



## **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.
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; 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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## Kraloy Electrical Pocket Pro

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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.



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.









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.



Depend on Kraloy® for quality products and 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.

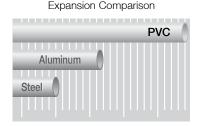
Average Number of Joints per Pint or Quart of Cement

Nominal Pipe Size (Inches)		# of Joints per Quart	Nominal Pipe Size (Inches)		# 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.

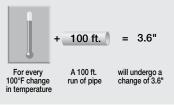
A general rule of thumb is that for every 100°F temperature change in a 100 ft. run of PVC conduit, the conduit will undergo 3.6" of expansion or contraction.



#### 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 ioints alignment of

Rule of Thumb for PVC Expansion



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.

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.

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

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

#### Example:

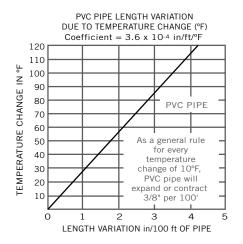
Assume a 200 ft. run of conduit is to be installed in an unheated building where the temperature will vary from 10°F in the winter to 110°F in the summer. The installation will be carried out when the temperature is 60°F.

Using step 1 we determine the number of joints required.

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

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

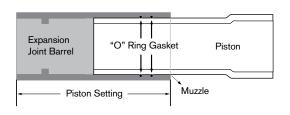
Note: Always round off to the next highest number. Therefore in this example we see that two expansion joints are necessary.



#### 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:

Piston setting = 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
	14.90	8
5	26.00	8
6	26.00	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.

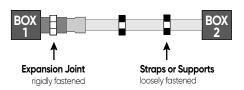
## TWO EXPANSION JOINTS (ALTERNATIVE) FIGURE 3

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.

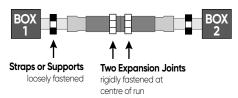
## THREE OR MORE EXPANSION JOINTS FIGURE 4

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.

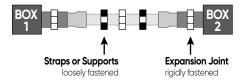
#### FIGURE 1



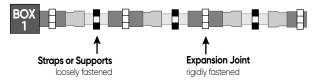
#### FIGURE 2



#### FIGURE 3



#### FIGURE 4







#### 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

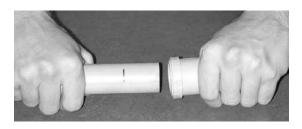
Three common mistakes are:

- 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

Nonmetallic Outlet Boxes, Flush-Device UL514C

Boxes & Covers

UL651 Schedule 40 & 80 Rigid PVC Conduit

## Canadian Standards Association

Canadian Standards As	SSOCIATION
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

#### National Electrical Manufacturers Association

CSA C22.2 No. 227.2

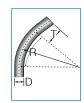
NEMA TC3	PVC Fittings for use with Rigid PVC Conduit & Tubing
NEMA TC2	Electrical Plastic Tubing (EPT) & Conduit (EPC-40 & EPC-80)
NEMA TC9	Fittings for ABS & PVC Plastic Utilities Duct for Underground Installation
NEMA 250	Enclosures for electrical Equipment (1000 Volts Maximum)

Flexible Liquid-Tight Nonmetallic Conduit



## Schedule 40 Standard Radius 90° Elbows

Juli Idai	a Haalao oo	LIDOVVO			
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



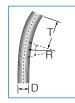
## Schedule 40 Standard Radius 45° Flhows

Stariuai	u naulus 45	LIDOWS			
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

Otal Idal	a Haalao oo	LIDOVVO			
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

naulus	90 Dell Lliu L	IDOM2			
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



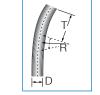
Standard Radius 45° Bell End Elbows

otal laal	a i ladido 40	DOII LITO			
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 30° Elbows

Ottal lata	a madiao oo	LIDOTTO			
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



Schedule 80 Standard Radius 45° Elbows

Ottariadai	a riadido io	LIDOVVO			
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



Conduit Elbows Schodula 10 Special Radius (Plain End)

