ELECTRICAL PRODUCT CATALOG















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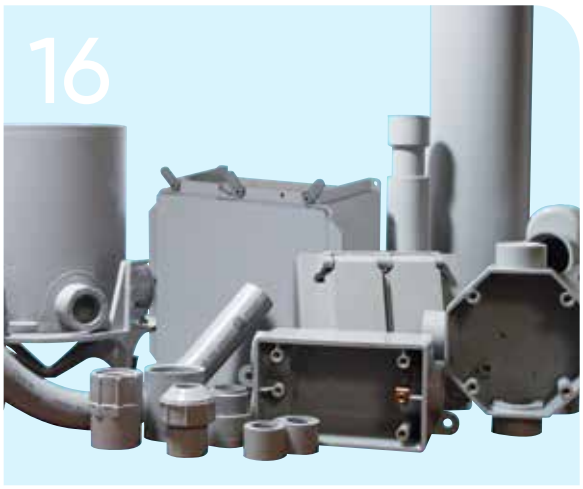
- Rigid PVC Conduit & Fittings
- Next Generation Junction Box
- Conduit Repair
- Nonmetallic Tubing & Fittings
- PVC Raceway for HDD
- Nonmetallic Light Fixtures
- NMLT Conduit & Fittings
- Power & Communication Duct
- Specialty Products

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IPEX USA LLC electrical systems perform in the toughest surroundings underground or above grade. Our comprehensive range of products serve today's electrical, utility and telecommunication infrastructure construction needs.

IPEX products meet or exceed industry standards so you can be confident in partnering with us whether you are specifying, purchasing or installing. IPEX products are the premier choice of electricians, power utilities, telecom service providers and infrastructure contractors. When your reputation is on the line, you can depend on IPEX for quality products and superior service.







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ELECTRICAL EASY SPEC

PRODUCT	SIZE RANGE	STANDARDS	APPLICATIONS
RIGID PVC CONDUIT & FITTINGS			
Scepter® Rigid PVC Conduit Schedule 40/80	1/2" - 8"	CSA C22.2 No. 211.2, No.211.0, UL651, R US Listed 90°C, NEMA TC2, NSF, FT4	Utilities, cable, communications, residential, airports, subways, bridges & tunnels, mines, marinas, water/sewage treatment plants, pulp & paper industries, street & highway lighting, food processing plants, agricultural, parking garages, car washes, fish plants,steel mills
Scepter® Rigid PVC Fittings	1/2" - 8"	CSA C22.2 No. 85, UL Listed, UL514B - UL514C, NEMA TC3	
EPR® Repair Kit	1-1/4" - 6"	Material Standard, ASTM	DB II duct repair, rigid PVC repair, concrete encased, direct burial, EB & DB Sch. 40/80 and HDPE
NONMETALLIC TUBING & FITTINGS			
Kwikon® ENT & Fittings	1/2" -2-1/2"	CSA C22.2 No. 227.1, NEMA TC-13, UL 514B, 514C, 1653, 91NK 13191 E122659 Fire Test Report, Fire Tests – ULC – City of L.A.	Residential, commercial, institutional, hospitals & nursing homes, stadiums & arenas
PVC RACEWAY FOR HORIZONTAL DIRECTIONAL DRILLING			
SceptaCon™ PVC for HDD	2" - 6"	CSA C22.2 No. 211.0/211.2, UL 651, NEMA TC2	Environmentally sensitive areas, historical landmarks, road & highway crossings, urban areas, street lights, traffic lights
NONMETALLIC LIGHT FIXTURES			
Sceptalight™ LED	3/4" Threaded hubs, Ceiling mount, Wall mount	Wet Locations: CSA C22.2 No. 250, UL 1598 Hazardous Locations: UL 844 CLASS I, DIV 2 & CLASS II, DIV 2	Chemical plant, food processing, highway tunnels, mine tunnels, walk-in freezers, industrial/ commercial, marine, agricultural, waste water, greenhouses
NMLT CONDUIT & FITTINGS			
Kwikflex® Conduit	3/8" - 2"	CSA C22.2 No. 227.2, UL 1660	HVAC equipment, marine equipment, motors and controls, printing equipment, refrigeration equipment, transformer connections, machine tools, pumps, outdoor lighting (-5°F to 140°F / -20°C to 60°C)
Kwikflex® Fittings	3/8" - 2"	UL 514B	
POWER & COMMUNICATIONS DUCT			
Super Duct® Pipe and Fittings	2" - 6"	CSA C22.2 No. 211.1, UL 651, NEMA TC6 & TC8	Utilities, telecom, hospitals/medical complexes, commercial buildings, communications, cable
Interlocking Spacers	2" - 5"	Material Specifications	Underground duct banks, medical campus, university campus
SPECIALTY PRODUCTS			
INEXO® ICF Boxes	1/2", 3/4", 1"	CSA C22.2 No. 18.2, UL514C	Insulated concrete form (ICF) buildings, schools, churches, hotels

ELECTRICAL TYPE DESIGNATION

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

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

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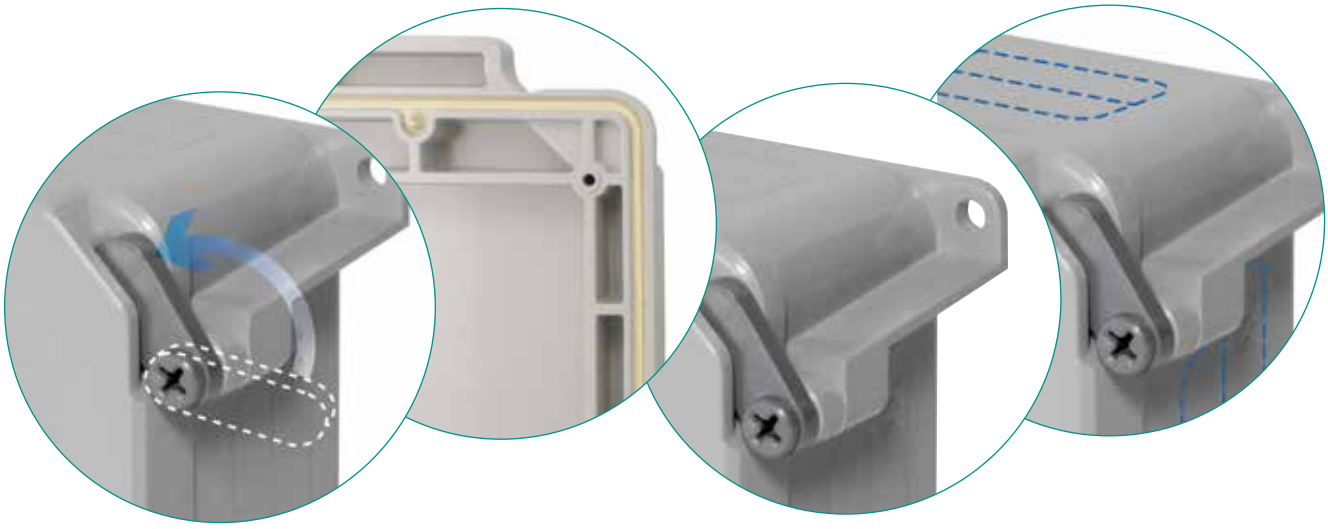
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Meet the FASTEST Junction Box to install anywhere!

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

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



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

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

Rigid PVC Conduit & Fittings






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SCEPTER RIGID PVC CONDUIT & FITTINGS

1/2" - 6" (16mm - 200mm)

Professional electricians ask for Scepter conduit by name for the quality and superior performance that ensures a long trouble free life. Scepter conduit is light weight and offers excellent chemical resisitance, high tensile and impact strength, and the FT-4 rating permits use in noncombustible construction.

Suitable for exposed, concrete encased and direct burial applications, Scepter conduit requires no extra protection and is third party certified by CSA and NSF (sizes 1/2" - 6").

SHORT FORM SPECIFICATIONS

All wiring shall be installed in Rigid PVC conduit and secured to PVC boxes and cabinets by means of proper fittings. All boxes, access fittings and covers shall be furnished with threaded brass inserts, brass screws and PVC gaskets.

Rigid PVC fittings and junction boxes shall be used for all outlets, pull boxes and junction points. All PVC junction boxes shall be NEMA 1, 2, 3, 4, 4X, 6P, 12 and 13 rated and UL Listed for wet locations.

Exposed conduit shall be securely held in place by suitable hangers or straps with the maximum spacing of points for supports not exceeding those specified in the CEC or NEC. Except when embedded in concrete, rigid conduit pipe shall not be clamped tightly. It shall be supported in such a manner as to permit adequate linear movement, allowing for expansion and contraction of conduit due to temperature change. Where a temperature change exceeding 25°F (14°C) is anticipated, rigid PVC expansion joints shall be installed in accordance with the manufacturer's recommendations.

Proper care shall be taken when field bending, to maintain the internal diameter and wall thickness of the conduit.

The contractor shall furnish and install Scepter Rigid PVC conduit pipe and fittings made by IPEX. Where the engineer's specifications indicate Scepter products or equivalent, the equivalent shall be CSA certified and accepted by the Canadian Electrical Code. Due to broad manufacturing tolerances, all pipe and fitting products shall be of the same manufacturer.

APPLICATIONS

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

STANDARDS

Scepter Rigid PVC Conduit conforms to: CSA C22.2 No. 211.2, CSA C22.2 No. 211.0
NSF Certified to UL651
Sunlight Resistant
Rated for use with 90°C conductors
NEMA TC2
Corps. of Engineers Spec. CE 303:01
Military Spec, Federal Spec. WC 1094A

Scepter Rigid PVC boxes and fittings conform to: CSA C22.2 No. 85

UL Listed UL514B - UL514C

DID YOU KNOW?

Compared to metal, PVC products reduce labour on a typical installation by up to two-thirds. The reason? PVC is easy to work with. It can also be cut and joined without the usual pipe vices, cutters, threading equipment, and reamers associated with metal conduit.

ADVANTAGES

1 Labor Savings
Compared to metal, PVC products reduce labor on a typical installation by up to two-thirds. The reason? PVC is easy to work with. It can also be cut and joined without the usual pipe vices, cutters, threading equipment and reamers associated with metal conduit.

2 Lightweight Conduit
Scepter Rigid PVC Conduit is one-half the weight of aluminum and one-sixth the weight of steel. As a result, handling and installation are easier and faster, reducing labour costs.

3 Easy Joining
Solvent cementing is all that is required, eliminating the need for power-threading machines, pipe vices and cutting equipment. A hacksaw or carpenter's saw is the only equipment required. IPEX Cements and Primers are UL GREENGUARD Gold certified.

4 Strength
Scepter Rigid PVC Conduit offers both high impact and high tensile strength. And, even in cold temperatures, exceeds all CSA and UL standards.

5 Easy Wire Pulls
PVC's exceptionally smooth interior surface greatly reduces the amount of friction while pulling conductors/ wires through long runs, even with 90° bends. A large pull-rope and wire-pulling lubricant should be used when pulling all conductors and wires.

6 Noncorroding
PVC is immune to damage from naturally corrosive soil conditions, as well as electro-chemical and galvanic corrosion. This ensures lower maintenance costs and superior performance.

7 Nonconducting
Scepter Rigid PVC Conduit pipe and fittings are nonsparking and nonconducting, thereby eliminating the most dangerous 'second point of contact' and 'phase to ground' faults. The use of a separate grounding conductor in a Scepter PVC conduit system gives a complete and positive ground for the whole system.

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

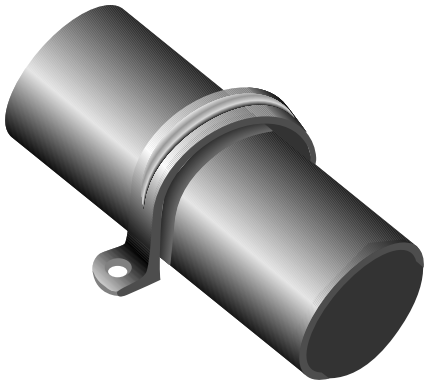
9 Long Life
Scepter Rigid PVC Conduit pipe and fittings retain their original properties after years of exposure to heat and weather. In addition, resistance to fungi, bacterial action, rodents, termites and corrosive agents ensures a long, trouble-free life for PVC conduit installed indoors or outdoors.

10 Fire Resistant
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.

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



TECHNICAL INFORMATION



SUPPORT

Due to PVC's light weight, support spacing is different than that used with metal conduits. Supporting straps should NOT be firmly tightened, to allow for linear movement. The maximum allowable support spacing, per the National Electrical Code Article 352.30 (B) is as follows:

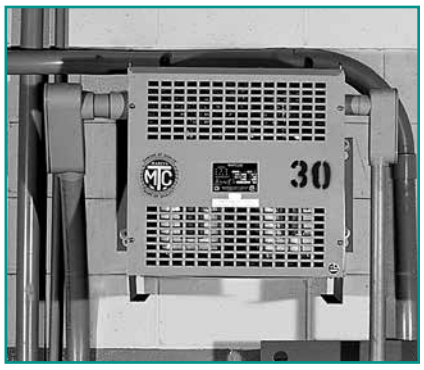
SUPPORT SPACING

Nominal Conduit Diameter inches	National Electrical Code Max. Support Spacing in feet
1/2	2-1/2
3/4	2-1/2
1	2-1/2
1-1/4	4
1-1/2	4
2	5
2-1/2	6
3	6
3-1/2	7
4	7
5	7
6	8



MAX OPERATING TEMPERATURE

The National Electrical Code (NEC) allows the use of rigid nonmetallic conduit (RNC) and fittings in locations where ambient temperatures are not in excess of 122°F.



CUTTING

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

SOLVENT CEMENTING





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

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

IPEX Cements and Primers are UL GREENGUARD Gold certified and are available in half-pint (250ml), pint (500ml), quart (1-litre) and gallon (4-litre) containers. The shelf life of conduit cement and primer is 3 years from the date of manufacture. The date code stamped on the bottom of the can is the date of manufacture, not the expiry date. Always verify that the cement is within this 3-year time frame before using. To search which products are certified and view/download their certificates, please visit the SPOT UL website.

BENDING

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

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

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

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

TECHNICAL INFORMATION EXPANSION FITTINGS

USING EXPANSION JOINTS

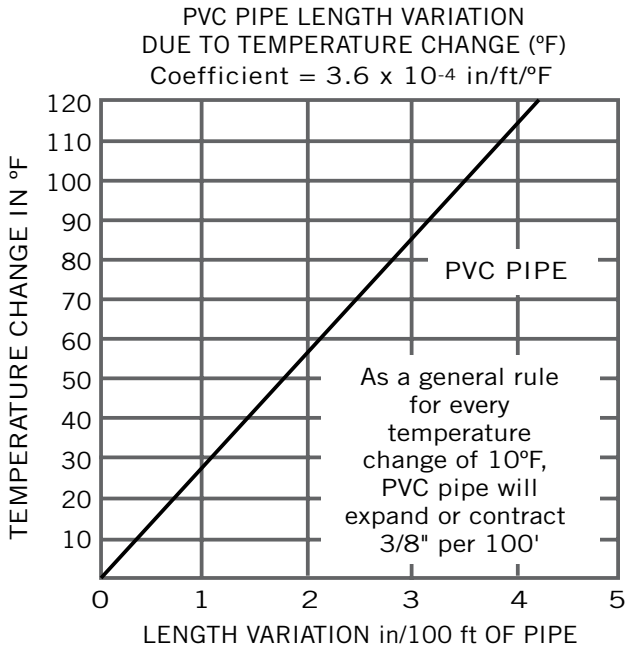
It is equally important to know when to install an expansion joint as it is to know how to correctly install the expansion joint. Expansion joints are required when the temperature change is greater than 25°F. Scepter Rigid PVC Conduit has a coefficient of linear expansion of 3.6 x 10-4 in./ft./°F. Generally,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

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

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

EXPANSION FORMULA

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



°F Total Expansion (in.) = length of run (ft.)

x temperature change (°F) x 0.00036

TECHNICAL INFORMATION EXPANSION FITTINGS

NUMBER OF EXPANSION JOINTS REQUIRED

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

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

E = Expansion joint travel length 4" or 8" depending on diameter.

Always round up to the next whole number.

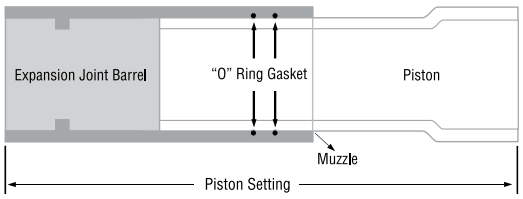
SETTING THE PISTON OPENING

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

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

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

.



