.C. only.

### CSA Type II – 20' Length Belled

|       |        |         |       |       |
|-------|--------|---------|-------|-------|
| 2     | 008221 | *008226 | 4,920 | 33.7  |
| 3     | 008231 | *008234 | 2,240 | 61.2  |
| 3-1/2 | 008236 | *008236 | 1,620 | 77.3  |
| 4     | 008241 | *008245 | 1,260 | 99.2  |
| 5     | 008251 | *008254 | 860   | 159.6 |
| 6     | 008261 | *008264 | 560   | 226.6 |

\*Product Codes are for B.C. only.

| Dimension<br>(in) | Product<br>Code | Ft/Crate | Weight/100'<br>(lbs) |
|-------------------|-----------------|----------|----------------------|
|-------------------|-----------------|----------|----------------------|

### CSA Type II – Split Duct

|       |        |       |       |
|-------|--------|-------|-------|
| 2     | 008222 | 2,460 | 33.7  |
| 3     | 008232 | 1,120 | 61.2  |
| 3-1/2 | 008237 | 810   | 77.3  |
| 4     | 008242 | 630   | 99.2  |
| 5     | 008252 | 430   | 159.6 |
| 6     | 008262 | 280   | 226.6 |

## SUPER DUCT FITTINGS

| Size<br>inches | Part<br>Number | Product<br>Code |
|----------------|----------------|-----------------|
|----------------|----------------|-----------------|

### PVC Coupling - Solvent Weld



|          |         |        |
|----------|---------|--------|
| 2        | SWC020  | 029001 |
| 2 (long) | SWC020L | 029009 |
| 3        | SWC030  | 029002 |
| 3-1/2    | SWC035  | 029003 |
| 4        | SWC040  | 029004 |
| 5        | SWC050  | 029005 |
| 6        | SWC060  | 029006 |

### Polyethylene Coupling – Push Fit\*



|       |        |        |
|-------|--------|--------|
| 2     | PFC020 | 029011 |
| 3     | PFC030 | 029012 |
| 3-1/2 | PFC035 | 029013 |
| 4     | PFC040 | 029014 |
| 5     | PFC050 | 029015 |
| 6     | PFC060 | 029016 |

\* Suitable for concrete-encased applications only

### PVC 5° Coupling – Solvent Weld



|       |        |        |
|-------|--------|--------|
| 2     | 5ACS20 | 029041 |
| 3     | 5ACS30 | 029042 |
| 3-1/2 | 5ACS35 | 029043 |
| 4     | 5ACS40 | 029044 |
| 5     | 5ACS50 | 029045 |
| 6     | 5ACS60 | 029046 |

### Polyethylene 5° Coupling – Push Fit\*



|       |        |        |
|-------|--------|--------|
| 2     | 5APF20 | 029620 |
| 3     | 5APF30 | 029030 |
| 3-1/2 | 5APF35 | 029502 |
| 4     | 5APF40 | 029998 |
| 5     | 5APF50 | 029050 |

\* Suitable for concrete-encased applications only

### Expansion Joint




|       |        |        |
|-------|--------|--------|
| 2     | EXPJ20 | 029151 |
| 3     | EXPJ30 | 029152 |
| 3-1/2 | EXPJ35 | 029153 |
| 4     | EXPJ40 | 029154 |



## SUPER DUCT FITTINGS


### Reducer Coupling – Solvent Weld

|   |           |        |        |
|---|-----------|--------|--------|
|  | 3 x 2     | RC3020 | 029021 |
|   | 3-1/2 x 2 | RC3520 | 029039 |
|   | 3-1/2 x 3 | RC3530 | 029022 |
|   | 4 x 2     | RC4020 | 029023 |
|   | 4 x 3     | RC4030 | 029024 |
|   | 4 x 3-1/2 | RC4035 | 029025 |
|   | 5 x 4     | RC5040 | 029026 |
|   | 6 x 4     | RC6040 | 029027 |

### Split Wye – Solvent Weld

|  |       |        |        |
|--|-------|--------|--------|
|  | 2     | SPLY20 | 029051 |
|  | 3     | SPLY30 | 029052 |
|  | 3-1/2 | SPLY35 | 029053 |
|  | 4     | SPLY40 | 029054 |


### PVC Bell Ends

|   |       |        |        |
|---|-------|--------|--------|
|  | 2     | BELL20 | 029061 |
|   | 3     | BELL30 | 029062 |
|   | 3-1/2 | BELL35 | 029063 |
|   | 4     | BELL40 | 029064 |
|   | 5     | BELL50 | 029065 |
|   | 6     | BELL60 | 029066 |


### Terminator with Knock-Out Plugs

|   |                |         |        |
|---|----------------|---------|--------|
|  | 3              | TERM30  | 029826 |
|   | 3 1/2          | TERM35  | 029523 |
|   | 4 (with holes) | TERM40H | 029822 |
|   | 4 (no holes)   | TERM40W | 029827 |

### Cap – Solvent Weld

|   |       |        |        |
|---|-------|--------|--------|
|  | 2     | SWCA20 | 029071 |
|   | 3     | SWCA30 | 029072 |
|   | 3-1/2 | SWCA35 | 029073 |
|   | 4     | SWCA40 | 029074 |
|   | 5     | SWCA50 | 029075 |
|   | 6     | SWCA60 | 029076 |

### Tapered Plug


|   |       |        |        |
|---|-------|--------|--------|
|  | 2     | PLUG20 | 029131 |
|   | 3     | PLUG30 | 029132 |
|   | 3-1/2 | PLUG35 | 029133 |
|   | 4     | PLUG40 | 029078 |
|   | 5     | PLUG50 | 029079 |
|   | 6     | PLUG60 | 029136 |

### 90° Long Sweep Bend

|   |              |        |        |         |
|---|--------------|--------|--------|---------|
|  | 2 x 24 R     | 902024 | 029091 | *129091 |
|   | 2 x 36 R     | 902036 | 029092 | *129092 |
|   | 2 x 60 R     | 902060 | 029036 | *129036 |
|   | 3 x 24 R     | 903024 | 029055 | *129055 |
|   | 3 x 36 R     | 903036 | 029093 | *129093 |
|   | 3 x 60 R     | 903060 | 029134 | *129134 |
|   | 3-1/2 x 24 R | 903524 | 029123 | *129123 |
|   | 3-1/2 x 36 R | 903536 | 029094 | *129094 |
|   | 3-1/2 x 60 R | 903560 | 029135 | *129135 |
|   | 4 x 24 R     | 904024 | 029047 | *129047 |
|   | 4 x 36 R     | 904036 | 029095 | *129095 |
|   | 4 x 60 R     | 904060 | 029096 | *129096 |
|   | 5 x 42 R     | 905042 | 029097 | *129097 |
|   | 5 x 60 R     | 905060 | 029037 | *129037 |
|   | 6 x 60 R     | 906060 | 029098 | *129098 |

\*Product Codes are for the Prairie Provinces only.