Schedule 40 Special Radius (Plain End)								
Size inches	Degree Bend	18" Radius Product Code	24" Radius Product Code		30" Radius Product Code	36" Radius Product Code	48" Radius Product Code	60" Radius Product Code
1	90 45 30 22-1/2	068702 068802 068902 078853	068722 068822 068922 078035		068742 068842 068942 #	068762 068862 068962 278288	068782 068882 068982 #	# # #
1-1/4	90 45 30 22-1/2	068703 068803 068903 068513	068723 068823 068923 078667		068743 068843 068943 #	068763 068863 068963 #	068783 068883 068983 #	# # #
1-1/2	90 45 30 22-1/2	568704 068804 068904 068523	068724 068824 068924 078668		068744 068844 068944 #	068764 068864 068964 #	068784 068884 068984 #	# # #
2	90 45 30 22-1/2	068705 068805 068905 068514	068725 068825 068925 068547		068745 068845 068945 #	068765 068865 068965 068515	068785 068885 068985 178065	068113 # # #
2-1/2	90 45 30 22-1/2	068706 068806 068906 068524	068726 068826 068926 078275		068746 068846 068946 #	068766 068866 068966 278229	068786 068886 068986 #	178168 # # #
3	90 45 30 22-1/2	068707 068807 068907 068516	068727 068827 068927 068525		068747 068847 068947 #	068767 068867 068967 068517	068787 068887 068987 068526	068114 # # #
3-1/2	90 45 30 22-1/2	Use Std. Sch. 40 Radius (15")	068728 068828 068928 068130		068748 068848 068948 #	068768 068868 068968 #	068788 068888 068988 #	178169 # # #
4	90 45 30 22-1/2	Use Std. Sch. 40 Radius (16")	068729 068829 068929 068518		068749 068849 068949 068519	068769 068869 068969 068520	068789 068889 068989 068521	068112 078011 # 068111
5	90 45 30 22-1/2	Use Std. Sch.	40 Radius (24")		068751 068851 068951 068529	068771 068871 068971 068522	068791 068891 068991 078485	068115 078615 068132 #
6	90 45 30 22-1/2	Use Std. Sch.	. 40 Radius (30")			068772 068872 068972 068528	068792 068892 068992 068527	078937 078220 178255 078221
8	90 45 22-1/2 11-1/4	- - -	- - -		- - -	- - -	068052 068082 068081 068080	# # #

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

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

#### Conduit Elbows

## Schadula 10 Special Radius (Rallad One End)

Schedule 40 Special Radius (Belied One End)								
Size inches	Degree Bend	18" Radius Product Code		24" Radius Product Code	36" Radius Product Code	48" Radius Product Code		
0	90	068014		068030	068054	068078		
2	45	068015		068033	068055	068079		
2-1/2	90	068016		068034	068056	068086		
2-1/2	45	068017		068035	078508	068090		
0	90	068018		068036	068058	068091		
3	45	068019		068037	078513	068092		
3-1/2	90	Use Std. Sch. 40		068038	068070	068093		
3-1/2	45	Radius (15")		068039	068071	068094		
4	90	Use Std. Sch. 40		068050	068072	068095		
4	45	Radius (16")		078945	068073	068096		
E	90	Llos Ctd Cob 40 Doding (04"			068074	068097		
5	45	Use Std. Sch. 40 Radius (24"			068075	068098		
6	90	Llos Std. Sob. 40 Radius (20"			068076	068099		
б	45	Use Std. Sch. 40 Radius (30"	)		068077	068106		

