



## POCKET PRO

ELECTRICAL SYSTEMS

**Kraloy® Conduit Fittings**

**Kwikon® ENT & Fittings**

**INEXO™ Electrical Boxes for ICF Construction**

**Kwikflex® NMLT Flexible Conduit & Fittings**

**Sceptalight™ Nonmetallic Light Fixtures**



Type Designation	UL Underwriters Laboratories Inc. (UL 50 and UL 508)
1	Indoor use primarily to provide protection against contact with the enclosed equipment and against a limited amount of falling dirt.
2	Indoor use to provide a degree of protection against limited amounts of falling water and dirt.
3	Outdoor use to provide a degree of protection against windblown rain; undamaged by the formation of ice on the enclosure.
4	Either indoor or outdoor use to provide a degree of protection against falling rain, splashing water, and hose-directed water; undamaged by the formation of ice on the enclosure.
4X	Either indoor or outdoor use to provide a degree of protection against falling rain, splashing water, and hose-directed water; undamaged by the formation of ice on the enclosure; resists corrosion.
6P	Indoor or outdoor use primarily to provide a degree of protection against hose-directed water, the entry of water during prolonged submersion at a limited depth, and be undamaged by the formation of ice on the enclosure.
12	Indoor use to provide a degree of protection against dust, dirt, fiber flyings, dripping water, and external condensation of noncorrosive liquids.
13	Indoor use to provide a degree of protection and spraying of water, oil, and noncorrosive liquids.

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

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

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

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



## Applications

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

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



## Advantages

### Labor Savings

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

### Easy Joining

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

### Strength

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

### Corrosion Resistant

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

### Nonconductive

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



### Chemical Resistant

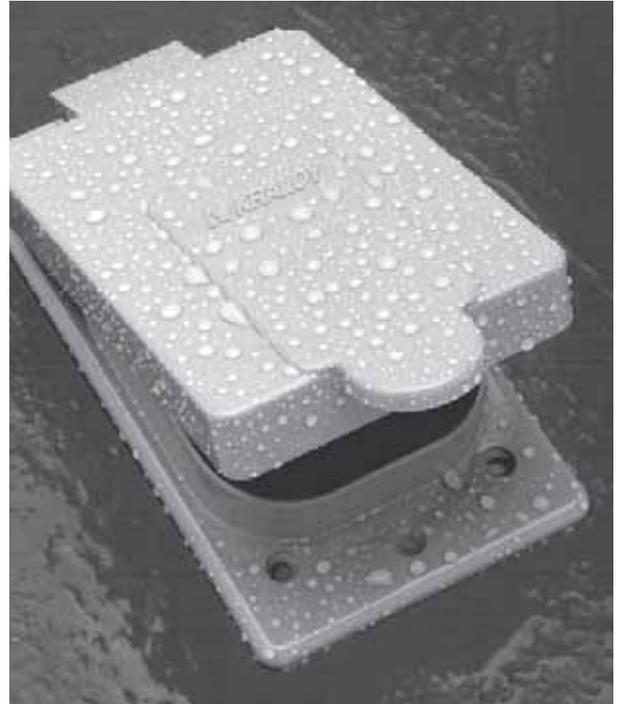
One of the greatest benefits of PVC is its excellent chemical resistance. Kraloy PVC fittings are resistant to a wide range of chemicals such as acids, alkalis or salt solutions. For more information on chemical resistance, contact Kraloy customer service.

### Aging Characteristics

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

### Fire Resistance

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



### Kraloy PVC Conduit Fittings

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



## Solvent Cementing

After cutting PVC rigid conduit, sharp edges or burrs from inside the conduit should be removed with a knife. Thoroughly clean the end of the pipe and inside the fitting with a pipe cleaner. In extreme weather conditions, a primer should be used to prepare the joint for solvent cementing. Apply a generous amount of solvent cement to both surfaces, slide together and give a quarter turn to ensure solvent is spread evenly on the material. Hold together for a few seconds until the joint is made.

Usually the solvent-cemented joint will be strong enough to install immediately, but in low temperatures and high humidity, extra time may be required before moving the pipe to install it permanently. Solvent cemented joints appear to “set up” instantly, but will take 24 hours to cure properly. After this time, the solvent-cemented joint has completely cured and is waterproof. Kraloy cement is available in half-pint, pint, quarts and one-gallon containers.



## Handling

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

## Storage Conditions

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

## Safety Precautions

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



## Cold Weather

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

### Initial Set Schedule for PVC Solvent Cements\*

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

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

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

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

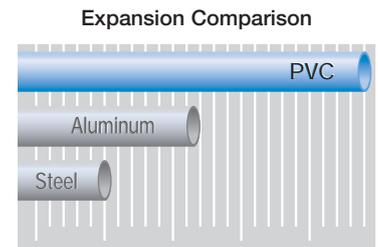
### Average Number of Joints per Pint or Quart of Cement

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

## Expansion and Contraction

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

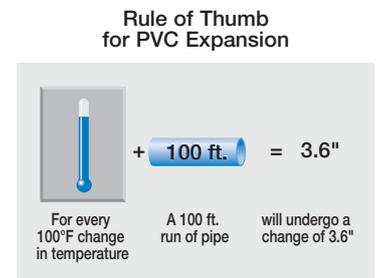
A general rule of thumb is that for every 100°F temperature change in a 100 ft. run of PVC conduit, the conduit will undergo 3.6" of expansion or contraction.



## Use of Expansion Joints

In installations where the expected temperature variation exceeds 25°F expansion joints must be used. An expansion joint consists of two tubes, one telescoping inside another.

When installing expansion joints alignment of the piston and barrel is important. Straps should be placed approximately one foot on either side of the joint to ensure that any movement is directed squarely into the joint.



When expansion joints are required the following steps should be followed:

### 1. DETERMINE NUMBER OF JOINTS REQUIRED:

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

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

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

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

Example:

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

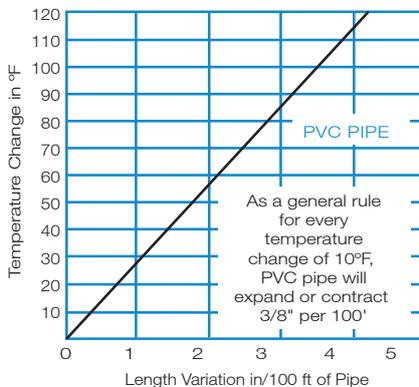
Using step 1 we determine the number of joints required.

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

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

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

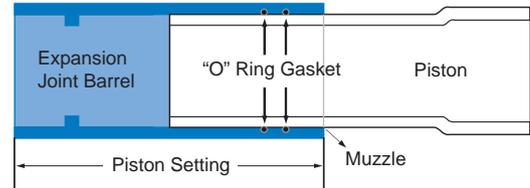
PVC Pipe Length Variation due to Temperature Change (°F)  
Coefficient =  $3.6 \times 10^{-4}$  in/ft/°F



### 2. DETERMINE PISTON OPENING:

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

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



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



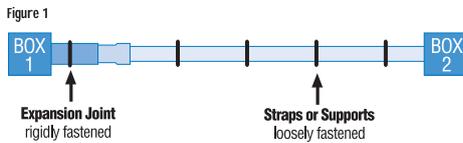
## Location of Expansion Joints

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.

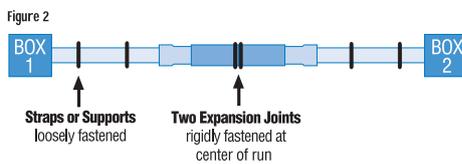
### ONE EXPANSION JOINT - FIGURE 1

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.