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

COMMON MISTAKES

Three common mistakes are:

1. Forgetting to use expansion joints.

2. Not using enough expansion joints.

3. Overtightening of support straps.

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

TECHNICAL INFORMATION EXPANSION FITTINGS

INSTALLATION OF EXPANSION JOINTS

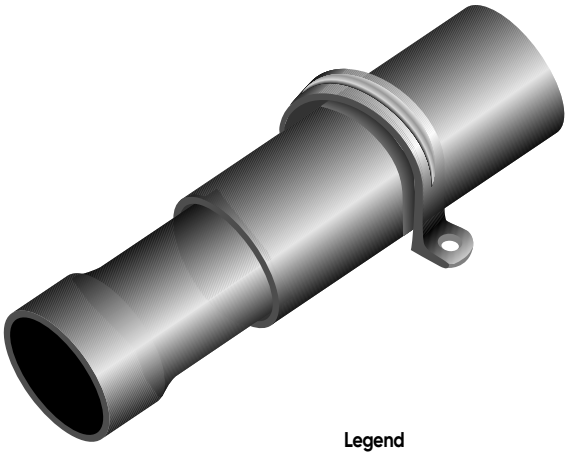
USING EXPANSION JOINTS

Proper functioning of an expansion joint depends on three procedures:

1. The correct placement of the expansion joint.

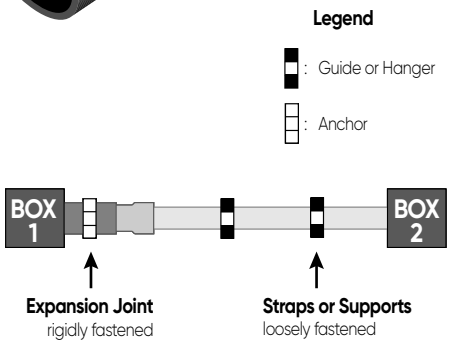
2. The proper installation of Scepter Rigid PVC Conduit and the expansion joint.

3. The proper placement and fastening of support straps.



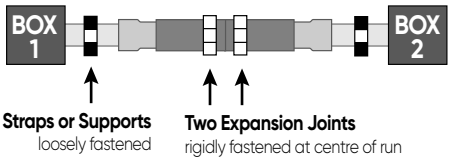
One Expansion Joint - Figure 1

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



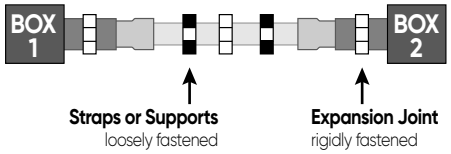
Two Expansion Joints - Figure 2

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



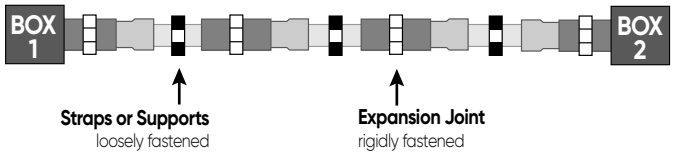
Two Expansion Joints (Alternative) - Figure 3

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



Three or More Expansion Joints - Figure 4

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



INSTALLATION RECOMMENDATIONS

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

WEIGHT COMPARISON OF SCHEDULE 40 CONDUIT

Nominal Size	Sch 40 PVC	Sch 80 PVC	Aluminum	Rigid Steel
inches	lbs/100ft	lbs/100ft	lbs/100ft	lbs/100ft
1/2	15	21	28	79
3/4	21	28	27	105
1	31	41	53	153
1-1/4	42	57	70	201
1-1/2	53	70	86	249
2	71	96	116	334
2-1/2	112	146	183	527
3	166	195	239	690
3-1/2	200	-	288	831
4	236	286	340	982
5	321	397	465	1334
6	417	546	613	1771

PHYSICAL PROPERTIES OF PVC TYPE II

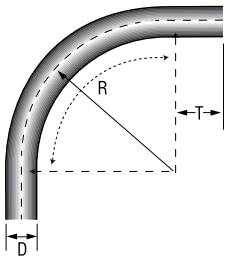
Properties	Unit	Value	ASTM Test Method
Electrical			
Dielectric Strength	volts/mil	1215	D149
Dielectric Constant	60 cps at 30°C 1000 cps at 30°C	3.55 3.22	D150 D150
Power Factor	60 cps at 30°C 1000 cps at 30°C	4.04 4.71	D150 D150
Physical			
Specific Gravity		13.5	D792
Hardness	Durometer D	78	D676
Izod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

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

PRODUCT SELECTION CHART & DIMENSIONS

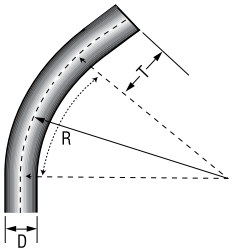
Nominal Size inches	10' Product Code	20' Product Code	O.D. inches	I.D. inches	Min. Wall inches	Weight lbs./100	Standard 10' ft./crate
Schedule 40 Heavy Wall in 10' or 20' Lengths							
1/2	032405	032406	0.840	0.622	0.109	15	6,000
3/4	032407	032408	1.050	0.824	0.113	21	4,400
1	032410	032411	1.315	1.049	0.133	31	3,600
1-1/4	032412	032414	1.660	1.380	0.140	42	3,300
1-1/2	032415	032416	1.900	1.610	0.145	53	2,250
2	032420	032421	2.375	2.067	0.154	71	1,400
2-1/2	032425	032426	2.875	2.469	0.203	112	930
3	032430	032431	3.500	3.068	0.216	166	880
3-1/2	032435	032436	4.000	3.548	0.226	200	630
4	032440	032441	4.500	4.026	0.237	236	570
5	032450	032451	5.563	5.047	0.258	321	380
6	032460	032461	6.625	6.065	0.280	417	260
Schedule 80 Extra Heavy Wall in 10' or 20' Lengths							
1/2	032505	032506	0.840	0.546	0.147	21	6,000
3/4	032507	032508	1.050	0.724	0.154	28	4,400
1	032510	032511	1.315	0.957	0.179	41	3,600
1-1/4	032512	032514	1.660	1.278	0.191	57	3,300
1-1/2	032515	032516	1.900	1.500	0.200	70	2,250
2	032520	032521	2.375	1.939	0.218	96	1,400
2-1/2	032525	032526	2.875	2.323	0.276	146	930
3	032530	032531	3.500	2.900	0.300	195	880
4	032540	032541	4.500	3.826	0.337	286	570
5	032550	032551	5.563	4.813	0.375	397	380
6	032560	032561	6.625	5.761	0.432	546	260

CONDUIT ELBOWS



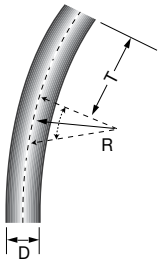
90° Elbows Schedule 40 Standard Radius

Size inches	Part Number	Product Code	D inches	T inches	R inches
1/2	EE1090	068580	0.840	1.500	4.00
3/4	EE1590	068581	1.050	1.500	4.50
1	EE2090	068582	1.315	1.875	5.75
1-1/4	EE2590	068583	1.660	2.000	7.25
1-1/2	EE3090	068584	1.900	2.000	8.25
2	EE3590	068585	2.375	2.000	9.50
2-1/2	EE4090	068586	2.875	3.000	10.50
3	EE4590	068587	3.500	3.125	13.00
3-1/2	EE5090	068588	4.000	3.250	15.00
4	EE5590	068589	4.500	3.375	16.00
5	EE6090	068591	5.563	3.625	24.00
6	EE6590	068592	6.625	3.750	30.00



45° Elbows Schedule 40 Standard Radius

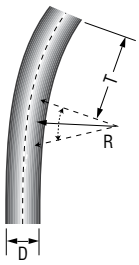
1/2	EE1045	068600	0.840	1.500	4.00
3/4	EE1545	068601	1.050	1.500	4.50
1	EE2045	068602	1.315	1.875	5.75
1-1/4	EE2545	068603	1.660	2.000	7.25
1-1/2	EE3045	068604	1.900	2.000	8.25
2	EE3545	068605	2.375	2.000	9.50
2-1/2	EE4045	068606	2.875	3.000	10.50
3	EE4545	068607	3.500	3.125	13.00
3-1/2	EE5045	068608	4.000	3.250	15.00
4	EE5545	068609	4.500	3.375	16.00
5	EE6045	068611	5.563	3.625	24.00
6	EE6545	068612	6.625	3.750	30.00



30° Elbows Schedule 40 Standard Radius

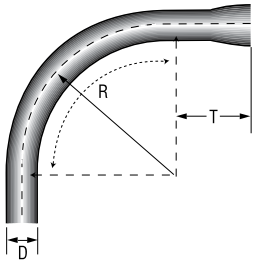
1/2	EE1030	068620	0.840	1.500	4.00
3/4	EE1530	068621	1.050	1.500	4.50
1	EE2030	068622	1.315	1.875	5.75
1-1/4	EE2530	068623	1.660	2.000	7.25
1-1/2	EE3030	068624	1.900	2.000	8.25
2	EE3530	068625	2.375	2.000	9.50
2-1/2	EE4030	068626	2.750	3.000	10.50
3	EE4530	068627	3.500	3.125	13.00
3-1/2	EE5030	068628	4.000	3.250	15.00
4	EE5530	068629	4.500	3.375	16.00
5	EE6030	068631	5.563	3.625	24.00
6	EE6530	068632	6.625	3.750	30.00

CONDUIT ELBOWS



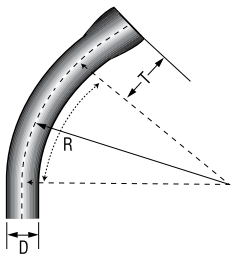
22-1/2° Elbows Schedule 40 Standard Radius

Size inches	Part Number	Product Code	D inches	T inches	R inches
1-1/2	EE1522	078580	1.900	2.000	8.25
2	EE2022	078581	2.375	2.000	9.50
2-1/2	EE2522	078582	2.875	3.000	10.50
3	EE3022	078583	3.500	3.125	13.00
3-1/2	EE3522	078584	4.000	3.250	15.00
4	EE4022	078585	4.500	3.375	16.00
5	EE5022	078586	5.563	3.625	24.00
6	EE6022	078587	6.625	3.750	30.00



90° Elbows Schedule 40 - Integral Bell End

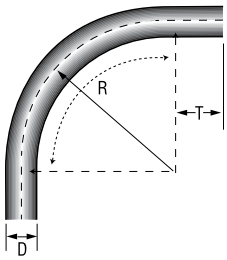
1/2	EE1090B	068420	0.840	1.500	4.00
3/4	EE1590B	068421	1.050	1.500	4.50
1	EE2090B	068422	1.315	1.875	5.75
1-1/4	EE2590B	068423	1.660	2.000	7.25
1-1/2	EE3090B	068424	1.900	2.000	8.25
2	EE3590B	068425	2.375	2.000	9.50
2-1/2	EE4090B	068426	2.875	3.000	10.50
3	EE4590B	068427	3.500	3.125	13.00
3-1/2	EE5090B	068428	4.000	3.250	15.00
4	EE5590B	068429	4.500	3.375	16.00
5	EE6090B	068430	5.563	3.625	24.00
6	EE6590B	068431	6.625	3.750	30.00



45° Elbows Schedule 40 - Integral Bell End

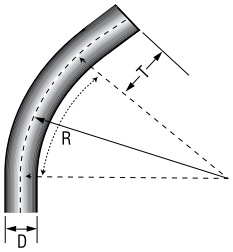
1/2	EE1045B	068561	0.840	1.500	4.00
3/4	EE1545B	068562	1.050	1.500	4.50
1	EE2045B	068563	1.315	1.875	5.75
1-1/4	EE2545B	068564	1.660	2.000	7.25
1-1/2	EE3045B	068565	1.900	2.000	8.25
2	EE3545B	068566	2.375	2.000	9.50
2-1/2	EE4045B	068567	2.875	3.000	10.50
3	EE4545B	068568	3.500	3.125	13.00
3-1/2	EE5045B	068569	4.000	3.250	15.00
4	EE5545B	068570	4.500	3.375	16.00
5	EE6045B	068571	5.563	3.625	24.00
6	EE6545B	068572	6.625	3.750	30.00

CONDUIT ELBOWS



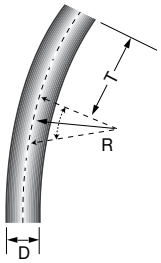
90° Elbows Schedule 80 Standard Radius

Size inches	Part Number	Product Code	D inches	T inches	R inches
1/2	80EE1090	068690	0.840	1.500	4.00
3/4	80EE1590	068691	1.050	1.500	4.50
1	80EE2090	068692	1.315	1.875	5.75
1-1/4	80EE2590	068693	1.660	2.000	7.25
1-1/2	80EE3090	068694	1.900	2.000	8.25
2	80EE3590	068695	2.375	2.000	9.50
2-1/2	80EE4090	068696	2.875	3.000	10.50
3	80EE4590	068697	3.500	3.125	13.00
4	80EE5590	068698	4.500	3.375	16.00
5	80EE6090	068699	5.563	3.625	24.00
6	80EE6590	068700	6.625	3.750	30.00



45° Elbows Schedule 80 Standard Radius

1/2	80EE1045	068810	0.840	1.500	4.00
3/4	80EE1545	068811	1.050	1.500	4.50
1	80EE2045	068812	1.315	1.875	5.75
1-1/4	80EE2545	068813	1.660	2.000	7.25
1-1/2	80EE3045	068814	1.900	2.000	8.25
2	80EE3545	068815	2.375	2.000	9.50
2-1/2	80EE4045	068816	2.875	3.000	10.50
3	80EE4545	068817	3.500	3.125	13.00
4	80EE5545	068818	4.500	3.375	16.00
5	80EE6045	068819	5.563	3.625	24.00
6	80EE6545	068820	6.625	3.750	30.00



30° Elbows Schedule 80 Standard Radius

1/2	80EE1030	068550	0.840	1.500	4.00
3/4	80EE1530	068551	1.050	1.500	4.50
1	80EE2030	068552	1.315	1.875	5.75
1-1/4	80EE2530	068553	1.660	2.000	7.25
1-1/2	80EE3030	068554	1.900	2.000	8.25
2	80EE3530	068555	2.375	2.000	9.50
2-1/2	80EE4030	068556	2.750	3.000	10.50
3	80EE4530	068557	3.500	3.125	13.00
4	80EE5530	068558	4.500	3.375	16.00
5	80EE6030	068559	5.563	3.625	24.00
6	80EE6530	068560	6.625	3.750	30.00

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	#	#
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		#	#	#	#
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	Use Standard Schedule 40 Elbow	068728	068748	068768	068788	#
	45		068828	068848	068868	068888	#
	30		068928	068948	068968	068988	#
	22-1/2		068130	#	#	#	#
4	90	Use Standard Schedule 40 Elbow	068729	068749	068769	068789	068112
	45		068829	068849	068869	068889	078011
	30		068929	068949	068969	068989	#
	22-1/2		068518	068519	068520	068521	068111
5	90	Use Standard Schedule 40 Elbow		068751	068771	068791	068115
	45			068851	068871	068891	078615
	30			068951	068971	068991	068132
	22-1/2			068529	068522	#	#
6	90	Use Standard Schedule 40 Elbow			068772	068792	#
	45				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.
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	068014	068030	068054	068078
	45	068015	068033	068055	068079
2-1/2	90	068016	068034	068056	068086
	45	068017	068035	068057	068090
3	90	068018	068036	068058	068091
	45	068019	068037	068059	068092
3-1/2	90	Use Std. Sch. 40 Radius (15")	068038	068070	068093
	45		068039	068071	068094
4	90	Use Std. Sch. 40 Radius (16")	068050	068072	068095
	45		068053	068073	068096
5	90	Use Std. Sch. 40 Radius (24")		068074	068097
	45			068075	068098
6	90	Use Std. Sch. 40 Radius (30")		068076	068099
	45			068077	068106

CONDUIT ELBOWS - SCHEDULE 80 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
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	#	068775	068544
	45	#	068530	#	068534	#
2-1/2	90	068714	068737	#	068776	068548
	45	#	068531	#	068535	#
3	90	068715	068738	#	068777	068794
	45	#	068532	#	068536	#
4	90	068716	068739	068549	068778	068795
	45	#	068533	#	068537	#
5	90	Use Standard Schedule 80 Radius (24")		#	068779	068796
	45			#	068538	068546
6	90				068540	068797
	45				068539	#

Note: 1) # indicates available on request. Material is non-cancelable and non-returnable.
2) 30° and 22½° Elbows are available on request.
3) Larger Radius Elbows are available on request and are non-cancelable and non-returnable.



