KRALOY®
The Fitting Choice



# POCKET PRO

ELECTRICAL SYSTEMS

Rigid PVC Fittings

Next Generation JBox

Interlocking Spacers

Conduit Repair

Nonmetallic Tubing & Fittings

PVC Raceway for HDD

Nonmetallic LED Light Fixtures

NMLT Conduit & Fittings

Specialty Products

| Type Designation | UL Underwriters Laboratories Inc. (UL 50 and UL 50E) |
|---|---|
| 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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NOTES



For more than 40 years, Kraloy has been a pioneer in the field of PVC conduit fittings. As the first UL approved manufacturer of PVC fittings, Kraloy's rich history allows us to be an industry leader today.

At Kraloy we are committed to providing the highest quality products, technical support, and outstanding service. Kraloy continually offers the most up-to-date products meeting the ever changing needs of our customers.

This pocket pro has been prepared to provide electrical wholesalers, contractors, engineers, specifiers and utilities with the most current technical journal on Kraloy electrical systems.

Only when you specify Kraloy by name are you guaranteed "The Fitting Choice".

## Applications

Typical industrial, commercial and residential applications for Kraloy electrical systems include:

- Residential single & multi family dwellings
- Food processing plants
- Fish processing plants
- Agricultural
- Bridges and tunnels
- Airports
- Car washes
- Marinas
- Sewage treatment plants
- Water treatment plants
- Pulp and paper
- Street and highway lighting
- Utilities
- Communications
- Cable











## Advantages



### Labor Savings

Compared to yesterday's metal products, PVC reduces labor on typical installations by as much as two-thirds, because it is easy to work with. PVC does not require the labor intensive tools usually associated with steel products, such as vises, threading equipment and reamers.

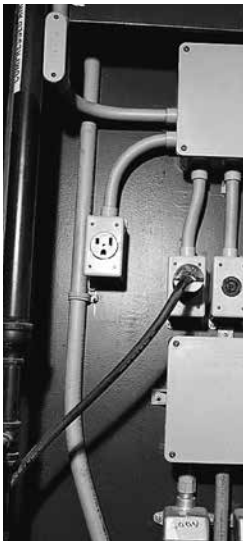


### Easy Joining

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

### Strength

Kraloy PVC fittings offer both high impact and high tensile strength.



### Corrosion Resistant

PVC is resistant to external corrosion and pitting and will not rust. This ensures a lower maintenance cost and a longer performance life.

### Nonconductive

PVC eliminates the most dangerous second point of contact in phase to ground faults. The use of a separate grounding conductor gives a complete and positive ground for the entire system.

### Chemical Resistant

One of the greatest benefits of PVC is its excellent chemical resistance. Kraloy PVC fittings are resistant to a wide range of chemicals such as acids, alkalis or salt solutions. For more information on chemical resistance, contact Kraloy customer service.

### Aging Characteristics

After years of exposure to direct sunlight, heat, and extreme weather, Kraloy PVC fittings retain their original properties. They are also resistant to fungi, bacterial action, rodents and termites, providing for a long and trouble free life.

### Fire Resistance

As a building material PVC offers outstanding fire performance characteristics. PVC will not burn unless an external flame source is applied, and will not sustain ignition once the flame source is removed. PVC has a flash ignition temperature of 850°F.

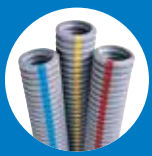
KRALOY®
The Fitting Choice

Depend on Kraloy® for
quality products & superior service

KRALOY® JBOX w/ Hinged Cover

- Available in 8" to 16" sizes
- Hand-close fastener tabs
- 100% nonmetallic









Kwikon® ENT and Fittings

- Available in 1 2" to 2" sizes
- Easy installation for time and labour savings
- Complete concrete-tight system



## Kraloy PVC Conduit Fittings

This section provides comprehensive information and guidelines for the design and installation of PVC Schedule 40 and 80 conduit and fittings. Always consult the authority having jurisdiction for specific installation procedures.

## Solvent Cementing





After cutting PVC rigid conduit, sharp edges or burrs from inside the conduit should be removed with a knife. Thoroughly clean the end of the pipe and inside the fitting with a pipe cleaner. In extreme weather conditions, a primer should be used to prepare the joint for solvent cementing. Apply a generous amount of solvent cement to both surfaces, slide together and give a quarter turn to ensure 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, but in low temperatures and high humidity, extra time may be required before moving the pipe to install it permanently. Solvent cemented joints appear to “set up” instantly, but will take 24 hours to cure properly. After this time, the solvent-cemented joint has completely cured and is waterproof. Kraloy cement is available in half-pint, pint, quarts and one-gallon containers.

## Handling

Solvent cements should be used as received in original containers. Adding thinners to change viscosity is not recommended. If cement is jelly-like and not free-flowing, it should not be used. Containers should be kept tightly covered when not in use.

## Storage Conditions

Solvent cements should be stored at temperatures between 40°F and 110°F away from heat or open flame. Cements should be used before the expiry date stamped on the container. If new cement is subjected to freezing temperatures, it may become extremely thick. This cement can be placed in a warm area where it will soon return to its original, usable condition. However, if the product is gelled or hardened due to actual solvent loss (when a container is left open too long during use or not sealed properly after use), the cement will not return to its original condition. Cement in this condition has lost its formulation and should be discarded in an environmentally friendly manner.

## Safety Precautions

Solvent cements are extremely flammable and should not be used or stored near heat or open flame. In confined or partially enclosed areas, a ventilating device should be used to remove vapors and minimize inhalation. Containers should be kept tightly closed when not in use, and covered as much as possible when in use. Avoid frequent contact with the skin. In case of eye contact, flush repeatedly with water. Keep out of the reach of children.

## Cold Weather

Although normal installation temperatures are between 40°F to 110°F, high strength joints have been made at temperatures as low as -15°F. However, the installer must ensure he has adequately softened the joining surfaces with a primer. In addition, cement must be kept warm to prevent excessive thickening and gelation in cold weather.

Initial Set Schedule for PVC Solvent Cements*

| Temp. Range | Pipe Size 1/2" to 1-1/4" | Pipe Size 1-1/2" to 2" | Pipe Size 2-1/2" to 6" |
|---|---|---|---|
| 60° - 100°F | 2 min. | 3 min. | 30 min. |
| 40° - 60°F | 5 min. | 8 min. | 2 hrs. |
| 0° - 40°F | 10 min. | 15 min. | 12 hrs. |

NOTE: Initial set schedule is the necessary time to allow before the joint can be carefully handled.

*These figures are estimates based on our laboratory tests. Due to the many variables in the field, these figures should be used as a general guide only.

After initial set, the joints will withstand the stresses of a normal installation. (A misaligned installation will cause excessive stresses in the joint). For long runs of pipe, care should be taken not to disturb joints for 1/2 to 1-1/2 hours before handling or burying.

Average Number of Joints per Pint or Quart of Cement

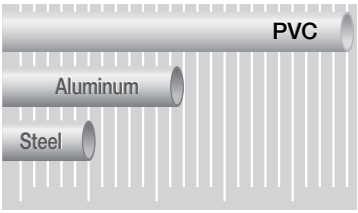
| Nominal Pipe Size (Inches) | # of Joints per Pint | # of Joints per Quart | Nominal Pipe Size (Inches) | # of Joints per Pint | # of Joints per Quart |
|---|---|---|---|---|---|
| 1/2 | 350 | 700 | 2-1/2 | 40 | 80 |
| 3/4 | 200 | 400 | 3 | 35 | 70 |
| 1 | 150 | 300 | 3-1/2 | 30 | 60 |
| 1-1/4 | 110 | 220 | 4 | 24 | 48 |
| 1-1/2 | 80 | 160 | 5 | 10 | 20 |
| 2 | 45 | 90 | 6 | 8 | 16 |

## Expansion and Contraction

All conduit pipe and fittings expand and contract with changes in temperature. All materials' expansion and contraction rates are represented by coefficients of thermal expansion.

A general rule of thumb is that for every 100°F temperature change in a 100 ft. run of PVC conduit, the conduit will undergo 3.6" of expansion or contraction.

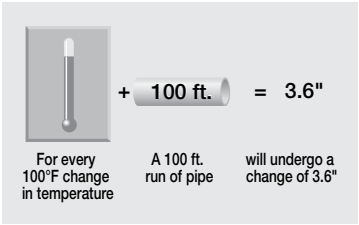
Expansion Comparison




## Use of Expansion Joints

In installations where the expected temperature variation exceeds 25°F expansion joints must be used. An expansion joint consists of two tubes, one telescoping inside another. When installing expansion joints alignment of the piston and barrel is important. Straps should be placed approximately one foot on either side of the joint to ensure that any movement is directed squarely into the joint.

Rule of Thumb
for PVC Expansion




When expansion joints are required the following steps should

be followed:

## 1. DETERMINE NUMBER OF JOINTS REQUIRED:

Use the following formula to calculate the total expected expansion in the run.

$$\text{Total expansion} = \frac{\text{Total temp. change °F}}{10} \times \frac{\text{Length of run ft.}}{100} \times .36$$

The expansion joints should then be installed at even intervals throughout the run.

$$\text{Number of joints} = \frac{\text{Total expansion}}{4}$$

Example:

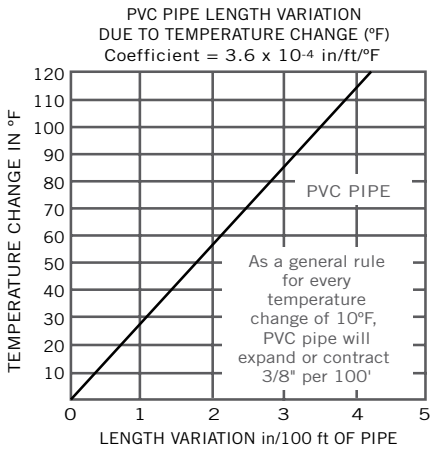
Assume a 200 ft. run of conduit is to be installed in an unheated building where the temperature will vary from 10°F in the winter to 110°F in the summer. The installation will be carried out when the temperature is 60°F.

Using step 1 we determine the number of joints required.

$$\text{Total Expansion} = \frac{100°F}{10} \times \frac{200 \text{ ft.}}{100} \times .36 = 7.2"$$

$$\text{Number of joints} = \frac{7.2}{4} = 1.8$$

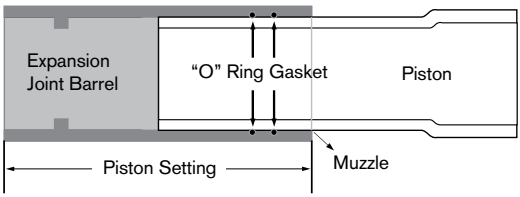
Note: Always round off to the next highest number. Therefore in this example we see that two expansion joints are necessary.



## 2. DETERMINE PISTON OPENING:

The expansion joint must be installed to allow both expansion and contraction of the conduit run. Because installation temperatures may vary, the piston setting must be determined. The correct piston opening is determined using the following formula:

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




| Size (in) | Compressed Length (in) | Travel (in) |
|---|---|---|
| 1/2 | 8.00 | 4 |
| 3/4 | 8.00 | 4 |
| 1 | 8.50 | 4 |
| 1-1/4 | 9.00 | 4 |
| 1-1/2 | 9.00 | 4 |
| 2 | 9.25 | 4 |
| 2-1/2 | 14.25 | 8 |
| 3 | 14.25 | 8 |
| 3-1/2 | 14.90 | 8 |
| 4 | 14.90 | 8 |
| 5 | 18.00 | 8 |
| 6 | 18.33 | 8 |

## Location of 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 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. 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 center of the run. 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 center 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 NEC article 347-8.

FIGURE 1

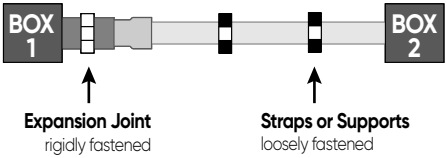



FIGURE 2

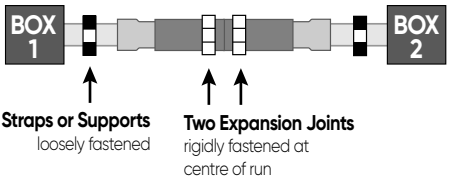



FIGURE 3

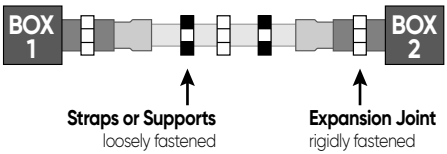
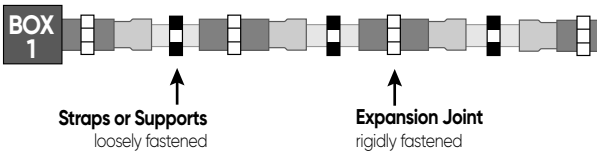



FIGURE 4



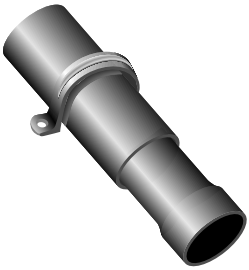

**Legend**

: Guide or Hanger

: Anchor

## Installation of Expansion Joints

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 working 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.
- Kraloy 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.

## Common Mistakes

Three common mistakes are:

1. Forgetting to use expansion joints.

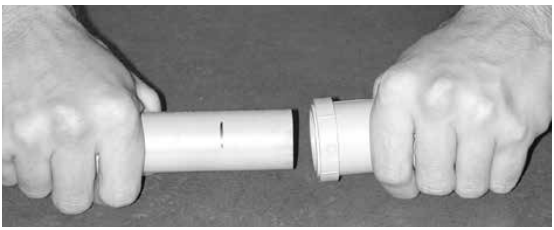
2. Not using enough expansion joints.

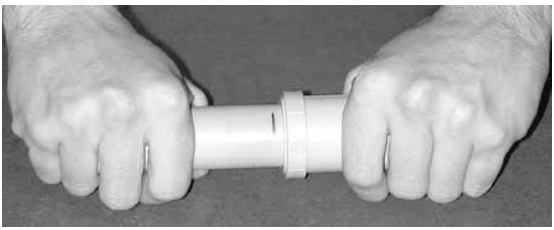
3. Overtightening of support straps.

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 accommodate expansion/contraction may result in pipe fracture.

## Installation of the One Piece Expansion Joint (OPEJ)

1. Solvent cement the PVC conduit into the conduit hub of the OPEJ and firmly secure the PVC conduit on the solvent cement side of the OPEJ using Kraloy pipe straps.
2. Set the expansion fitting by marking a line 11/2" from the end of the conduit to be inserted and insert the conduit into the OPEJ to this mark.
3. Secure and support the conduit raceway using Kraloy pipe straps.