- Note: 1) # indicates available on request. Material is noncancelable 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         30" Radius Product Code         36" Radius Product Code         48" Radius Product Code           1         90         068710         078374         #         068049         068541           45         #         #         #         178194         #         #           1-1/4         45         #         068735         #         #         #         068542           45         #         078114         #<	Ochleddie de Opedia Hadida (Hairi Eria)							
1       45       #       #       #       178194       #         1-1/4       90       068711       068735       #       #       068542         1-1/2       45       #       078114       #       #       #       #         1-1/2       90       068712       078854       #       068545       068543         45       178104       078113       #       #       #       #         2       90       068713       068736       078910       068775       068544         2-1/2       90       068714       068737       078524       068776       068548         2-1/2       90       068714       068737       078524       068776       068548         3       90       068715       068738       078525       068777       068794         4       90       068716       068739       068549       068778       068795         4       90       068716       068533       #       068537       078911         5       90       Use Standard Schedule 80 Radius       078373       068779       068546         6       90       Use Standard Schedule 80 Radius								
1-1/4	1	90	068710	078374		#	068049	068541
1-1/4	ı	45	#	#		#	178194	#
1-1/2 90 068712 078854 # 068545 068543   1-1/2 45 178104 078113 # # # # # # # # # # # # # # # # # #	4 4/4	90	068711	068735		#	#	068542
1-1/2 45 178104 078113 # # # # 2 90 068713 068736 078910 068775 068544 2 45 # 068530 # 068534 078198 2-1/2 90 068714 068737 078524 068776 068548 45 # 068531 # 068535 # 3 90 068715 068738 078525 068777 068794 45 # 068532 # 068536 # 4 90 068716 068739 068549 068778 068795 45 # 068533 # 068537 078911 5 90 Use Standard Schedule 80 Radius 078373 068779 068796 45 90 Use Standard Schedule 80 Radius 078373 068538 068546	1-1/4	45	#	078114		#	#	#
45 178104 078113 # # # #  2 90 068713 068736 078910 068775 068544  45 # 068530 # 068534 078198  2-1/2 90 068714 068737 078524 068776 068548  45 # 068531 # 068535 #  3 90 068715 068738 078525 068777 068794  45 # 068532 # 068536 #  4 90 068716 068739 068549 068778 068795  45 # 068533 # 068537 078911  5 90 Use Standard Schedule 80 Radius (24") # 068538 068546  6 Use Standard Schedule 80 Radius (30")	1 1/0	90	068712	078854		#	068545	068543
2     45     #     068530     #     068534     078198       2-1/2     90     068714     068737     078524     068776     068548       45     #     068531     #     068535     #       3     90     068715     068738     078525     068777     068794       4     45     #     068532     #     068536     #       4     90     068716     068739     068549     068778     068795       45     #     068533     #     068537     078911       5     90     Use Standard Schedule 80 Radius (24")     078373     068779     068796       6     90     Use Standard Schedule 80 Radius (24")     #     068538     068546	1-1/2	45	178104	078113		#	#	#
2-1/2 90 068714 068737 078524 068776 068548 45 # 068531 # 068535 # 068777 068794 45 # 068532 # 068535 # 068536 # 068546 # 068536 # 068536 # 068546 # 068536 # 068546 # 068536 # 068546 # 068536 # 068546 # 068536 # 068546 # 068536 # 068546 # 068536 # 068546 # 068536 # 068546 # 068536 # 068546 # 068536 # 068546 # 068536 # 068546 # 068546 # 068546 # 068546 # 068546 # 068540 # 068546 # 06856 # 06856 # 06856 # 06856 # 06	0	90	068713	068736		078910	068775	068544
2-1/2 45 # 068531 # 068535 #  3 90 068715 068738 078525 068777 068794  45 # 068532 # 068536 #  4 90 068716 068739 068549 068778 068795  45 # 068533 # 068537 078911  5 90 Use Standard Schedule 80 Radius 078373 068779 068796  45 (24") # 068538 068546  6 90 Use Standard Schedule 80 Radius (30")	2	45	#	068530		#	068534	078198
45 # 068531 # 068535 #  3 90 068715 068738 078525 068777 068794  45 # 068532 # 068536 #  4 90 068716 068739 068549 068778 068795  45 # 068533 # 068537 078911  5 90 Use Standard Schedule 80 Radius 078373 068779 068796  45 (24") # 068538 068546  6 90 Use Standard Schedule 80 Badius (30")	0.1/0	90	068714	068737		078524	068776	068548
3     45     #     068532     #     068536     #       4     90     068716     068739     068549     068778     068795       45     #     068533     #     068537     078911       5     90     Use Standard Schedule 80 Radius (24")     078373     068779     068796       6     90     Use Standard Schedule 80 Radius (30")     #     068538     068546	2-1/2	45	#	068531		#	068535	#
45 # 068532 # 068536 #  90 068716 068739 068549 068778 068795  45 # 068533 # 068537 078911  5 90 Use Standard Schedule 80 Radius 078373 068779 068796  45 (24") # 068538 068546  068540 068797	9	90	068715	068738		078525	068777	068794
4 45 # 068533 # 068537 078911  90 Use Standard Schedule 80 Radius 078373 068779 068796 45 (24") # 068538 068546  90 Use Standard Schedule 80 Radius (30")	S	45	#	068532		#	068536	#
45 # 068533 # 068537 078911 90 Use Standard Schedule 80 Radius 078373 068779 068796 45 (24") # 068538 068546 90 Use Standard Schedule 80 Radius (30") 068540 068797	4	90	068716	068739		068549	068778	068795
5 45 (24") # 068538 068546 90 Use Standard Schedule 80 Badius (30") 068540 068797	4	45	#	068533		#	068537	078911
45 (24") # 068538 068546 90 Use Standard Schedule 80 Badius (30") 068540 068797	5	90	Use Standard Sc	hedule 80 Radius		078373	068779	068796
6 Use Standard Schedule 80 Badius (30")	3	45	(24	4")		#	068538	068546
45 Ose Staridard Scriedule 60 Hadius (50 ) 068539 078966	6	90	Lloo Standard C	abadula 90 Dadius	(20")		068540	068797
	O	45	use standard s	ci ledule 80 Radius	s (30 )		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	C
1-1/2	CP15	078005	0.08	2.18	2.26	T
2	CP20	078006	0.10	2.68	2.39	AB
2-1/2	CP25	078007	0.17	3.24	3.12	1
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	L
3	5EC30	078051	6.0	
4	5EC40	178375	7.0	
5	5EC50	178376	7.5	
6	5EC60	077106	11.0	
5	5EC60	277093	7.5	
6	5EC65	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	T 2222
4	REC40	278619	8.00	4.51	4.52	Ď
5	REC50	278620	8.00	5.58	5.60	<u> </u>
6	REC60	278621	8.00	6.65	6.67	l— L →l

## 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	0 0
1-1/2	MHU30	077963	
2	MHU35	077965	6(-d)
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	TL
1-1/2	TA15	078088	1.98	0.80	OL
2	TA20	078089	2.07	0.81	
2-1/2	TA25	078090	2.48	0.82	1111111
3	TA30	078091	2.58	0.77	Trints:
3-1/2	TA35	078092	2.82	0.92	MILLI
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	OD
1	MEB10	078290	1.75	1.12	
1-1/4	MEB12	078291	2.09	1.20	OL I
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	-	-	

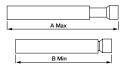
## End Caps

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	B
1-1/4	EC12	078317	2.01	1.28	
1-1/2	EC15	078318	2.12	1.50	А
2	EC20	078319	2.45	1.81	A
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	A Commence of the Commence of
3 - 3-1/2	UTP30	078425	HAMBERREE
4	UTP40	078427	A STREET, SERVICE BY
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	078339	34.00	26.00
6	EJ60	078340	34.00	26.00