Pipe Straps PVC 2 Hole

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



Pipe straps Polyethylene (PE) 2 Hole

2-1/2	PS40	077262
3	PS45	077263
4	PS55	077264



Nonmetallic Conduit Clamps & Wall Spacers

1/2	CCS10	077794
3/4	CCS15	077796
1	CCS20	077797
1-1/4	CCS25	077798
1-1/2	CCS30	077799
2	CCS35	077800
Base	CCS-B	077343

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



Pipe straps Coated Steel 1 Hole

1/2	CS10-1	077831
3/4	CS15-1	077832
1	CS20-1	077833
1-1/4	CS25-1	077834
1-1/2	CS30-1	077835
2	CS35-1	077836
3	CS45-1	077838
3-1/2	CS50-1	077839
4	CS55-1	077840

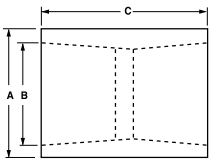


Size inches	Part Number	Product Code
Pipe straps Coated Steel 2 Hole		
2	CS35	077818
2-1/2	CS40	077819
3	CS45	077820
3-1/2	CS50	077821
4	CS55	077822
5	CS60	077824
6	CS65	077823



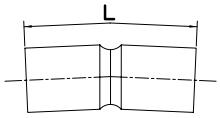
Poly Plugs		
2 - 2-1/2	PP3540	077433
3 - 3-1/2	PP4550	077434
4	PP55	077435
5	PP60	077436
6	PP65	077437



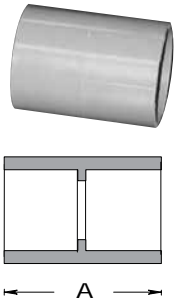


Size inches	Part Number	Product Code	A inches	B inches	C inches
Couplings					
1/2	EC10	068000	1.06	0.84	1.40
3/4	EC15	068001	1.31	1.06	1.64
1	EC20	077003	1.59	1.32	2.03
1-1/4	EC25	077004	2.00	1.66	2.16
1-1/2	EC30	077005	2.23	1.90	2.28
2	EC35	077006	2.72	2.38	2.41
2-1/2	EC40	077007	3.32	2.88	3.19
3	EC45	077008	4.00	3.50	3.44
3-1/2	EC50	077009	4.50	4.00	3.63
4	EC55	077010	5.00	4.50	3.75
5	EC60	077011	6.12	5.56	4.19
6	EC65	077012	7.37	6.63	4.56
8	**EC70**	**077866**	**9.30**	**8.66**	**8.25**

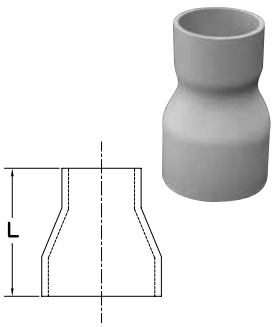




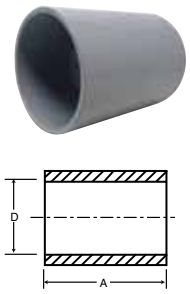
Size inches	Part Number	Product Code	L inches
5° couplings			
2	5EC35	077100	4.0
2-1/2	5EC40	077101	5.5
3	5EC45	077103	6.0
3-1/2	5EC50	077102	7.0
4	5EC55	277092	7.0
5	5EC60	277093	7.5
6	5EC65	277162	12.2



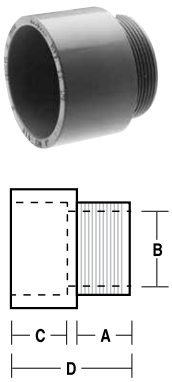
Size inches	Part Number	Product Code	A inches
Long Line Couplings			
1-1/2	LLC30	077192	2.74
2	LLC35	077193	3.68
2-1/2	LLC40	077194	4.28
3	LLC45	077195	4.80
4	LLC55	077196	6.20
5	LLC60	078068	8.22
6	LLC65	077198	8.22



Size inches	Part Number	Product Code	L inches
Fabricated Swedge Reducer Couplings			
2 x 1-1/4	SW3525	077320	4.0
3 x 2	SW4535	077321	6.0
3 x 2-1/2	SW4540	077335	6.5
4 x 2	SW5535	077322	7.0
4 x 2-1/2	SW5540	069282	-
4 x 3	SW5545	077333	7.0

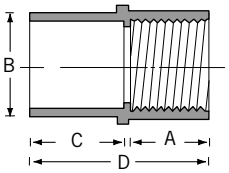


Size inches	Part Number	Product Code	A inches	D Miin inches	D Max inches
Repair Coupling Sleeve					
1-1/2	REC30	077292	2.30	1.91	1.92
2	REC35	277293	6.50	2.37	2.40
2-1/2	REC40	077294	3.45	2.88	2.90
3	REC45	277295	6.50	3.51	3.52
4	REC55	277296	8.00	4.51	4.52
5	REC60	277297	8.00	5.58	5.60
6	REC65	277298	8.00	6.65	6.67



Size inches	Part Number	Product Code	A inches	B inches	C inches	D inches
Terminal Adapters - 1/2" - 1-1/4" Tapered Thread; 1-1/2" - 6" Non-Tapered Thread						
1/2	TA10	077021	0.70	0.59	0.75	1.55
3/4	TA15	077022	0.68	0.79	1.00	1.75
1	TA20	077023	0.63	1.00	1.12	1.86
1-1/4	TA25	077024	0.64	1.31	1.30	2.13
1-1/2	TA30	077025	0.73	1.53	1.43	2.25
2	TA35	077026	0.80	1.97	1.15	2.10
2-1/2	TA40	077027	0.80	2.35	1.90	2.93
3	TA45	077028	0.82	2.92	2.00	3.06
3-1/2	TA50	077029	1.00	3.39	1.72	3.06
4	TA55	077030	0.82	3.85	1.99	3.22
5	TA60	077031	1.11	4.81	2.00	5.99
6	TA65	077032	1.11	5.83	2.13	6.50
8	TA80	178190	–	–	–	–





Size inches	Part Number	Product Code	A inches	B inches	C inches	D inches
Female Adapters NPT Tapered Thread						
1/2	FA10	077041	0.80	0.62	0.83	1.73
3/4	FA15	077042	0.80	0.82	1.00	1.90
1	FA20	077043	0.95	1.62	0.90	1.94
1-1/4	FA25	077044	0.95	1.98	0.96	2.01
1-1/2	FA30	077045	1.00	2.21	1.09	2.19
2	FA35	077046	1.00	2.71	1.14	2.25
2-1/2	FA40	077047	1.68	2.47	1.99	3.76
3	FA45	077048	1.63	3.09	2.15	4.10
3-1/2	FA50	077049	1.80	3.54	2.00	3.99
4	FA55	077050	1.76	4.03	2.19	4.21
5	FA60	077051	1.60	6.13	1.96	3.76
6	FA65	077052	1.75	7.24	2.15	4.10
8	FA80	178189	–	–	–	–



Size inches	Part Number	Product Code
End Caps		
1/2	CAP10	077421
3/4	CAP15	077422
1	CAP20	077423
1-1/4	CAP25	077424
1-1/2	CAP30	077425
2	CAP35	077426
2-1/2	CAP40	077427
3	CAP45	077428
3-1/2	CAP50	277085
4	CAP55	077430
5	CAP60	077431
6	CAP65	077432



Reducer Bushings		
3/4 x 1/2	1805	077300
1 x 1/2	1805-1	077301
1 x 3/4	1806	077302
1-1/4 x 3/4	1807-1	077303
1-1/4 x 1	1807	077304
1-1/2 x 1	1808-1	077305
1-1/2 x 1-1/4	1808	077306
2 x 1	1809-1	077313
2 x 1-1/4	1809	077307
2 x 1-1/2	1810	077308
2-1/2 x 2	1811	077309
3 x 2	1812-1	077310
3 x 2-1/2	1812	077311
4 x 2	1813-1	077319
4 x 3	1813	077312
4 x 3-1/2	1814	077317



Threaded Reducer Bushings

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



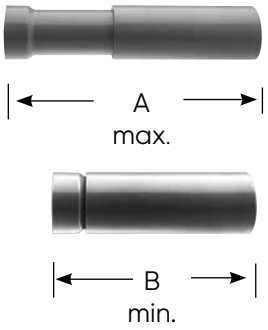
End Bells

1/2	EB10	077406
3/4	EB15	077085
1	EB20	077323
1-1/4	EB25	077324
1-1/2	EB30	077325
2	EB35	077326
2-1/2	EB40	077327
3	EB45	077328
3-1/2	EB50	077329
4	EB55	077330
5	EB60	077331
6	EB65	077332
8	EB80	277094

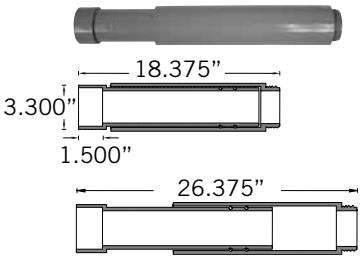


EXPANSION FITTINGS

For use with Scepter rigid PVC conduit, Scepter Expansion Fittings accommodate for conduit thermal expansion and contraction. Available in an extensive range of sizes, expansion fittings are easily installed for each specific installation. For best performance, it is recommended that the EJ is positioned immediately below the meter socket. All expansion fittings are compatible with our Sch40 and Sch80 conduit.

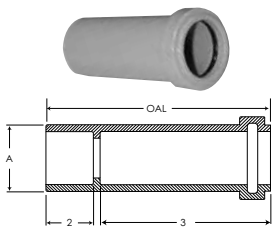


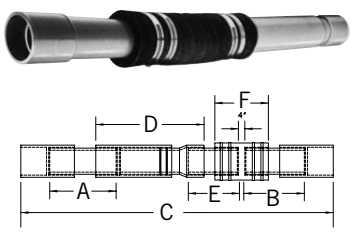
Size inches	Part Number	Product Code	A (inches) max.	B (inches min.	Travel inches
"O" Ring Expansion Joints					
1/2	EJ10	277156	12.00	8.00	4
3/4	EJ15	077382	12.00	8.00	4
1	EJ20	077383	12.50	8.50	4
1-1/4	EJ25	077384	13.00	9.00	4
1-1/2	EJ30	077385	13.00	9.00	4
2	EJ35	077386	13.25	9.25	4
2-1/2	EJ40	077387	22.25	14.25	8
3	EJ45	077388	22.25	14.25	8
3-1/2	EJ50	077389	22.90	14.90	8
4	EJ55	077390	22.90	14.90	8
5	EJ60	277170	26.00	18.00	8
6	EJ65	277171	26.33	18.33	8



Size inches	Part Number	Product Code
TA Special Expansion Joint		
2-1/2	EJ40TA	077398

Dimension (in)	Part Number	Product Code	A Diameter	2 Length	3 Length	Overall Length
One-Piece Expansion Coupling						
1/2	OPEJ10	077018	1.102	0.660	2.465	3.25
3/4	OPEJ15	077019	1.314	0.729	2.646	3.50
1	OPEJ20	077053	1.610	0.885	2.725	3.75
1-1/4	OPEJ25	077054	1.987	0.950	2.895	4.00
1-1/2	OPEJ30	077061	2.208	1.075	3.030	4.25
2	OPEJ35	077063	2.701	1.140	3.206	4.50





Size inches	Part Number	Product Code	A Ref	B Ref	C Ref	D Ref	E Ref	F Ref
Expansion & Deflection Fitting Assemblies*								
2	SE-J-35	077889	9.88	7.38	35.0	9.25	4.25	9.75
3	SE-J-45	077890	9.88	7.25	40.5	14.50	5.00	10.00
4	SE-J-55	077891	8.13	7.00	39.0	15.00	5.50	10.00

complete assembly. *Not Certified

CONDUIT FITTINGS

Size inches	Part Number	Product Code

Nonmetallic Threaded Strain Relief Connectors
c/w "O"Ring, Locknut & 4 Grommets

1/2	TSRCU10	077244
3/4	TSRCU15	077261



Strain Relief Connectors c/w Grommets



3/4	SRCU15 c/w 4 grommets	077209

From inches	To inches

Strain Relief Connectors Grommet Dimensions



Ø = .240	Ø = .300"



Ø = .290	Ø = .385



Ø = .405	Ø = .500



Ø = .525	Ø = .625

CEMENTS AND PRIMERS

Size	Part Number	Product Code

IPEX 100 PVC Conduit Solvent Cement



1/2 Pint	CEMC05	078883
Pint	CEMC10	078884
Quart	CEMC20	078885
*Gallon	CEMC80	078887

IPEX All Purpose Cleaner – Clear



Pint	-	078174
Quart	-	078175

IPEX Primer – Purple



Quart	PRMP20	078054

Size	Part Number	Product Code

PVC Cold Weather / Wet Weather Cement



Pint	CWC10	078503
Quart	CWC20	078886

IPEX Grey PVC Medium Bodied Cement



Pint	CEMG10	078083
Quart	CEMG20	078096

IPEX Primer – Clear



Pint	PRMC10	178695
Quart	PRMC20	178694

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

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

Nominal Pipe Size	# of Joints per Pint	# of Joints per Quart	Nominal Pipe Size	# 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

ACCESS FITTINGS

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

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



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

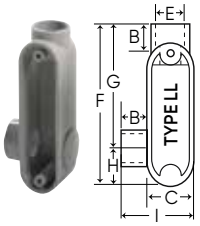
Access Fitting Dimensions

Size inches	A	B	C	D	E	F	G	H	I	J	K	L
	inches											
1/2	5.6	0.6	1.3	1.1	0.8	4.3	4.1	1.3	2.5	2.3	1.0	0.8
3/4	5.6	0.8	1.5	1.3	1.1	5.4	4.1	1.3	2.5	2.8	1.0	0.8
1	6.5	0.9	1.7	1.6	1.3	6.3	4.8	1.5	2.1	3.3	1.1	1.1
1-1/4	7.9	1.1	2.3	2.0	1.7	7.6	5.8	1.8	3.6	4.0	1.6	1.0
1-1/2	8.5	1.1	2.7	2.3	1.9	8.3	6.5	1.8	3.9	4.3	1.7	1.1
2	10.9	1.2	3.2	2.8	2.4	10.5	8.2	2.3	4.5	5.4	2.0	1.2
2-1/2	14.6	1.8	4.5	4.0	2.9	13.6	9.8	3.8	6.2	7.3	2.6	-
3	14.6	1.9	4.5	4.0	3.5	13.6	10.9	2.7	6.2	7.3	2.6	-
3-1/2	17.0	2.1	5.5	5.0	4.0	16.0	11.5	4.5	7.5	8.5	3.0	-
4	17.0	2.1	5.5	5.0	4.5	16.0	11.5	4.5	7.5	8.5	3.0	-

All access fittings are CSA certified and UL listed for wet locations.
Supplied with threaded brass inserts, combination brass head screws, PVC gasket and cover.

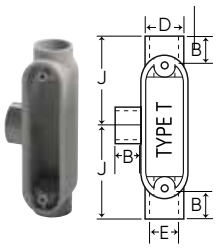
ACCESS FITTINGS

Access fittings Type LL



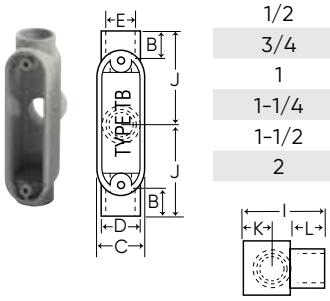
Hub Size inches	Part Number	Product Code
1/2	SLL10S	077521
3/4	SLL20S	077522
1	SLL30S	077523
1-1/4	SLL40S	077524
1-1/2	SLL50S	077525
2	SLL60S	077526
2-1/2	SLL70S	077527
3	SLL80S	077528
3-1/2	SLL90S	077530
4	SLL100S	077529

Access Fittings Type T



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

Access Fittings Type TB



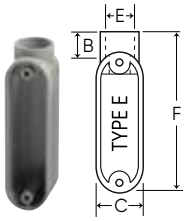
Hub Size inches	Part Number	Product Code
1/2	STB10S	077451
3/4	STB20S	077452
1	STB30S	077453
1-1/4	STB40S	077454
1-1/2	STB50S	077455
2	STB60S	077456

Access fittings Type LB



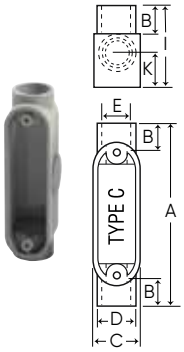
Hub Size inches	Part Number	Product Code
1/2	SLB10S	077541
3/4	SLB20S	077542
1	SLB30S	077543
1-1/4	SLB40S	077544
1-1/2	SLB50S	077545
2	SLB60S	077546
2-1/2	SLB70S	077547
3	SLB80S	077548
3-1/2	SLB90S	077549
4	SLB100S	077550

Access Fittings Type E



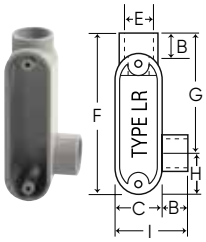
Hub Size inches	Part Number	Product Code
1/2	SE10S	077561
3/4	SE20S	077562
1	SE30S	077563
1-1/4	SE40S	077564
1-1/2	SE50S	077565
2	SE60S	077566
2-1/2	SE70S	077567

Access Fittings Type C



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

Access fittings Type LR



Hub Size inches	Part Number	Product Code
1/2	SLR10S	077481
3/4	SLR20S	077482
1	SLR30S	077483
1-1/4	SLR40S	077484
1-1/2	SLR50S	077485
2	SLR60S	077486
2-1/2	SLR70S	077480
3	SLR80S	077548
3-1/2	SLR90S	077487
4	SLR100S	077489

"Two In One" Pull Elbow



1/2 or 3/4	PE15/10	077491

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

All access fittings are CSA certified and UL listed for wet locations.
Supplied with threaded brass inserts, combination brass head screws, PVC gasket and cover.