## Applicable Standards

### Underwriters Laboratories

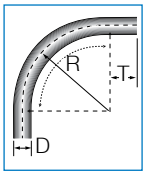
| | |
|---|---|
| UL50 | Enclosures for Electrical Equipment |
| UL514B | Fittings for Cable & Conduit |
| UL514C | Nonmetallic Outlet Boxes, Flush-Device Boxes & Covers |
| UL651 | Schedule 40 & 80 Rigid PVC Conduit |

### Canadian Standards Association

| | |
|---|---|
| CSA C22.2 No. 18 | Outlet Boxes, Fittings & Associated Hardware |
| CSA C22.2 No. 40 | Cutout, Junction & Pull Boxes |
| CSA C22.2 No. 42 | General Use Receptacles, Attachment Plugs & Similar Wiring Devices |
| CSA C22.2 No. 85 | Rigid PVC Boxes & Fittings |
| CSA C22.2 No. 94 | Special Purpose Enclosures |
| CSA C22.2 No. 211.0 | General Requirements & Methods of Testing Nonmetallic Conduit |
| CSA C22.2 No. 211.1 | Rigid Types EB1 & DB2/ES2 PVC Conduit |
| CSA C22.2 No. 211.2 | Rigid PVC (Unplasticized) Conduit |
| CSA C22.2 No. 227.1 | Electrical NonmetallicTubing |
| CSA C22.2 No. 227.2 | Flexible Liquid-Tight Nonmetallic Conduit |

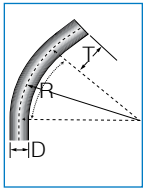
### National Electrical Manufacturers Association

| | |
|---|---|
| NEMA TC3 | PVC Fittings for use with Rigid PVC Conduit & Tubing |
| NEMA TC2 | Electrical Plastic Tubing (EPT) & Conduit (EPC-40 & EPC-80) |
| NEMA TC9 | Fittings for ABS & PVC Plastic Utilities Duct for Underground Installation |
| NEMA 250 | Enclosures for electrical Equipment (1000 Volts Maximum) |



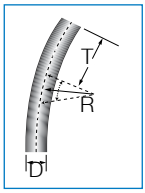

## Schedule 40
## Standard Radius 90° Elbows

| Size (in.) | Part Number | Product Code | A (in.) | B (in.) | C (in.) |
|---|---|---|---|---|---|
| 1/2 | 40STD0590 | 078540 | 0.840 | 1.500 | 4.000 |
| 3/4 | 40STD0790 | 078541 | 1.050 | 1.500 | 4.500 |
| 1 | 40STD1090 | 078542 | 1.315 | 1.875 | 5.750 |
| 1-1/4 | 40STD1290 | 078543 | 1.660 | 2.000 | 7.250 |
| 1-1/2 | 40STD1590 | 078544 | 1.900 | 2.000 | 8.250 |
| 2 | 40STD2090 | 078545 | 2.375 | 2.000 | 9.500 |
| 2-1/2 | 40STD2590 | 078546 | 2.875 | 3.000 | 10.500 |
| 3 | 40STD3090 | 078547 | 3.500 | 3.125 | 13.000 |
| 3-1/2 | 40STD3590 | 078548 | 4.000 | 3.250 | 15.000 |
| 4 | 40STD4090 | 078549 | 4.500 | 3.375 | 16.000 |
| 5 | 40STD5090 | 078550 | 5.563 | 3.625 | 24.000 |
| 6 | 40STD6090 | 078551 | 6.625 | 3.750 | 30.000 |



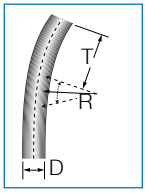

## Schedule 40
## Standard Radius 45° Elbows

| Size (in.) | Part Number | Product Code | A (in.) | B (in.) | C (in.) |
|---|---|---|---|---|---|
| 1/2 | 40STD0545 | 078552 | 0.840 | 1.500 | 4.000 |
| 3/4 | 40STD0745 | 078553 | 1.050 | 1.500 | 4.500 |
| 1 | 40STD1045 | 078554 | 1.315 | 1.875 | 5.750 |
| 1-1/4 | 40STD1245 | 078555 | 1.660 | 2.000 | 7.250 |
| 1-1/2 | 40STD1545 | 078556 | 1.900 | 2.000 | 8.250 |
| 2 | 40STD2045 | 078557 | 2.375 | 2.000 | 9.500 |
| 2-1/2 | 40STD2545 | 078558 | 2.875 | 3.000 | 10.500 |
| 3 | 40STD3045 | 078559 | 3.500 | 3.125 | 13.000 |
| 3-1/2 | 40STD3545 | 078560 | 4.000 | 3.250 | 15.000 |
| 4 | 40STD4045 | 078561 | 4.500 | 3.375 | 16.000 |
| 5 | 40STD5045 | 078562 | 5.563 | 3.625 | 24.000 |
| 6 | 40STD6045 | 078563 | 6.625 | 3.750 | 30.000 |



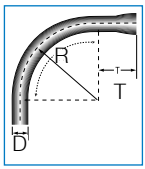

## Schedule 40
## Standard Radius 30° Elbows

| Size (in.) | Part Number | Product Code | A (in.) | B (in.) | C (in.) |
|---|---|---|---|---|---|
| 1/2 | 40STD0530 | 078564 | 0.840 | 1.500 | 4.000 |
| 3/4 | 40STD0730 | 078565 | 1.050 | 1.500 | 4.500 |
| 1 | 40STD1030 | 068622 | 1.315 | 1.875 | 5.750 |
| 1-1/4 | 40STD1230 | 078567 | 1.660 | 2.000 | 7.250 |
| 1-1/2 | 40STD1530 | 078568 | 1.900 | 2.000 | 8.250 |
| 2 | 40STD2030 | 078569 | 2.375 | 2.000 | 9.500 |
| 2-1/2 | 40STD2530 | 078570 | 2.750 | 3.000 | 10.500 |
| 3 | 40STD3030 | 078571 | 3.500 | 3.125 | 13.000 |
| 3-1/2 | 40STD3530 | 078572 | 4.000 | 3.250 | 15.000 |
| 4 | 40STD4030 | 078573 | 4.500 | 3.375 | 16.000 |
| 5 | 40STD5030 | 078574 | 5.563 | 3.625 | 24.000 |
| 6 | 40STD6030 | 078575 | 6.625 | 3.750 | 30.000 |



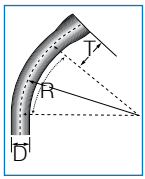

## Schedule 40
## Standard Radius 22-1/2° Elbows

| Size (in.) | Part Number | Product Code | A (in.) | B (in.) | C (in.) |
|---|---|---|---|---|---|
| 1-1/2 | 40STD1522 | 078580 | 1.900 | 2.000 | 8.25 |
| 2 | 40STD2022 | 078581 | 2.375 | 2.000 | 9.50 |
| 2-1/2 | 40STD2522 | 078582 | 2.875 | 3.000 | 10.50 |
| 3 | 40STD3022 | 078583 | 3.500 | 3.125 | 13.00 |
| 3-1/2 | 40STD3522 | 078584 | 4.000 | 3.250 | 15.00 |
| 4 | 40STD4022 | 078585 | 4.500 | 3.375 | 16.00 |
| 5 | 40STD5022 | 078586 | 5.563 | 3.625 | 24.00 |
| 6 | 40STD6022 | 078587 | 6.625 | 3.750 | 30.00 |



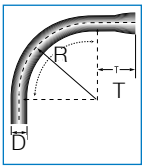

## Schedule 40 Standard Radius 90° Bell End Elbows

| Size (in.) | Part Number | Product Code | A (in.) | B (in.) | C (in.) |
|---|---|---|---|---|---|
| 1/2 | B40STD0590 | 078588 | 0.840 | 1.500 | 4.000 |
| 3/4 | B40STD0790 | 078589 | 1.050 | 1.500 | 4.500 |
| 1 | B40STD1090 | 078590 | 1.315 | 1.875 | 5.750 |
| 1-1/4 | B40STD1290 | 078591 | 1.660 | 2.000 | 7.250 |
| 1-1/2 | B40STD1590 | 078592 | 1.900 | 2.000 | 8.250 |
| 2 | B40STD2090 | 078593 | 2.375 | 2.000 | 9.500 |
| 2-1/2 | B40STD2590 | 078594 | 2.875 | 3.000 | 10.500 |
| 3 | B40STD3090 | 078595 | 3.500 | 3.125 | 13.000 |
| 3-1/2 | B40STD3590 | 078596 | 4.000 | 3.250 | 15.000 |
| 4 | B40STD4090 | 078597 | 4.500 | 3.375 | 16.000 |
| 5 | B40STD5090 | 068430 | 5.563 | 3.625 | 24.000 |
| 6 | B40STD6090 | 078599 | 6.625 | 3.750 | 30.000 |



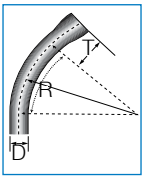

## Schedule 40 Standard Radius 45° Bell End Elbows

| Size (in.) | Part Number | Product Code | A (in.) | B (in.) | C (in.) |
|---|---|---|---|---|---|
| 1/2 | B40STD0545 | 078600 | 0.840 | 1.500 | 4.000 |
| 3/4 | B40STD0745 | 078601 | 1.050 | 1.500 | 4.500 |
| 1 | B40STD1045 | 078602 | 1.315 | 1.875 | 5.750 |
| 1-1/4 | B40STD1245 | 078603 | 1.660 | 2.000 | 7.250 |
| 1-1/2 | B40STD1545 | 078604 | 1.900 | 2.000 | 8.250 |
| 2 | B40STD2045 | 078605 | 2.375 | 2.000 | 9.500 |
| 2-1/2 | B40STD2545 | 078606 | 2.875 | 3.000 | 10.500 |
| 3 | B40STD3045 | 078607 | 3.500 | 3.125 | 13.000 |
| 3-1/2 | B40STD3545 | 078608 | 4.000 | 3.250 | 15.000 |
| 4 | B40STD4045 | 078609 | 4.500 | 3.375 | 16.000 |
| 5 | B40STD5045 | 078610 | 5.563 | 3.625 | 24.000 |
| 6 | B40STD6045 | 068572 | 6.625 | 3.750 | 30.000 |



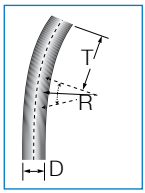

## Schedule 80
## Standard Radius 90° Elbows

| Size (in.) | Part Number | Product Code | A (in.) | B (in.) | C (in.) |
|---|---|---|---|---|---|
| 1/2 | 80STD0590 | 078620 | 0.840 | 1.500 | 4.000 |
| 3/4 | 80STD0790 | 078621 | 1.050 | 1.500 | 4.500 |
| 1 | 80STD1090 | 078622 | 1.315 | 1.875 | 5.750 |
| 1-1/4 | 80STD1290 | 078623 | 1.660 | 2.000 | 7.250 |
| 1-1/2 | 80STD1590 | 078624 | 1.900 | 2.000 | 8.250 |
| 2 | 80STD2090 | 078625 | 2.375 | 2.000 | 9.500 |
| 2-1/2 | 80STD2590 | 078626 | 2.875 | 3.000 | 10.500 |
| 3 | 80STD3090 | 078627 | 3.500 | 3.125 | 13.000 |
| 4 | 80STD4090 | 078628 | 4.500 | 3.375 | 16.000 |
| 5 | 80STD5090 | 078629 | 5.563 | 3.625 | 24.000 |
| 6 | 80STD6090 | 078630 | 6.625 | 3.750 | 30.000 |




## Schedule 80
## Standard Radius 45° Elbows

| Size (in.) | Part Number | Product Code | A (in.) | B (in.) | C (in.) |
|---|---|---|---|---|---|
| 1/2 | 80STD0545 | 078631 | 0.840 | 1.500 | 4.000 |
| 3/4 | 80STD0745 | 078632 | 1.050 | 1.500 | 4.500 |
| 1 | 80STD1045 | 078633 | 1.315 | 1.875 | 5.750 |
| 1-1/4 | 80STD1245 | 078634 | 1.660 | 2.000 | 7.250 |
| 1-1/2 | 80STD1545 | 078635 | 1.900 | 2.000 | 8.250 |
| 2 | 80STD2045 | 078636 | 2.375 | 2.000 | 9.500 |
| 2-1/2 | 80STD2545 | 078637 | 2.875 | 3.000 | 10.500 |
| 3 | 80STD3045 | 078638 | 3.500 | 3.125 | 13.000 |
| 4 | 80STD4045 | 078639 | 4.500 | 3.375 | 16.000 |
| 5 | 80STD5045 | 078640 | 5.563 | 3.625 | 24.000 |
| 6 | 80STD6045 | 078641 | 6.625 | 3.750 | 30.000 |




## Schedule 80
## Standard Radius 30° Elbows

| Size (in.) | Part Number | Product Code | A (in.) | B (in.) | C (in.) |
|---|---|---|---|---|---|
| 1/2 | 80STD0530 | 078642 | 0.840 | 1.500 | 4.000 |
| 3/4 | 80STD0730 | 078643 | 1.050 | 1.500 | 4.500 |
| 1 | 80STD1030 | 078644 | 1.315 | 1.875 | 5.750 |
| 1-1/4 | 80STD1230 | 078645 | 1.660 | 2.000 | 7.250 |
| 1-1/2 | 80STD1530 | 078646 | 1.900 | 2.000 | 8.250 |
| 2 | 80STD2030 | 078647 | 2.375 | 2.000 | 9.500 |
| 2-1/2 | 80STD2530 | 078648 | 2.750 | 3.000 | 10.500 |
| 3 | 80STD3030 | 078649 | 3.500 | 3.125 | 13.000 |
| 4 | 80STD4030 | 078650 | 4.500 | 3.375 | 16.000 |
| 5 | 80STD5030 | 078651 | 5.563 | 3.625 | 24.000 |
| 6 | 80STD6030 | 068560 | 6.625 | 3.750 | 30.000 |

EPR

Repair Kit for Conduit

Total repair systems for broken and damaged PVC Conduit



Available in 1-1/4" to 6" sizes

KRALOY The Fitting Choice

## Conduit Elbows
### Schedule 40 Special Radius (Plain End)

| Size inches | Degree Bend | 18" Radius Product Code | 24" Radius Product Code |
|---|---|---|---|
| 1 | 90 | 068702 | 068722 |
| | 45 | 068802 | 068822 |
| | 30 | 068902 | 068922 |
| | 22-1/2 | 078853 | 078035 |
| 1-1/4 | 90 | 068703 | 068723 |
| | 45 | 068803 | 068823 |
| | 30 | 068903 | 068923 |
| | 22-1/2 | 068513 | 078667 |
| 1-1/2 | 90 | 568704 | 068724 |
| | 45 | 068804 | 068824 |
| | 30 | 068904 | 068924 |
| | 22-1/2 | 068523 | 078668 |
| 2 | 90 | 068705 | 068725 |
| | 45 | 068805 | 068825 |
| | 30 | 068905 | 068925 |
| | 22-1/2 | 068514 | 068547 |
| 2-1/2 | 90 | 068706 | 068726 |
| | 45 | 068806 | 068826 |
| | 30 | 068906 | 068926 |
| | 22-1/2 | 068524 | 078275 |
| 3 | 90 | 068707 | 068727 |
| | 45 | 068807 | 068827 |
| | 30 | 068907 | 068927 |
| | 22-1/2 | 068516 | 068525 |
| 3-1/2 | 90 | Use Std. Sch. 40 Radius (15") | 068728 |
| | 45 | | 068828 |
| | 30 | | 068928 |
| | 22-1/2 | | 068130 |
| 4 | 90 | Use Std. Sch. 40 Radius (16") | 068729 |
| | 45 | | 068829 |
| | 30 | | 068929 |
| | 22-1/2 | | 068518 |
| 5 | 90 | Use Std. Sch. 40 Radius (24") | |
| | 45 | | |
| | 30 | | |
| | 22-1/2 | | |
| 6 | 90 | Use Std. Sch. 40 Radius (30") | |
| | 45 | | |
| | 30 | | |
| | 22-1/2 | | |
| 8 | 90 | - | - |
| | 45 | - | - |
| | 22-1/2 | - | - |
| | 11-1/4 | - | - |

Note: 1) # indicates available on request. Material is non-cancelable and non-returnable.

| 30" Radius Product Code | 36" Radius Product Code | 48" Radius Product Code | 60" Radius Product Code |
|---|---|---|---|
| 068742 | 068762 | 068782 | # |
| 068842 | 068862 | 068882 | # |
| 068942 | 068962 | 068982 | # |
| # | 278288 | # | # |
| 068743 | 068763 | 068783 | # |
| 068843 | 068863 | 068883 | # |
| 068943 | 068963 | 068983 | # |
| # | # | # | # |
| 068744 | 068764 | 068784 | # |
| 068844 | 068864 | 068884 | # |
| 068944 | 068964 | 068984 | # |
| # | # | # | # |
| 068745 | 068765 | 068785 | 068113 |
| 068845 | 068865 | 068885 | # |
| 068945 | 068965 | 068985 | # |
| # | 068515 | 178065 | # |
| 068746 | 068766 | 068786 | 178168 |
| 068846 | 068866 | 068886 | # |
| 068946 | 068966 | 068986 | # |
| # | 278229 | # | # |
| 068747 | 068767 | 068787 | 068114 |
| 068847 | 068867 | 068887 | # |
| 068947 | 068967 | 068987 | # |
| # | 068517 | 068526 | # |
| 068748 | 068768 | 068788 | 178169 |
| 068848 | 068868 | 068888 | # |
| 068948 | 068968 | 068988 | # |
| # | # | # | # |
| 068749 | 068769 | 068789 | 068112 |
| 068849 | 068869 | 068889 | 078011 |
| 068949 | 068969 | 068989 | # |
| 068519 | 068520 | 068521 | 068111 |
| 068751 | 068771 | 068791 | 068115 |
| 068851 | 068871 | 068891 | 078615 |
| 068951 | 068971 | 068991 | 068132 |
| 068529 | 068522 | 078485 | # |
| | 068772 | 068792 | 078937 |
| | 068872 | 068892 | 078220 |
| | 068972 | 068992 | 178255 |
| | 068528 | 068527 | 078221 |
| - | - | 068052 | # |
| - | - | 068082 | # |
| - | - | 068081 | # |
| - | - | 068080 | # |

Note: 2) Larger Radius Elbows are available on request and are non-cancelable and non-returnable.

## Conduit Elbows
### Schedule 40 Special Radius (Belled One End)

| Size inches | Degree Bend | 18" Radius Product Code |
|---|---|---|
| 2 | 90 | 068014 |
| | 45 | 068015 |
| 2-1/2 | 90 | 068016 |
| | 45 | 068017 |
| 3 | 90 | 068018 |
| | 45 | 068019 |
| 3-1/2 | 90 | Use Std. Sch. 40 Radius (15") |
| | 45 | |
| 4 | 90 | Use Std. Sch. 40 Radius (16") |
| | 45 | |
| 5 | 90 | Use Std. Sch. 40 Radius (24") |
| | 45 | |
| 6 | 90 | Use Std. Sch. 40 Radius (30") |
| | 45 | |

Note: 1) # indicates available on request. Material is non-cancelable and non-returnable.
2) 30° and 22-1/2° Elbows are available on request.
3) Larger Radius Elbows are available on request and are non-cancelable and non-returnable.