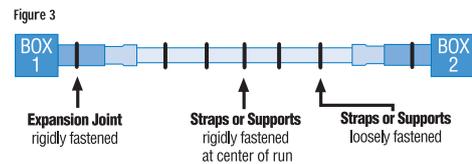
### TWO EXPANSION JOINTS - FIGURE 2

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.



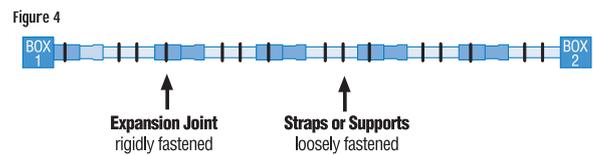
### TWO EXPANSION JOINTS (ALTERNATIVE) - FIGURE 3

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.



## 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 1 1/2" from the end of the conduit to be inserted and insert the conduit into the OPEJ to this mark.
3. Secure and support the conduit raceway using Kraloy pipe straps.



## Applicable Standards

### Underwriters Laboratories

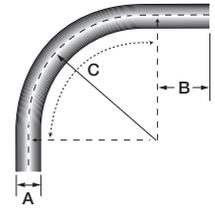
UL50	Enclosures for Electrical Equipment
UL514B	Fittings for Cable & Conduit
UL514C	Nonmetallic Outlet Boxes, Flush-Device Boxes & Covers
UL651	Schedule 40 & 80 Rigid PVC Conduit

### Canadian Standards Association

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

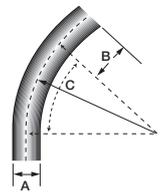
### National Electrical Manufacturers Association

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



### Schedule 40 Standard Radius 90° Elbows

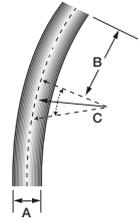
Size (in.)	Part Number	Product Code	A (in.)	B (in.)	C (in.)
1/2	40STD0590	078540	0.840	1.500	4.000
3/4	40STD0790	078541	1.050	1.500	4.500
1	40STD1090	078542	1.315	1.875	5.750
1-1/4	40STD1290	078543	1.660	2.000	7.250
1-1/2	40STD1590	078544	1.900	2.000	8.250
2	40STD2090	078545	2.375	2.000	9.500
2-1/2	40STD2590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



### Schedule 40 Standard Radius 45° Elbows

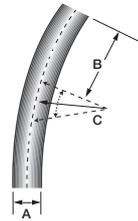
Size (in.)	Part Number	Product Code	A (in.)	B (in.)	C (in.)
1/2	40STD0545	078552	0.840	1.500	4.000
3/4	40STD0745	078553	1.050	1.500	4.500
1	40STD1045	078554	1.315	1.875	5.750
1-1/4	40STD1245	078555	1.660	2.000	7.250
1-1/2	40STD1545	078556	1.900	2.000	8.250
2	40STD2045	078557	2.375	2.000	9.500
2-1/2	40STD2545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





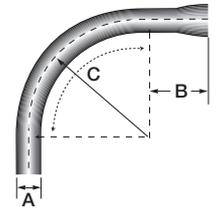
### Schedule 40 Standard Radius 30° Elbows

Size (in.)	Part Number	Product Code	A (in.)	B (in.)	C (in.)
1/2	40STD0530	078564	0.840	1.500	4.000
3/4	40STD0730	078565	1.050	1.500	4.500
1	40STD1030	078566	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



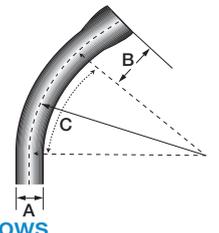
### Schedule 40 Standard Radius 22-1/2° Elbows

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	36.00



### Schedule 40 Standard Radius 90° Bell End Elbows

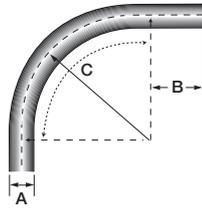
Size (in.)	Part Number	Product Code	A (in.)	B (in.)	C (in.)
1/2	B40STD0590	078588	0.840	1.500	4.000
3/4	B40STD0790	078589	1.050	1.500	4.500
1	B40STD1090	078590	1.315	1.875	5.750
1-1/4	B40STD1290	078591	1.660	2.000	7.250
1-1/2	B40STD1590	078592	1.900	2.000	8.250
2	B40STD2090	078593	2.375	2.000	9.500
2-1/2	B40STD2590	078594	2.875	3.000	10.500
3	B40STD3090	078595	3.500	3.125	13.000
3-1/2	B40STD3590	078596	4.000	3.250	15.000
4	B40STD4090	078597	4.500	3.375	16.000
5	B40STD5090	078598	5.563	3.625	24.000
6	B40STD6090	078599	6.625	3.750	30.000



### Schedule 40 Standard Radius 45° Bell End Elbows

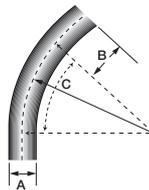
Size (in.)	Part Number	Product Code	A (in.)	B (in.)	C (in.)
1/2	B40STD0545	078600	0.840	1.500	4.000
3/4	B40STD0745	078601	1.050	1.500	4.500
1	B40STD1045	078602	1.315	1.875	5.750
1-1/4	B40STD1245	078603	1.660	2.000	7.250
1-1/2	B40STD1545	078604	1.900	2.000	8.250
2	B40STD2045	078605	2.375	2.000	9.500
2-1/2	B40STD2545	078606	2.875	3.000	10.500
3	B40STD3045	078607	3.500	3.125	13.000
3-1/2	B40STD3545	078608	4.000	3.250	15.000
4	B40STD4045	078609	4.500	3.375	16.000
5	B40STD5045	078610	5.563	3.625	24.000
6	B40STD6045	078611	6.625	3.750	30.000





### Schedule 80 Standard Radius 90° Elbows

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

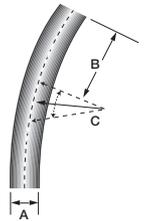


### Schedule 80 Standard Radius 45° Elbows

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

### Schedule 80 Standard Radius 30° Elbows

Size (in.)	Part Number	Product Code	A (in.)	B (in.)	C (in.)
1/2	80STD0530	078642	0.840	1.500	4.000
3/4	80STD0730	078643	1.050	1.500	4.500
1	80STD1030	078644	1.315	1.875	5.750
1-1/4	80STD1230	078645	1.660	2.000	7.250
1-1/2	80STD1530	078646	1.900	2.000	8.250
2	80STD2030	078647	2.375	2.000	9.500
2-1/2	80STD2530	078648	2.750	3.000	10.500
3	80STD3030	078649	3.500	3.125	13.000
4	80STD4030	078650	4.500	3.375	16.000
5	80STD5030	078651	5.563	3.625	24.000
6	80STD6030	078652	6.625	3.750	30.000