SERVICE ENTRANCE FITTINGS

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



Size inches	Part Number	Product Code
Service Entrance Fittings		
1/2	EF10	077281
3/4	EF15	077282
1	EF20	077283
1-1/4	EF25	077284
1-1/2	EF30	077285
2	EF35	077286
2-1/2	**EF40**	**277157**
3	**EF45**	**277158**
3-1/2	**EF50**	**277159**
4	**EF55**	**277160**



Schedule 40 Slip Meter Risers (c/w TA fitting)		
1-1/4	SMR12TA	068107
1-1/2	SMR15TA	068108
2	SMR20TA	068063
2-1/2	SMR25TA	068064
3	SMR30TA	068373
4	SMR40TA	068065

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



Meter Offsets		
1-1/4	MO25	077941
2	MO35	077942



Meter Hubs		
1-1/4	MHU25	077961
1-1/2	MHU30	077963
2	MHU35	077965
2-1/2	MHU40	077967
3	MHU45	077968



Size inches	Part Number	Product Code	A inches	B inches
Long Meter Offsets Fabricated				
1-1/4	LMO25	069641	12	0.91
1-1/2	LMO30	069645	12	1.61
2	LMO35	069646	14	1.50

BOXES - F SERIES

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

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

With the exception of the FD, FD2 & FD3 Blank Boxes, Scepter F Series Boxes are molded with 1" conduit hubs and supplied with reducer bushings. The conduit hub(s) are field modified as 1/2", 3/4" or 1" to accommodate job-site requirements. The appropriate quantity of 1" x 3/4" and 3/4" x 1/2" reducers to create the desired hub size are packaged with each FD Series Single Gang Deep, Double Gang and Triple Gang Box.

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



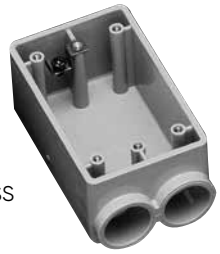
FSC



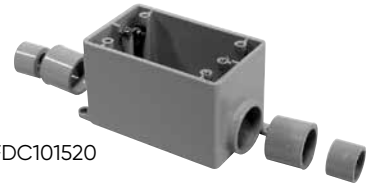
FSCC



FS



FSS



FDC101520



FDS101520



FD Blank



FDC101520ST

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

Note: 10 = 1/2" Hub, 15 = 3/4" Hub
Outside Dimensions: Length, 4-9/16" - Width, 2-13/16 " - Depth, 2"

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

Note: 10 = 1/2" Hub, 15 = 3/4" Hub, 20 = 1" Hub
Outside Dimensions: Height, 4 9/16" – Width, 2 13/16" – Depth 2 3/4",
Cubic Inches = 35.30

* Not UL Listed

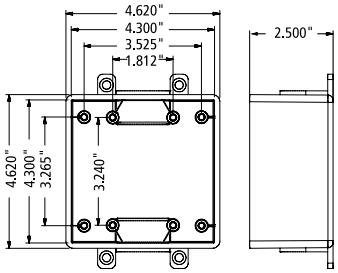
F-Series Single Gang Deep Boxes for use with Self-taping, stainless steel screws

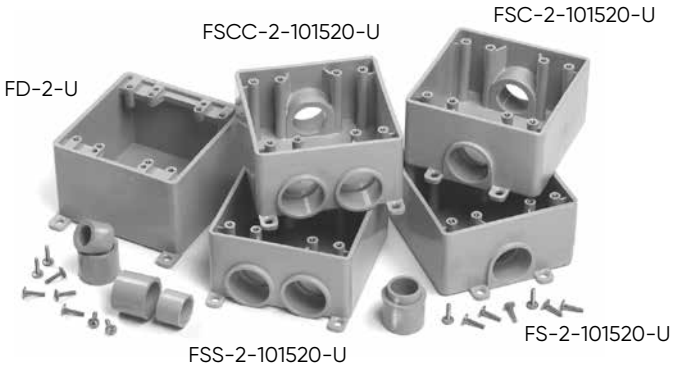
1/2, 3/4, 1	FDS 101520ST	077847	26.8
1/2, 3/4, 1	FDC 101520ST	077849	26.0

Screws are not included

BOXES - F SERIES

Hub Size inches	Part Number	Product Code	OD (inches) H	W	E	Volume (in^3)
Double Gang boxes						
1/2, 3/4, 1	FS-2-101520-U	077364	4.62	4.62	2.5	38.5
1/2, 3/4, 1	FSC-2-101520-U	077368	4.62	4.62	2.5	37.0
1/2, 3/4, 1	FSS-2-101520-U	077372	4.62	4.62	2.5	37.0
1/2, 3/4, 1	FSCC-2-101520-U	077369	4.62	4.62	2.5	35.0
*Blank	FD-2-U	077649	4.75	4.75	3.0	47.5







FS-3-101520



FSC-3-101520



FD-3

Hub Size inches	Part Number	Product Code	OD (inches) H	W	E	Volume (in^3)
Triple Gang Boxes						
1/2, 3/4, 1	FS-3-101520	077337	4.5	6.6	2.5	56.0
1/2, 3/4, 1	FSC-3-101520	077438	4.5	6.6	2.5	54.0
*Blank	FD-3	077737	4.5	6.6	3.0	73.8

* Not UL Listed

NEW



Description	Size inches	Part Number	Hub Size inches	Product Code
RBox™ - Round Electrical Box				
Round Electrical Box	4 x 2-1/4	RBX15	3/4	277168
Hub Plug	3/4	HP15	-	277169

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

The Scepter® RBox™ is the next generation round electrical box featuring IPEX's KwikTab™ fasteners as found on the JBox™ and a press-in lid with integrated O-ring.

Fully non-metallic, made from high-impact and corrosion resistant PVC and fit for wet-location applications, the RBox™ is the upgraded Octagonal Box (OB15) and is packed with contractor-friendly features.





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

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



Size inches	Part Number	Product Code
Octagonal Box Extension Rings		
4 x 1 deep	XR20	077989
4 x 2 deep	XR35	077990

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

COVER PLATES - F SERIES

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



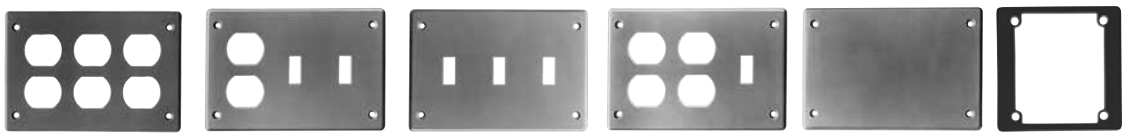
DRC15/10 TSC15/10 20RC15/10 20-3RC15/10 30-3RC15/10 BRC15/10 GASK15-10

Double Gang Plates		
Blank Cover c/w Gasket	BRC20-2-U	077359
Double Switch	TSC20-2-U	077373
Double Duplex Receptacle	DRC20-2-U	077362
Combo Switch Duplex Receptacle	TSDC20-2-U	077374
PVC Gasket	GASKFU20-2	172650



BRC20-2-U TSC20-2-U DRC20-2-U TSDC20-2-U GASK20-2-U

Triple Gang Plates		
Triple Receptacle	DRC20-3	077747
Combo Switch Receptacle	DSDR20-3	077745
Triple Switch	TSC20-3	077744
Combo Switch Receptacle	TSDC20-3	077746
Blank Cover c/w Gasket	BRC20-3	077748
PVC Gasket	GASK20-3	077749



DRC20-3 DSDR20-3 TSC20-3 TSDC20-3 BRC20-3 GASK20-3

WEATHERPROOF COVERS

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

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


VPT15/10


VSC15/10


WTG15/10


WDR15/10
RWDR15/10


WGF15/10
RWGF15/10


WTL15, WTL20,
WTL30


WTL50


WDRE15/10
RWDRE15/10

Gaskets are included with all weatherproof covers.

Description	Part Number	Product Code
Double Gang Weatherproof Covers		
Toggle Switch Cover	VSCU20-2	077376
Combination Switch Cover & GFI Receptacle	VSRC20-2	077357
Combination Switch Cover & Duplex Receptacle	VSDRU20-2	077356
Double Door GFCI Cover	VSGG20-2	077096
Double Door Duplex Cover	VSDD20-2	077097
Gasket for Double Gang (except VSGG20-2 & VSDD20-2)	GASKFU20-2	172650
Gasket for VSGG20-2 and VSDD20-2 Double Gangs	GASKV20-2	072227


VSCU20-2


VSDRU20-2


VSRC20-2


VSGG20-2


VSDD20-2

Gaskets are included with all weatherproof covers.
VSGG20-2 and VSDD20-2 are universal and will fit on most PVC and metal boxes.

SCEPTER PVC ROUND FLOOR BOX

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

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

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

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

Complete technical information available at www.ipexna.com – Nonmetallic Floor Box & Accessories Technical Manual.



FB



FBS-KIT



AFMC



LRA-U



FBDRC



FBUDK



FBYC

Color Description		Part Number	Product Code
Floor Box Base (includes disposable protective cap and reducer plugs)		FB	076954
Floor Box Base c/w Leveling Ring Adapter (includes disposable protective cap, reducer plugs and leveling ring adapter)		FBKIT	077068
Floor Box Stand Kit (includes FB Box) (is equiped with several height brackets which accommodate the different rebar and post-tension cable heights and slab depths found from job-site to job-site.)		FBS-KIT	077700
Metal Cover Adapter Kit (includes levelling ring, metal cover adapter and 2 gaskets)		AFMC	076953
Universal Leveling Ring Adapter		LRA-U	076606
Floor Box Duplex Receptacle Cover (Nonmetallic) (includes flush mount cover, blank cover & gasket)			
	Brown	FBDRCB	076955
	Gold	FBDRCG	076949
	Grey	FBDRCGr	076600
	Light Almond	FBDRCA	076605
Tri-Service Universal Divider Kit (includes upper and lower dividers, riser tube and 2 grommets)		FBUDK	077948
Y Connector (3/4")		FBYC	077499

BRASS AND NICKEL COVER PLATES

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

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



Description	Part Number	Product Code
Nickel Cover Plates		
Duplex Receptacle Cover with Dual Flip Lid	DFL-2-N	178279
Duplex Receptacle Cover with Individual Screw Plug Openings	SSC-N	178278
Combination 2" x 1/2" Single Screw Plug Opening	DSC-N	178280



DFL-2-N



SSC-N



DSC-N

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



DFL-2



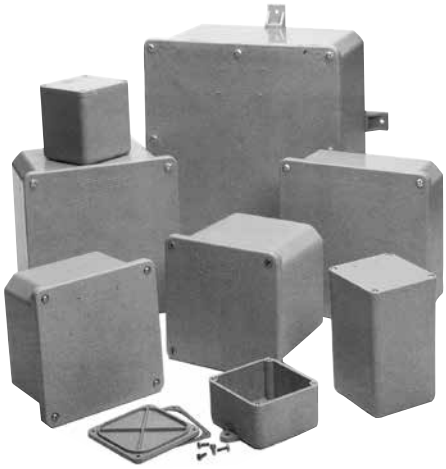
SSC

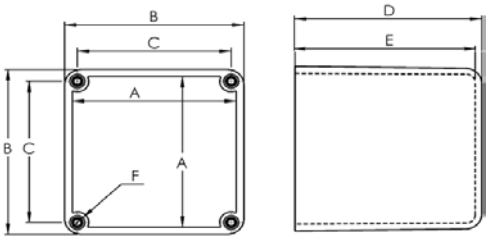


DSC-N

JUNCTION BOXES

NEMA rated 1, 2, 3, 4, 4X, 6P, 12, 13 and UL approved for use in wet locations, Scepter's JB PVC molded JUNCTION BOXES are available in sizes from 4" x 4" x 2" to 12" x 12" x 8" and supplied with threaded brass screws and inserts, flexible PVC gaskets and external mounting feet. Nylon or stainless steel screws, as well as larger sizes are available on request.





Part Number	Product Code	A inches	B inches	C inches	D inches	E inches	F inches
PVC Molded Junction Boxes							
JB442	077659	3.71	4.05	3.42	2.15	1.99	8-32
JB444	077696	3.65	4.00	3.43	4.17	4.02	8-32
JB446	077669	3.65	4.02	3.43	6.23	6.00	8-32
JB552	077670	4.66	5.00	4.50	2.00	1.85	8-32
JB664	077697	6.08	6.41	5.80	4.20	4.00	8-32
JB666	077698	6.02	6.38	5.80	6.00	6.21	8-32
JB884	077664	8.06	8.60	7.95	4.18	3.97	1/4-20
JB887	077671	8.10	8.60	7.95	7.24	7.00	1/4-20
JB12124	077672	11.93	12.48	11.84	4.26	4.00	1/4-20
JB12126	077666	11.97	12.36	11.80	6.25	5.99	1/4-20
JB12128	077668	11.90	12.50	11.84	8.24	7.96	1/4-20

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

Fabricated Boxes

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

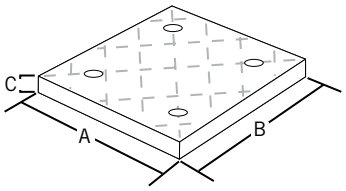


Description	Part Number	Product Code
Threaded Junction Boxes		
	LFB150C	077250
	LFB150T *	077251

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

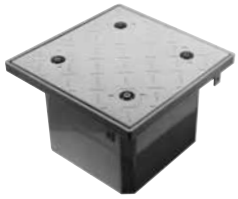
JUNCTION BOXES

Scepter's JB FLANGED 'H' SERIES JUNCTION BOXES feature a fiber-reinforced safety tread cover which uses a recessed Hex Key fastening hardware for a simple installation while reducing the opportunity for tampering. These boxes are not UL Certified and are not returnable.

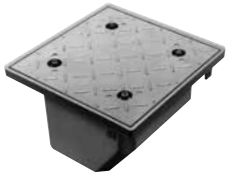


Part Number	Product Code	Box ID (inches) L	W	D	Lid Dimensions (inches) A	B	C	Volume (in^3)
Flanged Box w Fire-reinforced Safety Tread Cover								
H664	077685	6	6	4-1/4	9.0	9.0	0.60	138.0
H666	077686	6	6	6-1/4	9.0	9.0	0.60	211.0
H884	077687	8	8	4-1/4	11.5	11.5	0.75	248.0
H886	077688	8	8	6-1/4	11.5	11.5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

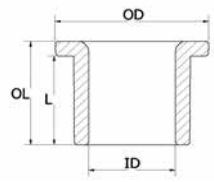
H887

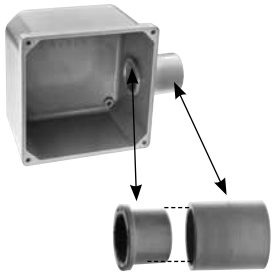


H887-A



Size (inches)	Part Number	Product Code	ID	OD (inches)	L	OL
Junction Box Adapters						
1/2	JBA05	077721	0.62	1.20	0.81	0.95
3/4	JBA07	077722	0.79	1.40	0.87	1.01
1	JBA10	077723	1.00	1.58	0.89	1.06
1-1/4	JBA12	077724	1.35	1.98	1.12	1.30
1-1/2	JBA15	077725	1.59	2.37	1.10	1.33
2	JBA20	077726	2.05	2.85	1.25	1.54
2-1/2	JBA25	077727	2.45	3.34	1.68	1.99
3	JBA30	077728	3.05	3.10	1.77	2.11
3-1/2	JBA35	077729	3.54	4.50	2.09	2.41
4	JBA40	077730	4.02	5.03	1.99	2.30





Junction Box Adapter

Standard PVC Coupling

The Scepter® JBox™ is ideally suited for indoor and outdoor use and made to perform in the most demanding environments. Made of PVC it is extremely durable and resistant to impact in a wide range of temperatures and not adversely affected by water and chemicals. Built for tough wet corrosive environments, the Scepter® JBox™ is entirely non-metallic, eliminating corrosion concerns with screws and other metal parts.

A real time-saver, the "close-by-hand – tool-assist to open" fasteners are functional and resilient as they are made of a performance grade thermoplastic polyester resin. The impact modified and UV stabilized material provides exceptional mechanical and thermal properties along with excellent chemical resistance.

Next Generation Junction Box









Scepter JBox 40

Scepter JBox with Hinged Cover 43

SCEPTER JBOX

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

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

APPLICATIONS

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

STANDARDS

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

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

ADVANTAGES

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



SHORT FORM SPECIFICATIONS

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

The cover/box gasket shall be dual-molded or permanently fixed so as to be an integrated part of the cover. The cover should be secured to the box using non-metallic quarter-turn "close by hand, tool assist to open" fasteners. To aid in the alignment and proper positioning of conduit connections the box/enclosure shall have embossed gridlines on the sidewalls. The mounting feet shall be a permanent molded feature of the box and not extend beyond the periphery of the box/enclosure. On boxes/enclosures of nominal size 6" x 6" and larger, back-panel / DIN rail mounting and pad-lock provisions shall be incorporated into the product.