## Conduit Elbows
### Schedule 80 Special Radius (Plain End)

| Size inches | Size inches | 18" Radius Product Code | 24" Radius Product Code |
|---|---|---|---|
| 1 | 90 | 068710 | 078374 |
| | 45 | # | # |
| 1-1/4 | 90 | 068711 | 068735 |
| | 45 | # | 078114 |
| 1-1/2 | 90 | 068712 | 078854 |
| | 45 | 178104 | 078113 |
| 2 | 90 | 068713 | 068736 |
| | 45 | # | 068530 |
| 2-1/2 | 90 | 068714 | 068737 |
| | 45 | # | 068531 |
| 3 | 90 | 068715 | 068738 |
| | 45 | # | 068532 |
| 4 | 90 | 068716 | 068739 |
| | 45 | # | 068533 |
| 5 | 90 | Use Standard Schedule 80 Radius (24") | |
| | 45 | | |
| 6 | 90 | Use Standard Schedule 80 Radius (30") | |
| | 45 | | |

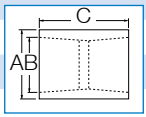
| | 24" Radius Product Code | 36" Radius Product Code | 48" Radius Product Code |
|---|---|---|---|
| | 068030 | 068054 | 068078 |
| | 068033 | 068055 | 068079 |
| | 068034 | 068056 | 068086 |
| | 068035 | 078508 | 068090 |
| | 068036 | 068058 | 068091 |
| | 068037 | 078513 | 068092 |
| | 068038 | 068070 | 068093 |
| | 068039 | 068071 | 068094 |
| | 068050 | 068072 | 068095 |
| | 078945 | 068073 | 068096 |
| | | 068074 | 068097 |
| | | 068075 | 068098 |
| | | 068076 | 068099 |
| | | 068077 | 068106 |

| | 30" Radius Product Code | 36" Radius Product Code | 48" Radius Product Code |
|---|---|---|---|
| | # | 068049 | 068541 |
| | # | 178194 | # |
| | # | # | 068542 |
| | # | # | # |
| | # | 068545 | 068543 |
| | # | # | # |
| | 078910 | 068775 | 068544 |
| | # | 068534 | 078198 |
| | 078524 | 068776 | 068548 |
| | # | 068535 | # |
| | 078525 | 068777 | 068794 |
| | # | 068536 | # |
| | 068549 | 068778 | 068795 |
| | # | 068537 | 078911 |
| | 078373 | 068779 | 068796 |
| | # | 068538 | 068546 |
| | | 068540 | 068797 |
| | | 068539 | 078966 |

## Couplings

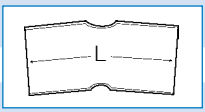
| Size (in.) | Part Number | Product Code | N Min (in.) | OD (in.) | OL (in.) |
|---|---|---|---|---|---|
| 1/2 | CP05 | 078001 | 0.06 | 1.06 | 1.41 |
| 3/4 | CP07 | 078002 | 0.07 | 1.27 | 1.54 |
| 1 | CP10 | 078003 | 0.10 | 1.55 | 1.86 |
| 1-1/4 | CP12 | 078004 | 0.11 | 1.95 | 2.02 |
| 1-1/2 | CP15 | 078005 | 0.08 | 2.18 | 2.26 |
| 2 | CP20 | 078006 | 0.10 | 2.68 | 2.39 |
| 2-1/2 | CP25 | 078007 | 0.17 | 3.24 | 3.12 |
| 3 | CP30 | 078008 | 0.17 | 3.94 | 3.34 |
| 3-1/2 | CP35 | 078009 | 0.20 | 4.48 | 3.62 |
| 4 | CP40 | 078010 | 0.23 | 5.00 | 3.77 |
| 5 | CP50 | 078012 | 0.27 | 6.12 | 4.17 |
| 6 | CP60 | 078014 | 0.26 | 7.29 | 4.88 |
| 8 | CP80 | 178192 | - | - | - |






## 5° couplings B x B

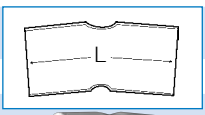
| Size (in.) | Part Number | Product Code | L (in.) |
|---|---|---|---|
| 2 | 5EC20 | 078049 | 4.0 |
| 3 | 5EC30 | 078051 | 6.0 |
| 4 | 5EC40 | 178375 | 7.0 |
| 5 | 5EC50 | 178376 | 7.5 |
| 6 | 5EC60 | 077106 | 11.0 |

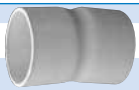





## 5° couplings B x S

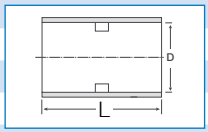
| Size (in.) | Part Number | Product Code | L (in.) |
|---|---|---|---|
| 2 | 5EC20BS | 078025 | 4.0 |
| 3 | 5EC30BS | 078026 | 6.0 |
| 4 | 5EC40BS | 078028 | 7.0 |
| 6 | 5EC60BS | 078030 | 11.0 |



## Long Line Couplings

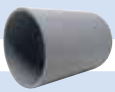
| Size (in.) | Part Number | Product Code | L (in.) |
|---|---|---|---|
| 2 | LLC20 | 078063 | 3.68 |
| 2-1/2 | LLC25 | 078065 | 4.28 |
| 3 | LLC30 | 078066 | 4.80 |
| 4 | LLC40 | 078067 | 6.20 |
| 5 | LLC50 | 078068 | 8.22 |
| 6 | LLC60 | 078069 | 8.22 |
| 6 | LLC65 | 077198 | 8.22 |

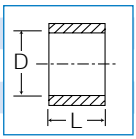





## Repair Coupling Sleeves

| Size (in.) | Part Number | Product Code | L (in.) | D Min (in.) | D Max (in.) |
|---|---|---|---|---|---|
| 1-1/2 | REC15 | 077292 | 2.30 | 1.91 | 1.92 |
| 2 | REC20 | 278617 | 6.50 | 2.37 | 2.40 |
| 2-1/2 | REC25 | 078041 | 3.45 | 2.88 | 2.90 |
| 3 | REC30 | 278618 | 6.50 | 3.51 | 3.52 |
| 4 | REC40 | 278619 | 8.00 | 4.51 | 4.52 |
| 5 | REC50 | 278620 | 8.00 | 5.58 | 5.60 |
| 6 | REC60 | 278621 | 8.00 | 6.65 | 6.67 |





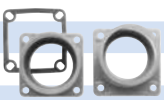

## Offset Terminal Adapters

| Size S x H (in) | Part Number | Product Code | OL (in) |
|---|---|---|---|
| 1-1/4 | MO12 | 078351 | 4.24 |
| 2 | MO20 | 078352 | 4.36 |



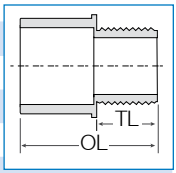
## Meter Hubs

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



## Terminal Adapters

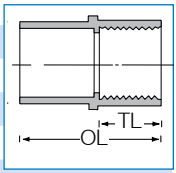
| Size (in.) | Part Number | Product Code | OL (in.) | TL Min (in.) |
|---|---|---|---|---|
| 1/2 | TA05 | 078084 | 1.31 | 0.55 |
| 3/4 | TA07 | 078085 | 1.44 | 0.57 |
| 1 | TA10 | 078086 | 1.78 | 0.80 |
| 1-1/4 | TA12 | 078087 | 1.86 | 0.80 |
| 1-1/2 | TA15 | 078088 | 1.98 | 0.80 |
| 2 | TA20 | 078089 | 2.07 | 0.81 |
| 2-1/2 | TA25 | 078090 | 2.48 | 0.82 |
| 3 | TA30 | 078091 | 2.58 | 0.77 |
| 3-1/2 | TA35 | 078092 | 2.82 | 0.92 |
| 4 | TA40 | 078093 | 2.87 | 0.87 |
| 5 | TA50 | 078094 | 3.71 | 1.39 |
| 6 | TA60 | 078095 | 3.54 | 1.08 |
| 8 | TA80 | 178190 | - | - |






## Female Adapters

| Size (in.) | Part Number | Product Code | OL (in.) | TL Min (in.) |
|---|---|---|---|---|
| 1/2 | FA05 | 078070 | 1.40 | 0.70 |
| 3/4 | FA07 | 078071 | 1.55 | 0.77 |
| 1 | FA10 | 078072 | 2.00 | 1.00 |
| 1-1/4 | FA12 | 078073 | 2.07 | 1.00 |
| 1-1/2 | FA15 | 078074 | 2.19 | 1.00 |
| 2 | FA20 | 078075 | 2.26 | 1.00 |
| 2-1/2 | FA25 | 078076 | 2.29 | 1.00 |
| 3 | FA30 | 078077 | 2.95 | 1.15 |
| 3-1/2 | FA35 | 078078 | 4.10 | 1.80 |
| 4 | FA40 | 078079 | 3.12 | 1.15 |
| 5 | FA50 | 078080 | 3.75 | 1.52 |
| 6 | FA60 | 078081 | 4.06 | 1.50 |
| 8 | FA80 | 178189 | - | - |






## Reducer Bushings

| Size (in.) | Part Number | Product Code |
|---|---|---|
| 3/4 x 1/2 | MR0705 | 078353 |
| 1 x 1/2 | MR1005 | 078354 |
| 1 x 3/4 | MR1007 | 078355 |
| 1-1/4 x 3/4 | MR1207 | 078356 |
| 1-1/4 x 1 | MR1210 | 078357 |
| 1-1/2 x 1 | MR1510 | 078359 |
| 1-1/2 x 1-1/4 | MR1512 | 078360 |
| 2 x 1 | MR2010 | 078361 |
| 2 x 1-1/4 | MR2012 | 078363 |
| 2 x 1-1/2 | MR2015 | 078362 |
| 2-1/2 x 2 | MR2520 | 078364 |
| 3 x 2 | MR3020 | 078365 |
| 3 x 2-1/2 | MR3025 | 078366 |
| 4 x 2 | ME4020 | 078369 |
| 4 x 3 | MR4030 | 078367 |
| 4 x 3-1/2 | MR4035 | 078368 |



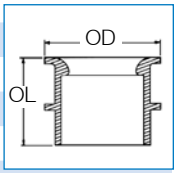
## Fabricated Swedge Reducer Couplings Soc x Soc

| Size (in.) | Part Number | Product Code |
|---|---|---|
| 2 x 1-1/4 | SW2012 | 078398 |
| 2 x 1-1/2 | SW2015 | 078399 |
| 2-1/2 x 2 | SW2520 | 078400 |
| 3 x 2 | SW3020 | 078401 |
| 3 x 2-1/2 | SW3025 | 078402 |
| 3-1/2 x 3 | SW3530 | 078404 |
| 4 x 2 | SW5535 | 077322 |
| 4 x 3 | SW4030 | 078407 |
| 4 x 3-1/2 | SW4035 | 078408 |
| 5 x 4 | SW5040 | 078409 |
| 6 x 5 | SW6050 | 078410 |



## End Bells

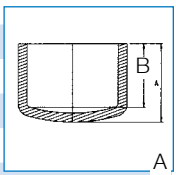
| Size (in.) | Part Number | Product Code | OD (in.) | OL (in.) |
|---|---|---|---|---|
| 1/2 | MEB05 | 078288 | 1.25 | 1.00 |
| 3/4 | MEB07 | 078289 | 1.50 | 1.00 |
| 1 | MEB10 | 078290 | 1.75 | 1.12 |
| 1-1/4 | MEB12 | 078291 | 2.09 | 1.20 |
| 1-1/2 | MEB15 | 078292 | 2.95 | 1.50 |
| 2 | MEB20 | 078293 | 3.05 | 1.44 |
| 2-1/2 | MEB25 | 078294 | 3.59 | 1.79 |
| 3 | MEB30 | 078295 | 3.87 | 1.91 |
| 3-1/2 | MEB35 | 078296 | 4.44 | 2.09 |
| 4 | MEB40 | 078297 | 4.87 | 2.18 |
| 5 | MEB50 | 078298 | 6.19 | 2.38 |
| 6 | MEB60 | 078299 | 7.19 | 2.57 |
| 8 | MEB80 | 278123 | - | - |






## End Caps

| Size (in.) | Part Number | Product Code | A (in.) | B (in.) |
|---|---|---|---|---|
| 1/2 | EC05 | 078314 | 1.41 | 1.00 |
| 3/4 | EC07 | 078315 | 1.63 | 1.13 |
| 1 | EC10 | 078316 | 1.86 | 1.19 |
| 1-1/4 | EC12 | 078317 | 2.01 | 1.28 |
| 1-1/2 | EC15 | 078318 | 2.12 | 1.50 |
| 2 | EC20 | 078319 | 2.45 | 1.81 |
| 2-1/2 | EC25 | 078320 | 2.92 | 2.13 |
| 3 | EC30 | 078321 | 3.05 | 2.38 |
| 3-1/2 | EC35 | 277085 | 2.15 | 2.63 |
| 4 | EC40 | 078323 | 3.26 | 3.05 |
| 5 | EC50 | 077431 | 4.38 | 3.00 |
| 6 | EC60 | 078325 | 5.18 | 4.13 |
| 8 | EC80 | 178191 | - | - |



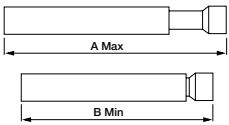



## Tapered Conduit Plugs

| Size (in.) | Part Number | Product Code |
|---|---|---|
| 2 - 2-1/2 | UTP20 | 078424 |
| 3 - 3-1/2 | UTP30 | 078425 |
| 4 | UTP40 | 078427 |
| 5 | UTP50 | 078428 |
| 6 | UTP60 | 078429 |
| 8 | UTP80 | 077648 |








## Expansion Joints

| Size (in.) | Part Number | Product Code | A Max (in.) | B Min (in.) |
|---|---|---|---|---|
| 1/2 | EJ05 | 178681 | 12.00 | 8.00 |
| 3/4 | EJ07 | 078329 | 12.00 | 8.00 |
| 1 | EJ10 | 078330 | 12.50 | 8.50 |
| 1-1/4 | EJ12 | 078331 | 13.00 | 9.00 |
| 1-1/2 | EJ15 | 078332 | 13.00 | 9.00 |
| 2 | EJ20 | 078333 | 13.25 | 9.25 |
| 2-1/2 | EJ25 | 078334 | 22.25 | 14.25 |
| 3 | EJ30 | 078336 | 22.25 | 14.25 |
| 3-1/2 | EJ35 | 078337 | 22.90 | 14.90 |
| 4 | EJ40 | 078338 | 22.90 | 14.90 |
| 5 | EJ50 | 278158 | 26.00 | 18.00 |
| 6 | EJ60 | 278159 | 26.33 | 18.33 |

## One Piece Expansion Joints

| Size (in.) | Part Number | Product Code |
|---|---|---|
| 1/2 | OPEJ05 | 078240 |
| 3/4 | OPEJ07 | 078209 |
| 1 | OPEJ10 | 078208 |
| 1-1/4 | OPEJ12 | 078204 |
| 1-1/2 | OPEJ15 | 078045 |
| 2 | OPEJ20 | 078388 |





## Expansion and Deflection Fittings Assemblies*

| Size (in.) | Part Number | Product Code |
|---|---|---|
| 2 | SE-J-35 | 077889 |
| 3 | SE-J-45 | 077890 |
| 4 | SE-J-55 | 077891 |

complete assembly, * Not Certified



## Slip Meter Risers (NEC Article 300)

| Size (in.) | Part Number | Product Code |
|---|---|---|
| 1-1/4 | SMR12TA | 068107 |
| 1-1/2 | SMR15TA | 068108 |
| 2 | SMR20TA | 068063 |
| 2-1/2 | SMR25TA | 068064 |
| 4 | SMR30TA | 068373 |
| 4 | SMR40TA | 068065 |



## Expansion Joint c/w Terminal Adapter

| Size (in.) | Part Number | Product Code |
|---|---|---|
| 2” x 4” of travel | EJ35TA | 077680 |
| 2-1/2” x 12” of travel | EJ40TA | 077398 |
| 3” x 8” of travel | EJ45TA | 077681 |
| 4” x 8” of travel | EJ55TA | 077682 |

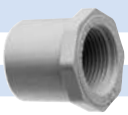
## Pipe Straps, PVC 2 Hole

| Size (in.) | Part Number | Product Code |
|---|---|---|
| 1/2 | PS05 | 078375 |
| 3/4 | PS07 | 078376 |
| 1 | PS10 | 078377 |
| 1-1/4 | PS12 | 078378 |
| 1-1/2 | PS15 | 078379 |
| 2 | PS20 | 078380 |
| 2-1/2 | PS25 | 178108 |
| 3 | PS30 | 178109 |
| 4 | PS40 | 178110 |