### 45° Long Sweep Bend

|  |              |        |        |         |
|--|--------------|--------|--------|---------|
|  | 2 x 24 R     | 452024 | 029111 | *129111 |
|  | 2 x 36 R     | 452036 | 029112 | *129112 |
|  | 3 x 24 R     | 453024 | 029082 | *129082 |
|  | 3 x 36 R     | 453036 | 029113 | *129113 |
|  | 3-1/2 x 36 R | 453536 | 029114 | *129114 |
|  | 4 x 24 R     | 454024 | 029128 | *129128 |
|  | 4 x 36 R     | 454036 | 029115 | *129115 |
|  | 4 x 60 R     | 454060 | 029116 | *129116 |
|  | 5 x 42 R     | 455042 | 029117 | *129117 |
|  | 6 x 60 R     | 456060 | 029118 | *129118 |

\*Product Codes are for the Prairie Provinces only.

### 22 1/2° Long Sweep Bend

|   |          |        |        |         |
|---|----------|--------|--------|---------|
|  | 3 x 36 R | 223036 | 029085 | *129085 |
|   | 4 x 36 R | 224036 | 029204 | *129204 |
|   | 5 x 42 R | 225042 | 029249 | *129249 |

\*Product Codes are for the Prairie Provinces only.

Note: Special radius bends are available upon request.

## DIMENSIONS - FITTINGS

### Universal Pipe Plug



| Size inches | Part Number | Product Code |
|-------------|-------------|--------------|
| 2 & 2-1/2   | UPP35       | 029386       |
| 3 & 3-1/2   | UPP45       | 029387       |
| 4           | UPP55       | 029388       |
| 5           | UPP60       | 029389       |
| 6           | UPP65       | 029390       |

### Female Adapter



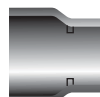
|       |        |        |
|-------|--------|--------|
| 2     | FEMA20 | 029141 |
| 3     | FEMA30 | 029142 |
| 3-1/2 | FEMA35 | 029143 |
| 4     | FEMA40 | 029144 |
| 5     | FEMA50 | 029145 |
| 6     | FEMA60 | 029146 |

### Reducing Adapter Coupling – Duct to PVC Conduit



| Size inches | Part Number | Product Code |
|-------------|-------------|--------------|
| 3 x 2       | ARIG3020    | 029191       |
| 4 x 2       | ARIG4020    | 029192       |
| 4 x 3       | ARIG4030    | 029187       |

### PVC Adapter Coupling – Asbestos Cement or Bituminous Fibre



|       |        |        |
|-------|--------|--------|
| 3-1/2 | ACFB35 | 029163 |
| 4     | ACFB40 | 029164 |

### Conduit to Duct Adapter



|          |         |        |
|----------|---------|--------|
| 2        | ARIG20  | 029181 |
| 2 (long) | ARIG20L | 029188 |
| 3        | ARIG30  | 029182 |
| 3-1/2    | ARIG35  | 029183 |
| 4        | ARIG40  | 029184 |
| 5        | ARIG50  | 029185 |
| 6        | ARIG60  | 029186 |

Note: Duct to RTRC Conduit Adapters are available on request.



**Scepter**  
Rigid PVC Conduit & Fittings

- High tensile & impact strength
- Concrete-tight
- FT-4 rated



**EPR**

- Fast and easy installation
- Restores structural integrity
- Repair made while leaving cables inside



**Sceptalight**  
Nonmetallic Light Fixtures

- Wet or hazardous locations
- Water-tight seal protects from moisture & corrosion
- Impact resistant – ideal for indoor & outdoor use



## Make the right choice!

Why is genuine Scepter the premier choice of electrical contractors?

- Performance
- Quality Products
- Committed Sales Special
- Innovation

Depend on IPEX for quality products and superior service.



# UNDERGROUND DUCT SPACERS

2" - 6" (50mm - 150mm)

IPEX offers a wide range of conduit and duct spacers for concrete encased duct bank assemblies. Our spacers offer consistent operation, stability and relieve direct stress for duct materials.

## INTERLOCKING SPACERS

IPEX's interlocking spacers provide uniform separation between the rows and columns of conduits and when assembled with conduit create a stable structure for the concrete. Spacers connect quickly and easily by sliding together horizontally and snapping together vertically and provide true customization for any configuration of duct bank. Superior features like the molded rebar slots for efficient drop-in installation of full length rebar and integral holes in base spacers for securing in place save time and effort.

Spacers are available in sizes to independently support 2", 3", 4", 5" and 6" conduit and each size is offered a range of separation from 1" to 3".

## MONOBLOC™ SPACERS

Monobloc spacers accommodate the specific dimensions of DB and EB duct and can be used as both a base spacer and an intermediate spacer for versatility. Monobloc spacers support DB/EB duct in sizes 2" – 5" and are available in a range of configurations that provide 1" to 3" separation between ducts. To minimize jobsite assembly these spacers are available as single, double, triple or quad run units (way). Any number of parallel conduit runs can be accommodated by combining Monobloc spacers (i.e. a 2-way and a 3-way create a 5-way).

Monobloc spacers are resilient at all temperatures, lightweight and easy to use. Readily available in 29 configurations, many with a molded-in rebar holder, these spacers are an economical choice for virtually any duct bank installation.