## Conduit Elbows 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	068702	068722	068742	068762	068782	#
	45	068802	068822	068842	068862	068882	#
	30	068902	068922	068942	068962	068982	#
	22-1/2	078853	078035	#	#	#	#
1-1/4	90	068703	068723	068743	068763	068783	#
	45	068803	068823	068843	068863	068883	#
	30	068903	068923	068943	068963	068983	#
	22-1/2	068513	078667	#	#	#	#
1-1/2	90	068704	068724	068744	068764	068784	#
	45	068804	068824	068844	068864	068884	#
	30	068904	068924	068944	068964	068984	#
	22-1/2	068523	078668	#	#	#	#
2	90	068705	068725	068745	068765	068785	068113
	45	068805	068825	068845	068865	068885	#
	30	068905	068925	068945	068965	068985	#
	22-1/2	068514	068547	#	068515	178065	#
2-1/2	90	068706	068726	068746	068766	068786	#
	45	068806	068826	068846	068866	068886	#
	30	068906	068926	068946	068966	068986	#
	22-1/2	068524	078275	#	#	#	#
3	90	068707	068727	068747	068767	068787	068114
	45	068807	068827	068847	068867	068887	#
	30	068907	068927	068947	068967	068987	#
	22-1/2	068516	068525	#	068517	068526	#
3-1/2	90		068728	068748	068768	068788	#
	45	Use Std. Sch. 40 Radius (15")	068828	068848	068868	068888	#
	30		068928	068948	068968	068988	#
	22-1/2		068130	#	#	#	#
4	90		068729	068749	068769	068789	068112
	45	Use Std. Sch. 40 Radius (16")	068829	068849	068869	068889	078011
	30		068929	068949	068969	068989	#
	22-1/2		068518	068519	068520	068521	068111
5	90			068751	068771	068791	068115
	45	Use Std. Sch. 40 Radius (24")		068851	068871	068891	078615
	30			068951	068971	068991	068132
	22-1/2			068529	068522	078485	#
6	90				068772	068792	#
	45	Use Std. Sch. 40 Radius (30")			068872	068892	078220
	30				068972	068992	#
	22-1/2				068528	068527	078221
8	90	-	-	-	-	068052	#
	45	-	-	-	-	068082	#
	22-1/2	-	-	-	-	068081	#
	11-1/4	-	-	-	-	068080	#

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

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



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

Size inches	Degree Bend	18" Radius Product Code	24" Radius Product Code	36" Radius Product Code	48" Radius Product Code
2	90	078255	068030	068054	068078
	45	078256	078506	078507	078268
2-1/2	90	078257	068034	068056	068086
	45	078258	068035	078508	078269
3	90	078259	068036	068058	068091
	45	078539	078514	078513	078476
3-1/2	90	Use Std. Sch. 40 Radius (15")	078260	078262	078477
	45		078261	078263	078478
4	90	Use Std. Sch. 40 Radius (16")	068050	068072	068095
	45		078945	078536	078479
5	90	Use Std. Sch. 40 Radius (24")		068074	068097
	45			078265	078481
6	90	Use Std. Sch. 40 Radius (30")		068076	068099
	45			078267	078483

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

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

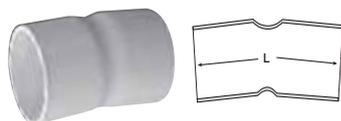
Size inches	Size inches	18" Radius Product Code	24" Radius Product Code	30" Radius Product Code	36" Radius Product Code	48" Radius Product Code
1	90	068710	#	#	#	068541
	45	#	#	#	#	#
1-1/4	90	068711	068735	#	#	068542
	45	#	#	#	#	#
1-1/2	90	068712	#	#	068545	068543
	45	#	#	#	#	#
2	90	068713	068736	078910	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")		078373	068779	068796
	45			#	068538	068546
6	90	Use Standard Schedule 80 Radius (24")			068540	068797
	45				068539	078966





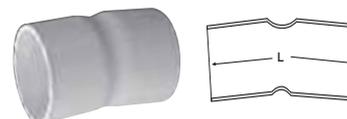
## Couplings

Size (in.)	Part Number	Product Code	N Min (in.)	OD (in.)	OL (in.)
1/2	CP05	078001	0.055	1.062	1.410
3/4	CP07	078002	0.070	1.265	1.535
1	CP10	078003	0.095	1.545	1.860
1-1/4	CP12	078004	0.110	1.945	2.020
1-1/2	CP15	078005	0.084	2.180	2.255
2	CP20	078006	0.095	2.683	2.390
2-1/2	CP25	078007	0.170	3.240	3.120
3	CP30	078008	0.166	3.940	3.340
3-1/2	CP35	078009	0.200	4.480	3.615
4	CP40	078010	0.225	5.000	3.765
5	CP50	078012	0.270	6.120	4.170
6	CP60	078014	0.255	7.285	4.875
8	CP80	178192	-	-	-



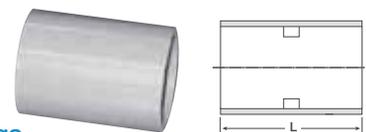
## 5° couplings B x B

Size (in.)	Part Number	Product Code	L (in.)
2	5EC20	078049	4.0
3	5EC30	078051	6.0
4	5EC40	078053	7.0
5	5EC50	078055	7.5
6	5EC60	078422	11.0



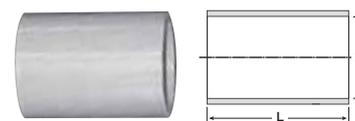
## 5° couplings B x S

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

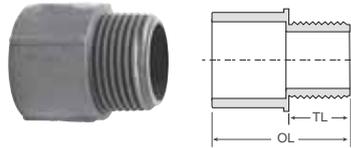
Size (in.)	Part Number	Product Code	L (in.)
2	LLC20	078063	3.675
2-1/2	LLC25	078065	4.28
3	LLC30	078066	4.80
4	LLC40	078067	6.20
5	LLC50	078068	8.22
6	LLC60	078069	8.22



## Repair Coupling Sleeves

Size (in.)	Part Number	Product Code	L (in.)	D Min (in.)	D Max (in.)
1-1/2	REC15	077292	2.300	1.912	1.924
2	REC20	078617	2.405	2.367	2.399
2-1/2	REC25	078041	3.450	2.883	2.897
3	REC30	078042	3.600	3.507	3.523
4	REC40	078044	3.920	4.506	4.524
5	REC50	078619	4.275	5.583	5.603
6	REC60	077298	4.620	6.647	6.669





### Terminal Adapters

Size (in.)	Part Number	Product Code	OL (in.)	TL Min (in.)
1/2	TA05	078084	1.305	0.550
3/4	TA07	078085	1.435	0.565
1	TA10	078086	1.775	0.800
1-1/4	TA12	078087	1.855	0.800
1-1/2	TA15	078088	1.980	0.800
2	TA20	078089	2.070	0.810
2-1/2	TA25	078090	2.480	0.820
3	TA30	078091	2.580	0.765
3-1/2	TA35	078092	2.815	0.920
4	TA40	078093	2.870	0.870
5	TA50	078094	3.710	1.390
6	TA60	078095	3.540	1.080
8	TA80	178190	-	-



### Female Adapters

Size (in.)	Part Number	Product Code	OL (in.)	TL Min (in.)
1/2	FA05	078070	1.400	0.700
3/4	FA07	078071	1.550	0.765
1	FA10	078072	2.000	1.000
1-1/4	FA12	078073	2.065	1.000
1-1/2	FA15	078074	2.185	1.000
2	FA20	078075	2.260	1.000
2-1/2	FA25	078076	2.290	1.000
3	FA30	078077	2.950	1.145
3-1/2	FA35	078078	4.100	1.800
4	FA40	078079	3.120	1.150
5	FA50	078080	3.750	1.520
6	FA60	078081	4.062	1.500
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





## End Bells

Size (in.)	Part Number	Product Code	OD (in.)	OL (in.)
1/2	MEB05	078288	1.250	1.000
3/4	MEB07	078289	1.500	1.000
1	MEB10	078290	1.745	1.120
1-1/4	MEB12	078291	2.085	1.200
1-1/2	MEB15	078292	2.950	1.500
2	MEB20	078293	3.050	1.440
2-1/2	MEB25	078294	3.585	1.790
3	MEB30	078295	3.865	1.910
3-1/2	MEB35	078296	4.437	2.093
4	MEB40	078297	4.870	2.175
5	MEB50	078298	6.187	2.375
6	MEB60	078299	7.187	2.562
8	MEB80	077652	-	-