## Threaded Reducer Bushings

| Size (in.) | Part Number | Product Code |
|---|---|---|
| 3/4 x 1/2 | 1825 | 077314 |
| 1 x 1/2 | 1826 | 077315 |
| 1 x 3/4 | 1827 | 077316 |



## Pipe Straps, PVC Coated Steel 2 Hole

| Size (in.) | Part Number | Product Code |
|---|---|---|
| 2 | PSC20 | 078190 |
| 2-1/2 | PSC25 | 078191 |
| 3 | PSC30 | 078192 |
| 3-1/2 | PSC35 | 078193 |
| 4 | PSC40 | 078194 |
| 5 | PSC50 | 078195 |
| 6 | PSC60 | 078196 |

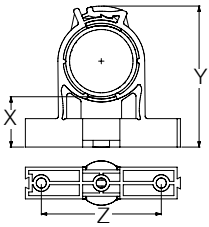


## Conduit Clamps & Spacers

| Size (in.) | Part Number | Product Code | X (in.) | Y (in.) | Z (in.) |
|---|---|---|---|---|---|
| 1/2 | CCS10 | 278106 | 1.19 | 2.41 | 1.82 |
| 3/4 | CCS15 | 278095 | 1.20 | 2.66 | 2.11 |
| 1 | CCS20 | 278096 | 1.22 | 2.96 | 2.44 |
| 1-1/4 | CCS25 | 278097 | 1.18 | 3.30 | 2.86 |
| 1-1/2 | CCS30 | 278098 | 1.19 | 3.60 | 3.17 |
| 2 | CCS35 | 278099 | 1.20 | 4.14 | 3.79 |
| Base | CCS-B | 278107 | - | - | - |



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






## Pull Elbow

| Size (in.) | Part Number | Product Code |
|---|---|---|
| 1/2 & 3/4 | PULEL0705 | 078386 |

## Access Fitting



TYPE LL | TYPE T | TYPE TB | TYPE LB | TYPE E | TYPE C | TYPE LR

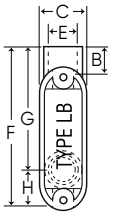
## Access Fitting Dimensions (except Type "LB")

| Size (in) | A (in) | B (in) | C (in) | D (in) | E (in) | F (in) |
|---|---|---|---|---|---|---|
| 1/2 | 5.6 | 0.6 | 1.3 | 1.1 | 0.8 | 4.3 |
| 3/4 | 5.6 | 0.8 | 1.5 | 1.3 | 1.1 | 5.4 |
| 1 | 6.5 | 0.9 | 1.7 | 1.6 | 1.3 | 6.3 |
| 1-1/4 | 7.9 | 1.1 | 2.3 | 2.0 | 1.7 | 7.6 |
| 1-1/2 | 8.5 | 1.1 | 2.7 | 2.3 | 1.9 | 8.3 |
| 2 | 10.9 | 1.2 | 3.2 | 2.8 | 2.4 | 10.5 |
| 2-1/2 | 14.6 | 1.8 | 4.5 | 4.0 | 2.9 | 13.6 |
| 3 | 14.6 | 1.9 | 4.5 | 4.0 | 3.5 | 13.6 |
| 3-1/2 | 17.0 | 2.1 | 5.5 | 5.0 | 4.0 | 16.0 |
| 4 | 17.0 | 2.1 | 5.5 | 5.0 | 4.5 | 16.0 |

| Size (in) | G (in) | H (in) | I (in) | J (in) | K (in) | L (in) |
|---|---|---|---|---|---|---|
| 1/2 | 4.1 | 1.3 | 2.5 | 2.3 | 1.0 | 0.8 |
| 3/4 | 4.1 | 1.3 | 2.5 | 2.8 | 1.0 | 0.8 |
| 1 | 4.8 | 1.5 | 2.1 | 3.3 | 1.1 | 1.1 |
| 1-1/4 | 5.8 | 1.8 | 3.6 | 4.0 | 1.6 | 1.0 |
| 1-1/2 | 6.5 | 1.8 | 3.9 | 4.3 | 1.7 | 1.1 |
| 2 | 8.2 | 2.3 | 4.5 | 5.4 | 2.0 | 1.2 |
| 2-1/2 | 9.8 | 3.8 | 6.2 | 7.3 | 2.6 | - |
| 3 | 10.9 | 2.7 | 6.2 | 7.3 | 2.6 | - |
| 3-1/2 | 11.5 | 4.5 | 7.5 | 8.5 | 3.0 | - |
| 4 | 11.5 | 4.5 | 7.5 | 8.5 | 3.0 | - |

All access fittings are UL listed for wet locations.
Supplied with threaded brass inserts, brass screws, PVC gasket & cover.





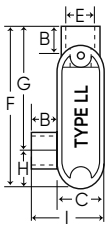

## Type 'LB' Access Fittings

| Size (in.) | Part Number | Product Code | F (in.) | G (in.) | E (in.) | H (in.) | C (in.) |
|---|---|---|---|---|---|---|---|
| 1/2 | LB05 | 078140 | 4.285 | 3.290 | 1.500 | 1.175 | 1.312 |
| 3/4 | LB07 | 078141 | 4.970 | 3.980 | 1.625 | 1.375 | 1.500 |
| 1 | LB10 | 078142 | 5.900 | 4.656 | 2.010 | 1.665 | 1.750 |
| 1-1/4 | LB12 | 078143 | 7.650 | 6.060 | 2.510 | 1.910 | 2.450 |
| 1-1/2 | LB15 | 078144 | 7.812 | 6.180 | 2.520 | 2.187 | 2.468 |
| 2 | LB20 | 078145 | 9.970 | 8.055 | 3.455 | 2.500 | 3.062 |
| 2-1/2 | LB25 | 078146 | 13.750 | 11.843 | 4.625 | 3.375 | 4.625 |
| 3 | LB30 | 078147 | 14.250 | 11.843 | 4.625 | 3.405 | 4.625 |
| 3-1/2 | LB35 | 078148 | 15.500 | 12.750 | 5.450 | 4.210 | 5.445 |
| 4 | LB40 | 078149 | 15.500 | 12.750 | 5.450 | 4.210 | 5.445 |

## Type 'LL' Access Fittings

| Size (in) | Part Number | Product Code |
|---|---|---|
| 1/2 | LL05 | 078152 |
| 3/4 | LL07 | 078153 |
| 1 | LL10 | 078154 |
| 1-1/4 | LL12 | 078155 |
| 1-1/2 | LL15 | 078156 |
| 2 | LL20 | 078157 |
| 2-1/2 | LL25 | 078158 |
| 3 | LL30 | 078159 |
| 3-1/2 | LL35 | 078160 |
| 4 | LL40 | 078161 |



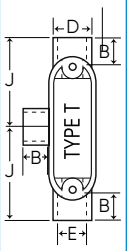



All access fittings are UL listed for wet locations.
Supplied with threaded brass inserts, brass screws, PVC gasket & cover.

## Type 'T' Access Fittings

| Size (in) | Part Number | Product Code |
|---|---|---|
| 1/2 | T05 | 078176 |
| 3/4 | T07 | 078177 |
| 1 | T10 | 078178 |
| 1-1/4 | T12 | 078179 |
| 1-1/2 | T15 | 078180 |
| 2 | T20 | 078181 |
| 2-1/2 | T25 | 078182 |
| 3 | T30 | 078183 |
| 3-1/2 | T35 | 078184 |
| 4 | T40 | 078185 |

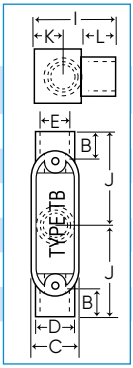





## Type 'TB' Access Fittings

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

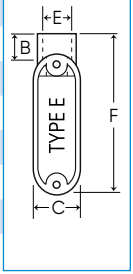





## Type 'E' Access Fittings

| Size (in) | Part Number | Product Code |
|---|---|---|
| 1/2 | E05 | 078128 |
| 3/4 | E07 | 078129 |
| 1 | E10 | 078130 |
| 1-1/4 | E12 | 078131 |
| 1-1/2 | E15 | 078132 |
| 2 | E20 | 078133 |
| 2-1/2 | E25 | 078134 |

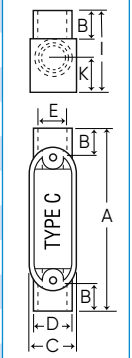




## Type ‘C’ Access Fittings

| Size (in) | Part Number | Product Code |
|---|---|---|
| 1/2 | C05 | 078116 |
| 3/4 | C07 | 078117 |
| 1 | C10 | 078118 |
| 1-1/4 | C12 | 078119 |
| 1-1/2 | C15 | 078120 |
| 2 | C20 | 078121 |
| 2-1/2 | C25 | 078122 |
| 3 | C30 | 078123 |
| 3-1/2 | C35 | 078124 |
| 4 | C40 | 078125 |

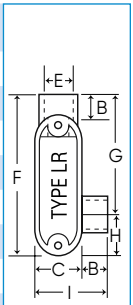





## Type ‘LR’ Access Fittings

| Size (in) | Part Number | Product Code |
|---|---|---|
| 1/2 | LR05 | 078164 |
| 3/4 | LR07 | 078165 |
| 1 | LR10 | 078166 |
| 1- 1/4 | LR12 | 078167 |
| 1-1/2 | LR15 | 078168 |
| 2 | LR20 | 078169 |
| 2-1/2 | LR25 | 078170 |
| 3 | LR30 | 078171 |
| 3-1/2 | LR35 | 078172 |
| 4 | LR40 | 078173 |






All access fittings are UL listed for wet locations.
Supplied with threaded brass inserts, brass screws, PVC gasket & cover.

## Service Entrance Fittings

| Size (in.) | Part Number | Product Code |
|---|---|---|
| 1/2 | MH05 | 078302 |
| 3/4 | MH07 | 078303 |
| 1 | MH10 | 078304 |
| 1-1/4 | MH12 | 078305 |
| 1-1/2 | MH15 | 078306 |
| 2 | MH20 | 078307 |
| **2-1/2** | **MH25** | **178688** |
| **3** | **MH30** | **178689** |
| **3-1/2** | **MH35** | **178690** |
| **4** | **MH40** | **178691** |



## One Kit, Four Heights, One Low Cost!



This simple yet innovative Round Floor Box Stand is equipped with several height brackets which accommodate the different rebar and post-tension cable heights and slab depths found from jobsite to job-site. When installed together, the Floor Box and Stand can be used in 5-1/2" to 10" slab depths.

Sold as a Kit, Kraloy offers the Round Floor Box and Stand conveniently packaged together as one complete product offering.

**FEATURE & BENEFITS**

- Four Adjustable Heights
- Raises Entrance Hubs to Rebar
- Minimizes Footprint on Concrete Form
- Withstands Tough Job Site Conditions
- Easy to Install
- Cost Effective

## Nonmetallic Strain Relief Connectors

Kraloy's Nonmetallic Strain Relief Connectors are supplied with all the components you need for a complete connection. The connector body, a selection of grommets and compression rings accepting a range of cord dimensions, a sealing 'O' ring and metallic locknut are all supplied in one package. Available in 1/2" and 3/4" threaded hub and 3/4" PVC socket solvent weld configurations to accommodate a variety of applications.



## Threaded Strain Relief Connector

| Size (in.) | Part Number | Product Code |
|---|---|---|
| 1/2 | TSRCU05 | 278100 |
| 3/4 | TSRCU07 | 278101 |

## Strain Relief Connector

| Size (in.) | Part Number | Product Code |
|---|---|---|
| 3/4 | SRCU07 | 278102 |



c/w 4 Grommets - 3/4" solvent weld male end

## Grommet Dimensions

| Grommet | from | to | Grommet | from | to |
|---|---|---|---|---|---|
|  | Ø = .240" | Ø = .315" |  | Ø = .420" | Ø = .515" |
|  | Ø = .320" | Ø = .415" |  | Ø = .520" | Ø = .615" |

Note: All four grommets and corresponding compression rings are supplied with TSRCU05, TSRCU07 & SRCU07.

## F Series - Single Gang Plates




DRC15/10 TSC15/10 20RC15/10 20-3RC15/10 30-3RC15/10 FSKIT

| Description | Part Number | Product Code |
|---|---|---|
| Duplex Receptacle | DRC15/10 | 078889 |
| Toggle Switch | TSC15/10 | 078898 |
| Single Receptacle | 20RC15/10 | 078882 |
| Single Receptacle | 20-3RC15/10 | 078913 |
| Single Receptacle | 30RC15/10 | 078914 |
| Blank c/w Gasket | FSKIT | 078241 |

## F Series - Double Gang Plates



BRC20-2-U TSC20-2-U DRC20-2-U TSDC20-2-U GASKFU20-2

| Description | Part Number | Product Code |
|---|---|---|
| Blank Cover c/w Gasket | BRC20-2-U | 278085 |
| Double Switch | TSC20-2-U | 278088 |
| Double Duplex Receptacle | DRC20-2-U | 278086 |
| Combo Switch Duplex Rec. | TSDC20-2-U | 278089 |
| Foam Gasket with Adhesive | GASKFU20-2 | 172650 |

## F Series - Triple Gang Plates



BRC20-3 DRC20-3 DSDR20-3 TSC20-3 TSDC20-3

| Description | Part Number | Product Code |
|---|---|---|
| Triple Receptacle | DRC20-3 | 278070 |
| Combo Switch Receptacle | DSDR20-3 | 278071 |
| Triple Switch | TSC20-3 | 278072 |
| Combo Switch Receptacle | TSDC20-3 | 278073 |
| Blank Cover c/w Gasket | BRC20-3 | 077748 |
| Gasket for 3 Gang 'F' Boxes | GASK20-3 | 077749 |

## Weatherproof Covers - Single Gang

VPT15/10



VSC15/10



WTG15/10



WDR15/10
RWDR15/10



WGF15/10
RWGF15/10



WTL15
WTL20
WTL30



WTL50





WDRE15/10
RWDRE15/10

| Description | (in) | Part Number | Product Code |
|---|---|---|---|
| Plunger-style Switch Cover | | VPT15/10 | 078899 |
| Toggle Switch Cover | | VSC15/10 | 078900 |
| Grey Toggle Switch Cover | | WTG15/10 | 078903 |
| Grey Duplex Receptacle | | WDR15/10 | 078901 |
| White Duplex Receptacle | | RWDR15/10 | 078843 |
| Grey Ground Fault Receptacle | | WGF15/10 | 078902 |
| White Ground Fault Receptacle | | RWGF15/10 | 078844 |
| Single Receptacle Device 15 AMP | 1.375 | WTL15 | 078904 |
| Single Receptacle Device 20 AMP | 1.625 | WTL20 | 078905 |
| 30 AMP Twist-Lock | 1.722 | WTL30 | 078906 |
| 50 AMP Twist-Lock | 2.187 | WTL50 | 078909 |
| Grey Double Door Duplex Receptacle | | WDRE15/10 | 078326 |
| White Double Door Duplex Receptacle | | RWDRE15/10 | 078383 |
| Gasket for W Series Cover (except WDRE & RWDRE) | | GASKW | 077755 |
| Gasket for WDRE & RWDRE Covers | | GASKDD | 072225 |

All covers are universal and will fit on most PVC and metal boxes.

Gaskets are included with all weatherproof covers.

## Weatherproof Covers - Double Gang

| | Description | Part Number | Product Code |
|---|---|---|---|
| VSCU20-2  | Toggle Switch Cover | VSC20-2-U | 278090 |
| VSRC20-2  | Combination Switch Cover & GFI Receptacle | VSRC20-2-U | 278092 |
| VSDRU20-2  | Combination Switch Cover & Duplex Receptacle | VSDRU20-2-U | 278091 |
| VSGG20-2  | Double Door GFCI Cover | VSGG20-2 | 078327 |
| VSDD20-2  | Double Door Duplex Cover | VSDD20-2 | 078335 |
| | Gasket for Double Gang 'F' Boxes (except VSGG20-2 & VSDD20-2) | GASKF20-2-U | 172650 |
| | Gasket for VSGG20-2 & VSDD20-2 Double Gangs | GASKV20-2 | 072227 |

All covers are universal and will fit on most PVC and metal boxes.

Gaskets are included with all weatherproof covers.