## APPLICATIONS

- Underground duct banks
- Medical campus
- University campus

## ADVANTAGES

- 1 Moulded Re-bar innovation**  
These provide better alignment and more uniform distribution of re-bar in a duct bank, making duct bank installation even faster and easier.
- 2 Innovative design**  
Twenty-six of the 29 different Monobloc spacers can be used interchangeably as either a base or intermediate unit.
- 3 Maximum flexibility**  
Different sized Monobloc spacers can be easily grouped to create the required width of duct bank.
- 4 Tough and resilient**  
Made of resilient, high-density polyethylene, our spacers easily withstand inclement weather and severe conditions normally found on a construction site.
- 5 Integral holes** offer base spacer fastening and stabilization.



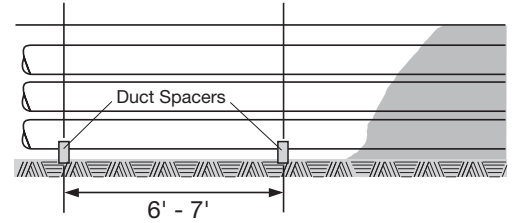
## DID YOU KNOW?

You can lower both material and labour costs with the 4x3x3x3 Monobloc base spacer. By reducing concrete requirements one inch in duct bank encasements, this base spacer can save four cubic yards of concrete in a 500-foot long, 30-inch wide duct bank.

## INTERLOCKING SPACERS

IPEX's interlocking spacers provide uniform separation between the rows and columns of conduits and when assembled with conduit create a stable structure for the concrete. Spacers connect quickly and easily by sliding together horizontally and snapping together vertically and provide true customization for any configuration of duct bank. Superior features like the molded rebar slots for efficient drop-in installation of full length rebar and integral holes in base spacers for securing in place save time and effort.

RECOMMENDED DISTANCE: 6' - 7'



| Dimension<br>inches | Part<br>Number | Product<br>Code | Standard<br>Pkg | A<br>inches | B<br>inches | C<br>inches |
|---------------------|----------------|-----------------|-----------------|-------------|-------------|-------------|
|---------------------|----------------|-----------------|-----------------|-------------|-------------|-------------|

### Intermediate Vertical-Lok Spacers

|             |        |        |     |       |       |      |
|-------------|--------|--------|-----|-------|-------|------|
| 2 x 1-1/2   | IS3530 | 029550 | 200 | 1.500 | 3.937 | 0.62 |
| 2 x 2       | IS3535 | 029551 | 200 | 2.000 | 4.488 | 0.62 |
| 2 x 3       | IS3545 | 029552 | 150 | 3.000 | 5.433 | 0.62 |
| * 3 x 1-1/2 | IS4530 | 029553 | 250 | 1.500 | 5.130 | no   |
| 3 x 2       | IS4535 | 029554 | 100 | 2.000 | 5.630 | 0.87 |
| 3 x 3       | IS4545 | 029555 | 160 | 3.000 | 6.614 | 0.87 |
| * 4 x 1     | IS5520 | 029556 | 250 | 1.000 | 5.630 | no   |
| 4 x 1-1/2   | IS5530 | 029557 | 180 | 1.500 | 6.614 | 0.87 |
| 4 x 2       | IS5535 | 029558 | 100 | 2.000 | 6.614 | 0.87 |
| 4 x 3       | IS5545 | 029559 | 60  | 3.000 | 7.638 | 0.87 |
| * 5 x 1-1/2 | IS6030 | 029560 | 140 | 1.500 | 7.325 | no   |
| 5 x 2       | IS6035 | 029561 | 60  | 2.188 | 7.874 | 0.87 |
| 5 x 3       | IS6045 | 029562 | 60  | 3.188 | 8.701 | 0.87 |
| 6 x 1-1/2   | IS6530 | 029563 | 100 | 1.500 | 7.441 | 0.87 |
| 6 x 2       | IS6535 | 029564 | 100 | 2.000 | 7.677 | 0.87 |
| 6 x 3       | IS6545 | 029565 | 40  | 3.000 | 9.764 | 0.87 |
| * 8 x 2     | IS8035 | 029294 | 60  | -     | -     | no   |

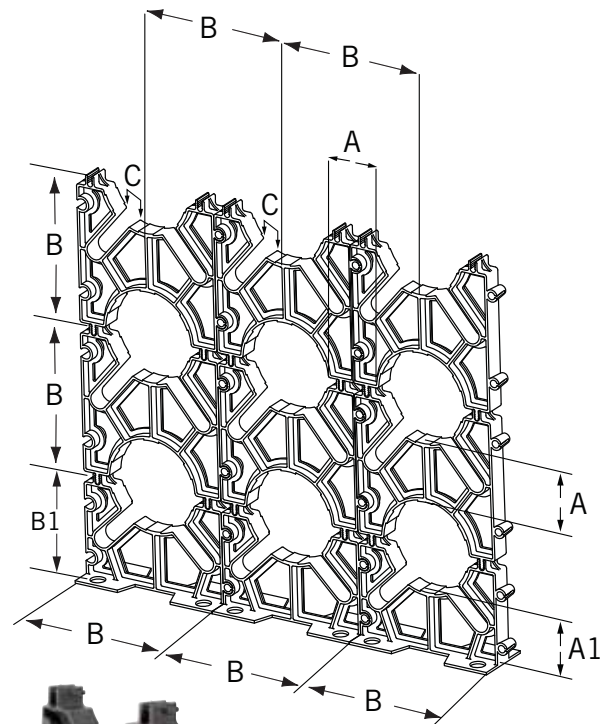
\* Do not have rebar slots or base holes

| Dimension<br>inches | Part<br>Number | Product<br>Code | Standard<br>Pkg | A1<br>inches | B1<br>inches | C<br>inches |
|---------------------|----------------|-----------------|-----------------|--------------|--------------|-------------|
|---------------------|----------------|-----------------|-----------------|--------------|--------------|-------------|