## End Caps

Size (in.)	Part Number	Product Code	A (in.)	B (in.)
1/2	EC05	078314	1.410	1.000
3/4	EC07	078315	1.630	1.125
1	EC10	078316	1.860	1.187
1-1/4	EC12	078317	2.005	1.275
1-1/2	EC15	078318	2.115	1.500
2	EC20	078319	2.445	1.812
2-1/2	EC25	078320	2.915	2.125
3	EC30	078321	3.050	2.375
3-1/2	EC35	078322	2.150	2.625
4	EC40	078323	3.260	3.050
5	EC50	078324	4.375	3.000
6	EC60	078325	5.180	4.125
8	EC80	178191	-	-

## Tapered Conduit Plugs



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



## Expansion Joints

Size (in.)	Part Number	Product Code	A Max (in.)	B Min (in.)
1/2	EJ05	078328	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

\* indicates Fabricated fittings





### One Piece Expansion Joints

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



### Expansion and Deflection Fittings Assemblies

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

\* Not Certified



### Slip Meter Risers (NEC Article 300)

Size (in.)	Part Number	Product Code
2' slip sleeve / 2" TA	SMR20TA	068371
2' slip sleeve / 2-1/2" TA	SMR25TA	068372
2' slip sleeve / 3" TA	SMR30TA	068373
2' slip sleeve / 4" TA	SMR40TA	068374



### Expansion Joint c/w Terminal Adapter

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



### Pipe Straps, PVC 2 Hole

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





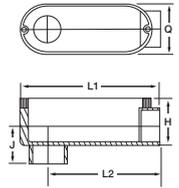
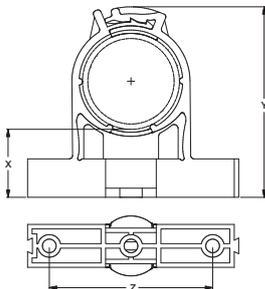
### Pipe Straps, PVC Coated Steel 2 Hole

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



### Conduit Clamps & Spacers

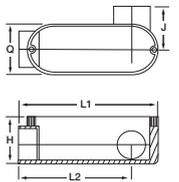
Size (in.)	Part Number	Product Code	X (in.)	Y (in.)	Z (in.)
1/2	CCS10	278106	1.191	2.414	1.824
3/4	CCS15	278095	1.195	2.660	2.106
1	CCS20	278096	1.215	2.962	2.443
1-1/4	CCS25	278097	1.182	3.300	2.855
1-1/2	CCS30	278098	1.193	3.600	3.170
2	CCS35	278099	1.195	4.135	3.785
Base	CCS-B	278107	-	-	-



### Type 'LB' Access Fittings

Size (in.)	Part Number	Product Code	L1 (in.)	L2 (in.)	H (in.)	J (in.)	Q (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

Includes: Gasket, Cover & Screws

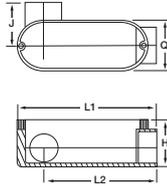


### Type 'LR' Access Fittings

Size (in.)	Part Number	Product Code	L1 (in.)	L2 (in.)	H (in.)	J (in.)	Q (in.)
1/2	LR05	078164	4.625	3.615	1.490	1.405	1.310
3/4	LR07	078165	5.260	4.265	1.665	1.540	1.500
1	LR10	078166	6.125	4.875	2.000	1.812	1.750
1-1/4	LR12	078167	8.125	6.500	2.500	2.250	2.500
1-1/2	LR15	078168	8.187	6.500	2.750	2.312	2.500
2	LR20	078169	10.562	8.625	3.500	2.687	3.125
2-1/2	LR25	078170	13.812	12.125	4.625	5.562	4.625
3	LR30	078171	14.250	12.125	4.625	5.562	4.625
3-1/2	LR35	078172	15.656	14.250	5.484	6.203	5.468
4	LR40	078173	15.500	14.250	5.484	6.203	5.468

Includes: Gasket, Cover & Screws

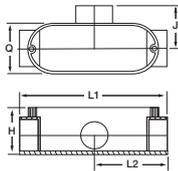




### Type 'LL' Access Fittings

Size (in.)	Part Number	Product Code	L1 (in.)	L2 (in.)	H (in.)	J (in.)	Q (in.)
1/2	LL05	078152	4.625	3.500	1.500	1.375	1.312
3/4	LL07	078153	5.250	4.260	1.675	1.545	1.500
1	LL10	078154	6.170	4.925	2.000	1.820	1.750
1-1/4	LL12	078155	8.187	6.500	2.500	2.250	2.500
1-1/2	LL15	078156	8.250	6.500	2.750	2.312	2.500
2	LL20	078157	10.500	8.625	3.500	2.687	3.125
2-1/2	LL25	078158	13.875	12.125	4.625	5.562	4.625
3	LL30	078159	14.250	12.125	4.625	5.562	4.625
3-1/2	LL35	078160	15.656	14.250	5.484	6.203	5.468
4	LL40	078161	15.500	14.250	5.484	6.203	5.468

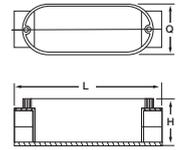
Includes: Gasket, Cover & Screws



### Type 'T' Access Fittings

Size (in.)	Part Number	Product Code	L1 (in.)	L2 (in.)	H (in.)	J (in.)	Q (in.)
1/2	T05	078176	4.565	2.275	1.500	1.315	1.315
3/4	T07	078177	5.330	2.685	1.625	1.490	1.490
1	T10	078178	6.390	3.195	2.000	1.770	1.740
1-1/4	T12	078179	9.125	6.500	2.500	2.250	2.500
1-1/2	T15	078180	9.250	6.500	2.750	2.312	2.500
2	T20	078181	11.375	8.625	3.500	2.687	3.125
2-1/2	T25	078182	17.125	12.125	4.625	5.562	4.625
3	T30	078183	17.562	12.125	4.625	5.562	4.625
3-1/2	T35	078184	19.125	14.250	5.484	6.203	5.468
4	T40	078185	19.125	14.250	5.484	6.203	5.468

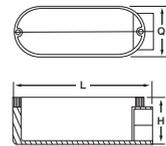
Includes: Gasket, Cover & Screws



### Type 'C' Access Fittings

Size (in.)	Part Number	Product Code	L (in.)	H (in.)	Q (in.)
1/2	C05	078116	5.230	1.490	1.330
3/4	C07	078117	5.880	1.675	1.510
1	C10	078118	6.937	2.000	1.750
1-1/4	C12	078119	9.125	2.500	2.500
1-1/2	C15	078120	9.250	2.750	2.500
2	C20	078121	11.437	3.500	3.125
2-1/2	C25	078122	17.125	4.625	4.625
3	C30	078123	17.652	4.625	4.625
3-1/2	C35	078124	19.125	5.484	5.468
4	C40	078125	19.125	5.484	5.468

Includes: Gasket, Cover & Screws



### Type 'E' Access Fittings

Size (in.)	Part Number	Product Code	L (in.)	H (in.)	Q (in.)
1/2	E05	078128	4.635	1.500	1.312
3/4	E07	078129	5.250	1.675	1.515
1	E10	078130	6.170	2.000	1.750
1-1/4	E12	078131	8.187	2.500	2.500
1-1/2	E15	078132	8.250	2.750	2.500
2	E20	078133	10.500	3.500	3.125
2-1/2	E25	078134	13.875	4.625	4.625
3	E30	078135	14.250	4.625	4.625
3-1/2	E35	078136	15.656	5.484	5.468
4	E40	078137	15.500	5.484	5.468