## F Series Single Gang Boxes


FSE

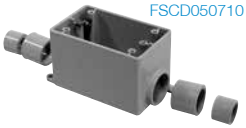

FSC


FSS


FSCC

| Size (in.) | Part Number | Cubic Inch Capacity | Product Code | L (in.) | W (in.) | D (in.) |
|---|---|---|---|---|---|---|
| 1/2 | FSE05 | 17.5 | 078229 | 4.58 | 2.82 | 2.0 |
| 3/4 | FSE07 | 17.5 | 078230 | 4.58 | 2.82 | 2.0 |
| 1/2 | FSC05 | 17.0 | 078226 | 4.58 | 2.82 | 2.0 |
| 3/4 | FSC07 | 17.0 | 078227 | 4.58 | 2.82 | 2.0 |
| 1/2 | FSS05 | 17.0 | 078232 | 4.58 | 2.82 | 2.0 |
| 3/4 | FSS07 | 17.0 | 078233 | 4.58 | 2.82 | 2.0 |
| 1/2 | FSCC05 | 16.3 | 078235 | 4.65 | 2.85 | 2.0 |
| 3/4 | FSCC07 | 16.3 | 078236 | 4.65 | 2.85 | 2.0 |

## FD Series Single Gang Deep Boxes


FSCD050710


FSED050710


FD Blank

| Size (in.) | Part Number | Cubic Inch Capacity | Product Code | L (in.) | W (in.) | D (in.) |
|---|---|---|---|---|---|---|
| 1/2, 3/4, 1 | FSCD050710 | 26.0 | 278051 | 4.58 | 2.82 | 2.76 |
| 1/2, 3/4, 1 | FSED050710 | 26.8 | 278050 | 4.58 | 2.82 | 2.76 |
| BLANK | FD | 29.0 | 078215 | 4.54 | 2.79 | 2.91 |

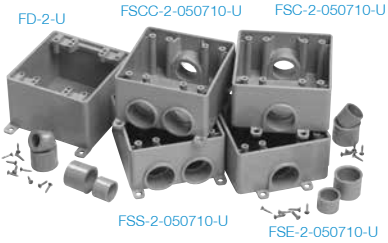
## F Series Single Gang Deep Boxes



| Size (in.) | Part Number | Cubic Inch Capacity | Product Code | L (in.) | W (in.) | D (in.) |
|---|---|---|---|---|---|---|
| 1/2, 3/4, 1 | FDS101520ST | 26.0 | 077847 | 4.58 | 2.82 | 2.76 |
| 1/2, 3/4, 1 | FDC101520ST | 26.8 | 077849 | 4.58 | 2.82 | 2.76 |

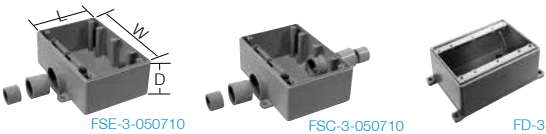
Screws are not included.

## F Series Double Gang Boxes




| Size (in.) | Part Number | Cubic Inch Capacity | Product Code | L (in.) | W (in.) | D (in.) |
|---|---|---|---|---|---|---|
| 1/2, 3/4, 1 | FSE-2-050710-U | 38.5 | 278082 | 4.62 | 4.62 | 2.5 |
| 1/2, 3/4, 1 | FSS-2-050710-U | 37.0 | 278087 | 4.62 | 4.62 | 2.5 |
| 1/2, 3/4, 1 | FSC-2-050710-U | 37.0 | 278083 | 4.62 | 4.62 | 2.5 |
| 1/2, 3/4, 1 | FSCC-2-050710-U | 35.0 | 278084 | 4.62 | 4.62 | 2.5 |
| BLANK | FD-2-U | 47.5 | 278038 | 4.75 | 4.75 | 3.0 |

## F Series Triple Gang Boxes




| Size (in.) | Part Number | Cubic Inch Capacity | Product Code | L (in.) | W (in.) | D (in.) |
|---|---|---|---|---|---|---|
| 1/2, 3/4, 1 | FSE-3-050710 | 56.0 | 278067 | 4.50 | 6.06 | 2.5 |
| 1/2, 3/4, 1 | FSC-3-050710 | 54.0 | 278068 | 4.50 | 6.06 | 2.5 |
| BLANK* | FD-3 | 56.0 | 278069 | 4.1 | 6.73 | 3.1 |

* Not UL Listed

## Round Floor Box Stand



This simple yet innovative Round Floor Box Stand is equipped with several height brackets which accommodate the different rebar and post-tension cable heights and slab depths. When installed together, the Floor Box and Stand can be used in 5-1/2” to 10” slab depths.

FEATURES:

- Four adjustable heights
- Raises entrance hubs to rebar height
- Minimizes footprint on concrete form
- Withstands tough job site conditions
- Easy to install
- Cost effective

The Round Floor Box easily snaps into the Stand on one of the four convenient height brackets at 2-1/2”, 3”, 3-1/2” and 4”. By raising the Floor Box off the concrete form, the footprint is minimized which reduces the amount of time the contractor spends finishing the concrete surface. In addition, the various Stand heights allow the ENT to enter the box in a flat and straight path, resulting in less effort by the contractor when pulling in the electrical cable.

| Part Number | Product Code |
|---|---|
| FBS-KIT | 178269 |

## Nonmetallic Floor Box, Cover & Metal Cover Adapter

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

Kraloy'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 leveling ring. 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 (2 - 1 x 3/4, 3 - 3/4 x 1/2) for added versatility.

| Description | Part Number | Product Code |
|---|---|---|
| Floor Box (includes disposable protective cap & reducer plugs) suitable for slab-on-grade or below grade, and wood floor construction | FB | 078876 |
| Floor Box Kit c/w Universal leveling ring adapter, disposable protective cap and reducer plugs | FBKIT | 078908 |
| Metal Cover Adapter Kit (includes leveling ring, metal cover adapter ring & two shim gaskets for height adjustment) | AFMC | 078875 |
| Universal Leveling Ring Adapter | LRA-U | 078446 |


FB


FBKIT


AFMC


LRA-U

Floor Box Duplex Receptacle Cover (Nonmetallic)
(includes flush mount cover, blank cover & gasket) accepts standard duplex receptacle (not included)



| | | |
|---|---|---|
| Brown | FBDRCB | 078877 |
| Gold | FBDRCG | 078878 |
| Grey | FBDRCGr | 078618 |
| Light Almond | FBDRCA | 078841 |


FBDRC

| Tri-Service Universal Divider Kit | FBUDK | 078993 |
|---|---|---|
| (includes upper & lower dividers, riser tube & four grommets) Kit partitions the round PVC floor box to permit power, communication and/or data cabling in one location and within the same box | | |


FBUDK

| Y Connector | FBYC | 078928 |
|---|---|---|
| use y connector to feed through (in/out) or to bring a parallel run of 3/4" conduit to the same hub | | |


FBYC

## Brass and Nickel Cover Plates



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.

### Nickel Cover Plates

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

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

## RBox™ - Round Electrical Box

NEW

The Kraloy® RBox™ is the next generation round electrical box featuring KwikTab™ fasteners as found on the JBox™ and a press-in lid with integrated O-ring. Fully non-metallic, made from high-impact and corrosion resistant PVC and fit for wet-location applications, the RBox™ is the upgraded Octagonal Box (OB4015) and is packed with contractor-friendly features.

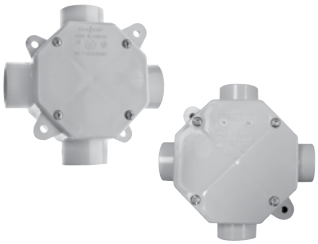


| Description | Size (in) | Part Number | Hub Size (in) | Product Code |
|---|---|---|---|---|
| Round Electrical Box | 4 x 2-1/4 | RBX07 | 3/4 | 278157 |
| Hub Plug | 3/4 | HP15 | - | 277169 |

Note: The RBox comes with 2 x 3/4" plugs for unused hubs.

## Octagonal Boxes*

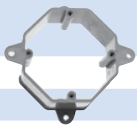
Octagonal Boxes are shipped complete with cover, gasket, 4 reducing bushings (3/4" x 1/2") and 3 knock-out plugs to be installed from inside box to seal off unused entry hubs.



| Size (in) | Hub Size (in) | Part Number | Product Code | L | D |
|---|---|---|---|---|---|
| 4 x 1 1/2 | 1/2 + 3/4 | OB401505/07 | 078414 | 4 | 1.68 |
| 4 X 2 1/8 | 1 | OB402010 | 078415 | 4 | 2.25 |

## Octagonal Box Extension Rings*

| Size (in) | Hub Size (in) | Product Code |
|---|---|---|
| 4 x 1 deep | XR20 | 077989 |
| 4 x 2 deep | XR35 | 077990 |



* Octagonal Boxes are not designed for supporting luminaries.
* LFB150T complete with 1/2 threaded hole in center of cover.

## Threaded Round Box

Kraloy's Threaded Junction Boxes are corrosion resistant, non-conductive and incorporate high-temperature silicone gaskets and brass hardware to withstand extreme temperature variations. Manufactured from glass-reinforced thermoplastic polyester resin, these boxes can endure extreme temperatures (material temperature range -40°F to +302°F).



LFB150C



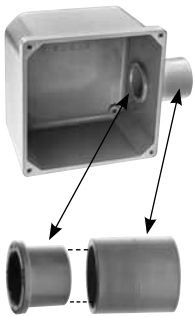
LFB150T

| Size (in) | Hub Size (in) | Product Code | OD (in) |
|---|---|---|---|
| 4 - 3/4" Threaded Hubs | LFB150C | 077250 | 4.475 |
| 4 - 3/4" Threaded Hubs | LFB150T* | 077251 | 4.475 |

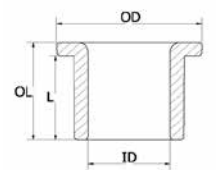
*LFB150T complete w/ 1/2" threaded hole in center of cover

## Junction Box Adapters

Junction Box Adapters, installed using a standard PVC coupling, offer a trouble-free and reliable PVC connection. In addition to providing a strong connection, the JBA also maximizes the interior box wiring space unlike the use of male adapters (TA) and facilitates wire pulling - the smooth internal edges limiting the potential for wire damage.



Junction Box Adapter | Standard PVC Coupling




Junction box and couplings sold separately

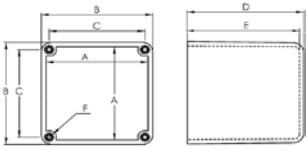
| Size (in.) | Part Number | Product Code | ID (in.) | OD (in.) | L (in.) | OL (in.) |
|---|---|---|---|---|---|---|
| 1/2 | JBA05 | 078276 | 0.62 | 1.20 | 0.81 | 0.95 |
| 3/4 | JBA07 | 078277 | 0.79 | 1.40 | 0.87 | 1.01 |
| 1 | JBA10 | 078278 | 1.00 | 1.58 | 0.89 | 1.06 |
| 1-1/4 | JBA12 | 078279 | 1.35 | 1.98 | 1.12 | 1.30 |
| 1-1/2 | JBA15 | 078280 | 1.59 | 2.37 | 1.10 | 1.33 |
| 2 | JBA20 | 078281 | 2.05 | 2.85 | 1.25 | 1.54 |
| 2-1/2 | JBA25 | 078282 | 2.45 | 3.34 | 1.68 | 1.99 |
| 3 | JBA30 | 078283 | 3.05 | 3.10 | 1.77 | 2.11 |
| 3-1/2 | JBA35 | 078284 | 3.54 | 4.50 | 2.09 | 2.41 |
| 4 | JBA40 | 078285 | 4.02 | 5.03 | 1.99 | 2.30 |

## Junction Boxes

Junction boxes are supplied with threaded brass inserts, brass screws, PVC gasketing and mounting feet. Larger sizes of fabricated junction boxes, are available upon request.



Kraloy PVC Junction Boxes are:
NEMA 1, 2, 3, 4, 4X, 6P, 12, 13
UL listed for wet locations




| Size (in) | Part Number | Part Number | A | B | C | D | E | F |
|---|---|---|---|---|---|---|---|---|
| | | | | | (inches) | | | |
| 4x4x2 | JB442 | 078242 | 3.71 | 4.05 | 3.42 | 2.15 | 1.99 | 8-32 |
| 4x4x4 | JB444 | 078243 | 3.65 | 4.00 | 3.43 | 4.17 | 4.02 | 8-32 |
| 4x4x6 | JB446 | 078244 | 3.65 | 4.02 | 3.43 | 6.23 | 6.00 | 8-32 |
| 5x5x2 | JB552 | 078245 | 4.66 | 5.00 | 4.50 | 2.00 | 1.85 | 8-32 |
| 6x6x4 | JB664 | 078246 | 6.08 | 6.41 | 5.80 | 4.20 | 4.00 | 8-32 |
| 6x6x6 | JB666 | 078247 | 6.02 | 6.38 | 5.80 | 6.00 | 6.21 | 8-32 |
| 8x8x4 | JB884 | 078248 | 8.06 | 8.60 | 7.95 | 4.18 | 3.97 | 1/4-20 |
| 8x8x7 | JB887 | 078249 | 8.10 | 8.60 | 7.95 | 7.24 | 7.00 | 1/4-20 |
| 12x12x4 | JB12124 | 078250 | 11.93 | 12.48 | 11.84 | 4.26 | 4.00 | 1/4-20 |
| 12x12x6 | JB12126 | 078251 | 11.97 | 12.36 | 11.80 | 6.25 | 5.99 | 1/4-20 |
| 12x12x8 | JB12128 | 078252 | 11.90 | 12.50 | 11.84 | 8.24 | 7.96 | 1/4-20 |

External mounting feet are supplied with all sizes except JB442 and JB552.

## Clear Conduit Cement

Choosing the correct cement is a vital link in a thermoplastic piping system. Although cement is one of the most critical components of a piping system, it is most often overlooked. Cements are formulated to best meet specific needs –for example, general-purpose cement is thinner and less aggressive in bonding than heavy-duty industrial cement. Use Clear Conduit Solvent Cement Medium Bodied to create solid, waterproof joints when connecting electrical PVC conduit pipe. The cement is approved for use with rigid PVC conduit such as Kraloy's Rigid PVC conduit & fittings, Kwikon ENT and fittings, and Duct & fittings.

## Average Number of Joints per Pint or Quart of Cement

| Nominal Pipe Size (inches) | Number of Joints per Pint | Number of Joints per Quart |
|---|---|---|
| 1/2 | 350 | 700 |
| 3/4 | 200 | 400 |
| 1 | 150 | 300 |
| 1-1/4 | 110 | 220 |
| 1-1/2 | 80 | 160 |
| 2 | 45 | 90 |
| 2-1/2 | 40 | 80 |
| 3 | 35 | 70 |
| 3-1/2 | 30 | 60 |
| 4 | 24 | 48 |
| 5 | 10 | 20 |
| 6 | 8 | 16 |

## Cements and Primers

| Size | Part Number | Product Code |
|---|---|---|
| Clear Regular Bodied Solvent Cement (Low VOC) | | |
| 1/2 Pint | CEMC05 | 078883 |
| Pint | CEMC10 | 078884 |
| Quart | CEMC20 | 078885 |
| Gallon* | CEMC80 | 078887 |
| Clear Medium Bodied Solvent Cement (Low VOC) | | |
| Pint | MBCC10 | 078798 |
| Quart | MBCC20 | 078799 |
| Grey Medium Bodied Solvent Cement | | |
| Pint | CEMG10 | 078083 |
| Quart | CEMG20 | 078096 |
| Cold Weather Solvent Cement | | |
| Pint | CWC10 | 078503 |
| Quart | CWC20 | 078886 |
| ENT Solvent Cement (Low VOC) | | |
| Quart | CCB100QT | 078186 |
| Clear Cleaner | | |
| Pint | - | 078174 |
| Quart | - | 078175 |
| Purple Primer (Low VOC) | | |
| Quart | PRMP20 | 078054 |
| Clear Primer (Low VOC) | | |
| Pint | PRMC10 | 178695 |
| Quart | PRMC20 | 178694 |

All cements and primers come with applicator caps except were indicated with *

# The RIGHT BOX for the RIGHT Environment



Kraloy JBox has expanded its offering to include 14” and 16” molded PVC junction boxes...the LARGEST available anywhere!

## FEATURES & BENEFITS

- NEMA 1,2,3R,4,4X,12,13
- 100% Nonmetallic
- Hand-close fastener tabs
- Back panels available for sizes 6” & up

Visit www.kraloyfittings.com



## Kraloy JBox

Introducing the Kraloy® JBox™, the Next Generation Junction Box. The original junction box is completely redesigned and features have been added to make this the easiest box to use. The 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.