### Base Vertical-Lok Spacers

|             |        |        |     |       |       |      |
|-------------|--------|--------|-----|-------|-------|------|
| 2 x 1-1/2   | BS3530 | 029566 | 150 | 2.992 | 3.937 | 0.62 |
| 2 x 2       | BS3535 | 029567 | 150 | 2.992 | 4.488 | 0.62 |
| 2 x 3       | BS3545 | 029568 | 100 | 2.992 | 5.433 | 0.62 |
| * 3 x 1-1/2 | BS4530 | 029569 | 250 | 3.000 | 4.615 | no   |
| 3 x 2       | BS4535 | 029570 | 100 | 2.992 | 5.630 | 0.87 |
| 3 x 3       | BS4545 | 029571 | 190 | 2.992 | 6.614 | 0.87 |
| * 4 x 1     | BS5520 | 029572 | 250 | 1.750 | 4.060 | no   |
| 4 x 1-1/2   | BS5530 | 029573 | 180 | 2.992 | 6.614 | 0.87 |
| 4 x 2       | BS5535 | 029574 | 80  | 2.992 | 6.614 | 0.87 |
| 4 x 3       | BS5545 | 029575 | 60  | 2.992 | 7.638 | 0.87 |
| * 5 x 1-1/2 | BS6030 | 029576 | 140 | 3.000 | 6.900 | no   |
| 5 x 2       | BS6035 | 029577 | 60  | 2.992 | 7.874 | 0.87 |
| 5 x 3       | BS6045 | 029578 | 50  | 2.992 | 8.701 | 0.87 |
| 6 x 1-1/2   | BS6530 | 029579 | 100 | 3.031 | 7.441 | 0.87 |
| 6 x 2       | BS6535 | 029580 | 100 | 3.031 | 7.677 | 0.87 |
| 6 x 3       | BS6545 | 029581 | 40  | 2.992 | 9.764 | 0.87 |
| * 8 x 2     | BS8035 | 029293 | 50  | -     | -     | no   |

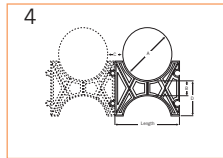
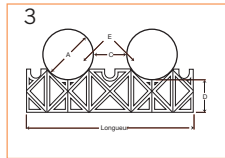
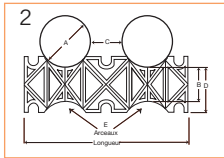
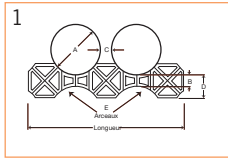
\* Do not have rebar slots or base holes



## MONOBLOC DUCT SPACERS

### TECHNICAL INFORMATION

| Normal Pipe Size<br>Inches<br>A | Vertical Spacing<br>Inches<br>B | Horizontal Spacing<br>Inches<br>C | Ground Clearance<br>Inches<br>D | Number<br>of Ways<br>E |
|---------------------------------|---------------------------------|-----------------------------------|---------------------------------|------------------------|
| 2                               | 1-1/2                           | 1-1/2                             | 3                               | 2                      |
| 3                               | 1-1/2                           | 1-1/2                             | 3                               | 2                      |
| 3-1/2                           | 1                               | 1                                 | 2                               | 2-3-4                  |
| 4                               | 1                               | 1                                 | 2                               | 1-2-3-4                |
| 4                               | 1-1/2                           | 1-1/2                             | 3                               | 2-3-4                  |
| 4                               | 2                               | 2                                 | 3                               | 1-2-3-4                |
| 4                               | 3                               | 3                                 | 3                               | 2-3-4                  |
| 4                               | 3                               | 3                                 | 4                               | 2-3-4                  |
| 4-1/2                           | 2                               | 2                                 | 3                               | 1-2-3                  |
| 5                               | 1-1/2                           | 2-1/8                             | 3-5/8                           | 1                      |
| 5                               | 1-1/2                           | 1-1/2                             | 3                               | 2-3-4                  |



| Description                 |       | Product Code | Dimensional Drawing | Length inches | Quantity Per Bundle | Quantity Per Pallet |
|-----------------------------|-------|--------------|---------------------|---------------|---------------------|---------------------|
| 2 x 1-1/2 x 1-1/2 x 3       | 2 way | 029473       | 2                   | 7.9           | 25                  | 1200                |
| 3 x 1-1/2 x 1-1/2 x 3       | 2 way | 029474       | 2                   | 10.3          | 25                  | 900                 |
| 3-1/2 x 1 x 1 x 2           | 2 way | 029860       | 2                   | 12.4          | 25                  | 1100                |
| 3-1/2 x 1 x 1 x 2           | 3 way | 029861       | 2                   | 17.3          | 25                  | 800                 |
| 3-1/2 x 1 x 1 x 2           | 4 way | 029479       | 2                   | 20.9          | 25                  | 600                 |
| 4 x 1 x 1 x 2               | 1 way | 029475       | 2                   | 8.3           | 25                  | 1600                |
| 4 x 1 x 1 x 2               | 2 way | 029476       | 2                   | 13.5          | 25                  | 1000                |
| 4 x 1 x 1 x 2               | 3 way | 029477       | 2                   | 18.8          | 25                  | 800                 |
| 4 x 1 x 1 x 2               | 4 way | 029478       | 2                   | 24.2          | 25                  | 600                 |
| 4 x 1-1/2 x 1-1/2 x 3       | 2 way | 029470       | 1                   | 14.2          | 25                  | 600                 |
| 4 x 1-1/2 x 1-1/2 x 3       | 3 way | 029471       | 1                   | 20.0          | 25                  | 500                 |
| 4 x 1-1/2 x 1-1/2 x 3       | 4 way | 029472       | 1                   | 26.0          | 25                  | 400                 |
| 4 x 2 x 2 x 3               | 1 way | 029480       | 2                   | 8.3           | 25                  | 900                 |
| 4 x 2 x 2 x 3               | 2 way | 029464       | 1                   | 14.5          | 25                  | 600                 |
| 4 x 2 x 2 x 3               | 3 way | 029465       | 1                   | 20.7          | 25                  | 400                 |
| 4 x 2 x 2 x 3               | 4 way | 029499       | 1                   | 27.0          | 25                  | 400                 |
| 4 x 3 x 3 x 3 (Base)        | 2 way | 029466       | 3                   | 15.0          | 25                  | 600                 |
| 4 x 3 x 3 x 3 (Base)        | 3 way | 029488       | 3                   | 22.5          | 25                  | 400                 |
| 4 x 3 x 3 x 3 (Base)        | 4 way | 029489       | 3                   | 30.0          | 25                  | 300                 |
| 4 x 3 x 3 x 4               | 2 way | 029469       | 1                   | 15.0          | 25                  | 500                 |
| 4 x 3 x 3 x 4               | 3 way | 029497       | 1                   | 22.5          | 25                  | 400                 |
| 4 x 3 x 3 x 4               | 4 way | 029498       | 1                   | 30.1          | 25                  | 200                 |
| 4-1/2 x 2 x 2 x 3           | 1 way | 029485       | 2                   | 8.7           | 25                  | 800                 |
| 4-1/2 x 2 x 2 x 3           | 2 way | 029486       | 2                   | 15.5          | 25                  | 500                 |
| 4-1/2 x 2 x 2 x 3           | 3 way | 029487       | 2                   | 22.2          | 25                  | 400                 |
| * 5 x 1-1/2 x 2-1/8 x 3-5/8 | 1 way | 029455       | 4                   | 7.0           | 50 (CTN)            | 500                 |
| 5 x 1-1/2 x 1-1/2 x 3       | 2 way | 029494       | 2                   | 16.2          | 25                  | 500                 |
| 5 x 1-1/2 x 1-1/2 x 3       | 3 way | 029495       | 2                   | 23.1          | 25                  | 400                 |
| 5 x 1-1/2 x 1-1/2 x 3       | 4 way | 029496       | 2                   | 30.0          | 25                  | 300                 |