Size (in.)	Part Number	Product Code	
1/2	OPEJ05	078240	
3/4	OPEJ07	078209	
1	OPEJ10	078208	
1-1/4	OPEJ12	078204	0
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	4
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	4
1 x 1/2	1826	077315	V
1 x 3/4	1827	077316	



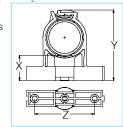
## Pipe Straps, PVC Coated Steel 2 Hole

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

## Conduit Clamps & Spacers

Size (in.)	Part Number		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	-		_	

<sup>\*</sup> CCS-B are sold individually, two pieces are required to create one base unit.





#### Pull Elbow

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

#### Access Fitting

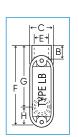


## Access Fitting Dimensions (except Type "LB")

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)	l (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	_
	11.0	1.0		0.0	0.0	

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

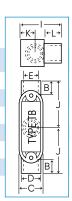
Size (in)	Part Number	Product Code	
1/2	LL05	078152	
3/4	LL07	078153	+E+
1	LL10	078154	BI
1-1/4	LL12	078155	G J
1-1/2	LL15	078156	
2	LL20	078157	
2-1/2	LL25	078158	
3	LL30	078159	
3-1/2	LL35	078160	
4	LL40	078161	

Type 'T' Access Fittings

Size (in)	Part Number	Product Code		
1/2	T05	078176		l←D→l
3/4	T07	078177	-	T BI
1	T10	078178	(2)	i A
1-1/4	T12	078179		<u></u>
1-1/2	T15	078180	100	
2	T20	078181		
2-1/2	T25	078182	3	↓ BÎ
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		kE→	
	1/2	E05	078128	470	IB I	$\overline{}$
	3/4	E07	078129	Chin I		
	1	E10	078130		PE E	F
	1-1/4	E12	078131		≥	
	1-1/2	E15	078132			
	2	E20	078133	0	⊢C→	
	2-1/2	E25	078134			

## Type 'C' Access Fittings

Size (in) Part Number Product Code  1/2					
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	Size (in)	Part Number	Product Code		[∷] <sub>B</sub> ↑↑
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	1/2	C05	078116		
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	3/4	C07	078117		[ \(\sigma\) K \(\frac{1}{2}\)
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	1	C10	078118		<del> </del>
2 C20 078121 2-1/2 C25 078122 3 C30 078123 3-1/2 C35 078124	1-1/4	C12	078119	1	
2 C20 078121 2-1/2 C25 078122 3 C30 078123 3-1/2 C35 078124	1-1/2	C15	078120		<sub>0</sub>
2-1/2 C25 078122 3 C30 078123 3-1/2 C35 078124	2	C20	078121		KPE   4
3 C30 078123 3-1/2 C35 078124 □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□	2-1/2	C25	078122		
0 1/2 000 0/0124 ←C→	3	C30	078123		1100 2011 1
4 040 070105	3-1/2	C35	078124		FD→
4 040 078125	4	C40	078125		

## Type 'LR' Access Fittings

Size (in)	Part Number	Product Code		
1/2	LR05	078164		ŀE→
3/4	LR07	078165		↑ IBT
1	LR10	078166		r G
1- 1/4	LR12	078167		F LR
1-1/2	LR15	078168	and the same	
2	LR20	078169		
2-1/2	LR25	078170	0	←C →kB→
3	LR30	078171		, , ,
3-1/2	LR35	078172		
4	LR40	078173		

#### Service Entrance Fittings

Size (in.)	Part Number	Product Code	
1/2	MH05	078302	00
3/4	MH07	078303	0
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

#### **Gromment Dimensions**

Grommet	from	to	Grommet	from	to
30	Ø = .240"	Ø = .315"	<b>90</b>	Ø = .420"	Ø = .515"
<b>30</b>	Ø = .320"	Ø = .415"	<b>90</b>	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



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

Weatherproof	Covers - Single G	ang		
VPT15/10	Description	(in)	Part Number	Product Code
VSC15/10	Plunger-style Switch	Cover	VPT15/10	078899
	Toggle Switch Cove	r	VSC15/10	078900
WTG15/1	Grey Toggle Switch	Cover	WTG15/10	078903
WDR15/10 RWDR15/10	Grey Duplex Recept	acle	WDR15/10	078901
TWO TO	White Duplex Recep	tacle	RWDR15/10	078843
WGF15/10 RWGF15/10	Grey Ground Fault Receptacle		WGF15/10	078902
	White Ground Fault Receptacle	<b>:</b>	RWGF15/10	078844
WELLE	Single Receptacle Device 15 AMP	1.375	WTL15	078904
WTL15 WTL20 WTL30	Single Receptacle Device 20 AMP	1.625	WTL20	078905
0	30 AMP Twist-Lock	1.722	WTL30	078906
WTL50	50 AMP Twist-Lock	2.187	WTL50	078909
0	Grey Double Door D Receptacle	uplex	WDRE15/10	078326
63	White Double Door I Receptacle	Duplex	RWDRE15/10	078383
WDRE15/10	Gasket for W Series (except WDRE & RV		GASKW	077755
RWDRE15/10	Gasket for WDRE & RWDRE Co	overs	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

vvoatriorproor oc	NOIS DOUBLE GAIL	9	
	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









S	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







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		_	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







Part Cubic Inch Product L Capacity Code (in. Size (in.) Number (in.) (in.) (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.