NEMA Rated: 1, 2, 3R, 4, 4X, 6*, 6P*, 12, 13
*Applies only to 4" to 12" non-hinged covers

FEATURES & BENEFITS

### Hand-Close Fasteners

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

### Smooth Flat Cover

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

### 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

### Built-in Gridlines

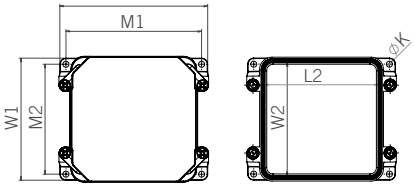
- Easy reference for drilling knockouts
- Makes conduit alignment a snap



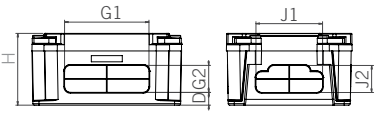
## Kraloy JBox

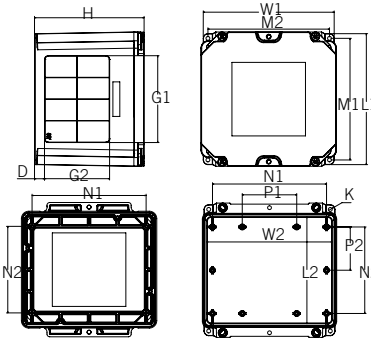
| Size inches | Part Number | Product Code | L1 | W1 | L2 | W2 | H |
|---|---|---|---|---|---|---|---|
| 4x4x2 | JBX442 | 278300 | 4.97 | 3.93 | 3.48 | 3.48 | 2.90 |
| 4x4x4 | JBX444 | 278301 | 4.90 | 3.86 | 3.48 | 3.48 | 4.89 |
| 5x5x2 | JBX552 | 278302 | 5.97 | 4.93 | 4.55 | 4.55 | 2.90 |
| 6x3x4 | JBX634 | 278303 | 3.90 | 5.86 | 2.48 | 5.48 | 4.89 |
| 6x6x4 | JBX664 | 278304 | 7.58 | 7.58 | 5.86 | 7.20 | 4.90 |
| 6x6x6 | JBX666 | 278305 | 7.51 | 7.51 | 5.79 | 7.13 | 6.90 |

| Size inches | Part Number | Product Code | L1 | W1 | L2 | W2 | H |
|---|---|---|---|---|---|---|---|
| 8x8x4 | JBX884 | 278306 | 9.58 | 9.58 | 7.86 | 9.20 | 4.90 |
| 8x8x7 | JBX887 | 278307 | 9.47 | 9.47 | 7.76 | 9.10 | 7.90 |
| 12x12x4 | JBX12124 | 278308 | 13.58 | 12.24 | 11.74 | 11.74 | 4.90 |
| 12x12x6 | JBX12126 | 278309 | 13.51 | 12.17 | 11.74 | 11.74 | 6.90 |
| 12x12x8 | JBX12128 | 278310 | 13.44 | 12.10 | 11.74 | 11.74 | 8.90 |
| 14x14x8 | JBX14148 | 278311 | 15.72 | 14.39 | 13.80 | 13.80 | 9.1 |
| 14x14x10 | JBX141410 | 278312 | 15.66 | 14.32 | 13.80 | 13.80 | 11.1 |
| 16x16x10 | JBX161610 | 278313 | 17.64 | 16.30 | 15.71 | 15.71 | 11.1 |




JBX442 - JBX666

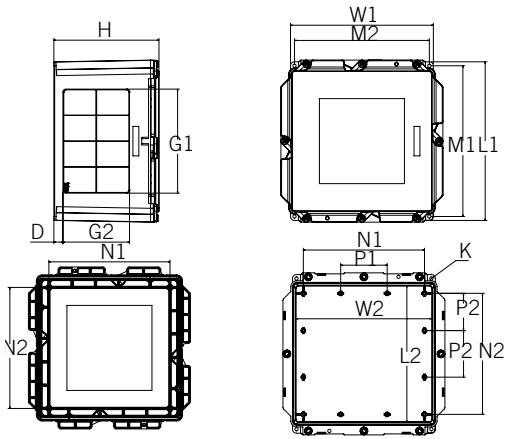



JBX884 - JBX887

| M1 inches | M2 | G1 | G2 | J1 | J2 | D | K |
|---|---|---|---|---|---|---|---|
| 4.48 | 3.44 | 2.41 | 1.09 | 1.72 | 1.09 | 0.51 | 0.24 |
| 4.41 | 3.37 | 2.22 | 2.97 | 1.59 | 2.97 | 0.59 | 0.24 |
| 5.48 | 4.44 | 3.41 | 1.09 | 2.69 | 1.09 | 0.51 | 0.24 |
| 3.41 | 5.37 | 1.22 | 2.72 | 3.42 | 2.72 | 0.59 | 0.28 |
| 6.90 | 6.90 | 4.47 | 2.47 | 4.47 | 2.47 | 0.59 | 0.28 |
| 6.83 | 6.83 | 4.22 | 4.47 | 4.22 | 4.47 | 0.72 | 0.28 |

| M1 | M2 inches | G1 | G2 | N1 | N2 | P1 | P2 | D | K |
|---|---|---|---|---|---|---|---|---|---|
| 8.90 | 8.90 | 6.47 | 1.97 | 8.25 | 6.26 | 3.94 | 3.13 | 0.59 | 0.28 |
| 8.80 | 8.80 | 6.22 | 4.65 | 8.25 | 6.26 | 3.94 | 3.13 | 0.75 | 0.28 |
| 12.90 | 11.56 | 9.28 | 2.03 | 10.26 | 10.25 | 3.94 | 3.13 | 0.56 | 0.28 |
| 12.83 | 11.49 | 9.03 | 3.78 | 10.26 | 10.25 | 3.94 | 3.13 | 0.67 | 0.28 |
| 12.76 | 11.42 | 8.81 | 5.64 | 10.26 | 10.25 | 3.94 | 3.13 | 0.76 | 0.28 |
| 15.1 | 13.70 | 11.05 | 5.69 | 12.25 | 10.26 | 3.94 | 3.16 | 0.83 | 0.33 |
| 15.0 | 13.64 | 11.05 | 7.55 | 12.25 | 10.26 | 3.94 | 3.16 | 0.83 | 0.33 |
| 17.0 | 15.60 | 12.55 | 7.55 | 14.25 | 12.26 | 4.71 | 4.09 | 0.83 | 0.33 |




JBX12124 - JBX161610

## Kraloy JBox with Hinged Cover



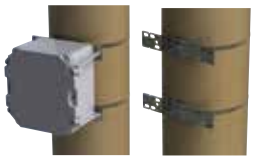
The Hinged Covers open up to 214° and are removable for complete and easy access to control devices and instrumentation. The Kraloy JBox Hinged Cover is NEMA 3R and 4X rated, ideally suited for indoor and outdoor industrial, MRO and OEM applications, and in wash-down environments. It is 100% nonmetallic and includes all the features that users have come to appreciate in the Kraloy JBox.

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

| Size inches | Part Number | Product Code | L1 | W1 | L2 | W2 | H |
|---|---|---|---|---|---|---|---|
| 8x8x4 | JBXH884 | 278400 | 9.58 | 9.58 | 7.86 | 9.2 | 4.9 |
| 8x8x7 | JBXH887 | 278401 | 9.47 | 9.47 | 7.86 | 9.2 | 7.9 |
| 12x10x6 | JBXH12106 | 278402 | 11.51 | 12.17 | 9.67 | 11.67 | 6.9 |
| 12x12x4 | JBXH12124 | 278403 | 13.58 | 12.24 | 11.74 | 11.74 | 4.9 |
| 12x12x6 | JBXH12126 | 278404 | 13.51 | 12.17 | 11.74 | 11.74 | 6.9 |
| 12x12x8 | JBXH12128 | 278405 | 13.44 | 12.10 | 11.74 | 11.74 | 8.9 |
| 14x14x8 | JBXH14148 | 278406 | 15.72 | 14.39 | 13.80 | 13.80 | 9.1 |
| 14x14x10 | JBXH141410 | 278407 | 15.66 | 14.32 | 13.80 | 13.80 | 11.1 |
| 16x16x10 | JBXH161610 | 278408 | 17.64 | 16.30 | 15.71 | 15.71 | 11.1 |

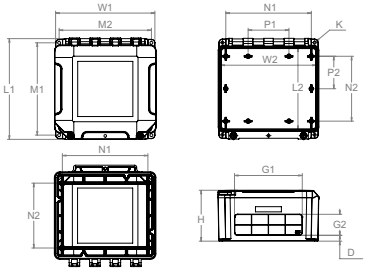
## Kraloy JBox Pole Mounting Kit

- Available in either galvanized or stainless steel (SS)
- Supplied as complete kits (sold separately)
- Works with wood, concrete, steel and composite poles

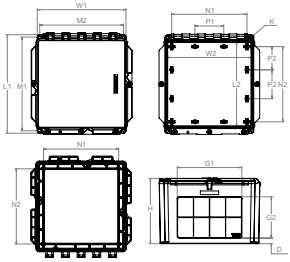


- Installs on round, square & octagonal poles up to 15”

| Part Number | Product Code | Fits JBox |
|---|---|---|
| PMK4-12 | 077940 | 4” to 12” |
| PMK4-12SS | 077946 | 4” to 12” |
| PMK14-16SS | 277086 | 14” to 16” |




JBXH884 - JBXH887

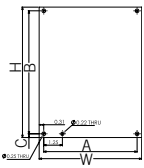



JBXH12106 - JBXH161610

| M1 | M2 | G1 | G2 | N1 | N2 | P1 | P2 | D | K |
|---|---|---|---|---|---|---|---|---|---|
| inches | | | | | | | | | |
| 8.9 | 8.9 | 6.47 | 1.97 | 8.25 | 6.26 | 3.94 | 3.13 | 0.59 | 0.28 |
| 8.9 | 8.9 | 6.22 | 4.65 | 8.25 | 6.26 | 3.94 | 3.13 | 0.75 | 0.28 |
| 10.8 | 11.49 | 8.03 | 3.78 | 10.25 | 8.26 | 3.94 | 2.16 | 0.67 | 0.28 |
| 12.9 | 11.56 | 9.28 | 2.03 | 10.26 | 10.25 | 3.94 | 3.13 | 0.56 | 0.28 |
| 12.83 | 11.49 | 9.03 | 3.78 | 10.26 | 10.25 | 3.94 | 3.13 | 0.67 | 0.28 |
| 12.76 | 11.42 | 8.81 | 5.64 | 10.26 | 10.25 | 3.94 | 3.13 | 0.76 | 0.28 |
| 15.10 | 13.70 | 11.05 | 5.69 | 12.25 | 10.26 | 3.94 | 3.16 | 0.83 | 0.33 |
| 14.98 | 13.64 | 11.05 | 7.55 | 12.25 | 10.26 | 3.94 | 3.16 | 0.83 | 0.33 |
| 17.0 | 15.60 | 12.55 | 7.55 | 14.25 | 12.26 | 4.71 | 4.09 | 0.83 | 0.33 |

## Kraloy JBox Back Panels

- Made of 14 gauge carbon steel
- White epoxy powder-coated finish
- Easy to cut and drill to mount devices






| Size | Part Number | Product Code | W | H | A | B | C |
|---|---|---|---|---|---|---|---|
| inches | | | | | | | |
| 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 |

## Performance Ratings

MAXIMUM TEMPERATURE RANGE:
Maximum ambient temperatures to 122ºF (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 Kraloy JBox is NEMA Rated 1, 2, 3R, 4, 4X, 6, 6P, 12, 13

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

CONDUCTORS:
Suitable for use with 90ºC Rated Conductors

## The RIGHT BOX for the RIGHT Environment



Tested to perform in demanding industrial environments, the Kraloy Hinged Cover JBox junction box has added features to make this the easiest box to use – no matter the situation.

FEATURE & BENEFITS

- Hinged Cover
- Fastener System
- Integrated Gasket
- Flat Cover Conditions
- Flat Cover
- Grid Lines
- Molded Panel Mounts



## SCEPTALIGHT: The Light That Lasts

Whether you're looking for economical outdoor lighting solutions, corrosion-resistant fixtures for punishing industrial environments or energy-saving LED,

Sceptalight fixtures are made from a glass-reinforced thermoplastic polyester resin, which 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. This thermoplastic design marries an unrivaled balance of strength, stiffness and toughness with all the benefits users appreciate of Scepter Rigid PVC Conduit and Kraloy Fittings – long life, easy servicing and high impact-resistance.

## Features and Benefits

Available in LED to suit a variety of applications

- Stable Construction
- Watertight Seal
- Indoor/Outdoor Use
- Durable, Impact Resistant
- Adaptable
- Long Life
- Corrosion Resistant



## Wet Locations

C22.2 No. 250
CSA Listed to UL 1598
Minimum 60ºC 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.



## Hazardous Locations

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

## Sceptalight LED



Introducing three 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, corrosive and hazardous* environments. They are certified to the latest LED light fixture standards and NEMA 4X approved.

* LVPF-LED-HAZ only

### Retrofit Option
Sceptalight LEDs can easily retrofit onto existing installations for increased energy savings

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

### 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
1,575 lumens of light output is produced with only 15 Watts of electricity

### Polycarbonate Globe
Impact and weather resistant for tough environments

## Sceptalight LED




### 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.

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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
1,575 lumens of light output is produced with only 15 Watts of electricity.

### POLYCARBONATE GLOBE
Impact and weather resistant for tough environments.

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

## Wet Location Use

| Ceiling Mount w/ Frosted Polycarbonate Globe | Part Number | Product Code | Hub Sizes |
|---|---|---|---|
| 15W LED Retrofit Light Engine | LLED-15 | 277120 | - |
| 15W LVPF Heavy Duty Light Fixture | LVPF-LED-HAZ | 277121 | 4 x 3/4" |
| 15W LVPE Utility Light Fixture | LVPE-LED | 277122 | 2 x 1/2" to 2 x 3/4" |

| Wall Mount Bracket (for WET Locations) | Part Number | Product Code |
|---|---|---|
| For wall mount fixtures select and order the appropriate style (wattage and globe) ceiling mount fixture from above and add LWB150 Wall Mount bracket | LWB150 | 077233 |

## Hazardous Locations

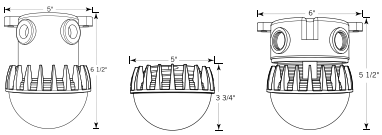
| Ceiling Mount w/ Frosted Polycarbonate Globe | Part Number | Product Code | Hub Sizes |
|---|---|---|---|
| 15W LVPF Heavy Duty Light Fixture | LVPF-LED-HAZ | 277121 | 4 x 3/4" |

All hazardous location fixtures are rated CLASS I, DIV 2 Groups A, B, C & D and CLASS II DIV 2 Groups F & G.

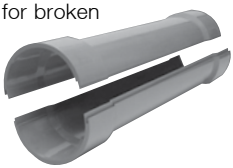
## Mounting Options

Sceptalight LED can be retrofit with Ceiling Mounts only.

Ceiling Mount Box with threaded hubs and integral mounting feet



## EPR Kits for Conduit Repair



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

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

EPR Kits are manufactured of high-impact and non-conductive PVC, ensuring a life long quality repair for your system.



| 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 | EPR65 | 077955 | 24 |

## Repair Kit for Conduit







- Available in sizes 1-1/4" to 6"
- Restores structural integrity of conduit and duct system
- Cost savings with fast and easy installation
- Special interlocking joints provide water-tight seal
- Ideal for the repair of electrical, telecommunication, utility and CATV applications



## Kwikon® ENT Savings for the Long Run

Noncorroding and nonconducting, Kwikon Electrical Nonmetallic Tubing and fittings are designed For The Long Run. Coiled in lengths up to 1,500 feet, the Kwikon system can span the longest run. Encased in concrete, concealed in walls or ceilings, Kwikon offers the best alternative to the labor-intensive, 10' lengths of metal conduit with its couplings and scrap.

Now you can use the Kwikon ENT system for communications (yellow), fire alarm and emergency (red), as well as power (blue) applications. It comes with color-coded stripes for easy identification on 1,500 ft., 1000 ft. and 750 ft. reels. The Kwikon ENT system is the right choice.

## Kwikon Fittings

Our unique Kwikon couplings, transition couplings and connectors are designed with six 360° locking tabs to ensure a secure concrete-tight connection. Should water-tight connections or transitions to Rigid PVC Conduit be required, Kwikon ENT may be joined to Rigid PVC Fittings using solvent cement. This practice of solvent welding ENT is acceptable as per NEMA TC-13 Section 3.1.2 "Joints." Normal application of solvent cement may be used inside the Rigid PVC socket while it is recommended to apply cement sparingly on the Kwikon ENT pipe end before assembly.

Time-consuming taping and solvent welding are eliminated. Kwikon fittings are permitted for use with all UL Listed and CSA certified ENT.

UL 514B,
UL 514C
UL 1653

NEMA TC-13

C22.2 No. 21127,
C22.2 No. 85, FT-4 Rated

## Ease of Installation

Engineered for the rugged day-to-day challenges of the construction industry, Kwikon has already established itself as a market leader. Requiring no special tools for bending or cutting, Kwikon is easily installed.



## Bending & Cutting

Kwikon's corrugated construction allows it to be easily bent by hand, no longer requiring special bending equipment traditionally required with metal conduit systems. When bending, ensure the radius of the curve is at least six times the internal diameter of the tubing.



## Kwikon Slab Boxes

Kwikon slab boxes are available with or without molded connectors. For boxes without molded connectors, preassembly is quick and simple using our snap-in male adapter. This provides a secure concrete-tight connection.



## Pre-Assembly of Metallic Boxes

Metal slab boxes can be quickly preassembled with Kwikon threaded male adapters with locknuts. All Kwikon connectors provide a concrete-tight connection.