Includes: Gasket, Cover & Screws





### Service Entrance Fittings

Size (in.)	Part Number	Product Code
1/2	MH05	078302
3/4	MH07	078303
1	MH10	078304
1-1/4	MH12	078305
1-1/2	MH15	078306
2	MH20	078307
2-1/2	MH25	078308
3	MH30	078309
3-1/2	MH35	078310
4	MH40	078311



### Offset Terminal Adapters

Size S x H (in)	Part Number	Product Code	OL (in)
1-1/4	MO12	078351	4.240
2	MO20	078352	4.360

### Pull Elbow

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



### 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



### Strain Relief Connector

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

c/w 6 Grommets - 3/4" solvent weld male end

### Grommet Dimensions

Grommet	from	to	Grommet	from	to
	$\emptyset = .240"$	$\emptyset = .315"$		$\emptyset = .420"$	$\emptyset = .515"$
	$\emptyset = .320"$	$\emptyset = .415"$		$\emptyset = .520"$	$\emptyset = .615"$

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



## F Series - Single Gang Plates



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

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

## F Series - Double Gang Plates



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

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

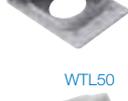
## F Series - Triple Gang Plates



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

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

## Weatherproof Covers - Single Gang

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

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

Gaskets are included with all weatherproof covers.



## Weatherproof Covers - Double Gang

	Description	Part Number	Product Code
	Toggle Switch Cover	VSCU20-2	278090
	Combination Switch Cover & GFI Receptacle	VSRC20-2	278092
	Combination Switch Cover & Duplex Receptacle	VSDRU20-2	278091
	Double Door GFCI Cover	VSGG20-2	078327
	Double Door Duplex Cover	VSDD20-2	078335
	Gasket for Double Gang 'F' Boxes (except VSGG20-2 & VSDD20-2)	GASKFU20-2	172650
	Gasket for VSGG20-2 & VSDD20-2 Double Gangs	GASKV20-2	072227

## F Series Single Gang Boxes



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	29.0	078215	4.54	2.79	2.91

All covers are universal and will fit on most PVC and metal boxes.  
Gaskets are included with all weatherproof covers.



### F Series Double Gang Boxes



Size (in.)	Part Number	Cubic Inch Capacity	Product Code	H (in.)	W (in.)	E (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	FSSC-2-050710-U	35.0	278084	4.62	4.62	2.5
BLANK	FD-2-U	47.5	278038	4.75	4.75	3.0

### F Series Triple Gang Boxes



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

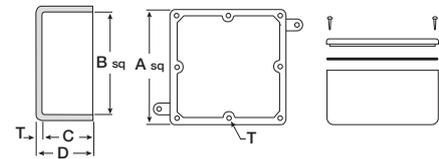
### Octagonal Boxes



Size (in)	Hub Size (in)	Part Number	Product Code
4 x 1 1/2	1/2 + 3/4	OB401505/07	078414
4 X 2 1/8	1	OB402010	078415

### Junction Boxes

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



Size (in.)	Part Number	Part Number	A sq.	B sq.	C (inches)	D	H	T
4 x 4 x 2	JB442	078242	4.375	4.000	2.020	2.200	4	0.187
4 x 4 x 4	JB444	078243	4.375	4.000	4.000	4.187	4	0.187
4 x 4 x 6	JB446	078244	4.000	3.675	6.000	6.225	4	0.225
5 x 5 x 2	JB552	078245	5.000	4.680	2.000	2.000	4	0.155
6 x 6 x 4	JB664	078246	6.375	6.000	4.000	4.187	4	0.187
6 x 6 x 6	JB666	078247	6.375	6.000	6.000	6.187	4	0.187
8 x 8 x 4	JB884	078248	8.812	8.000	4.000	4.187	4	0.187
8 x 8 x 7	JB887	078249	8.812	8.000	7.000	7.175	4	0.250
12 x 12 x 4	JB12124	078250	12.687	12.000	4.000	4.250	8	0.250
12 x 12 x 6	JB12126	078251	12.687	12.000	6.000	6.250	8	0.250
12 x 12 x 8	JB12128	078252	12.580	12.085	8.025	8.250	8	0.225

- ◆ NEMA 1, 2, 3, 3R, 4, 4X, 5, 6P
- ◆◆ NEMA 1, 2, 4, 4X, 5 6, 6P
- ◆◆◆ NEMA 1, 2, 3, 4, 4X, 6P, 12 & 13

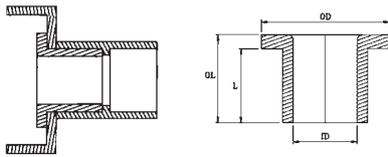
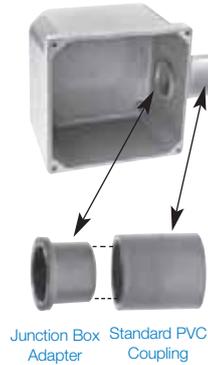
Note: Boxes include cover, gasket and screws.

External mounting feet are supplied with all sizes except JB444 and JB446.



## 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.



Size (in.)	Part Number	Product Code	ID (in.)	OD (in.)	L (in.)	OL (in.)
1/2	JBA05	078276	0.605	1.125	0.812	1.000
3/4	JBA07	078277	0.807	1.375	0.937	1.125
1	JBA10	078278	1.060	1.625	1.120	1.325
1-1/4	JBA12	078279	1.355	1.975	1.125	1.325
1-1/2	JBA15	078280	1.560	2.330	1.100	1.370
2	JBA20	078281	2.030	2.890	1.315	1.650
2-1/2	JBA25	078282	2.450	3.375	1.843	2.156
3	JBA30	078283	3.030	4.000	2.093	2.406
3-1/2	JBA35	078284	3.150	3.500	2.125	2.525
4	JBA40	078285	4.016	5.000	2.375	2.687

## 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
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<b>Floor Box</b>	FB	078876
(includes disposable protective cap & reducer plugs) suitable for slab-on-grade or below grade, and wood floor construction		



<b>Floor Box Kit</b>	FBKIT	078908
c/w Universal leveling ring adapter, disposable protective cap and reducer plugs		



<b>Metal Cover Adapter Kit</b>	AFMC	078875
(includes leveling ring, metal cover adapter ring & two shim gaskets for height adjustment)		



<b>Universal Leveling Ring Adapter</b>	LRA-U	078446
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<b>Floor Box Duplex Receptacle Cover (Nonmetallic)</b>		
(includes flush mount cover, blank cover & gasket) accepts standard duplex receptacle (not included)		



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



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



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



## Round Floor Box Stand

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



### Features:

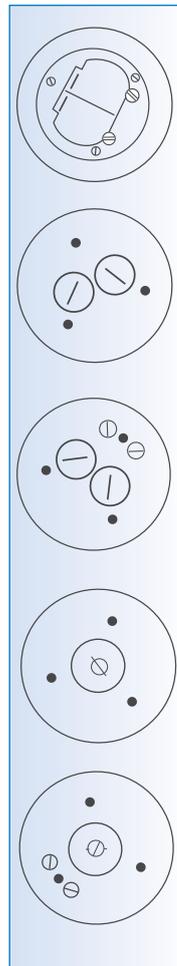
- Four adjustable heights
- Raises entrance hubs to rebar height
- Minimizes footprint on concrete form
- Withstands tough job site conditions
- Easy to install
- Cost effective

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

Part Number	Product Code
FBS-KIT	178269

## Brass Cover Plates

- Brass cover plates offer a one-piece design measuring 5-3/4" diameter
- Available in a variety of styles accommodating power (single or duplex receptacle) and communication needs
- Mount to FB Box using LRA-U Leveling Ring adapter



### DFL-2

Brass cover plate with dual flip-lid opening for a duplex receptacle 5-3/4" diameter.