#### FFATURES:

- · 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 FB 078876

(includes disposable protective cap & reducer plugs) suitable for slab-on-grade or below grade, and wood floor construction

Floor Box Kit **FBKIT** 078908

c/w Universal leveling ring adapter, disposable protective cap and reducer plugs

Metal Cover Adapter Kit

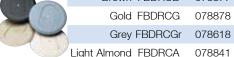
(includes leveling ring, metal cover adapter ring & two shim gaskets for height adjustment)

**AFMC** 

Universal Leveling Ring I RA-U 078446 Adapter

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





Tri-Service Universal Divider

(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 **FRYC** 

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







078875

078993













#### 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 watertight 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



#### **Brass Cover Plates**

Description	Dart Number	Product Code
Description	ran Number	Froduct 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



#### 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



#### Octagonal Boxes

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)	Part Number	
4 x 1 deep	XR20	077989	7
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).

Size (in)	Hub Size (in)	Part Number	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

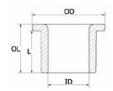


#### Junction Box Adapters

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 Standard PVC Coupling Adapter



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	А	В	C (incl	D nes)	Е	F
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

Cernents and Prim	EIS	
Size	Part Number	Product Code
Clear Regular Bodie	ed Solvent Cement (Lo	ow VOC)
1/2 Pint	CEMC05	078883
Pint	CEMC10	078884
Quart	CEMC20	078885
Gallon*	CEMC80	078887
Clear Medium Bodi	ed Solvent Cement (Lo	ow VOC)
Pint	MBCC10	078798
Quart	MBCC20	078799
Grey Medium Bodie	ed Solvent Cement	
Pint	CEMG10	078083
Quart	CEMG20	078096
Cold Weather Solve	ent Cement	
Pint	CWC10	078503
Quart	CWC20	078886
ENT Solvent Cemer	nt (Low VOC)	
Quart	CCB100QT	078186
Clear Cleaner		
Pint	-	078174
Quart	-	078175
Purple Primer (Low	VOC)	
Quart	PRMP20	078054
Clear Primer (Low \	/OC)	
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



#### Kralov 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 patent pending integral gasket, non-metallic fasteners, molded mounting feet, embossed grid-lines and flat cover features have been engineered to provide a contractor-friendly junction box.

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

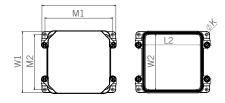
#### **Built-in Gridlines**

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

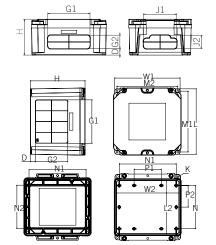


Kraloy JBox

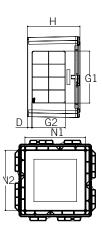
Size inches	Part Number	Product Code	L1	W1	L2	W2	Н	M1 M2 G1 G2 J1 J2 D K inches	
4x4x2	JBX442	278300	4.97	3.93	3.48	3.48	2.90	4.48 3.44 2.41 1.09 1.72 1.09 0.51 0.24	
4x4x4	JBX444	278301	4.90	3.86	3.48	3.48	4.89	4.41 3.37 2.22 2.97 1.59 2.97 0.59 0.24	
5x5x2	JBX552	278302	5.97	4.93	4.55	4.55	2.90	5.48 4.44 3.41 1.09 2.69 1.09 0.51 0.24	
6x3x4	JBX634	278303	3.90	5.86	2.48	5.48	4.89	3.41 5.37 1.22 2.72 3.42 2.72 0.59 0.28	
6x6x4	JBX664	278304	7.58	7.58	5.86	7.20	4.90	6.90 6.90 4.47 2.47 4.47 2.47 0.59 0.28	
6x6x6	JBX666	278305	7.51	7.51	5.79	7.13	6.90	6.83 6.83 4.22 4.47 4.22 4.47 0.72 0.28	
Size inches	Part Number	Product Code	L1	W1	L2	W2	Н	M1 M2 G1 G2 N1 N2 P1 P2 D inches	K
8x8x4	JBX884	278306	9.58	9.58	7.86	9.20	4.90	8.90 8.90 6.47 1.97 8.25 6.26 3.94 3.13 0.5	9 0.2
8x8x7	JBX887	278307	9.47	9.47	7.76	9.10	7.90	8.80 8.80 6.22 4.65 8.25 6.26 3.94 3.13 0.7	5 0.2
12x12x4	JBX12124	278308	13.58	12.24	11.74	11.74	4.90	12.90 11.56 9.28 2.03 10.26 10.25 3.94 3.13 0.5	6 0.2
12x12x6	JBX12126	278309	13.51	12.17	11.74	11.74	6.90	12.83 11.49 9.03 3.78 10.26 10.25 3.94 3.13 0.6	7 0.2
12x12x8	JBX12128	278310	13.44	12.10	11.74	11.74	8.90	12.76 11.42 8.81 5.64 10.26 10.25 3.94 3.13 0.7	6 0.2
14x14x8	JBX14148	278311	15.72	14.39	13.80	13.80	9.1	15.1 13.70 11.05 5.69 12.25 10.26 3.94 3.16 0.8	3 0.3
14x14x10	JBX141410	278312	15.66	14.32	13.80	13.80	11.1	15.0 13.64 11.05 7.55 12.25 10.26 3.94 3.16 0.8	3 0.3
16x16x10	JBX161610	278313	17.64	16.30	15.71	15.71	11.1	17.0 15.60 12.55 7.55 14.25 12.26 4.71 4.09 0.8	3 0.3