\* Horizontal Locked Spacer

Items marked in bold indicate a change/addition from the previous price list.



In the past, there have been few choices for electrical box solutions for ICF construction, but INEXO's electrical box designed specifically for ICF provides the easy installation and finished look that installers and building owners appreciate.

INEXO's patented design allows the boxes to be easily installed anywhere on an ICF wall following concrete pour. With no special training or tools required, the INEXO electrical box is easily inserted into the ICF wall and the box's "teeth" are pushed into place with an audible click to ensure the box is secure.

Available in single, double and triple gang designs for both residential and commercial applications, the INEXO electrical box offers plenty of capacity for the latest applications.

# Specialty Products



INEXO ICF Boxes

74

Guy Guards

78



# INEXO ICF BOXES

1/2", 3/4", 1" (12mm, 19mm, 25mm)

## INEXO™

Until now there have been few choices when attempting to provide a truly professional electrical box solution for Insulated Concrete Form homes. Traditional electrical boxes are tedious to install and often require a fair amount of ingenuity and additional labour to provide a less than ideal finished product. Other boxes offered to ICF builders require installation before the concrete pour, throwing off your project time-line.

INEXO's patented<sup>1</sup> design provides a truly professional solution that works with your production schedule and provides the quality installation and finished look that builders require and owners appreciate. INEXO boxes link seamlessly with existing ICF materials, tools and methods. A complete offering designed for ICF walls allow builders to standardize on the use of electrical boxes throughout the building.

<sup>1</sup> Patent No. 6,932,628 & Patent Pending

### APPLICATIONS

- Insulated Concrete Form Buildings
- Schools
- Churches
- Hotels

### STANDARDS



### ADVANTAGES

- 1 Installation after concrete pour allows you to follow traditional production schedules**
- 2 Positioning** – Boxes can be installed anywhere on the ICF wall allowing for more variety in box positioning as installers are no longer required to affix to the ICF ties or drill and secure to the concrete wall.
- 3 Availability** – Residential boxes are available in single, double and triple gang options.
- 4 Certification** – Boxes are fully CSA certified to UL standards for use in ICF and can resist pull forces exceeding 100 lbs – (twice the standard requirement).

### FAST AND EASY INSTALLATION

Installing INEXO boxes requires no special training making the transition to a new solution seamless.

#### STEP 1:

Select the position for your box. Using a hot-knife or cutting tool, cut the opening in the EPS foam.



#### STEP 2:

Insert the INEXO box into your opening and push the 'teeth' into place until you hear the 'click' – so you know your box is secure. If you are positioned next to a tie, you can utilize two of the 'teeth' on the non-tie side and use the flange holes on the opposite side to screw into the plastic tie.



#### STEP 3:

Pull through your NMD cable and continue.



Single gang box provides  
19 cubic inch capacity

INEXO provides a 1/2"  
drywall setback  
resulting in a  
professional finish.

With an insertion depth  
of 2-1/4" and a smooth  
back, the INEXO box is  
designed specifically for  
ICF.



RESIDENTIAL BOX  
DESIGNED FOR NMD  
CABLE (14 / 2 – 10 / 3).

Greater installation versatility  
with 3 screw hole choices and  
flanges on both sides.

Laser level guides for the most  
precise box placement

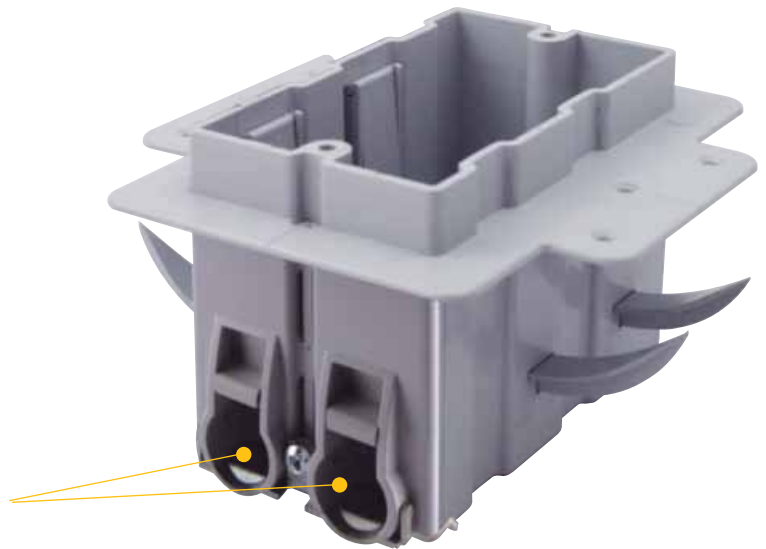
'TEETH' can be easily removed  
and replaced and provide an  
audible 'click' when fully engaged  
and secured to the EPS foam.

'TEETH' lock in  
place for a rigid  
hold that won't  
loosen.