**Product Code:** 178096

### DSC

Brass cover plate with two screw plug (1-1/2") openings for a duplex receptacle 5-3/4" diameter.

**Product Code:** 178091

### DSC-P/C

Brass cover plate with two screw plug (1-1/2") openings and two screw plug (1/2") openings for data/communication, 5-3/4" diameter.

**Product Code:** 178092

### SSC

Brass cover plate with a combination (2" - 1/2") screw plug opening for single receptacle or data/communication, 5-3/4" diameter.

**Product Code:** 178093

### SSC-P/C

Brass cover plate with a combination (2" - 1/2") screw plug opening for single receptacle and two screw plug (1/2") openings for data/communication, 5-3/4" diameter.

**Product Code:** 178094

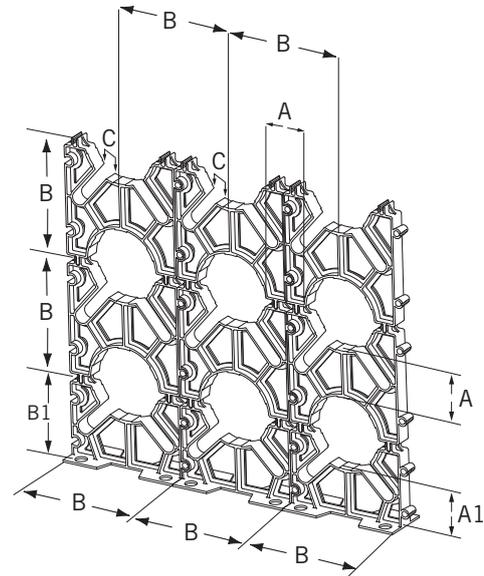
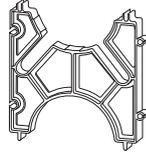


## Conduit Interlocking Spacers

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.



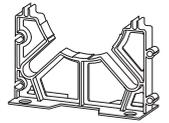
## Intermediate Vertical-Lok Spacers

Size (in.)	Part Number	Product Code	A inches	B inches	C inches
2 x 1-1/2	IV2015	029550	1.500	3.937	0.62
2 x 2	IV2020	029551	2.000	4.488	0.62
2 x 3	IV2030	029552	3.000	5.433	0.62
3 x 1-1/2	IV3015	029553	1.500	5.130	no rebar slots
3 x 2	IV3020	029554	2.000	5.630	0.87
3 x 3	IV3030	029555	-	6.614	0.87
4 x 1	IV4010	029556	1.000	5.630	no rebar slots
4 x 1-1/2	IV4015	029557	-	6.614	0.87
4 x 2	IV4020	029558	2.000	6.614	0.87
4 x 3	IV4030	029559	3.000	7.638	0.87
5 x 1-1/2	IV5015	029560	1.500	7.325	no rebar slots
5 x 2	IV5020	029561	2.188	7.874	0.87
5 x 3	IV5030	029562	3.188	8.701	0.87
6 x 1-1/2	IV6015	029563	-	7.441	0.87
6 x 2	IV6020	029564	-	7.677	0.87
6 x 3	IV6030	029565	3.000	9.764	0.87
8 x 2	IV8020	029294	-	-	no rebar slots

\* Do not have rebar slots or base holes

## Base Vertical-Lok Spacers

Size (in.)	Part Number	Product Code	A inches	B inches	C inches
2 x 1-1/2	BV2015	029566	2.992	3.937	0.62
2 x 2	BV2020	029567	2.992	4.488	0.62
2 x 3	BV2030	029568	2.992	5.433	0.62
3 x 1-1/2	BV3015	029569	3.000	4.615	no rebar slots
3 x 2	BV3020	029570	2.992	5.630	0.87
3 x 3	BV3030	029571	2.992	6.614	0.87
4 x 1	BV4010	029572	1.750	4.060	no rebar slots
4 x 1-1/2	BV4015	029573	2.992	6.614	0.87
4 x 2	BV4020	029574	2.992	6.614	0.87
4 x 3	BV4030	029575	2.992	7.638	0.87
5 x 1-1/2	BV5015	029576	3.000	6.900	no rebar slots
5 x 2	BV5020	029577	2.992	7.874	0.87
5 x 3	BV5030	029578	2.992	8.701	0.87
6 x 1-1/2	BV6015	029579	3.031	7.441	0.87
6 x 2	BV6020	029580	3.031	7.677	0.87
6 x 3	BV6030	029581	2.992	9.764	0.87
8 x 2	BV8020	029293	-	-	no rebar slots



## Clear Conduit 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.



Size (in.)	Product Code	Units per Case
Pint	078798	12
Quart	078799	12
Gallon	078105	4

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

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

## Cements and Primers

Size (in.)	Description	Product Code	Low VOC
1/2 Pint	Medium Bodied Grey Cement	078082	no
Pint	Medium Bodied Grey Cement	078083	no
Quart	Medium Bodied Grey Cement	078096	no
* Gallon	Medium Bodied Grey Cement	078097	no
Pint	Cold Weather Cement	078503	no
Quart	Cold Weather Cement	078886	no
Pint	ENT Cement	078501	no
Quart	ENT Cement	078186	yes
1/2 Pint	Clear Regular Bodied Solvent Cement	078883	yes
Pint	Clear Regular Bodied Solvent Cement	078884	yes
Quart	Clear Regular Bodied Solvent Cement	078885	yes
* Gallon	Clear Regular Bodied Solvent Cement	078887	yes
Pint	Purple Primer	078050	yes
Quart	Purple Primer	078054	yes
Gallon	Purple Primer	078062	yes
1/2 Pint	Clear Conduit Primer	078163	yes
Pint	Clear Conduit Primer	078174	yes
Quart	Clear Conduit Primer	078175	yes

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



## Tool and Repair Kits

### EPR Kits for Conduit Repair



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

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

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

Size (in)	Part Number	Product Code	Length (in)
1-1/4	EPR25	077976	24
1-1/2	EPR30	077971	24
2	EPR35	077972	24
2-1/2	EPR40	077973	24
3	EPR45	077974	24
4	EPR55	077975	24
5	EPR60	077977	24
6	EPR65	077979	24



### 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.

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



UL 514B, UL 514C  
UL 1653



TC-13



C22.2 No. 227.1, C22.2 No. 85  
FT-4 Rated



### Ease of Installation

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



### Bending & Cutting

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



### Kwikon Slab Boxes

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



### Pre-Assembly of Metallic Boxes

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



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

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



### Use in Ceilings

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



### Exposed Work

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



### Pulling Wire

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



### Transition from ENT to EMT

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



## NEC, Article 362

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



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

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

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

## Fire Resistive Construction & Wall Assemblies

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

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



## Kwikon ENT - Blue Stripe



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

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

## Kwikon ENT Reels - Color Coded

Size (in)	Length (ft)	Product Code			Weight lbs/reel
		Red	Yellow	Blue	
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

## 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

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

## 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 Coupling



Size (in)	Part Number	Product Code	Package Qty
1/2	KC10	089000	150
3/4	KC15	089001	100
1	KC20	089002	50
1-1/4	KC25	189670	30
1-1/2	KC30	189671	30
2	KC35	189672	20