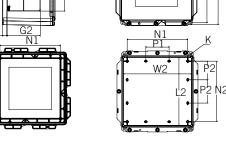


JBX442 - JBX666









M1 L1

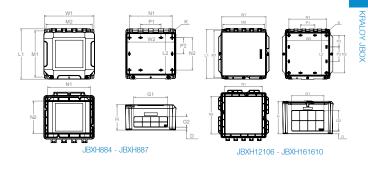
JBX12124 - JBX161610

## 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.

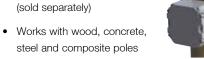


NEMA Rated: 1,2,3R,4,4X,12,13

Size inches	Part Number	Product Code	L1	W1	L2	W2	Н	M		M2 ches	G1	G2	N1	N2	P1	P2	D	K
8x8x4	JBXH884	278400	9.58	9.58	7.86	9.2	4.9	8.	9	8.9	6.47	1.97	8.25	6.26	3.94	3.13	0.59	0.28
8x8x7	JBXH887	278401	9.47	9.47	7.86	9.2	7.9	8.	9	8.9	6.22	4.65	8.25	6.26	3.94	3.13	0.75	0.28
12x10x6	JBXH12106	278402	11.51	12.17	9.67	11.67	6.9	10	8.0	11.49	8.03	3.78	10.25	8.26	3.94	2.16	0.67	0.28
12x12x4	JBXH12124	278403	13.58	12.24	11.74	11.74	4.9	12	.9	11.56	9.28	2.03	10.26	10.25	3.94	3.13	0.56	0.28
12x12x6	JBXH12126	278404	13.51	12.17	11.74	11.74	6.9	12.	83	11.49	9.03	3.78	10.26	10.25	3.94	3.13	0.67	0.28
12x12x8	JBXH12128	278405	13.44	12.10	11.74	11.74	8.9	12.	76	11.42	8.81	5.64	10.26	10.25	3.94	3.13	0.76	0.28
14x14x8	JBXH14148	278406	15.72	14.39	13.80	13.80	9.1	15.	10	13.70	11.05	5.69	12.25	10.26	3.94	3.16	0.83	0.33
14x14x10	JBXH141410	278407	15.66	14.32	13.80	13.80	11.1	14.	98	13.64	11.05	7.55	12.25	10.26	3.94	3.16	0.83	0.33
16x16x10	JBXH161610	278408	17.64	16.30	15.71	15.71	11.1	17	.0	15.60	12.55	7.55	14.25	12.26	4.71	4.09	0.83	0.33

### Kraloy JBox Pole Mounting Kit

- Available in either galvanized or stainless steel (SS)
- · Supplied as complete kits (sold separately)





steel and composite poles

• Installs on round, square & octagonal poles up to 15"

Part Numb	per Product Code	Fits JBox
PMK4-12	2 077940	4" to 12"
PMK4-125	SS 077946	4" to 12"
PMK14-16	SS 277086	14" to 16"

## Kraloy JBox Back Panels

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



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

#### Performance Ratings

#### MAXIMUM TEMPERATURE RANGE:

Maximum ambient temperatures to 122°F (50°C) as per the NEC

#### RECOMMENDED OPERATING TEMPERATURE:

-40°F to 122°F (-40°C to 50°C)

#### UV AND WATER EXPOSURE RATING:

UL 746C approved for exposure to UV and water

#### FLAME & SMOKE RATING:

UL 94V-0 (UL94 Vertical Flame Test)

#### **NEMA ENCLOSURE RATINGS:**

The 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 90°C 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**

- Hinaed 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 impactresistance.

#### Features and Benefits

Available in LED to suit a variety of applications

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



Locations

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

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

Kraloy Electrical Pocket Pro



Hazardous Locations

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

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

#### 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

Constructed of very strong and durable materials, the polycarbonate globe is impact resistant and is resistant

a single need for maintenance.