Full flange prevents box from  
twisting and sinking into foam if  
over-tightened. This innovation  
allows installers to provide a  
professional straight finish with no  
lop-sided boxes.

COMMERCIAL BOX DESIGNED  
FOR ARMoured CABLE (AC)  
OR NMD CABLE.



INEXO BOXES

| Description | Part Number | Product Code |
|-------------|-------------|--------------|
|-------------|-------------|--------------|

Residential (NMD Cable 14/2 – 10/3)



|             |           |        |
|-------------|-----------|--------|
| Single Gang | ICF-1-RLX | 220003 |
| Double Gang | ICF-2-RLX | 220004 |
| Triple Gang | ICF-3-RLX | 220005 |

Commercial (AC or NMD Cable)



|             |          |        |
|-------------|----------|--------|
| Single Gang | ICF-1-CU | 220006 |
| Double Gang | ICF-2-CU | 220007 |
| Triple Gang | ICF-3-CU | 220008 |

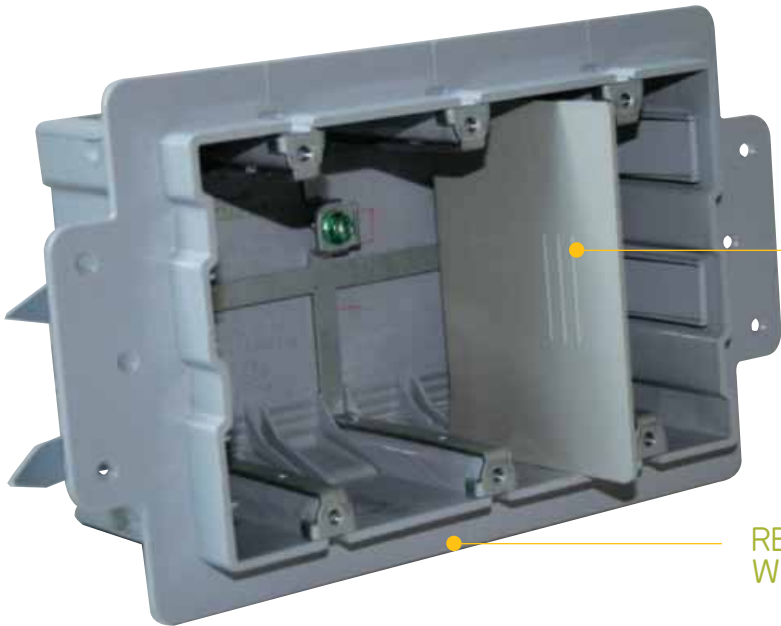


| Description | Part Number | Product Code |
|-------------|-------------|--------------|
|-------------|-------------|--------------|

Low Voltage Divider



|                          |         |        |
|--------------------------|---------|--------|
| Divider                  | LVD-RLX | 220100 |
| For residential box only |         |        |



The new INEXO ICF box divider provides contractors with a quick and convenient way to separate different voltage sources in the same box.

RESIDENTIAL BOX WITH LOW VOLTAGE DIVIDER

# INEXO®

THE ICF BOX

Insertion depth  
of 2-1/4"

'TEETH' can be  
easily removed  
and replaced.

'TEETH' lock in  
place providing  
a rigid hold in  
the EPS foam.

Greater installation  
versatility with 3 screw  
hole choices and  
flanges on both sides.

Full flange  
prevents box  
from twisting  
and sinking into  
foam if over-  
tightened

INEXO provides a  
1/2" drywall  
setback resulting  
in a professional  
finish

Single gang box  
provides 19 cubic  
inch capacity



Scan to view our  
product demo video  
or visit our website

## THE INNOVATIVE ELECTRICAL BOX FOR INSULATED CONCRETE FORM CONSTRUCTION



For complete product information,  
visit [www.ipexna.com/inexo](http://www.ipexna.com/inexo)



# GUY GUARDS

6-1/2' - 7' (2m - 2.13m)

AVAILABLE IN SELECT AREAS ONLY.

IPEX Guy Guards are safety warning devices which signal the presence of guy wires attached to telephone and power distribution poles. These brightly coloured, guards slide over the metal rods or cables reducing the risk of injury.

## APPLICATIONS

- Support and stabilize poles and antennas.

## ADVANTAGES

- 1 Highly Visible Colour**  
Guy Guards are available in standard bright yellow or bright green to easily alert passers-by to the presence of guy wire. Other colours and/or coloured stripes are also available.
- 2 Flexible Structure**  
Made of polyethylene polymer, these devices are highly resistant to impact, even in cold weather.
- 3 Long Life**  
IPEX Guy Guards resist corrosion and oxidation. Their mechanical features are therefore unaffected by exposure to ultraviolet rays and severe weather conditions.
- 4 Easy Installation**  
The Guy Guard is fastened to the guy wire with a noncorroding, zinc alloy clamp. This clamp is equipped with a double-jaw gripper system which locks the guard in place and enables it to be easily removed and replaced for maintenance purposes.

## SHORT FORM SPECIFICATIONS

Guy Guards shall be manufactured from medium density polyethylene. The name of the manufacturer and date produced shall be hot stamped on the face of the guard for permanent identification. Each guy guard shall be equipped with a two-piece noncorroding, zinc alloy clamp.

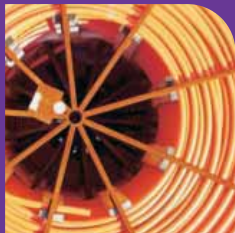
## STANDARD DIMENSIONS

| Description  | Product Code | Length |      | Inside Diameter (Average) |       | Overlap |    | Wall Thickness (Average) |     | Std Pkg (Bundle) | Crate Quantity | Approximate Weight |      |
|--------------|--------------|--------|------|---------------------------|-------|---------|----|--------------------------|-----|------------------|----------------|--------------------|------|
|              |              | ft     | m    | in                        | mm    | in      | mm | in                       | mm  |                  |                | lbs/ft             | kg/m |
| Small Yellow | 25504        | 6.5    | 2.00 | 1.75                      | 44.45 | 2.36    | 60 | 0.083                    | 2.1 | 10               | 140            | 0.43               | 0.64 |

Mechanically and chemically resistant to a host of environmental conditions, above and below ground, FiberTel™ high density polyethylene (HDPE) innerduct is ideal for both short and long runs, cross-country distances, in communications, data, cable television, power utility and general purpose ducting applications.