## Installation in Sheer Walls, Interior Walls & Block Walls

Kwikon's flexibility, lightweight and ease of handling in metal, wood or block walls, combined with Kwikon connectors and couplings, substantially reduce time and labor needed to install electrical raceways.



## Use in Ceilings

Kwikon ENT is permitted for use in ceilings where not subject to physical damage and in buildings 3 storeys or more provided the ceiling provides a 15-minute finish rating.



## Exposed Work

ENT is permitted to be used for exposed work, where not subject to physical damage, in buildings not exceeding 3 floors above grade.

## Pulling Wire



Kwikon's interior corrugated surface greatly reduces the amount of friction while pulling conductors through long runs, even with 90° bends.

## Transition from ENT to EMT



Transition from ENT to EMT no longer requires solvent welding. Simply connect the Kwikon transition coupling to EMT with the set screw and snap on to ENT.

## NEC, Article 362




Rules governing the installation of Kwikon ENT are covered in the 2008 National Electrical Code, ANSI/NFPA Article 362. Kwikon ENT systems are recognized for use in places of assembly as referenced in Articles 518 & 520.

Kwikon ENT may be installed exposed, in areas not subject to physical damage where the building does not exceed three floors above grade [(362.10 (1)].

Kwikon ENT may be concealed in floors, walls, ceilings and suspended ceilings where a thermal barrier of material has a minimum of 15-minute finish rating.

NOTE: Kwikon ENT may penetrate fire-rated walls, floors or ceilings with a UL Listed or recognized through-penetration fire-stop system.

## Fire Resistive Construction & Wall Assemblies

Kwikon ENT tubing, Kwikon fittings and Kwikon slab boxes are approved for use in noncombustible 2 hr. and 4 hr. fire rated floor-ceiling assemblies. Normal weight concrete cover must be provided of a minimum of 2-1/8" for 2 hr. assemblies and 2-3/8" for 4 hr. assemblies. [ULI File: E 78276 and ULC File: R-19226].

Kwikon ENT and Kwikon fittings have been investigated for use in a nonload-bearing wall and partition assembly. The report (ULC CR2196) concludes the wall assemblies with Kwikon ENT and fittings will provide a 2 hr. resistance to the passage of flame and dangerous transmission of heat.

## Storage and Handling

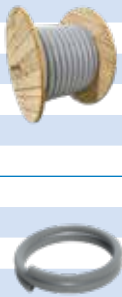
- NOT to be installed, stored, or handled in cold temperatures below -20°C (-4°F).
- NOT to be stored outside

## Dimensions

| Nominal Size | | Average O.D. | | Average I. D. | |
|---|---|---|---|---|---|
| inches | mm | inches | mm | inches | mm |
| 1/2 | 16 | 0.84 | 21.3 | 0.602 | 15.3 |
| 3/4 | 21 | 1.05 | 26.7 | 0.804 | 20.4 |
| 1 | 27 | 1.315 | 33.4 | 1.029 | 26.1 |
| 1-1/4 | 35 | 1.66 | 42.2 | 1.360 | 34.5 |
| 1-1/2 | 41 | 1.90 | 48.3 | 1.590 | 40.4 |
| 2 | 53 | 2.375 | 60.3 | 2.047 | 52.0 |
| 2-1/2 | 63 | 2.866 | 72.8 | 2.469 | 62.7 |

## Kwikon ENT - Blue Stripe

| | Size (in) | Length (ft) | Product Code | Weight lbs/pkg |
|---|---|---|---|---|
| Reel | 1/2 | 1500 | 012002 | 165 |
| | 3/4 | 1000 | 012011 | 158 |
| | 1 | 750 | 012021 | 160 |
| | 1-1/4 | 1000 | 012047 | 193 |
| | 1-1/2 | 750 | 012033 | 205 |
| | 2 | 500 | 012044 | 220 |
| | 2-1/2 | 325 | 012049 | 70 |
| Coil | 1/2 | 200 | 012031 | 20 |
| | 3/4 | 100 | 012040 | 12.5 |
| | 1 | 100 | 012041 | 17 |
| | 1-1/4 | 500 | 012046 | 76 |
| | 1-1/2 | 300 | 012032 | 50.5 |
| | 2 | 225 | 012043 | 69.5 |



Wrapped in plastic, coils are easily dispensed from the center.

## Kwikon ENT Reels - Color Coded

| Size (in) | Length (ft) | Product Code Red | Yellow | Blue | Weight lbs/reel |
|---|---|---|---|---|---|
| 1/2 | 1500 | 012305 | 012335 | 012002 | 165 |
| 3/4 | 1000 | 012307 | 012337 | 012011 | 158 |
| 1 | 750 | 012310 | 012340 | 012021 | 160 |
| 1-1/4 | 1000 | 012037 | 012038 | 012047 | 193 |
| 1-1/2 | 750 | 012035 | 012036 | 012033 | 205 |
| 2 | 500 | 012039 | 012042 | 012044 | 220 |

## 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 ENT – 10' Sticks with Blue Stripe



| Size (in) | Length (ft) | Product Code | Crate Qty |
|---|---|---|---|
| 1/2 | 10 | 012001 | 3,600 |
| 3/4 | 10 | 012010 | 2,200 |
| 1 | 10 | 012034 | 1,800 |

## Kwikon Coupling



| Size (in) | Part Number | Product 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 |
| 2-1/2 | KC40 | 089075 |

## Kwikon Connector



| Size (in) | Part Number | Product 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 |
| 2-1/2 | KTA40 | 089076 |

* KTA connectors are supplied with locknuts.

## Kwikon Snap-in Connector



| Size (in) | Part Number | Product Code |
|---|---|---|
| 1/2 | KTS10 | 089146 |
| 3/4 | KTS15 | 089147 |
| 1 | KTS20 | 089148 |

* Kwikon Snap-in Connectors are made for use with metal boxes only.

## Kwikon Transition Coupling



| Size (in) | Part Number | Product Code |
|---|---|---|
| 1/2 | KTC10 | 089012 |
| 3/4 | KTC15 | 089013 |
| 1 | KTC20 | 089014 |

All Kwikon ENT is UL Listed for use in walls, floor slabs and ceilings, as outlined in Article 362 of the 2008 NEC Code.

## Kwikon 90° Stub Down Fittings

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

| Size (in) | Part Number | Product Code |
|---|---|---|
| 1/2 | KT90-10 | 089060 |
| 3/4 | KT90-15 | 089059 |
| 1 | KT90-20 | 089058 |



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

| Size (in) | Part Number | Product Code |
|---|---|---|
| 1/2 | KK90-10 | 089055 |
| 3/4 | KK90-15 | 089056 |
| 1 | KK90-20 | 089057 |



## ENT Support Unit (ESU)

The ESU is designed to raise the tubing or conduit off the concrete form during the concrete pour maintaining a level raceway.

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



| Part Number | Product Code |
|---|---|
| ESU-10-35 | 089149 |

## Kwikon ENT Form Stubby

| Size (in) | Part Number | Product Code |
|---|---|---|
| 1/2 | KSTB-10 | 089330 |
| 3/4 | KSTB-15 | 089331 |
| 1 | KSTB-20 | 089332 |
| 1-1/4 | KSTB-25 | 089333 |



## Kwikon ENT Angled Form Stubby

| Size (in) | Part Number | Product Code |
|---|---|---|
| 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 |
| 2 | KASTB-35 | 089239 |
| 2-1/2 | KASTB-40 | 089240 |



## Kwikon ENT Multi-Link™ Form Stubby

| Size (in) | Part Number | Product Code |
|---|---|---|
| 1/2 | MSTB-10 | 089031 |
| 3/4 | MSTB-15 | 089026 |
| 1 | MSTB-20 | 089025 |





## Tapered Plugs

| Size (in) | Part Number | Product Code |
|---|---|---|
| 1/2 | TP10 | 089003 |
| 3/4 | TP15 | 089004 |
| 1 | TP20 | 089005 |



## Kwikon Cutter & Blades

| Description | Part Number | Product Code |
|---|---|---|
| Cutter (1/2"– 1") | CLC20 | 089066 |
| Blades for CLC20 | SSB | 089067 |
| Cutter (1/2" – 2") | CLC35 | 089068 |
| Blades for CLC35 | SB35 | 089069 |



## Kwikon Slab Boxes

Engineered to be rugged and durable, Kwikon slab boxes withstand construction's harshest environments. Designed by contractors for contractors, Kwikon slab boxes are available in two unique styles, with or without molded connectors. Now you can provide a complete, nonmetallic slab system. priced competitively with traditional steel mud boxes, Kwikon slab boxes increase labor efficiencies, reducing costs.

## Standard Slab Boxes

Slab Box w/ Molded Connectors – Vol 44 cu in.

| Hub Size (in) | Part Number | Product Code |
|---|---|---|
| 8x1/2 | SMB-H-10 | 089465 |
| 8x3/4 | SMB-H-15 | 089462 |
| 4x1/2, 4x3/4 | SMB-H-10/15 | 089458 |
| 4x1/2, 2x1/4, 2x1 | SMB-H-10/15/20 | 089466 |
| 4x3/4, 4x1 | SMB-H-15/20 | 089464 |



Slab Box w/o Molded Connectors - Vol 44 cu in.

| Knockout Size (in) | Part Number | Product Code |
|---|---|---|
| 8x1/2 | SMB-10 | 089460 |
| 4x1/2, 2x3/4, 2x1 | SMB-10/15/20 | 089461 |





## 4" Square Slab Box

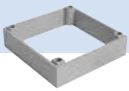
Slab Box w/ Molded Connectors - Vol 44 cu in.

| Hub Size (in) | Part Number | Product Code |
|---|---|---|
| 8x1/2 | SSBH-10 | 089467 |
| 8x3/4 | SSBH-15 | 089468 |
| 4x1/2, 2x3/4 | SSBH-10/15 | 089469 |
| 4x1/2, 2x3/4, 2x1 | SSBH-10/15/20 | 089474 |
| 4x3/4, 4x1 | SSBH-15/20 | 089475 |



## Slab Box Extension Ring

| Part Number | Product Code |
|---|---|
| SMBR | 089494 |



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

## Shallow Slab Box

Shallow Slab Box with Molded Connectors – Vol 36 cu in.

| Hub Size (in) | Part Number | Product Code |
|---|---|---|
| 8x1/2 | SMBS-H-10 | 089480 |
| 4x1/2 & 4x3/4 | SMBS-H-10/15 | 089481 |
| 8 x 3/4 | SMBS-H-15 | 089482 |
| 4x1/2, 2x3/4, 2x1 | SMBS-H-10/15/20 | 089483 |
| 4x3/4 & 4x1 | SMBS-H-15/20 | 089484 |



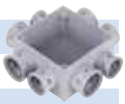
Shallow Slab Box w/o Molded Connectors - Vol 36 cu in.

| Hub Size (in) | Part Number | Product Code |
|---|---|---|
| 8x1/2 | SMBS-10 | 089490 |
| 4x1/2, 2x3/4, 2x1 | SMBS-10/15/20 | 089491 |

## ENT Mud Box

Mud Box with Molded Connectors (Hubs) – Vol 29 cu in.

| Connectors (in) | Part Number | Product Code |
|---|---|---|
| 8x1/2 | MBH-10 | 089022 |
| 8x3/4 | MBH-15 | 089018 |
| 4x1/2, 2x3/4, 2x1 | MBH-10/15/20 | 089019 |
| 4x1/2, 4x3/4 | MBH-10/15 | 089020 |
| 4x3/4, 4x1 knockouts | MBH-15/20 | 089021 |



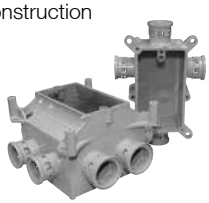
Mud Box with Knockouts – Vol 29 cu in.

| Connectors (in) | Part Number | Product Code |
|---|---|---|
| 4x1/2, 2x3/4, 2x1 | MB-10/15/20 | 089016 |
| 8x1/2" knockouts | MB-10 | 089017 |

## Concrete Wall Box

A Kwikon Concrete Wall Box arrives fully assembled with the hubs, protective poly film and single gang opening all installation ready.

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



3-1/2" Deep Box – Vol 38 cu in.

| Size (in) | Part Number | Product Code |
|---|---|---|
| 4x1/2, 4x3/4 | SVDB-H-10/15 | 089496 |
| 4x3/4, 4x1 | SVDB-H-15/20 | 089049 |
| 4x1/2, 2x3/4, 2x1 | SVDB-H-10/15/20 | 089052 |
| 8x3/4 | SVDB-H-15 | 089065 |

2" Shallow Box – Vol 15 cu in.

| Size (in) | Part Number | Product Code |
|---|---|---|
| 4x1/2 | SVSB-H-10 | 089054 |
| 4x3/4 | SVSB-H-15 | 089053 |



# The Industry Leader in PVC Conduit Fittings

## EPR

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



## Sceptalight

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



## KRALOY®

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



FITTINGS:

ENT fittings shall be manufactured of high impact PVC

ENT fittings requirements:

Provide fittings meeting the following requirements:

- Six locking tabs located every 60° proving 360° contact
- Locking tabs shall provide a pullout of a minimum 175 ft-lb force
- Concrete tight without the need for taping
- When transitioning to EMT conduit, the transition fitting shall have six locking tabs for ENT connection and set-screw connection for EMT

BOXES:

ENT boxes shall be manufactured of high impact PVC

ENT slab box and wall box requirements:

- Slab boxes shall be approved for the purpose and concrete-tight
- Slab boxes shall have eight (8) integrally molded ENT hub connectors with six locking tabs for ENT raceway connection

INSTALLATION

ENT raceways, fittings, boxes and accessories shall be installed in accordance with Article 362 of the 2008 National Electrical code.

Where ENT penetrates a fire rated wall, floor or ceiling assembly, an approved firestop system as listed in Underwriters Laboratories Building Materials Directory or other nationally recognized testing laboratory shall be used.

Not permitted for use where subject to ambient temperatures in excess of 122ºF (50ºC)

## Short Form Sample Specification

# General

### REFERENCES:

Standards referred to in this section are:

- UL 1653 Electrical Nonmetallic Tubing
- NEMA TC-13 Electrical Nonmetallic Tubing

# Products

### MANUFACTURERS:

Acceptable manufacturers are listed below:

- Electrical Nonmetallic Tubing - Kwikon by IPEX Electrical Inc.
- Electrical Nonmetallic Tubing Fittings - Kwikon by IPEX Electrical Inc.
- Electrical Nonmetallic Tubing Boxes - Kwikon by IPEX Electrical Inc.

All ENT tubing, ENT fittings, ENT boxes and accessories shall be manufactured by the same company so as to form a complete ENT system.

ENT systems shall be approved for use in fire resistance rated concrete floor-ceiling assemblies with fire resistance ratings up to 4 hours.

### RACEWAYS:

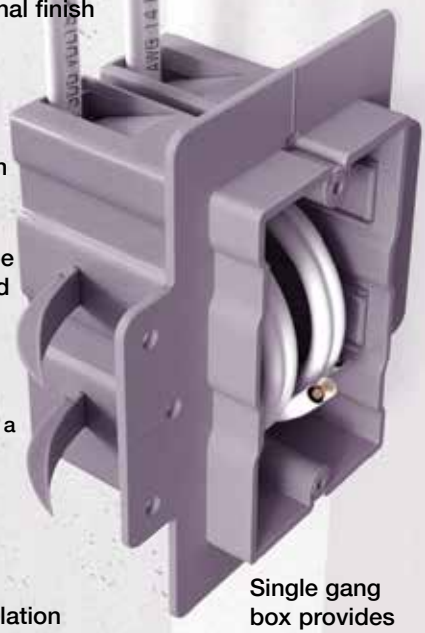
ENT raceway shall be color coded to indicate the wiring system. Blue stripe for power, red stripe for fire alarm/emergency systems and yellow stripe for data/communications.

ENT raceway shall be listed to UL1653 and manufactured in accordance with NEMA TC-13.

# INEXO™
THE ICF BOX

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



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

Single gang box provides 19 cubic inch capacity

## THE INNOVATIVE ELECTRICAL BOX
### FOR INSULATED CONCRETE FORM CONSTRUCTION

INEXO® Electrical Boxes - the only approved electrical box for ICF construction!

Available in commercial and residential styles.



## INEXO Boxes for ICF Construction

Until now there have been few choices when attempting to provide a truly professional electrical box solution for Insulated Concrete Form homes.

INEXO's patented design provides a 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.