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

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

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#### 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	Part	Product
(for WET Locations)	Number	Code
For wall mount fixtures select and order the appropriate style (wattage and globe) ceiling mount fixture from above and add I WB150 Wall Mount bracket	LWB150	077233



#### Hazardous Locations

Ceiling Mount w/ Frosted	Part	Product	Hub
Polycarbonate Globe	Number	Code	Sizes
15W LVPF Heavy Duty	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 **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





### 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.









### Fase 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 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.













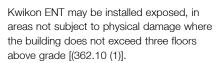
Kwikon's interior corrugated surface greatly reduces the amount of friction while pulling conductors through long runs, even with 90° bends.

### 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 FNT are covered in the 2008 National Flectrical 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 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**

Nomin	al Size	Averag	je O.D.	Averaç	ge I. D.
inches	mm	inches	mm	inches	mm
1/2	12	0.84	21.3	0.602	15.3
3/4	20	1.05	26.7	0.804	20.4
1	25	1.315	33.4	1.029	26.1
1-1/4	32	1.66	42.2	1.360	34.5
1-1/2	40	1.90	48.3	1.590	40.4
2	50	2.375	60.3	2.047	52.0
2-1/2	65	2.866	72.8	2.469	62.7

### Kwikon ENT - Blue Stripe

	Size (in)	Length (ft)	Product Code	Weight lbs/pkg	
	1/2	1500	012002	165	
	3/4	1000	012011	158	A 65
_	1	750	012021	160	THE REAL PROPERTY.
Reel	1-1/4	1000	012047	193	60
-	1-1/2	750	012033	205	
	2	500	012044	220	9
	2-1/2	325	012049	70	
	1/2	200	012031	20	
	3/4	100	012040	12.5	
Soil	1	100	012041	17	
ŏ	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)	F Red	roduct Coo Yellow	de 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	200
1	KC20	089002	90 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
1-1/4	KC25	189670	a o b
1-1/2	KC30	189671	
2	KC35	189672	
2-1/2	KC40	089075	

### **Kwikon Connector**

Part Number	Product Code	
KTA10	089006	7
KTA15	089007	
KTA20	089008	and in
KTA25	189680	
KTA30	189681	
KTA35	189682	
KTA40	089076	
	KTA10 KTA15 KTA20 KTA25 KTA30 KTA35	KTA15 089007 KTA20 089008 KTA25 189680 KTA30 189681 KTA35 189682

<sup>\*</sup> KTA connectors are supplied with locknuts.

### Kwikon Snap-in Connector

Size (in	) Part Number	Product Code	
1/2	KTS10	089146	100 mg
3/4	KTS15	089147	E - E
1	KTS20	089148	

<sup>\*</sup> 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	0 0
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	A 1
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	A
3/4	KK90-15	089056	4
1	KK90-20	089057	1

### 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	4
3/4	KASTB-15	089234	7
1	KASTB-20	089235	1111
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 ENT AND FITTINGS

75

### 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	6
4x1/2, 4x3/4	SMB-H-10/15	089458	6
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 Numb		
8x1/2	SSBH-	-10 08946	37
8x3/4	SSBH-	-15 08946	38
4x1/2, 2x3	3/4 SSBH-1	0/15 08946	39
4x1/2, 2x3/4	, 2x1 SSBH-10/	/15/20 08947	74
4x3/4, 4x	1 SSBH-1	5/20 08947	75

### 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	Age of a
8 x 3/4	SMBS-H-15	089482	000
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	CA
4x1/2, 2x3/4, 2x1	MBH-10/15/20	089019	1
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







- 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



### **I ■** 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:**

KWIKON ENT AND FITTINGS

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 122°F (50°C)

### 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 Flectrical 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.

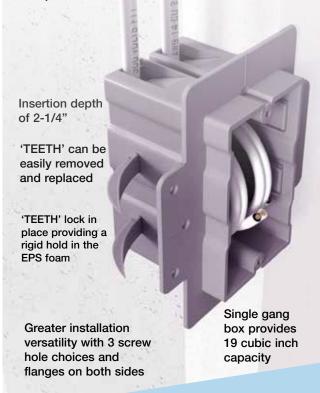
### **RACFWAYS:**

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.

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



### 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	1
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	4
Double Gang	ICF-2-CLU	220010	7
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 -5°F to 140°F.

Size (in)	Product Code	Length (ft)	<b>71</b> (A)
3/8	165055	100	35454444444
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	14
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	Signal of the second
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	A
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



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NOTES		



### Vertical-Lok Spacers

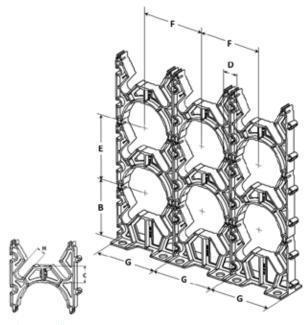
Kraloy conduit interlocking spacers are available in a variety of spacing dimensions for all conduit sizes. Our most popular sizes are offered with unique rebar holder slots for quick reinforcing bar installation and the bases have support holes for securing the base spacers to the trench bottom.