FiberTel's unique attributes - flexibility, durability, light weight, high tensile strength and resistance to UV radiation - make it suitable for a variety of installation methods including trenchless technology, directly plowed, placed in open trenches or pulled in casing conduits.

# Telecommunication Systems



FiberTel

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# FIBERTEL HDPE INNERDUCT

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



FiberTel High Density Polyethylene Innerduct combines the features of flexibility, durability, light weight and ease of installation.

FiberTel is resistant to decomposition, oxidation, and hostile elements that cause damage to other materials. FiberTel is mechanically and chemically resistant to a host of environmental conditions.

Used for communication, data, cable television and general purpose ducting, FiberTel is ideal for both short runs or cross country distances. Always check for proper use and application with the local authority having jurisdiction before installation.



## DID YOU KNOW?

Polyethylene is a thermoplastic which expands and contracts with temperature changes. If pipe is expected to contract after it is installed, it should be snaked in the trench, or if expansion is anticipated, it should be installed straight.

## ADVANTAGES

- 1 Durable**  
FiberTel is constructed of high density polyethylene offering a high tensile strength reducing elongation and stretching. This results in an increased lifespan and lower maintenance costs.
- 2 Weather Resistant**  
FiberTel features a unique formulation that protects it against the harmful effects of excessive ultraviolet rays. For above-ground installations, no special covering, coating or protection is required.
- 3 Color Coding**  
FiberTel is available in a multitude of colors. It can also be permanently marked with a single or triple stripe identification system. The colored stripe is actually part of the pipe wall and will always remain visible, permanently identifying the pipe.
- 4 Wall Surface**  
FiberTel walls are available with a smooth or longitudinally ribbed surface. The internal or external surfaces can be manufactured with longitudinal ribs upon request. Due to a high degree of smoothness inside the pipe, friction is reduced and cables are easy to pull.
- 5 Sequential Printing**  
FiberTel coils and reels come complete with sequential footage printing on the pipe indicating how much footage is left after installation. This is a very convenient feature for people in the field!
- 6 User Friendly**  
The flexibility of FiberTel allows for easy bending during installation. Breaking due to expansion and contraction is virtually eliminated. FiberTel can absorb sudden impact without suffering damage—even in extreme conditions.
- 7 Pull Strings and Mule Tapes**  
FiberTel is available with various types of pull strings or mule tapes upon request.
- 8 Quality Control**  
FiberTel is manufactured under strict quality control, ensuring that only top quality product leaves our manufacturing facilities. Our quality process extends from the raw material to the finished goods.

## PRODUCT SELECTION CHART

| Nominal Pipe Size |    | Avg OD (IPS) |    | Avg ID |    | Min Wall Thickness |    | Weight   |
|-------------------|----|--------------|----|--------|----|--------------------|----|----------|
| in                | mm | in           | mm | in     | mm | in                 | mm | lbs./ft. |

### Schedule 40

|       |     |       |        |       |        |       |      |       |
|-------|-----|-------|--------|-------|--------|-------|------|-------|
| 1/2   | 12  | 0.840 | 21.34  | 0.602 | 15.28  | 0.109 | 2.77 | 0.112 |
| 3/4   | 20  | 1.050 | 26.67  | 0.804 | 20.41  | 0.113 | 2.87 | 0.148 |
| 1     | 25  | 1.315 | 33.40  | 1.029 | 26.12  | 0.133 | 3.38 | 0.218 |
| 1-1/4 | 32  | 1.660 | 42.17  | 1.360 | 34.55  | 0.140 | 3.56 | 0.295 |
| 1-1/2 | 40  | 1.900 | 48.26  | 1.590 | 40.38  | 0.145 | 3.68 | 0.352 |
| 2     | 50  | 2.375 | 60.33  | 2.047 | 51.99  | 0.154 | 3.91 | 0.472 |
| 2-1/2 | 65  | 2.875 | 73.02  | 2.445 | 62.10  | 0.203 | 5.16 | 0.744 |
| 3     | 75  | 3.500 | 88.90  | 3.042 | 77.26  | 0.216 | 5.49 | 0.974 |
| 4     | 100 | 4.500 | 114.30 | 3.998 | 101.54 | 0.237 | 6.02 | 1.387 |
| 6     | 150 | 6.625 | 168.28 | 6.042 | 153.20 | 0.280 | 7.11 | 2.450 |

### SDR9

|       |     |       |        |       |        |       |       |       |
|-------|-----|-------|--------|-------|--------|-------|-------|-------|
| 3/4   | 20  | 1.050 | 26.67  | 0.802 | 20.39  | 0.117 | 2.96  | 0.150 |
| 1     | 25  | 1.315 | 33.40  | 1.005 | 25.54  | 0.146 | 3.71  | 0.240 |
| 1-1/4 | 32  | 1.660 | 42.17  | 1.268 | 32.23  | 0.184 | 4.69  | 0.380 |
| 1-1/2 | 40  | 1.900 | 48.26  | 1.452 | 36.90  | 0.211 | 5.36  | 0.490 |
| 2     | 50  | 2.375 | 60.33  | 1.815 | 46.13  | 0.264 | 6.70  | 0.760 |
| 3     | 75  | 3.500 | 88.90  | 2.676 | 67.96  | 0.389 | 9.88  | 1.650 |
| 4     | 100 | 4.500 | 114.30 | 3.440 | 87.38  | 0.500 | 12.70 | 2.730 |
| 6     | 150 | 6.625 | 168.28 | 5.065 | 128.64 | 0.736 | 18.70 | 5.920 |
| 8     | 200 | 8.625 | 219.08 | 6.709 | 170.41 | 0.958 | 24.33 | 9.950 |