### Residential (NMD Cable 14/2 – 10/3)

| Description | Part Number | Product Code |
|---|---|---|
| Single Gang | ICF-1-RL | 220000 |
| Double Gang | ICF-2-RL | 220001 |
| Triple Gang | ICF-3-RL | 220002 |



### Commercial (AC or NMD Cable 14/2 – 10/3)

| Description | Part Number | Product Code |
|---|---|---|
| Single Gang | ICF-1-CLU | 220009 |
| Double Gang | ICF-2-CLU | 220010 |
| Triple Gang | ICF-3-CLU | 220011 |



### Low Voltage Divider

| Description | Part Number | Product Code |
|---|---|---|
| Divider | LVD-RL | 220100 |
| For residential box only | | |



NOTES



## KWIKFLEX NMLT Type B on reels are UL Listed in all lengths

Available in sizes from 3/8" to 2", reels offer the end user the best possible continuous length in the market place. Its patented design offers a low profile coupling that when two conduits are connected it is hardly noticeable and allows the user to run the conduit at any length desirable. There is no longer any need for additional parts when making a long conduit run.

## Kwikflex - NMLT Flexible Conduit (Grey) Type B



| Size (in) | Product Code | Length (ft) |
|---|---|---|
| 3/8 | 165005 | 100 |
| 1/2 | 165007 | 100 |
| 3/4 | 165009 | 100 |
| 1 | 165011 | 100 |
| 1-1/4 | 165014 | 100 |
| 1-1/2 | 165017 | 50 |
| 1-1/2 | 165021 | 100 |
| 2 | 165020 | 50 |

## NMLT Flexible Conduit Reels (Grey) Type B

| Size (in) | Product Code | Length (ft) |
|---|---|---|
| 1/2 | 165082 | 1000 |
| 3/4 | 165085 | 700 |
| 1 | 165090 | 500 |



## NMLT Extra Flexible Tubing (Black)

Kwikflex Extra Flexible Nonmetallic Liquidtight conduit is listed. Suitable for indoor and outdoor use and resistant to oil, water and most chemicals, Kwikflex Extra Flexible offers an increased bending radius orver regular NMLT. The service temperature range of Kwikflex Extra Flexible is a broad -5ºF to 140ºF.

| Size (in) | Product Code | Length (ft) |
|---|---|---|
| 3/8 | 165055 | 100 |
| 1/2 | 165057 | 100 |
| 3/4 | 165059 | 100 |
| 1 | 165061 | 100 |
| 1-1/4 | 165064 | 100 |
| 1-1/2 | 165067 | 50 |
| 2 | 165070 | 50 |



## NMLT 90° Elbows (Grey)

| Size (in) | Part Number | Product code |
|---|---|---|
| 3/8 | LTB03/90 | 065306 |
| 1/2 | LTB10/90 | 065307 |
| 3/4 | LTB15/90 | 065310 |
| 1 | LTB20/90 | 065312 |
| 1-1/4 | LTB25/90 | 065314 |
| 1-1/2 | LTB30/90 | 065317 |
| 2 | LTB35/90 | 065320 |



## NMLT Straight Fittings (Grey)

| Size (in) | Part Number | Product code |
|---|---|---|
| 3/8 | LTS03 | 065326 |
| 1/2 | LTS10 | 065327 |
| 3/4 | LTS15 | 065330 |
| 1 | LTS20 | 065332 |
| 1-1/4 | LTS25 | 065334 |
| 1-1/2 | LTS30 | 065337 |
| 2 | LTS35 | 065340 |



## NMLT Screw-on 90° Elbows (Grey)

| Size (in) | Part Number | Product code |
|---|---|---|
| 1/2 | LTD10/90 | 065350 |
| 3/4 | LTD15/90 | 065352 |



## NMLT Screw-on Straight Fittings (Grey)

| Size (in) | Part Number | Product code |
|---|---|---|
| 1/2 | LTD10 | 065360 |
| 3/4 | LTD15 | 065362 |



## NMLT Screw-on Multi Angle Fittings (Grey)

| Size (in) | Part Number | Product code |
|---|---|---|
| 1/2 | LTMA10 | 065015 |
| 3/4 | LTMA15 | 065016 |



NOTES



## Vertical-Lok Spacers

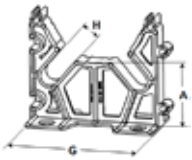
Kraloy conduit interlocking spacers are available in a variety of spacing dimensions for all conduit sizes. Our most popular sizes are offered with unique rebar holder slots for quick reinforcing bar installation and the bases have support holes for securing the base spacers to the trench bottom.

Kraloy conduit spacers manufactured with the rebar holder slots can accommodate a maximum rebar diameter of 5/8" for the 2" conduit size and 7/8" for all other conduit size spacers. All conduit spacers provide a 3" clearance from the trench base to the bottom of the first conduit.

Kraloy recommends the installation of a spacer every 5 to 6 feet along the raceway length to provide the proper and even support of the conduit assembly.



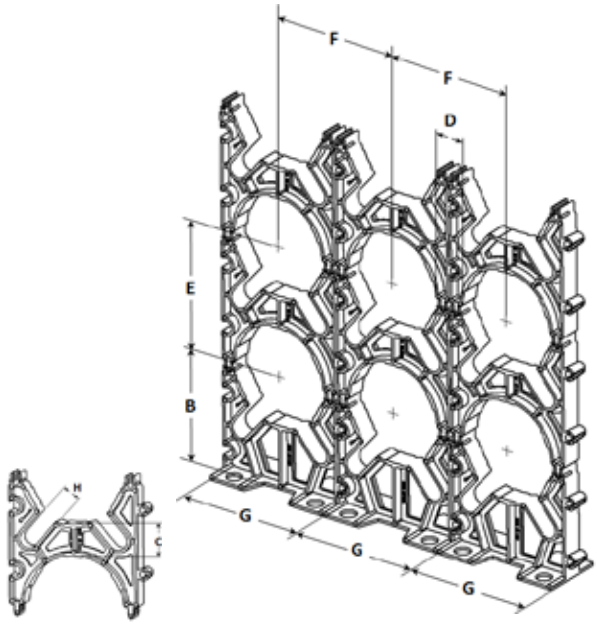





Base

| Size (inches) | Base VERTICAL-LOK SPACERS | | | | | |
|---|---|---|---|---|---|---|
| | Part Number | Product Code | A | B | H | G |
| 2 x 1-1/2 | BS3530 | 029566 | 3.04 | 4.25 | 0.63 | 3.94 |
| 2 x 2 | BS3535 | 029567 | 3.04 | 4.25 | 0.63 | 4.47 |
| 2 x 3 | BS3545 | 029568 | 3.04 | 4.25 | 0.63 | 5.44 |
| 3 x 1-1/2 | BS4530 | 029585 | 3.00 | 5.84 | 0.88 | 5.12 |
| 3 x 2 | BS4535 | 029570 | 2.97 | 4.78 | 0.88 | 5.63 |
| 3 x 3 | BS4545 | 029571 | 3.00 | 4.81 | 0.88 | 6.63 |
| 4 x 1 | BS5520 | 029586 | 3.00 | 5.32 | 0.88 | 5.63 |
| 4 x 1-1/2 | BS5530 | 029573 | 3.00 | 5.31 | 0.88 | 6.13 |
| 4 x 2 | BS5535 | 029574 | 3.06 | 5.38 | 0.88 | 6.63 |
| 4 x 3 | BS5545 | 029575 | 3.06 | 5.38 | 0.88 | 7.63 |
| 5 x 1-1/2 | BS6030 | 029587 | 3.00 | 5.84 | 0.88 | 7.37 |
| 5 x 2 | BS6035 | 029577 | 3.13 | 5.94 | 0.88 | 7.88 |
| 5 x 3 | BS6045 | 029578 | 3.19 | 6.00 | 0.88 | 8.69 |
| 6 x 1-1/2 | BS6530 | 029579 | 3.02 | 6.38 | 0.88 | 8.21 |
| 6 x 2 | BS6535 | 029580 | 3.02 | 6.38 | 0.88 | 8.72 |
| 6 x 3 | BS6545 | 029581 | 3.00 | 6.38 | 0.88 | 9.75 |
| * 8 x 2 | BS8035 | 029293 | 3.00 | 7.25 | * | 10.80 |

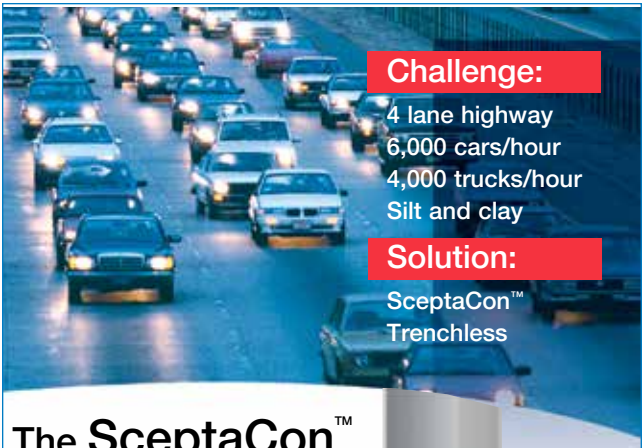
* Do not have rebar slots




Intermediate

| Intermediate VERTICAL-LOK SPACERS | | | | | | | |
|---|---|---|---|---|---|---|---|
| Part Number | Product Code | C | D | E | F | G | H |
| IS3530 | 029550 | 1.52 | 1.50 | 3.95 | 3.95 | 3.94 | 0.63 |
| IS3535 | 029551 | 2.03 | 2.06 | 4.48 | 4.48 | 4.47 | 0.63 |
| IS3545 | 029552 | 3.00 | 3.03 | 5.45 | 5.45 | 5.44 | 0.63 |
| IS4530 | 029582 | 1.50 | 1.45 | 5.15 | 5.12 | 5.12 | 0.88 |
| IS4535 | 029554 | 2.00 | 1.88 | 5.64 | 5.63 | 5.63 | 0.88 |
| IS4545 | 029555 | 3.00 | 2.88 | 6.66 | 6.63 | 6.63 | 0.88 |
| IS5520 | 029583 | 1.00 | 1.03 | 5.66 | 5.63 | 5.63 | 0.88 |
| IS5530 | 029557 | 1.50 | 1.39 | 6.13 | 6.14 | 6.13 | 0.88 |
| IS5535 | 029558 | 2.00 | 1.88 | 6.64 | 6.63 | 6.63 | 0.88 |
| IS5545 | 029559 | 3.00 | 2.90 | 7.64 | 7.64 | 7.63 | 0.88 |
| IS6030 | 029584 | 1.68 | 1.69 | 7.37 | 7.37 | 7.37 | 0.88 |
| IS6035 | 029561 | 2.25 | 2.15 | 7.89 | 7.89 | 7.88 | 0.88 |
| IS6045 | 029562 | 3.06 | 2.96 | 8.70 | 8.70 | 8.69 | 0.88 |
| IS6530 | 029563 | 1.50 | 1.38 | 8.24 | 8.22 | 8.21 | 0.88 |
| IS6535 | 029564 | 2.00 | 1.89 | 8.74 | 8.73 | 8.72 | 0.88 |
| IS6545 | 029565 | 3.00 | 2.90 | 9.77 | 9.77 | 9.75 | 0.88 |
| * IS8035 | 029294 | 2.06 | 2.00 | 10.58 | 10.80 | 10.80 | * |

* Do not have rebar slots



**Challenge:**

4 lane highway
6,000 cars/hour
4,000 trucks/hour
Silt and clay

**Solution:**

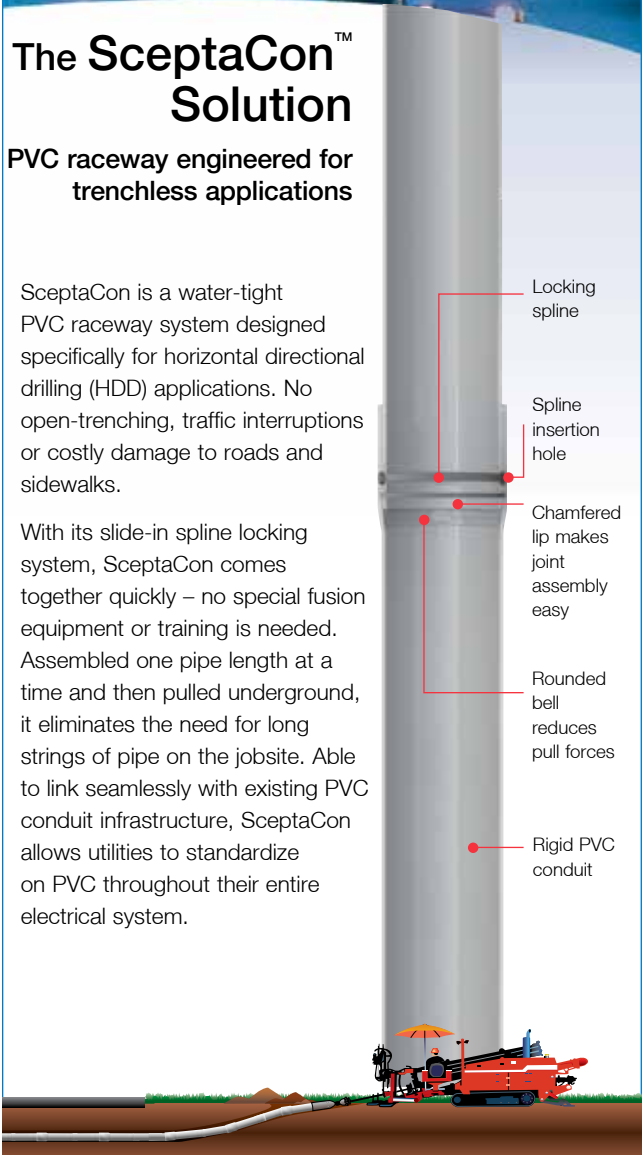
SceptaCon™
Trenchless

# The SceptaCon™ Solution

## PVC raceway engineered for trenchless applications

SceptaCon is a water-tight PVC raceway system designed specifically for horizontal directional drilling (HDD) applications. No open-trenching, traffic interruptions or costly damage to roads and sidewalks.

With its slide-in spline locking system, SceptaCon comes together quickly – no special fusion equipment or training is needed. Assembled one pipe length at a time and then pulled underground, it eliminates the need for long strings of pipe on the jobsite. Able to link seamlessly with existing PVC conduit infrastructure, SceptaCon allows utilities to standardize on PVC throughout their entire electrical system.





## SceptaCon™ Trenchless Raceway Systems

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

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.

Its unique spline-lock snaps into a recessed opening, ensuring the spline won't get snagged during pull-through. SceptaCon's rounded bell shoulders slide easily past roots, rocks and other debris in the borehole, ensuring a smooth, easy installation. And because SceptaCon is made to the same high standards as our Kraloy rigid PVC conduit, contractors and electrical utilities can be assured of the same level of quality - above ground and below.

## No Cementing or Lubrication

SceptaCon's slide-in locking system and pre-installed, pre-lubricated gaskets allow contractors to create a water-tight seal by hand in seconds.



## Outperforms Other PVC Products

SceptaCon's unique spline-lock snaps into a recessed opening, ensuring the spline won't get snagged during pull-through. SceptaCon's rounded bell shoulders slide easily past roots, rocks and other debris in the borehole, ensuring a smooth, easy installation.

## No Fusion Required

Because SceptaCon's 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.

## 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.

## Easy to Handle

SceptaCon is available in convenient 10' and 20' lengths that are light-weight, easy to handle and no problem to work with in all types of weather.

## SceptaCon™ Raceway

| Dimensions (in) | Product Code 10' | Product Code 20' |
|---|---|---|
| 2 | - | 106421 |
| 3 | - | 106431 |
| 4 | 106440 | 106441 |
| 5 | 106450 | 106451 |
| 6 | 106460 | 106461 |

NOTES

NOTES

For more information on Kraloy Fittings



Fax this form to (905) 844-1504

or



E-mail to marketing@kraloyfittings. com

PLEASE PRINT

Company

Name

Title

Address

City State Zip

Phone ext.

Fax E-mail / Website

## This is a:

☐ Home Address ☐ Business Address ☐ Jobsite Address

## Business Type: (check 1 or 2 that best apply)

### Company Classification:

☐ Distributor/Wholesaler
☐ Engineering Firm
☐ Contractor
☐ Government
☐ OEM - Products Manufactured:_____
☐ Other:_____

SIC or industry _____

### My primary markets are (check all that apply):

☐ Commercial
☐ Residential
☐ Industrial
☐ Other:_____
☐ Utility
☐ OEM
☐ Institutional

KRALOY®

## CUSTOMER SERVICE CENTER

1055 Wilton Grove Road
London, Ontario N6N 1C9

Tel: (519) 681-2140
Toll Free: (800) 265-1815
Fax: (519) 681-2156

### kraloyfittings.com

Kraloy has been an industry leader for over 40 years supplying the electrical trade with a comprehensive offering of nonmetallic PVC fittings. Kraloy offers adapters, couplings, elbows, access fittings, boxes, cover plates, expansion fittings and spacers – virtually any fitting required to complete the PVC conduit system.

Check out the full Kraloy product offering on our web site www.kraloyfittings.com or contact us directly for information.

Only when you specify Kraloy by name are you guaranteed The Fitting Choice.

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