### Kwikon Connector



Size (in)	Part Number	Product Code	Package Qty
1/2	KTA10	089006	150
3/4	KTA15	089007	100
1	KTA20	089008	50
1-1/4	KTA25	189680	30
1-1/2	KTA30	189681	30
2	KTA35	189682	20

### Kwikon Snap-in Connector



Size (in)	Part Number	Product Code	Package Qty
1/2	KTS10	089146	150
3/4	KTS15	089147	100
1	KTS20	089148	50

### Kwikon Transition Coupling



Size (in)	Part Number	Product Code	Package Qty
1/2	KTC10	089012	125
3/4	KTC15	089013	100
1	KTC20	089014	50

### Kwikon 90° Stub Down Fittings



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

Size (in)	Part Number	Product Code	Package Qty
1/2	KT90-10	089060	40
3/4	KT90-15	089059	35
1	KT90-20	089058	25

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

Size (in)	Part Number	Product Code	Package Qty
1/2	KK90-10	089055	40
3/4	KK90-15	089056	35
1	KK90-20	089057	25

### 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	Quantity
ESU-10-35	089149	20

### Kwikon ENT Form Stubby



Size (in)	Part Number	Product Code	Package Qty
1/2	KSTB-10	089330	150
3/4	KSTB-15	089331	150
1	KSTB-20	089332	150
1-1/4	KSTB-25	089333	150



### Kwikon ENT Angled Form Stubby



Size (in)	Part Number	Product Code	Package Qty
1/2	KASTB-10	089233	50
3/4	KASTB-15	089234	50
1	KASTB-20	089235	50
1-1/4	KASTB-25	089236	50
1-1/2	KASTB-30	089238	50



### Kwikon ENT Multi-Link™ Form Stubby

Size (in)	Part Number	Product Code	Package Qty
1/2	MSTB-10	089031	75
3/4	MSTB-15	089026	75
1	MSTB-20	089025	50



### Tapered Plugs

Size (in)	Part Number	Product Code	Package Qty
1/2	TP10	089003	100
3/4	TP15	089004	100
1	TP20	089005	100



### Kwikon Cutter & Blades

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

### Kwikon Slab Boxes

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



### Standard Slab Boxes

#### Slab Box with Molded Connectors

Hub Size (in)	Part Number	Product Code	Package Qty
8 x 1/2	SMB-H-10	089465	25
8 x 3/4	SMB-H-15	089462	25
4 x 1/2, 4 x 3/4	SMB-H-10/15	089458	25
4 x 1/2, 2 x 3/4, 2 x 1	SMB-H-10/20	089466	25
4 x 3/4, 4 x 1	SMB-H-15/20	089464	25

#### Slab Box without Molded Connectors

Knockout Size (in)	Part Number	Product Code	Package Qty
8 x 1/2	SMB-10	089460	25
4 x 1/2, 2 x 3/4, 2 x 1	SMB-10/20	089461	25

### 4" Square Slab Box

#### Slab Box with Molded Connectors

Hub Size (in)	Part Number	Product Code	Package Qty
8 x 1/2	SSBH-10	089467	25
8 x 3/4	SSBH-15	089468	25
4 x 1/2, 2 x 3/4,	SSBH-10/15	089469	25
4 x 1/2, 2 x 3/4, 2 x 1	SSBH-10/20	089474	25
4 x 3/4, 4 x 1	SSBH-15/20	089475	25



## Shallow Slab Box



### Shallow Slab Box with Molded Connectors

Hub Size (in)	Part Number	Product Code	Package Qty
8 x 1/2	SMBS-H-10	089480	20
4 x 1/2 & 4 x 3/4	SMBS-H-10/15	089481	20
8 x 3/4"	SMBS-H-15	089482	20
4 x 1/2, 2 x 3/4, 2 x 1	SMBS-H-10/20	089483	20
4 x 3/4 & 4 x 1	SMBS-H-15/20	089484	20
8 x 1/2	SMBS-10	089490	20
4 x 1/2, 2 x 3/4, 2 x 1	SMBS-10/20	089491	20

### Shallow Slab Box without Molded Connectors

Hub Size (in)	Part Number	Product Code	Package Qty
8 x 1/2	SMBS-10	089490	20
4 x 1/2, 2 x 3/4, 2 x 1	SMBS-10/20	089491	20

## ENT Mud Box



### Slab Box with Knockouts

Description	Part Number	Product Code	Carton Qty
4 x 1/2", 2 x 3/4", 2 x 1"	MB-10/20	089016	35
8 x 1/2" knockouts	MB-10	089017	35

### Slab Box with Molded Connectors (Hubs)

Description	Part Number	Product Code	Carton Qty
8 x 3/4" connectors	MBH-15	089018	35
4 x 1/2", 2 x 3/4", 2 x 1" connectors	MBH-10/20	089019	35
4 x 1/2", 4 x 3/4" connectors	MBH-10/15	089020	35
4 x 3/4", 4 x 1" knockouts	MBH-15/20	089021	35
8 x 1/2" connectors	MBH-10	089022	35

## 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 Vue™ vacuum formed removable covers

### 3-1/2" Deep Box

Size (inches)	Product Code	Part Number	Pkg Qty
4 x 1/2, 4 x 3/4	089496	SVDB-H-10/15	25
4 x 3/4, 4 x 1	089049	SVDB-H-15/20	25
4 x 1/2, 2 x 3/4, 2 x 1	089052	SVDB-H-10/20	25
8 x 3/4	089065	SVDB-H-15	25

### 2" Shallow Box

Size (inches)	Product Code	Part Number	Pkg Qty
4 x 1/2	089054	SVSB-H-10	70
4 x 3/4	089053	SVSB-H-15	70

## ENT Wall Boxes, Ceiling Boxes & Covers

Size (in)	Part Number	Product Code	Pkg Qty
Ceiling Box 2-1/16" Deep	KCB-10	089506	50
Raised 1/2" Single Device	KRC-10	089501	50
Raised 5/8" Single Device	KRC-15	089502	50
Raised 1/2" Two Devices	KRCD-2-10	089503	50
Raised 5/8" Two Devices	KRCD-2-15	089504	50
Round Flat Cover, 1/2" KO	KFC-10	089505	50
Square Flat Cover, 1/2" KO	KWBC-10	089500	50
Voltage Partition	KVP	089512	50



KRC-10



KRC-15



KVP



KFC-10



KWBC-10



KRCD-2-10



KRCD-2-15



KCB-10



## Short Form Sample Specification

### General

#### REFERENCES:

Standards referred to in this section are:

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

### Products

#### MANUFACTURERS:

Acceptable manufacturers are listed below:

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

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

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

#### RACEWAYS:

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

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

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

#### BOXES:

ENT boxes shall be manufactured of high impact PVC

ENT slab box and wall box requirements:

- Slab boxes shall be approved for the purpose and concrete-tight
- Round slab boxes shall be approved for use with luminaries up to 50 lbs. and ceiling fans up to 35 lbs.
- Round slab boxes shall have threaded brass inserts for the attachment of luminaries or ceiling fans
- 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)





### INEXO Boxes for ICF Construction

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

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

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



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

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



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



### 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.

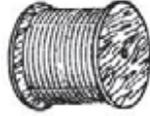
### Kwikflex - NMLT Flexible Conduit (Grey) Type B



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



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



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

### Kwikflex - 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 over regular NMLT. The service temperature range of Kwikflex Extra Flexible is a broad -5°F to 140°F.