### SDR13.5

|       |     |       |        |       |        |       |       |       |
|-------|-----|-------|--------|-------|--------|-------|-------|-------|
| 1/2   | 12  | 0.840 | 21.34  | 0.708 | 17.98  | 0.062 | 1.58  | 0.072 |
| 3/4   | 20  | 1.050 | 26.67  | 0.886 | 22.49  | 0.078 | 1.98  | 0.110 |
| 1     | 25  | 1.315 | 33.40  | 1.109 | 28.16  | 0.097 | 2.47  | 0.168 |
| 1-1/4 | 32  | 1.660 | 42.17  | 1.400 | 35.55  | 0.123 | 3.12  | 0.260 |
| 1-1/2 | 40  | 1.900 | 48.26  | 1.602 | 40.68  | 0.141 | 3.57  | 0.340 |
| 2     | 50  | 2.375 | 60.33  | 2.003 | 50.85  | 0.176 | 4.47  | 0.530 |
| 3     | 75  | 3.500 | 88.90  | 2.950 | 74.94  | 0.259 | 6.59  | 1.150 |
| 4     | 100 | 4.500 | 114.30 | 3.794 | 96.36  | 0.333 | 8.47  | 1.900 |
| 6     | 150 | 6.625 | 168.28 | 5.585 | 141.86 | 0.491 | 12.47 | 4.120 |
| 8     | 200 | 8.625 | 219.08 | 7.271 | 184.68 | 0.639 | 16.23 | 6.930 |

## CONTACT YOUR IPEX REPRESENTATIVE FOR PRICING

### TECHNICAL INFORMATION

#### INSTALLATION

FiberTel pipe should be cut square using a hand or power saw. All burrs and cuttings must be removed to ensure a good reliable joint.

Joining FiberTel requires no sophisticated tools or special equipment. FiberTel can be heat-fused using standard equipment or joined with compression fittings.

FiberTel can be installed in an open trench, direct plowed, or installed using various trenchless technology methods.

| Nominal Pipe Size |    | Avg OD (IPS) |    | Avg ID |    | Min Wall Thickness |    | Weight   |
|-------------------|----|--------------|----|--------|----|--------------------|----|----------|
| in                | mm | in           | mm | in     | mm | in                 | mm | lbs./ft. |

### Schedule 80

|       |     |       |        |       |        |       |       |       |
|-------|-----|-------|--------|-------|--------|-------|-------|-------|
| 1/2   | 12  | 0.840 | 21.34  | 0.526 | 13.40  | 0.146 | 3.71  | 0.137 |
| 3/4   | 20  | 1.050 | 26.67  | 0.722 | 18.33  | 0.154 | 3.91  | 0.187 |
| 1     | 25  | 1.315 | 33.40  | 0.936 | 23.76  | 0.179 | 4.55  | 0.276 |
| 1-1/4 | 32  | 1.660 | 42.17  | 1.255 | 31.87  | 0.191 | 4.85  | 0.379 |
| 1-1/2 | 40  | 1.900 | 48.26  | 1.476 | 37.48  | 0.200 | 5.08  | 0.461 |
| 2     | 50  | 2.375 | 60.33  | 1.913 | 48.59  | 0.218 | 5.54  | 0.637 |
| 3     | 75  | 3.500 | 88.90  | 2.864 | 72.74  | 0.300 | 7.62  | 1.300 |
| 4     | 100 | 4.500 | 114.30 | 3.786 | 96.16  | 0.337 | 8.56  | 1.905 |
| 6     | 150 | 6.625 | 168.28 | 5.720 | 145.00 | 0.432 | 10.97 | 3.640 |

### SDR11

|       |     |       |        |       |        |       |       |       |
|-------|-----|-------|--------|-------|--------|-------|-------|-------|
| 1/2   | 12  | 0.840 | 21.34  | 0.678 | 17.22  | 0.076 | 1.94  | 0.084 |
| 3/4   | 20  | 1.050 | 26.67  | 0.848 | 21.53  | 0.095 | 2.42  | 0.130 |
| 1     | 25  | 1.315 | 33.40  | 1.061 | 26.96  | 0.120 | 3.04  | 0.200 |
| 1-1/4 | 32  | 1.660 | 42.17  | 1.340 | 34.05  | 0.151 | 3.83  | 0.320 |
| 1-1/2 | 40  | 1.900 | 48.26  | 1.534 | 38.96  | 0.173 | 4.39  | 0.410 |
| 2     | 50  | 2.375 | 60.33  | 1.917 | 48.71  | 0.216 | 5.48  | 0.640 |
| 3     | 75  | 3.500 | 88.90  | 2.826 | 71.76  | 0.318 | 8.08  | 1.380 |
| 4     | 100 | 4.500 | 114.30 | 3.632 | 92.28  | 0.409 | 10.39 | 2.290 |
| 6     | 150 | 6.625 | 168.28 | 5.349 | 135.84 | 0.602 | 15.30 | 4.960 |
| 8     | 200 | 8.625 | 219.08 | 6.963 | 176.86 | 0.784 | 19.91 | 8.340 |

### SDR15.5

|       |     |       |        |       |        |       |       |      |
|-------|-----|-------|--------|-------|--------|-------|-------|------|
| 1-1/4 | 32  | 1.660 | 42.17  | 1.432 | 36.41  | 0.107 | 2.72  | 0.23 |
| 1-1/2 | 40  | 1.900 | 48.26  | 1.640 | 41.66  | 0.123 | 3.11  | 0.30 |
| 2     | 50  | 2.375 | 60.33  | 2.051 | 52.07  | 0.153 | 3.89  | 0.47 |
| 3     | 75  | 3.500 | 88.90  | 3.021 | 76.73  | 0.226 | 5.74  | 1.01 |
| 4     | 100 | 4.500 | 114.30 | 3.885 | 98.68  | 0.290 | 7.37  | 1.67 |
| 6     | 150 | 6.625 | 168.28 | 5.720 | 145.29 | 0.427 | 10.85 | 3.63 |
| 8     | 200 | 8.625 | 219.08 | 7.446 | 189.13 | 0.556 | 14.12 | 6.15 |

### SDR17

|       |    |       |       |       |       |       |      |       |
|-------|----|-------|-------|-------|-------|-------|------|-------|
| 1-1/4 | 32 | 1.660 | 42.17 | 1.452 | 36.91 | 0.098 | 2.48 | 0.327 |
|-------|----|-------|-------|-------|-------|-------|------|-------|

Other SDR ratings are available upon request.

SDR = outside diameter/wall thickness









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