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

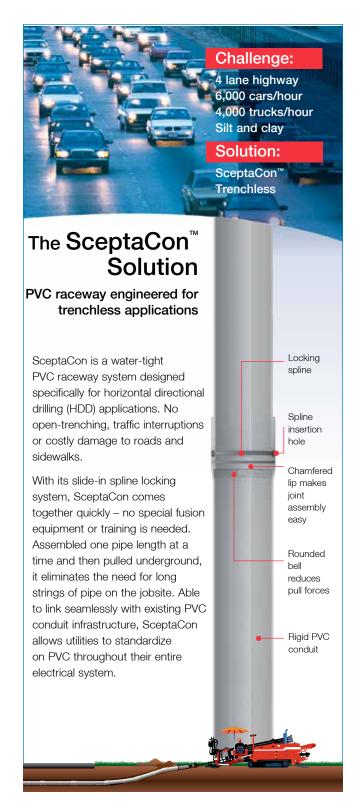


Intermediate

Size	[	Base VERT	TCAL-LO	OK SPA	CERS				Interme	ediate V	ERTICA	L-LOK S	SPACEF	RS	
(inches)	Part Number	Product Code	Α	В	Н	G		Part Number	Product Code	С	D	Е	F	G	Н
2 x 1-1/2	BS3530	029566	3.04	4.25	0.63	3.94		IS3530	029550	1.52	1.50	3.95	3.95	3.94	0.63
2 x 2	BS3535	029567	3.04	4.25	0.63	4.47		IS3535	029551	2.03	2.06	4.48	4.48	4.47	0.63
2 x 3	BS3545	029568	3.04	4.25	0.63	5.44		IS3545	029552	3.00	3.03	5.45	5.45	5.44	0.63
3 x 1-1/2	BS4530	029585	3.00	5.84	0.88	5.12		IS4530	029582	1.50	1.45	5.15	5.12	5.12	0.88
3 x 2	BS4535	029570	2.97	4.78	0.88	5.63		IS4535	029554	2.00	1.88	5.64	5.63	5.63	0.88
3 x 3	BS4545	029571	3.00	4.81	0.88	6.63		IS4545	029555	3.00	2.88	6.66	6.63	6.63	0.88
4 x 1	BS5520	029586	3.00	5.32	0.88	5.63		IS5520	029583	1.00	1.03	5.66	5.63	5.63	0.88
4 x 1-1/2	BS5530	029573	3.00	5.31	0.88	6.13		IS5530	029557	1.50	1.39	6.13	6.14	6.13	0.88
4 x 2	BS5535	029574	3.06	5.38	0.88	6.63		IS5535	029558	2.00	1.88	6.64	6.63	6.63	0.88
4 x 3	BS5545	029575	3.06	5.38	0.88	7.63		IS5545	029559	3.00	2.90	7.64	7.64	7.63	0.88
5 x 1-1/2	BS6030	029587	3.00	5.84	0.88	7.37		IS6030	029584	1.68	1.69	7.37	7.37	7.37	0.88
5 x 2	BS6035	029577	3.13	5.94	0.88	7.88		IS6035	029561	2.25	2.15	7.89	7.89	7.88	0.88
5 x 3	BS6045	029578	3.19	6.00	0.88	8.69		IS6045	029562	3.06	2.96	8.70	8.70	8.69	0.88
6 x 1-1/2	BS6530	029579	3.02	6.38	0.88	8.21		IS6530	029563	1.50	1.38	8.24	8.22	8.21	0.88
6 x 2	BS6535	029580	3.02	6.38	0.88	8.72		IS6535	029564	2.00	1.89	8.74	8.73	8.72	0.88
6 x 3	BS6545	029581	3.00	6.38	0.88	9.75		IS6545	029565	3.00	2.90	9.77	9.77	9.75	0.88
* 8 x 2	BS8035	029293	3.00	7.25	*	10.80	*	IS8035	029294	2.06	2.00	10.58	10.80	10.80	*

<sup>\*</sup> Do not have rebar slots

<sup>\*</sup> Do not have rebar slots





### 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, prelubricated 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 guickly.

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.





### SCEPTACC

### 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.

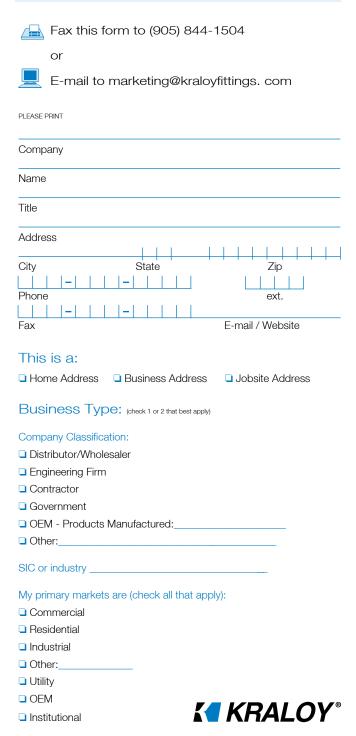
### SceptaCon™ Raceway

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



### CUSTOMER SERVICE CENTER

 1055 Wilton Grove Road
 Tel: (519) 681-2140

 London, Ontario N6N 1C9
 Toll Free: (800) 265-1815

Fax: (519) 681-2156

### www.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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Kraloy® is a trademark of Multi Fittings Corp.

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