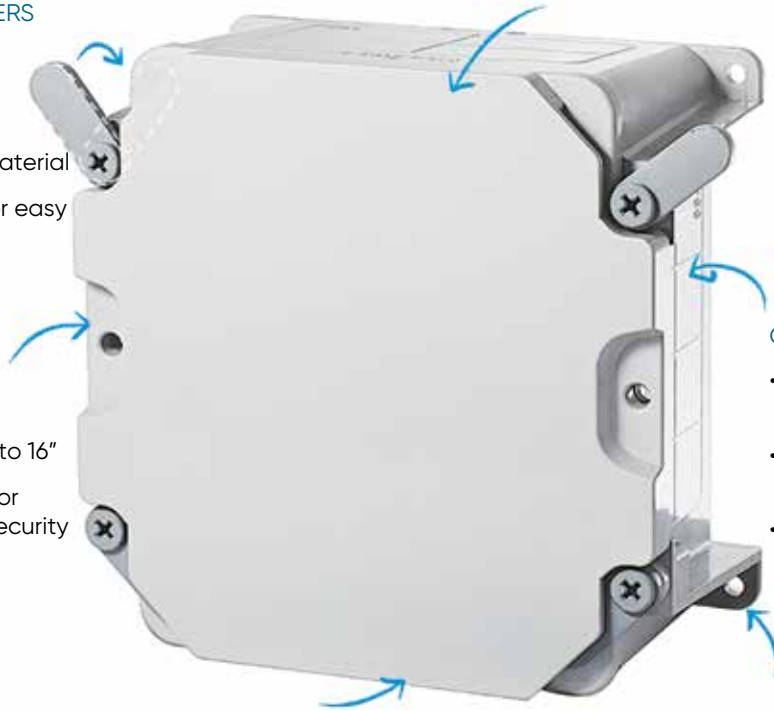
Acceptable manufacturer: IPEX (Scepter JBox Series)

SMOOTH FLAT COVER

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

HAND-CLOSE FASTENERS

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



GRIDLINES FOR DRILLING

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

LOCK-OUT OPTION

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

INTEGRATED GASKET

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

MOLDED MOUNTING FEET

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

POLE MOUNTING KIT

- Installs on round, square & octagonal poles up to 15" diameter
- Works with wood, concrete, steel and composite poles
- Supplied as a complete kit in galvanized or stainless steel

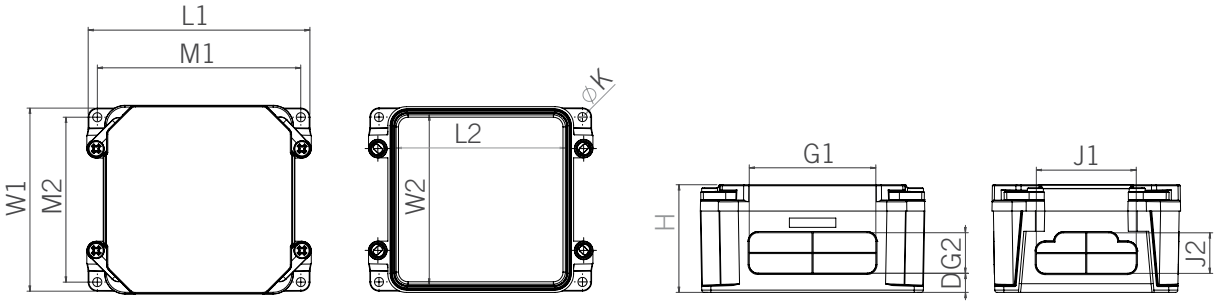


BACK PANEL

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

SCEPTER JBOX 4" TO 6"

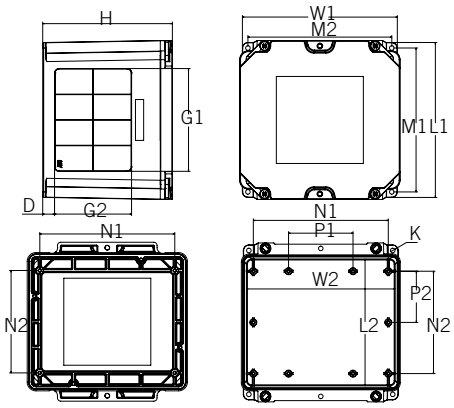
Size inches	Part Number	Product Code	L1	W1	L2	W2	H	M1	M2	G1	G2	J1	J2	D	K
									inches						
4x4x2	JBX442	277000	4.97	3.93	3.48	3.48	2.90	4.48	3.44	2.41	1.09	1.72	1.09	0.51	0.24
4x4x4	JBX444	277001	4.90	3.86	3.48	3.48	4.89	4.41	3.37	2.22	2.97	1.59	2.97	0.59	0.24
5x5x2	JBX552	277002	5.97	4.93	4.55	4.55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



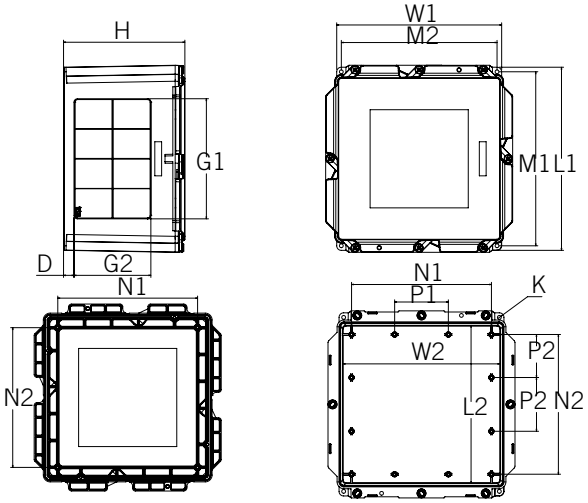
JBX8442 - JBX444

SCEPTER JBOX 8" TO 16"

Size inches	Part Number	Product Code	L1	W1	L2	W2	H	M1	M2	G1	G2	N1	N2	P1	P2	D	K
										inches							
8x8x4	JBX884	277006	9.58	9.58	7.86	9.20	4.90	8.90	8.90	6.47	1.97	8.25	6.26	3.94	3.13	0.59	0.28
8x8x7	JBX887	277007	9.47	9.47	7.76	9.10	7.90	8.80	8.80	6.22	4.65	8.25	6.26	3.94	3.13	0.75	0.28
12x12x4	JBX12124	277008	13.58	12.24	11.74	11.74	4.90	12.90	11.56	9.28	2.03	10.26	10.25	3.94	3.13	0.56	0.28
12x12x6	JBX12126	277009	13.51	12.17	11.74	11.74	6.90	12.83	11.49	9.03	3.78	10.26	10.25	3.94	3.13	0.67	0.28
12x12x8	JBX12128	277010	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	0.76	0.28
14x14x8	JBX14148	277011	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	JBX141410	277012	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	JBX161610	277013	17.64	16.30	15.71	15.71	11.1	17.00	15.60	12.55	7.55	14.25	12.26	4.71	4.09	0.83	0.33



JBX884 - JBX887



JBX12124 - JBX161610

SCEPTER JBOX WITH HINGED COVER

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

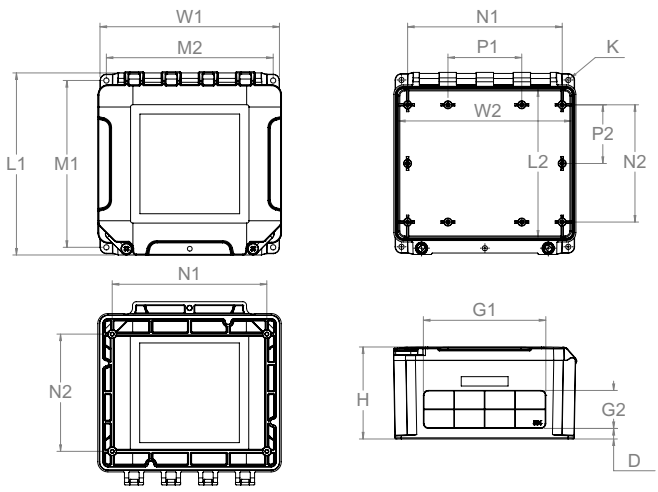
The Scepter JBox Hinged Cover is NEMA 3R and 4X rated, ideally suited for indoor and outdoor industrial, MRO and OEM applications, and in wash-down environments. It is 100% non-metallic and includes all the features that users have come to appreciate in the Scepter JBox.



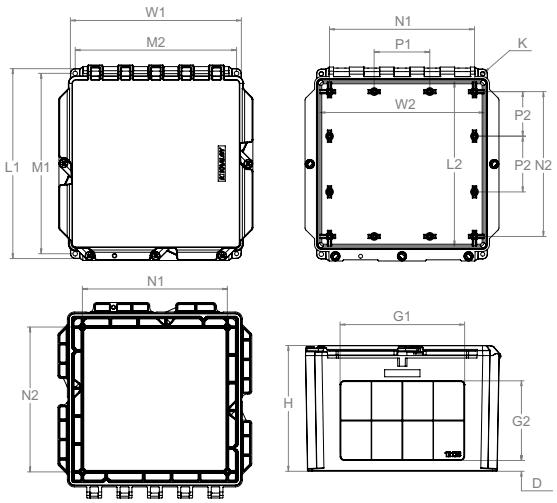


SCEPTER JBOX HINGED COVER

Size inches	Part Number	Product Code	L1	W1	L2	W2	H	M1	M2	G1	G2	N1	N2	P1	P2	D	K
										inches							
8x8x4	JBXH884	277100	9.58	9.58	7.86	9.2	4.9	8.9	8.9	6.47	1.97	8.25	6.26	3.94	3.13	0.59	0.28
8x8x7	JBXH887	277101	9.47	9.47	7.86	9.2	7.9	8.9	8.9	6.22	4.65	8.25	6.26	3.94	3.13	0.75	0.28
12x10x6	JBXH12106	277102	11.51	12.17	9.67	11.67	6.9	10.8	11.49	8.03	3.78	10.25	8.26	3.94	2.16	0.67	0.28
12x12x4	JBXH12124	277103	13.58	12.24	11.74	11.74	4.9	12.9	11.56	9.28	2.03	10.26	10.25	3.94	3.13	0.56	0.28
12x12x6	JBXH12126	277104	13.51	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	277105	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	277106	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	277107	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	277108	17.64	16.30	15.71	15.71	11.1	17.0	15.60	12.55	7.55	14.25	12.26	4.71	4.09	0.83	0.33



JBXH884 - JBXH887



JBXH12106 - JBXH161610

POLE MOUNTING KIT

- Available in either galvanized or stainless steel (SS)
- Supplied as complete kits (sold separately)
- Works with wood, concrete, steel and composite poles
- Installs on round, square & octagonal poles up to 15”



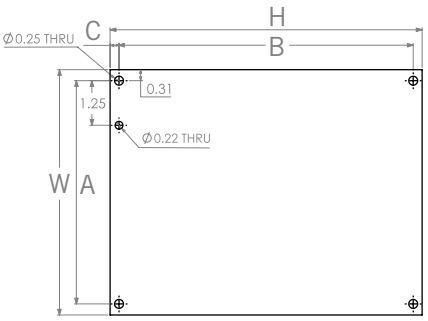
Description	Fits JBox	Part Number	Product Code
Pole Mount Kit	4” to 12”	PMK4-12	077940
Pole Mount Kit – Stainless Steel	4” to 12”	PMK4-12SS	077946
Pole Mount Kit – Stainless Steel	14” to 16”	PMK14-16SS	277086

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



SCEPTER JBOX PERFORMANCE RATINGS

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

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

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

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

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

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

CONDUCTORS: Suitable for use with 90°C Rated Conductors

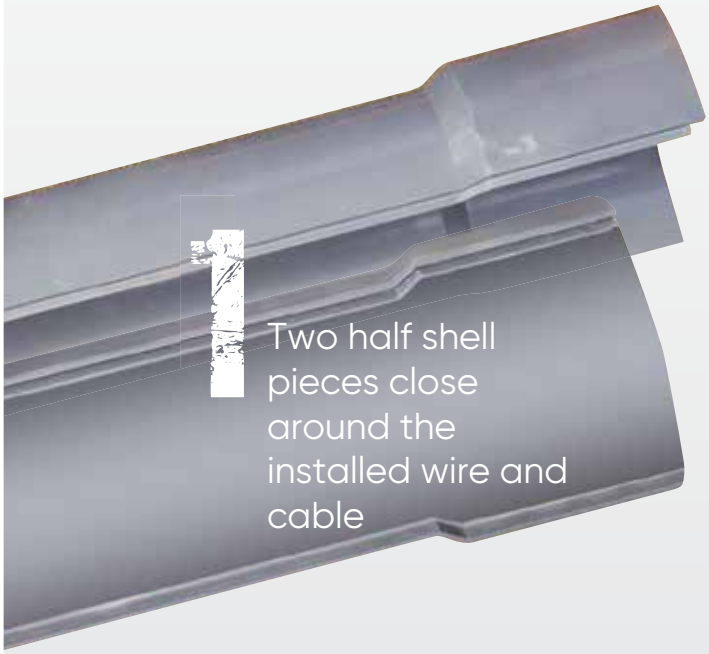
NEMA RATING

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

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



Conduit **REPAIR QUICK** & **EASY!**



1 Two half shell pieces close around the installed wire and cable



2 Interlocking joints provide water-tight seal



3 Standard PVC solvent cement quickly connects the EPR kit, restoring the conduit to its original form

FEATURES & BENEFITS

- Restores structural integrity of conduit system
- Cost savings with fast and easy installation
- Compatibility with existing installed PVC **conduit**

1. Two half shell pieces close around the installed wire and cable.

2. Interlocking joints provide water-tight seal.

3. Standard PVC solvent cement quickly connects the EPR kit,
   restoring the conduit to its original form.

Conduit Repair



EPR Conduit Repair Kit 48

EPR REPAIR KITS

1-1/4" - 6" (35mm - 155mm)

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

With unique interlocking joints, the EPR Kits' two half shell bell by bell pieces simply close around the installed wire and cable. Using standard PVC solvent cement, EPR Kits are quickly and easily assembled and connected, restoring the conduit to its original form. And, unlike other conduit repair systems, EPR Kits are capable of repairing various lengths and types of pipe quickly and accurately, saving you time and money.

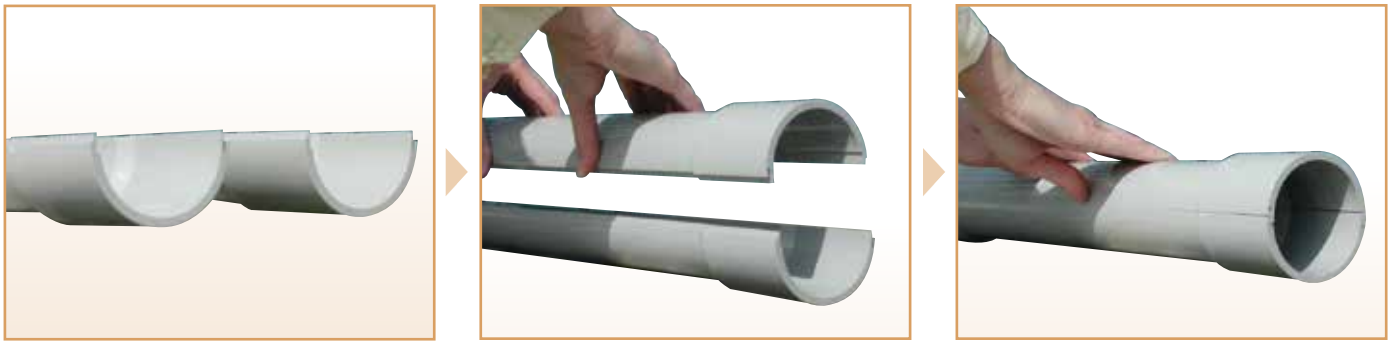
Should water-tight connections or transitions to Rigid PVC Conduit be required, Corline ENT may be joined to Rigid PVC Fittings using solvent cement. IPEX cements and Primers are UL GREENGUARD Gold Certified.