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



### Kwikflex - NMLT 90° Elbows (Grey)



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



### Kwikflex - NMLT Straight Fittings (Grey)



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

### Kwikflex - NMLT Screw-on 90° Elbows (Grey)



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

### Kwikflex - NMLT Screw-on Straight Fittings (Grey)



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

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



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





## Mounting Options

### CEILING MOUNT      WALL MOUNT      PENDANT MOUNT



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



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



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

## Globe Options

Sceptalight offers a variety of globe options to suit a wide range of applications and environments. Our standard clear glass globes are ideal for general purpose area lighting for either indoor or outdoor use. Polycarbonate globes offer impact resistance in case of accidental contact and the assurance that work areas are not contaminated by broken glass. Colored globes - available in red, blue, green or amber - can transform the light to an indicator or warning light.



Clear Polycarbonate



Standard or Heat-treated Clear Glass



Heat-treated Red Glass



Heat-treated Blue Glass



Heat-treated Green Glass



Heat-treated Amber Glass

## Light Options

### Fluorescents

Our compact fluorescent fixtures work four to five times more efficiently per watt than incandescents and provide 10-20 times the lamp life, yet use approximately 75% less energy. In this way, Sceptalight fluorescents lower energy and maintenance costs without sacrificing light levels.

### Incandescents

With their low initial cost, Sceptalight incandescent fixtures make the most practical choice to meet the daily needs of commercial, industrial, marine and agricultural applications. Our incandescents are ideal for short burn times as well as flashing and dimming applications.

### Suggested Specification

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

Incandescent light fixtures shall be rated for use with a Maximum 150 Watt incandescent lamp for wet and hazardous locations and to a Maximum 100 Watt for marine locations. Compact fluorescent light fixtures shall be of the wattage specified and be supplied complete with lamp and ballast (high power factor, low harmonic electronic for 18 & 26 Watt fixtures and magnetic for 7, 9 & 13 Watt fixtures).

Light fixtures shall be third-party certified to UL1598A for marine locations with salt water, UL1598 for indoor/outdoor wet location use and where the specified installation requires; Class I Div 2 and Class II Div 2 hazardous location use.

Approved Products:

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

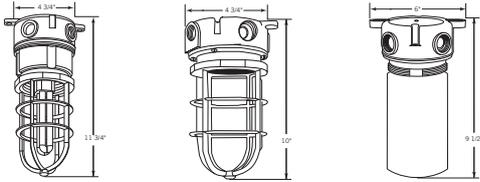




### Wet Locations

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

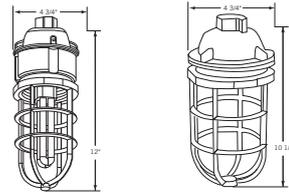
### Ceiling Mount



Ceiling Mount  
Polycarbonate Globe

Ceiling Mount with Standard Clear Glass Globe		Part Number	Product Code
150W	Incandescent	LVPF150C	077225
150W	Incandescent less guard	LVPF150LG	077237
26W	Compact Fluorescent	LVPL26C	077170
18W	Compact Fluorescent	LVPL18C	077210
13W	Compact Fluorescent	LVPL13C	077122
9W	Compact Fluorescent	LVPL9C	077121
7W	Compact Fluorescent	LVPL7C	077120
Ceiling Mount with Clear Polycarbonate Globe (no guard)		Part Number	Product Code
26W	Compact Fluorescent	LVPL26PCC	077176
18W	Compact Fluorescent	LVPL18PCC	077211
13W	Compact Fluorescent	LVPL13PCC	077165
9W	Compact Fluorescent	LVPL9PCC	077155
7W	Compact Fluorescent	LVPL7PCC	077145

### Pendant Mount



Pendant Mount with Standard Clear Glass Globe		Part Number	Product Code
150W	Incandescent	LPMP150C	077231
26W	Compact Fluorescent	LPPL26C	077184
18W	Compact Fluorescent	LPPL18C	077212
13W	Compact Fluorescent	LPPL13C	077185
9W	Compact Fluorescent	LPPL9C	077183
7W	Compact Fluorescent	LPPL7C	077182
Pendant Mount with Clear Polycarbonate Globe (no guard)		Part Number	Product Code
26W	Compact Fluorescent	LPPL26PCC	077375
18W	Compact Fluorescent	LPPL18PCC	077273
13W	Compact Fluorescent	LPPL13PCC	077365
9W	Compact Fluorescent	LPPL9PCC	077355
7W	Compact Fluorescent	LPPL7PCC	077345

Note: Sceptalight compact fluorescent light fixtures are supplied complete with lamp and ballast.



## Utility Light Fixture



LVPE150

LVPE150-PCC\*



LVPE150-1015G

LVPUG150

Ceiling Mount Utility Fixtures  
Hub size 1/2" to 3/4"

Utility Light Fixture 150 Watt Incandescent	Part Number	Product Code
w/ Standard Glass Globe	LVPE150-10/15	078666
w/ Polycarbonate Globe	LVPE150-PCC*	278033
w/ Standard glass globe & guard	LVPE150-05/07G	278036
w/ Heat resistant glass globe clear	LVPEHRC150	078716
w/ Heat resistant glass globe red	LVPEHRR150	078736
w/ Heat resistant glass globe blue	LVPEHRB150	078738
w/ Heat resistant glass globe green	LVPEHRG150	078748
w/ Heat resistant glass globe amber	LVPEHRA150	078749
Clamp-on guard for LVPE	LVPUG150	077558
Fixture c/w Clear Glass Globe & Clamp-on guard	LVPE150-1015G	077402

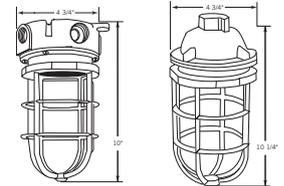
\* Maximum 60W incandescent lamp with polycarbonate globe

Note: Sceptalight compact fluorescent light fixtures are supplied complete with lamp and ballast.



## Marine Locations

C22.2 No. 250  
UL 1598, UL 1598A  
Minimum 110°C supply conductors



ceiling mount

pendant mount

## Ceiling

Ceiling Mount with Heat Resistant Glass Globe	Part Number	Product Code
100W Incandescent	LVPF100C-MAR	077275

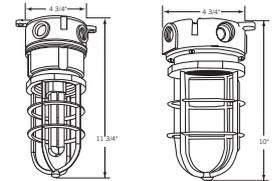
## Pendant

Ceiling Mount with Heat Resistant Glass Globe	Part Number	Product Code
100W Incandescent	LPMF100C-MAR	077276



## Hazardous Locations

Class I, DIV 2 Groups A,B,C & D  
Class II, DIV 2 Groups F & G  
Minimum 90°C supply conductors



ceiling mounts

## Ceiling

Ceiling Mount with Heat Resistant Glass Globe	Part Number	Product Code
150W Incandescent clear	LVPF150HRC-HAZ	077414
150W Incandescent red	LVPF150HRR-HAZ	077415
150W Incandescent blue	LVPF150HRB-HAZ	077416
150W Incandescent green	LVPF150HRG-HAZ	077417
150W Incandescent amber	LVPF150HRA-HAZ	077494
26W Compact Fluorescent clear	LVPL26HRC-HAZ	077377
26W Compact Fluorescent red	LVPL26HRR-HAZ	077378
26W Compact Fluorescent blue	LVPL26HRB-HAZ	077379
26W Compact Fluorescent green	LVPL26HRG-HAZ	077399
26W Compact Fluorescent amber	LVPL26HRA-HAZ	077400
18W Compact Fluorescent clear	LVPL18HRC-HAZ	077347
18W Compact Fluorescent red	LVPL18HRR-HAZ	077348
18W Compact Fluorescent blue	LVPL18HRB-HAZ	077349
18W Compact Fluorescent green	LVPL18HRG-HAZ	077353
18W Compact Fluorescent amber	LVPL18HRA-HAZ	077354







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