ADVANTAGES

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



REPAIRS CONDUIT AS EASY AS 1-2-3



EPR KIT FOR CONDUIT REPAIR

Size (in)	Part Number	Product Code	Length (in)
1-1/4	EPR25	077982	24
1-1/2	EPR30	077981	24
2	EPR35	077980	24
2-1/2	EPR40	077960	24
3	EPR45	077958	24
4	EPR55	077957	24
5	EPR60	077956	24
6	EPR65	077955	24





KWIKON®
ENT & FITTINGS and ACCESSORIES

The SMART Choice

The ONLY Choice

IPEX by aliaxis



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

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

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

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

Nonmetallic Tubing & Fittings






Kwikon ENT & Fittings 52

KWIKON ENT & FITTINGS

1/2" - 2-1/2" (16mm - 63mm)

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

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

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

APPLICATIONS

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

STANDARDS

CSA Standards C22.2 No. 227.1, C22.2 No. 85

NEMA TC-13

UL 514B, UL 514C, UL 1653

STORAGE & HANDLING

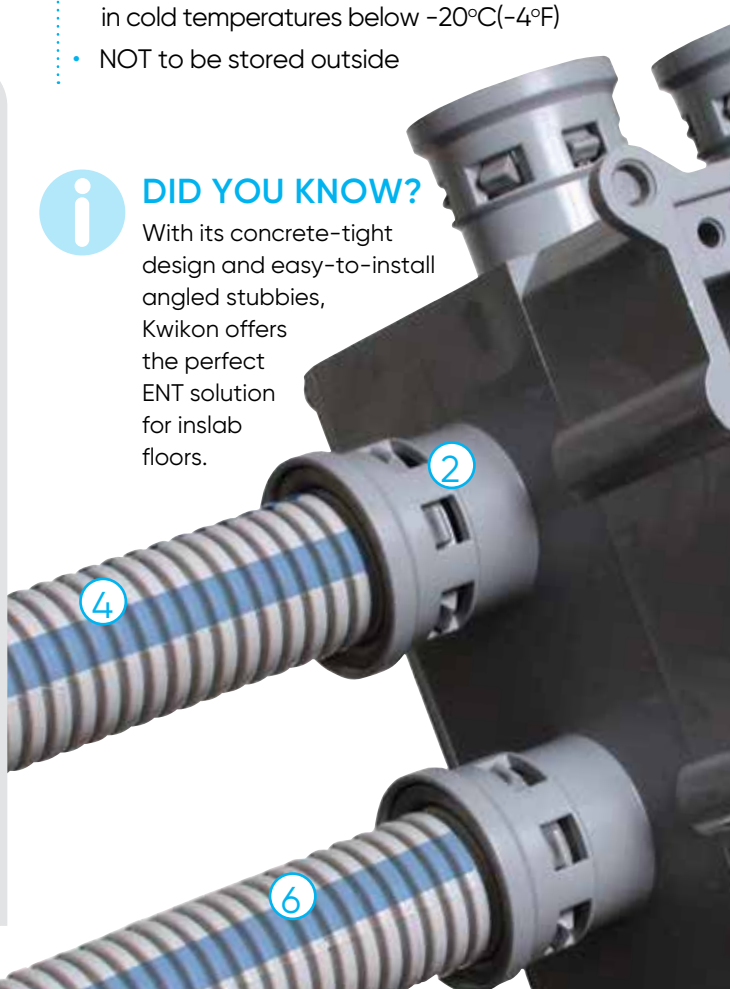
- NOT to be installed, stored, or handled in cold temperatures below -20°C(-4°F)
- NOT to be stored outside

ADVANTAGES

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

DID YOU KNOW?

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



INSTALLING IS THIS EASY

1. Unroll Kwikon to desired length

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

2. Cut Kwikon with an Ent Cutter

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

3. Make bends and turns by hand

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

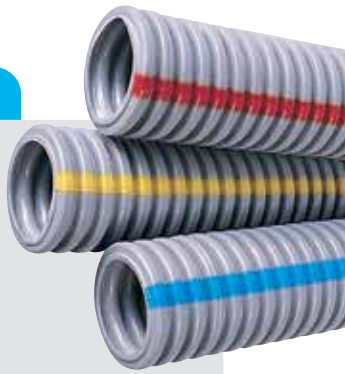
4. Simply snap connections together

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

5. Pull Cable through Kwikon

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





SHORT FORM SPECIFICATIONS

GENERAL

1.1 References

A. Standards referred to in this section are:

1. UL 1653 Electrical Nonmetallic Tubing.
2. NEMA TC-13 Electrical Nonmetallic Tubing.

PRODUCTS

2.1 Manufacturers

A. Acceptable manufacturers are listed below

1. Electrical Nonmetallic Tubing: a. Kwikon by IPEX
2. Electrical Nonmetallic Tubing Fittings: a. Kwikon by IPEX
3. Electrical Nonmetallic Tubing Boxes: a. Kwikon by IPEX

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

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

2.2 Raceways

A. 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.

B. ENT raceway shall be listed to UL 1653 and manufactured in accordance with NEMA TC-13.

2.3 Fittings

A. ENT Fittings shall be manufactured of high-impact PVC,

B. ENT Fittings shall meet the following requirements:

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

2.4 Boxes

A. ENT boxes shall be manufactured of high-impact PVC,

B. ENT Slab Box and Wall Box requirements:

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

INSTALLATION

3.1 Installation

A. ENT raceways, fittings, boxes and accessories shall be installed in accordance with Article 362 of the 2014 National Electrical Code.

B. 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.

C. Not permitted for use where subject to ambient temperatures in excess of 122°F (50°C)

DIMENSIONS

Nominal Size		Average O.D.		Average 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

Kwikon ENT Coils – Blue Stripe



Size inches	ID inches	OD inches	Length feet	Product Code
1/2	0.574	0.840	200	012031
3/4	0.778	1.050	100	012040
1	1.000	1.315	100	012041
1-1/4	1.340	1.660	500	012046
1-1/2	1.610	1.900	300	012032
2	2.020	2.375	225	012043

Kwikon ENT Reels – Blue Stripe



Size inches	ID inches	OD inches	Length feet	Product Code
1/2	0.574	0.840	1500	012002
3/4	0.778	1.050	1000	012011
1	1.000	1.315	750	012021
1-1/4	1.345	1.660	1000	012047
1-1/2	1.610	1.900	750	012033
2	2.020	2.375	500	012044
2-1/2	2.469	2.866	325	012049

Kwikon ENT 10' Sticks – Blue Stripe



Size inches	Length feet	Product Code	Crate Size
1/2	10	012001	3600
3/4	10	012010	2200
1	10	012034	1800

Kwikon ENT Reels – Color Coded



Size inches	Length feet	Product Code Red	Product Code Yellow
1/2	1500	012305	12335
3/4	1000	012307	12337
1	750	012310	12340

Note: 1-1/4", 1-1/2", 2" red and yellow stripe ENT is available by special order.

KWIKON FITTINGS

Kwikon Couplings



Size inches	Part Number	Product Code
1/2	KC10	089000
3/4	KC15	089001
1	KC20	089002
1-1/4	KC25	189670
1-1/2	KC30	189671
2	KC35	189672
2-1/2	KC40	089075

Kwikon Snap-in Connectors*



1/2	KTS10	089146
3/4	KTS15	089147
1	KTS20	089148

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

Kwikon Connectors*



1/2	KTA10	089006
3/4	KTA15	089007
1	KTA20	089008
1-1/4	KTA25	189680
1-1/2	KTA30	189681
2	KTA35	189682
2-1/2	KTA40	089076

**KTA connectors are supplied with locknuts.*

Kwikon Transition Couplings



1/2	KTC10	089012
3/4	KTC15	089013
1	KTC20	089014

Storage of Kwikon ENT Tubing

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

KWIKON FITTINGS

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

Kwikon ENT Form Stubbies



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

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

Kwikon ENT Angled Form Stubbies



Size inches	Part Number	Product Code
1/2	KASTB-10	089233
3/4	KASTB-15	089234
1	KASTB-20	089235
1-1/4	KASTB-25	089236
1-1/2	KASTB-30	089238
2	KASTB-35	089239
2-1/2	KASTB-40	089240

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

Kwikon ENT Multi-Link Form Stubbies



Size inches	Part Number	Product Code
1/2	MSTB-10	089031
3/4	MSTB-15	089026
1	MSTB-20	089025

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

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

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

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



Size inches	Part Number	Product Code
1/2	KT90-10	089060
3/4	KT90-15	089059
1	KT90-20	089058

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



Size inches	Part Number	Product Code
1/2	KK90-10	089055
3/4	KK90-15	089056
1	KK90-20	089057

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

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

FEATURES

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

ENT support unit (ESU)



Part Number	Product Code
ESU-10-35	089149

KWIKON SLAB BOXES

STANDARD SLAB BOXES

- Concrete-tight.
- Corner and traditional mounting tabs offer contractors two options when installing to the slab deck
- Angled design guides the nail into position within the trim cover area
- All molded connectors have 360° locking tabs that exceed UL and CSA requirements for pull-out
- Manufactured from high-impact PVC
- Nonmetallic/non-conducting/non-corroding
- Threaded brass inserts
- Supplied as a fully assembled one piece unit
- Clear Cover vacuum formed removable covers

Kwikon Standard Slab Boxes
with Molded Connectors – Volume 44 cu in.



Size inches	Part Number	Product Code
8x1/2	SMB-H-10	089465
8x3/4	SMB-H-15	089462
4x1/2, 4x3/4	SMB-H-10/15	089458
4x1/2, 2x3/4, 2x1	SMB-H-10/15/20	089466
4x3/4 , 4x1	SMB-H-15/20	089464

Kwikon Standard Slab Boxes with Knockouts
(without Molded Connectors) – Volume 44 cu in.



Size inches	Part Number	Product Code
8x1/2	SMB-10	089460
4x1/2, 2x3/4 , 2x1	SMB-10/15/20	089461

SHALLOW SLAB BOXES

- Threaded brass inserts
- Overall height of box (2-7/8") allows for use in thinner slabs
- Clear Cover vacuum formed removable covers

Kwikon Shallow Slab Boxes
with Molded Connectors – Volume 36 cu in.



Size inches	Part Number	Product Code
8x1/2	SMBS-H-10	089480
8x3/4	SMBS-H-15	089482
4x1/2, 4x3/4	SMBS-H-10/15	089481
4x1/2, 2x3/4 , 2x1	SMBS-H-10/15/20	089483
4x3/4 , 4x1	SMBS-H-15/20	089484

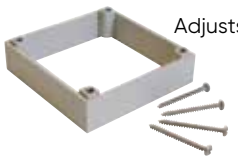
Kwikon Shallow Slab Boxes with Knockouts
(without Molded Connectors) – Volume 36 cu in.

Size inches	Part Number	Product Code
8x1/2	SMBS-10	089490
4x1/2, 2x3/4 , 2x1	SMBS-10/15/20	089491

EXTENSION RING

- Easily installed.
- Quickly adjusts to new height.

Kwikon Slab Box Extension Ring



Size inches	Part Number	Product Code
Adjusts height of SMB/S series slab boxes by 1"	SMBR	089494

SQUARE SLAB BOXES

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



Kwikon Square Slab Boxes
with Molded Connectors – Volume 44 cu in.

Size inches	Part Number	Product Code
8x1/2	SSBH-10	089467
8x3/4	SSBH-15	089468
4x1/2, 4x3/4	SSBH-10/15	089469
4x1/2, 2x3/4, 2x1	SSBH-10/15/20	089474
4x3/4, 4x1	SSBH-15/20	089475

CONCRETE WALL BOXES

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



Kwikon Concrete Wall Boxes
3-1/2" Deep Boxes – Volume 38 cu in.

Size inches	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



Kwikon Shallow Concrete Wall Boxes
2" Shallow Boxes – Volume 15 cu in.

Size inches	Part Number	Product Code
4x1/2	SVSB-H-10	089054
4x3/4	SVSB-H-15	089053

SLAB BOX ASSEMBLY FOR USE WITH PLASTER RINGS

- Slab box assemblies are supplied without the collar - ready to accept the desired raised cover/plaster ring
- Plaster rings mount directly to the box opening
- Used with raised covers, boxes are perfect for use in shear wall or block construction for wall mounted fixtures and devices
- Clear Cover vacuum formed removable covers



Kwikon Mud Boxes
with Molded Connectors – Volume 29 cu in.

Size inches	Part Number	Product Code
8x1/2	MBH-10	089022
8x3/4	MBH-15	089018
4x1/2, 4x3/4	MBH-10/15	089020
4x1/2, 2x3/4, 2x1	MBH-10/15/20	089019
4x3/4, 4x1	MBH-15/20	089021

Kwikon Mud Boxes with Knockouts
(without Molded Connectors) – Volume 29 cu in.

Size inches	Part Number	Product Code
8x1/2	MB-10	089017
4x1/2, 2x3/4, 2x1	MB-10/15/20	089016

FLOOR BOX STAND KIT

Is equiped with several height brackets which accommodate the different rebar and post-tension cable heights and slab depths found from job-site to job-site.



Part Number	Product Code
FBS-KIT	077700

For full product selection see page 32

ACCESSORIES

Description	Part Number	Product Code
Cutting Tool		
Cutting Tool 1/2" – 1"	CLC20	089066
Cutting Tool 1/2" – 2"	CLC35	089068
Replacement Blade for CLC20	SSB	089067
Replacement Blade for CLC35	SB35	089069



Size	Part Number	Product Code
ENT Solvent Cement Low Voc		
1L (Quart w brush)	CCB100QT	078186

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 job-site 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, IPEX 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

For more information, visit our website www.ipexna.com

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

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

PVC Raceway for HDD






SceptaCon PVC Raceway for Horizontal Directional Drilling 60

SCEPTACON PVC FOR HDD

2" - 6" (53mm - 155mm)

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

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

APPLICATIONS

- Environmentally Sensitive Areas
- Historical Landmarks
- Road and Highway Crossings
- Urban Areas

STANDARDS

UL 651

ADVANTAGES

1 No Cementing or Lubrication Required

SceptaCon's slide-in locking system and pre-installed, pre-lubricated gaskets allow contractors to create a water-tight seal by hand in seconds – in all temperatures without having to worry about solvents or chemicals freezing or drying too quickly.

2 No Fusion Required

Because SceptaCon joints can be quickly joined by hand in seconds, crews don't need large, expensive fusion equipment or special training to create water-tight joints.

In addition, SceptaCon can be assembled one pipe length at a time, then pulled underground, eliminating the need for long strings of pipe on the job. In this way, SceptaCon is ideal for short haul applications in cramped urban areas.

3 Superior Performance

SceptaCon is made from durable schedule 40 PVC that's resistant to creasing, scoring or flattening when pulled past obstructions in the borehole, yet flexible enough to bend with underground twists and turns. SceptaCon remains round, unlike HDPE which can stretch and become oval. And with PVC's proven 70-year history in underground piping, it's no surprise telecommunication contractors are turning to SceptaCon PVC raceway for reliable performance – now and over the long term.

4 Easier to Handle

SceptaCon saves crews all the hassles of working with HDPE. As any crew knows, cumbersome HDPE reels are heavy and awkward to transport and work with, and the material is notoriously rigid in cold temperatures. On the other hand, SceptaCon is available in convenient 10' and 20' lengths that are lightweight, easy to handle and no problem to work with in all types of weather.

FAST AND EASY JOINT ASSEMBLY

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



Step 1
Remove the red protective plugs and locking spline. Slide the spigot and bell ends past the pre-lubricated gasket to the positive stop alignment ring.



Step 2
Using the insertion hole, completely push the locking spline into the pipe's inner groove to lock lengths together.



Step 3
You're done! Our spline locking system ensures they'll stay together during pull-through and over their life underground.

THE SCEPTACON™ JOINT

Featuring slide-in spline locking system.



SHORT FORM SPECIFICATIONS

GENERAL

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

PRODUCT

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

Acceptable manufacturers are: SceptaCon Trenchless Raceway by IPEX.

APPROVALS

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

PERFORMANCE SPECIFICATIONS

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

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

  2" – 3,000 lbs 4" – 8,700 lbs
  3" – 7,000 lbs 5" – 11,300 lbs 6" – 14,000 lbs

- SceptaCon's water tightness using the joint immersion test
  - 80psi pressure without a bending force applied
  - 80psi pressure when subjected to a 65 foot bend radius

SCEPTACON PRODUCT SELECTION CHART

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

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

Sceptalight LED

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



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

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

NEMA 4X AND IP66 RATED
Approved for wet locations, wash down and corrosive environments.

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

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

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

POLYCARBONATE GLOBE
Impact and weather resistant for tough environments.

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

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

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

Nonmetallic Light Fixtures









Sceptalight LED 64

SCEPTALIGHT NONMETALLIC LIGHT FIXTURES

Sceptalight™

Whether you're looking for economical outdoor lighting solutions or corrosion-resistant fixtures for punishing industrial environments, Sceptalight fixtures from IPEX prove themselves to be all-round performers in a variety of indoor and outdoor applications.

Sceptalight fixtures are made from a glass-reinforced thermoplastic polyester resin, which offers outstanding corrosion and chemical resistance. And its interior and exterior silicone gaskets create a watertight seal, the reason it performs equally well indoors and outside. This thermoplastic design marries an unrivaled balance of strength, stiffness and toughness with all the benefits users appreciate of Scepter Rigid PVC Conduit and Kraloy Fittings – long life, easy servicing and high impact-resistance.

APPLICATIONS

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

STANDARDS

WET LOCATIONS

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

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

HAZARDOUS LOCATIONS

CSA Listed to UL 844
CLASS I, DIV 2 Groups A, B, C & D
CLASS II, DIV 2 Groups F & G
Minimum 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 dust. Sceptalight fixtures are equipped with brass screws and inserts to ensure performance in punishing industrial conditions.

ADVANTAGES

1. Available in LED to suit a variety of applications.

2. **Stable Construction**
   Reinforced support feet offer secure mounting.

3. **Adaptable**
   Threaded conduit hubs permit connection to nonmetallic and metallic raceways.

4. **Watertight Seal**
   Temperature and weather-resistant silicone gaskets protect fixture from moisture penetration.

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

6. **Indoor/Outdoor Use**
   UV-resistant material makes Sceptalight fixtures suitable for both indoor and outdoor use.

7. **Corrosion Resistant**
   Thermoplastic construction resists attack from acids, alcohols, alkalis, organic solvents, detergents/ cleaners, greases and oils as well as many other types of chemicals.

   Withstands exposure to direct sunlight, heat, salt water and extreme weather.

8. **Durable, Impact Resistant**
   High-impact nonmetallic guard resists physical impact, chemical attack and heat-induced deformation.



SHORT FORM SPECIFICATIONS

LED light fixtures shall be third-party certified to CSA 22.2 250.0 and UL 1598C. LED light fixtures will also be NEMA 4X and IP66 rated for wash-down and corrosive environments. LED light fixtures for hazardous use locations shall be third-party certified to UL 844 for Class I Div 2 and Class II Div 2 hazardous location use.

LED Retrofit Light Engines shall be certified to CSA 22.2 no 250.1 and UL 1598C.

Approved products: Sceptalight LVPE and LVPL series light fixtures manufactured by IPEX Electrical Inc.

SCEPTALIGHT LED

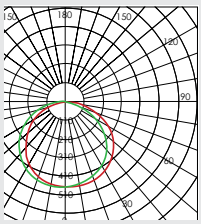
Introducing three new Sceptalight LED products: the LED Retrofit Light Engine, the Heavy-Duty LED Light Fixture and the Utility LED Light Fixture. Sceptalight LEDs offer significant energy savings, up to 85% compared to incandescent, and up to 34% compared to fluorescents. Moreover, Sceptalight LEDs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

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

*LVPF-LED-HAZ only



PHOTOMETRIC DATA



15W 120V
Frosted LED

STANDARDS

PRODUCT	APPROVED USE	STANDARDS
LLED-15 (light engine only)	WET LOCATION	CSA C22.2 250, UL 1598C
LVPE-LED	WET LOCATION	CSA C22.2 250, UL 1598C
LVPF-LED-HAZ	HAZARDOUS LOCATION Class I, Div 2 Groups A, B, C & D and Class II, Div 2 Groups F & G	CSA C22.2 250, UL 1598C, UL 844



RETROFIT OPTION

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

CORROSION RESISTANT

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

NEMA 4X AND IP66 RATED

Approved for wet locations, wash down and corrosive environments.

HEAT DISSIPATION

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

ENERGY EFFICIENT

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

DIMMABLE

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

POLYCARBONATE GLOBE

Impact and weather resistant for tough environments.

TECHNICAL SPECIFICATIONS

LUMEN OUTPUT	1575 LM
INPUT VOLTAGE	120 VAC
FREQUENCY	60 HZ
NOMINAL POWER	15 W
COLOUR TEMPERATURE	5000 K
CRI	> 80
POWER FACTOR	0.98
TOTAL HARMONIC DISTORTION	10.5%
OPERATING TEMPERATURE	-40°C TO 40°C
DIMMABILITY RANGE	DOWN TO 5%
RATED LIFE	> 50,000 HOURS
WARRANTY*	5 YEARS

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

WET LOCATION USE

Description	Part Number	Product Code	Hub Sizes
Ceiling Mount with Frosted Polycarbonate Globe			
15W LED Retrofit Light Engine	LLED-15	277120	-
15W LED LVPF Heavy Duty Light Fixture	LVPF-LED-HAZ	277121	4 x 3/4"
15W LED LVPE Utility Light Fixture	LVPE-LED	277122	2 x 1/2" - 2 x 3/4"
Wall Mount Bracket (for WET Locations)			
Wall Mount bracket	LWB150	077233	-

For wall mount fixtures select and order the appropriate style (wattage and globe) ceiling mount fixture from above and add LWB150.Sceptalight compact fluorescent light fixtures are supplied complete with lamp and ballast.

HAZARDOUS LOCATION USE

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

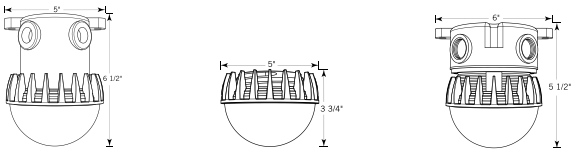
All hazardous location fixtures are rated CLASS I, DIV 2 Groups A, B, C & D and CLASS II DIV 2 Groups F & G.

MOUNTING OPTIONS

Sceptalight LED can be retrofit with Ceiling Mounts only.

CEILING MOUNT

Box with threaded hubs and integral mounting feet



Kwikflex™ nonmetallic liquidtight flexible (NMLT) conduit and fittings offer superior flexibility and corrosion resistance for protecting electrical wiring and connections to commercial and residential pool and spa motors, air conditioners, pumps and outdoor lighting.

Approved for use in dry, damp or wet locations, Kwikflex™ provides a positive, waterproof seal and easy, screw-together connectivity in indoor/outdoor, exposed or concealed environments.

NMLT Conduit & Fittings






Kwikflex 70

KWIKFLEX NMLT CONDUIT & FITTINGS

KWIKFLEX

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 is also available in extra-flexible formulations in sizes 3/8" to 2"

Coils are conveniently packaged in cardboard boxes to keep the pipe clean and come with a center knock-out for easy dispensing.

Kwikflex fittings are available in a full range of matching sizes in straight, 90 degree and in a NEW multi-angle configuration. The new Multi-Angle Conduit Connector features a unique swivel design which allows for:

- Multiple angle installations
- 45 degree installations
- The ultimate in flexibility for your job

Kwikflex is approved for use in exposed or concealed locations in accordance with Article 356 of the NEC.

APPLICATIONS

- HVAC Equipment
- Marine Equipment
- Motors & Controls
- Printing Equipment
- Refrigeration Equipment
- Transformer Connections
- Machine Tools
- Pumps
- Outdoor Lighting

STANDARDS

UL 1660 CSA C22.2 No. 227.2

ADVANTAGES

1. Quick installation
2. Lower installed cost
3. Smooth interior surface
4. Gradual sweep
5. No sharp edges
6. Quicker and easier wire pulling and pushing
7. Won't rust or corrode
8. All fittings are UL Listed and CSA Certified
9. Positive grip
10. Liquidtight and Oiltight
11. Suitable for wet and damp locations
12. Provides a liquidtight seal at knockout hole, comes with locknut and sealing o-ring



NMLT CONDUIT

NMLT Flexible Conduit (Grey) Type B



Size inches	Product Code	Length feet
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 Extra Flexible Tubing (Black)



Size inches	Part Number	Product Code
3/8	165055	100
1/2	165057	100
3/4	165059	100
1	165061	100
1-1/4	165064	100
1-1/2	165067	100
2	165070	100

Other packages sizes available on request

NMLT Flexible Conduit Reels (Grey) Type B

Size inches	Product Code	Length feet
1/2	165082	1000
3/4	165085	700
1	165090	500

NMLT FITTINGS

NMLT 90° Elbows (Grey)



Size inches	Product Code	Length feet
3/8	LTB03/90	065306
1/2	LTB10/90	065307
3/4	LTB15/90	065310
1	LTB20/90	065312
1-1/4	LTB25/90	065314
1-1/2	LTB30/90	065317
2	LTB35/90	065320

NMLT Straight Fittings (Grey)



Size inches	Product Code	Length feet
3/8	LTS03	065326
1/2	LTS10	065327
3/4	LTS15	065330
1	LTS20	065332
1-1/4	LTS25	065334
1-1/2	LTS30	065337
2	LTS35	065340

NMLT Screw-on 90° Elbows (Grey)



Size inches	Part Number	Product Code
1/2	LTD10/90	065350
3/4	LTD15/90	065352

NMLT Screw-on Straight Fittings (Grey)



Size inches	Part Number	Product Code
1/2	LTD10	065360
3/4	LTD15	065362

NMLT Screw-on Multi Angle Fittings (Grey)



Size inches	Part Number	Product Code
1/2	LTMA10	065015
3/4	LTMA15	065016

For electricians, power utilities, telecom service providers and infrastructure contractors who work on the toughest construction projects in the market. IPEX provides the most comprehensive range of quality products and superior service, that meet or exceed all industry standards.







EPR Conduit Repair

INEXO® The ICF Box

Kwikon® ENT & Fittings

Kwikflex® Liquidtight Flexible Nonmetallic Conduit & Fittings

SceptaCon™ Trenchless Raceways Systems

Sceptalight™ Nonmetallic Light Fixtures

Scepter® Electrical Systems

Scepter® JBox™ The Next Generation Junction Box





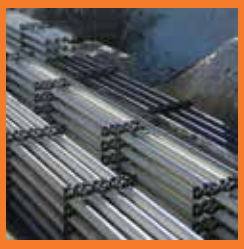





The premier ducting product on the market, IPEX Super Duct® is specifically engineered and quality manufactured to deliver the high-impact and crush strength demanded by today's utility companies, for underground ducting applications.

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

Power & Communications Duct






Super Duct Pipe 74

Underground Duct Spacers 80

SUPER DUCT POWER & COMMUNICATIONS DUCT

2" - 6" (53mm - 155mm)

SUPER® DUCT

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

Super Duct is manufactured with a specialized compound, and engineered for high impact and crush strength specifically required by utilities for underground duct. This compound also enhances the friction coefficient of Super Duct for easier pulling of conductors/ wires through long runs.

APPLICATIONS

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

STANDARDS

ADVANTAGES

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



SHORT FORM SPECIFICATIONS

PRODUCT

Duct shall be IPEX Super Duct or approved equal. Duct, fittings, spacers and solvent cement shall be provided by the same manufacturer to assure system integrity.

The duct is to be secured mechanically with vertical lock spacers to prevent disturbance to the alignment during installation.

INDENTIFICATION

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

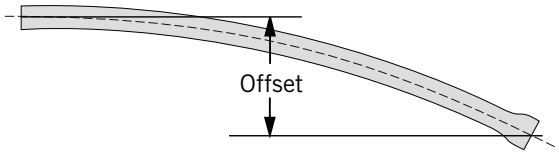
MATERIAL

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

FIELD BENDING

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

ALLOWABLE OFFSET FOR SUPER DUCT



Size		Max Allowable Offset 10' Length		Max Allowable Offset 20' Length	
in.	mm	in.	mm	in.	mm
2	53	20	508	79	2 007
3	78	14	356	56	1 422
3-1/2	91	12	305	49	1 245
4	103	11	279	43	1 092
5	129	7	178	35	889
6	155	7	178	29	737

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



INSTALLATION

BENDS

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

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

Where: π = 3.14

L = centre line lay length

r = radius of bend

§ = angle of bend

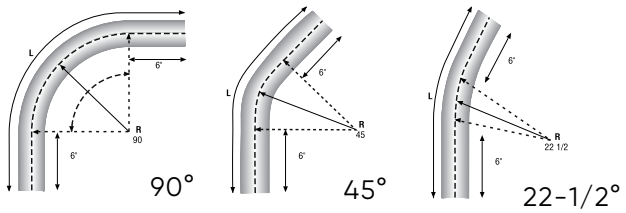
tangent = 6"

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

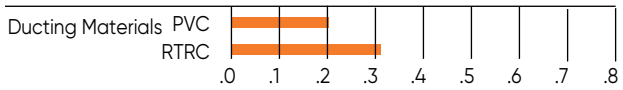
$$L = \left(3.14 \times 36 \times \frac{90^\circ}{180}\right) + 2\,(6)$$

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

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



STATIC FRICTION COEFFICIENT



SUPER DUCT DIMENSIONS

Dimension in	Minimum ID in	Nominal Wall in	Average OD in
2	2.001	.082	2.250
3	3.000	.097	3.250
3-1/2	3.480	.109	3.730
4	3.941	.120	4.216
5	4.974	.153	5.299
6	5.896	.180	6.275

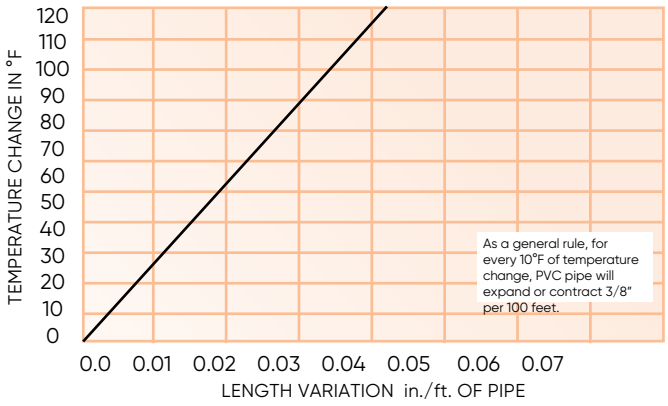
EXPANSION AND CONTRACTION

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

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

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

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



Dimension		Minimum ID		Nominal Wall		Average OD	
in	mm	in	mm	in	mm	in	mm
2	53	2.001	50.83	.082	2.08	2.250	57.15
3	78	3.000	76.20	.097	2.46	3.250	82.55
3-1/2	91	3.480	88.39	.109	2.77	3.730	94.74
4	103	3.941	100.10	.120	3.05	4.216	107.09
5	129	4.974	126.34	.153	3.89	5.299	134.60
6	155	5.896	149.76	.180	4.57	6.275	159.39

TELEPHONE DUCT

Type B, Type B(HW), Type C, Type D

Telephone Duct Type B and Type B – Heavy Wall are designed for use in concrete-encased installations.

Telephone Duct Type C is designed for direct burial applications.

Telephone Duct Type D is designed for exposed and special applications, and contains 6% titanium oxide for UV resistance.

Nominal Size	Product Code	Type	Avg OD	Min Wall	Min ID
PVC Telephone Duct - 20 foot Length, Belled One End					
4	008040	B	4.350	0.091	4.13
4	008041	B (HW)	4.350	0.101	4.11
4	008042	C	4.350	0.148	4.00
4	008043	C X 10'	4.350	0.148	4.00
4	008044	D	4.350	0.148	4.00

	Minimum Impact Resistance		Minimum Pipe Stiffness	Heat Distortion 48 hrs @ 140°F	
Type	@ 73.4°F	@ 32°F	lbs/in/in	Load	Max decr.
Performance Properties As indicated unter Telephone Standard 8546					
B	50 ft.lbs.	25 ft.lbs.	30	15	0.250"
B(HW)	50 ft.lbs.	25 ft.lbs.	40	15	0.250"
C	100 ft.lbs.	50 ft.lbs.	120	60	0.250"
D	150 ft.lbs.	75 ft.lbs.	120	60	0.250"

POWER AND COMMUNICATION DUCT

Rated for 90° cable

NEMA TC – 6 and 8, ASTM D1784 and ASTM F512

ENCASED BURIAL

Nominal Size	Product Code	Avg OD	Min Wall	ft/Pallet	Approx Wt/lbs
Type EB-20 Rated For 90°C Cable / 20-Foot Length, Belled One End					
2	008821	2.375	0.060	3,520	37
3	008831	3.500	0.061	1,560	56
*4	008841	4.500	0.082	1,200	93
*5	008851	5.563	0.103	460	142
*6	008861	6.625	0.125	520	202
Type EB-35 Rated For 90°C Cable / 20-Foot Length, Belled One End					
2	008921	2.375	0.060	3,520	33
3	008931	3.500	0.076	1,560	64
4	008941	4.500	0.100	1,200	105
5	008951	5.563	0.126	460	161
6	008961	6.625	0.152	520	230

* UL Listed

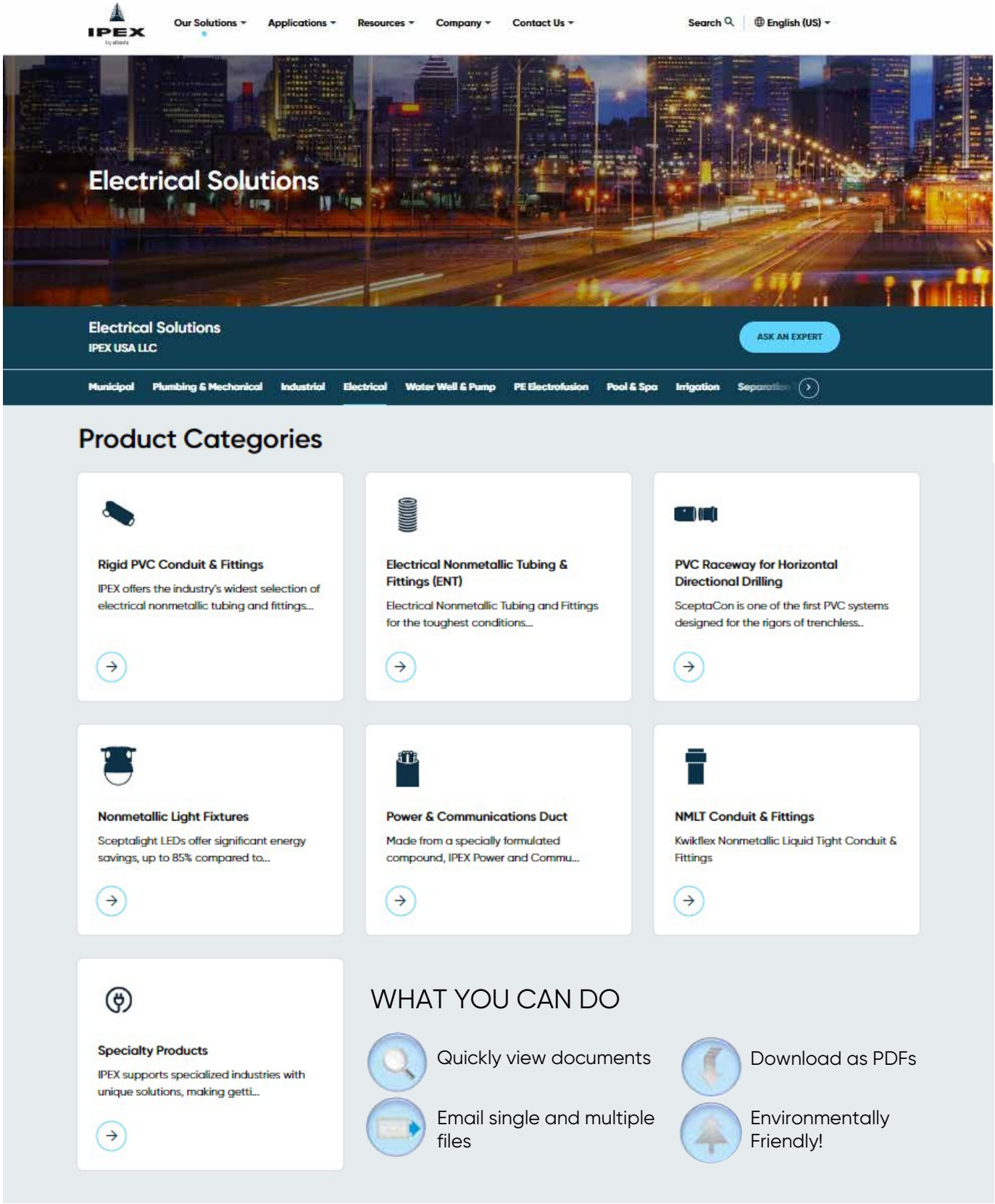
DIRECT BURIAL

Nominal Size	Product Code	Avg OD	Min Wall	ft/Pallet	Approx Wt/lbs
Type DB-60 Rated For 90°C Cable / 20-Foot Length, Belled One End					
2	008321	2.375	0.060	3,520	37
3	008731	3.500	0.092	1,560	80
4	008741	4.500	0.121	1,200	132
5	008751	5.563	0.152	460	202
6	008761	6.625	0.182	520	285
Type DB-120 Rated For 90°C Cable / 20-Foot Length, Belled One End					
2	008621	2.375	0.077	3,520	42
3	008631	3.500	0.118	1,560	96
4	008641	4.500	0.154	1,200	158
5	008651	5.563	0.191	460	240
6	008661	6.625	0.227	520	336

CONDUIT ELBOWS

Size inches	Degree Bend	18" Radius Product Code	24" Radius Product Code	36" Radius Product Code	48" Radius Product Code	150" Radius Product Code
2	90	029057	029321	029351	029401	#
	45	029124	029326	029356	029408	#
	30	029280	029331	029361	029415	#
	22-1/2	029286	029336	029366	029422	#
	11-1/4	029296	029346	029381	029429	#
3	90	029058	029322	029352	029402	#
	45	029125	029327	029357	029409	#
	30	029281	029332	029362	029416	#
	22-1/2	#	029337	029367	029423	#
	11-1/4	029297	029347	029382	029430	#
4	90	029059	029323	029353	029403	#
	45	029126	029328	029358	029410	#
	30	029282	029333	029363	029417	#
	22-1/2	029287	029338	029368	029424	#
	11-1/4	029298	029348	029383	029431	#
5	90	#	029324	029354	029404	029445
	45	#	029329	029359	029411	029460
	30	#	029334	029364	029418	029467
	22-1/2	#	029339	029369	029425	029511
	11-1/4	#	029349	029384	029432	029527
6	90	#	#	029355	029405	029446
	45	#	#	029360	029412	029461
	30	#	#	029365	029419	029468
	22-1/2	#	#	029374	029426	029512
	11-1/4	#	#	029385	029433	029528

Obtaining the most up-to-date information has never been easier... available at **ipexna.com**



UNDERGROUND DUCT SPACERS

2" - 8" (50mm - 200mm)

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

APPLICATIONS

- Underground duct banks
- Medical campus
- University campus

VERTICAL-LOK SPACERS

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

Spacers are available in sizes to independently support 2", 3", 4", 5", 6" and 8" conduit and each size is offered a range of separation from 1" to 3".

MONOBLOC™ SPACERS

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

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

ADVANTAGES

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

DID YOU KNOW?

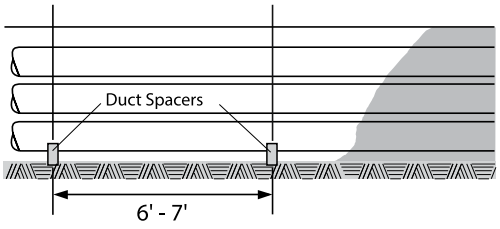
You can lower both material and labour costs with the 4x3x3x3 Monobloc base spacer. By reducing concrete requirements one inch in duct bank encasements, this base spacer can save four cubic yards of concrete in a 500-foot long, 30-inch wide duct bank.

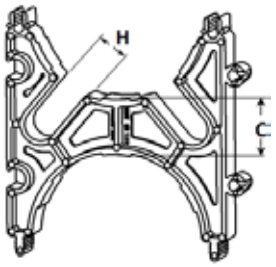
VERTICAL-LOK SPACERS

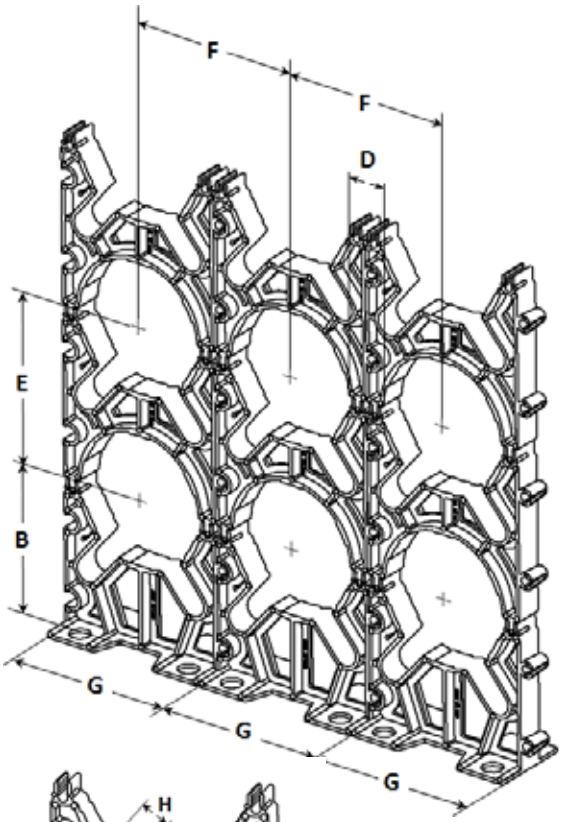
Size (inches)	Part Number	Product Code	Dimensions (inches) C	D	E	F	G	H
Intermediate Vertical-Lok Spacers								
2 x 1-1/2	IS3530	029550	1.52	1.50	3.95	3.95	3.94	0.63
2 x 2	IS3535	029551	2.03	2.06	4.48	4.48	4.47	0.63
2 x 3	IS3545	029552	3.00	3.03	5.45	5.45	5.44	0.63
3 x 1-1/2	IS4530	029582	1.50	1.45	5.15	5.12	5.12	0.88
3 x 2	IS4535	029554	2.00	1.88	5.64	5.63	5.63	0.88
3 x 3	IS4545	029555	3.00	2.88	6.66	6.63	6.63	0.88
4 x 1	IS5520	029583	1.00	1.03	5.66	5.63	5.63	0.88
4 x 1-1/2	IS5530	029557	1.50	1.39	6.13	6.14	6.13	0.88
4 x 2	IS5535	029558	2.00	1.88	6.64	6.63	6.63	0.88
4 x 3	IS5545	029559	3.00	2.90	7.64	7.64	7.63	0.88
5 x 1-1/2	IS6030	029584	1.68	1.69	7.37	7.37	7.37	0.88
5 x 2	IS6035	029561	2.25	2.15	7.89	7.89	7.88	0.88
5 x 3	IS6045	029562	3.06	2.96	8.70	8.70	8.69	0.88
6 x 1-1/2	IS6530	029563	1.50	1.38	8.24	8.22	8.21	0.88
6 x 2	IS6535	029564	2.00	1.89	8.74	8.73	8.72	0.88
6 x 3	IS6545	029565	3.00	2.90	9.77	9.77	9.75	0.88
* 8 x 2	IS8035	029294	2.06	2.00	10.58	10.80	10.80	*

* Do not have rebar slots

RECOMMENDED DISTANCE: 6' - 7'

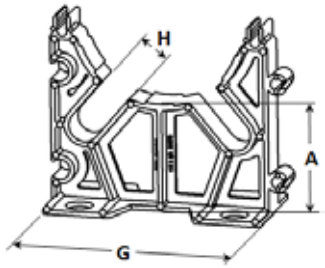






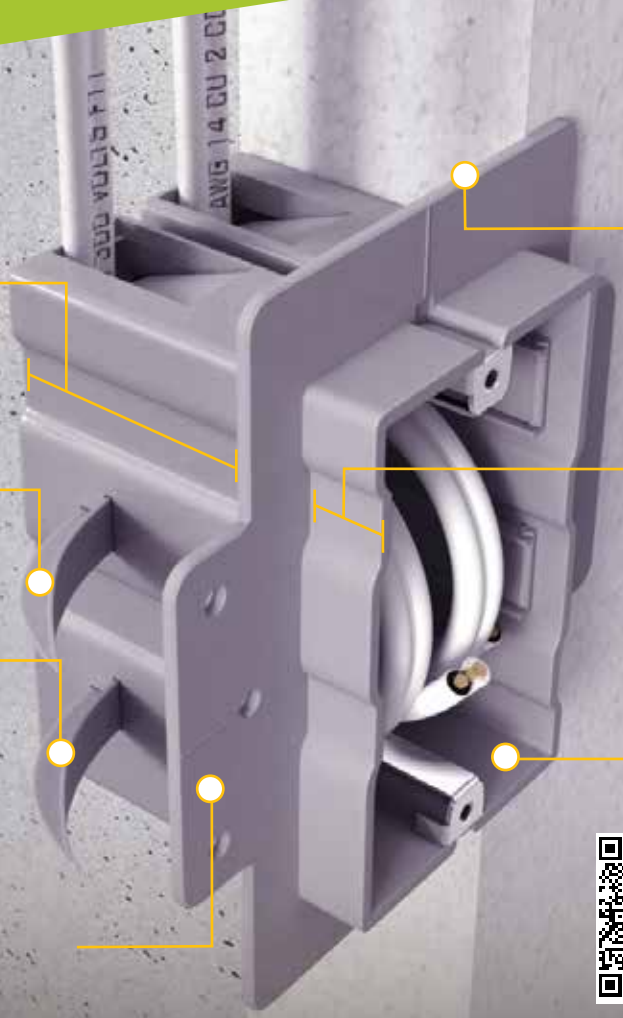
Size (inches)	Part Number	Product Code	Dimensions (inches) A	B	H	G
Base Vertical-Lok Spacers						
2 x 1-1/2	BS3530	029566	3.04	4.25	0.63	3.94
2 x 2	BS3535	029567	3.04	4.25	0.63	4.47
2 x 3	BS3545	029568	3.04	4.25	0.63	5.44
3 x 1-1/2	BS4530	029585	3.00	5.84	0.88	5.12
3 x 2	BS4535	029570	2.97	4.78	0.88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

* Do not have rebar slots



INEXO®

THE ICF BOX



Insertion depth of 2-1/4"

'TEETH' can be easily removed and replaced.

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

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

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

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

Single gang box provides 19 cubic inch capacity

Scan to view our product demo video or visit our website

THE INNOVATIVE ELECTRICAL BOX FOR INSULATED CONCRETE FORM CONSTRUCTION



For complete product information, visit www.ipexna.com/inexo

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

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

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

Specialty Products









INEXO ICF Boxes 84

INEXO ICF BOXES

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

INEXO™

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

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

1 Patent No. 6,932,628 & Patent Pending

APPLICATIONS

- Insulated Concrete Form Buildings
- Schools
- Churches
- Hotels

STANDARDS

C SP US

ADVANTAGES

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

FAST AND EASY INSTALLATION

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

STEP 1:
Select the position for your box. Using a hot-knife or cutting tool, cut the opening in the EPS foam.



STEP 2:
Insert the INEXO box into your opening and push the 'teeth' into place until you hear the 'click' – so you know your box is secure. If you are positioned next to a tie, you can utilize two of the 'teeth' on the non-tie side and use the flange holes on the opposite side to screw into the plastic tie.



STEP 3:
Pull through your NMD cable and continue.



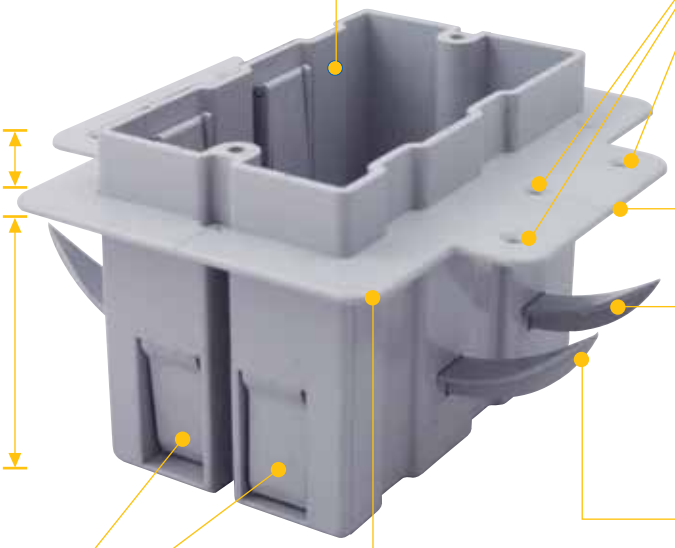
Single gang box provides 19 cubic inch capacity

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

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

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





Laser level guides for the most precise box placement

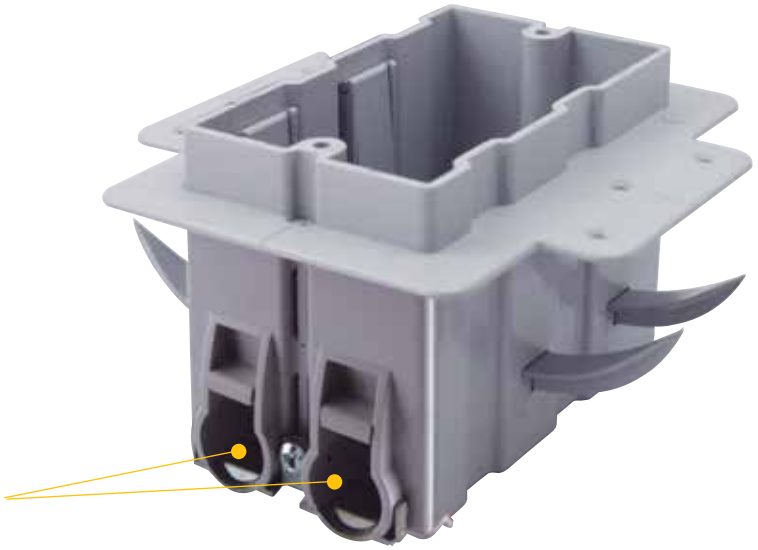
'TEETH' can be easily removed and replaced and provide an audible 'click' when fully engaged and secured to the EPS foam.

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



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

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



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



INEXO BOXES

Description	Part Number	Product Code
Residential (NMD Cable 14/2 – 10/3)		
 Single Gang	ICF-1-RL	220000
Double Gang	ICF-2-RL	220001
Triple Gang	ICF-3-RL	220002
Commercial (AC or NMD Cable)		
 Single Gang	ICF-1-CLU	220009
Double Gang	ICF-2-CLU	220010
Triple Gang	ICF-3-CLU	220011

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

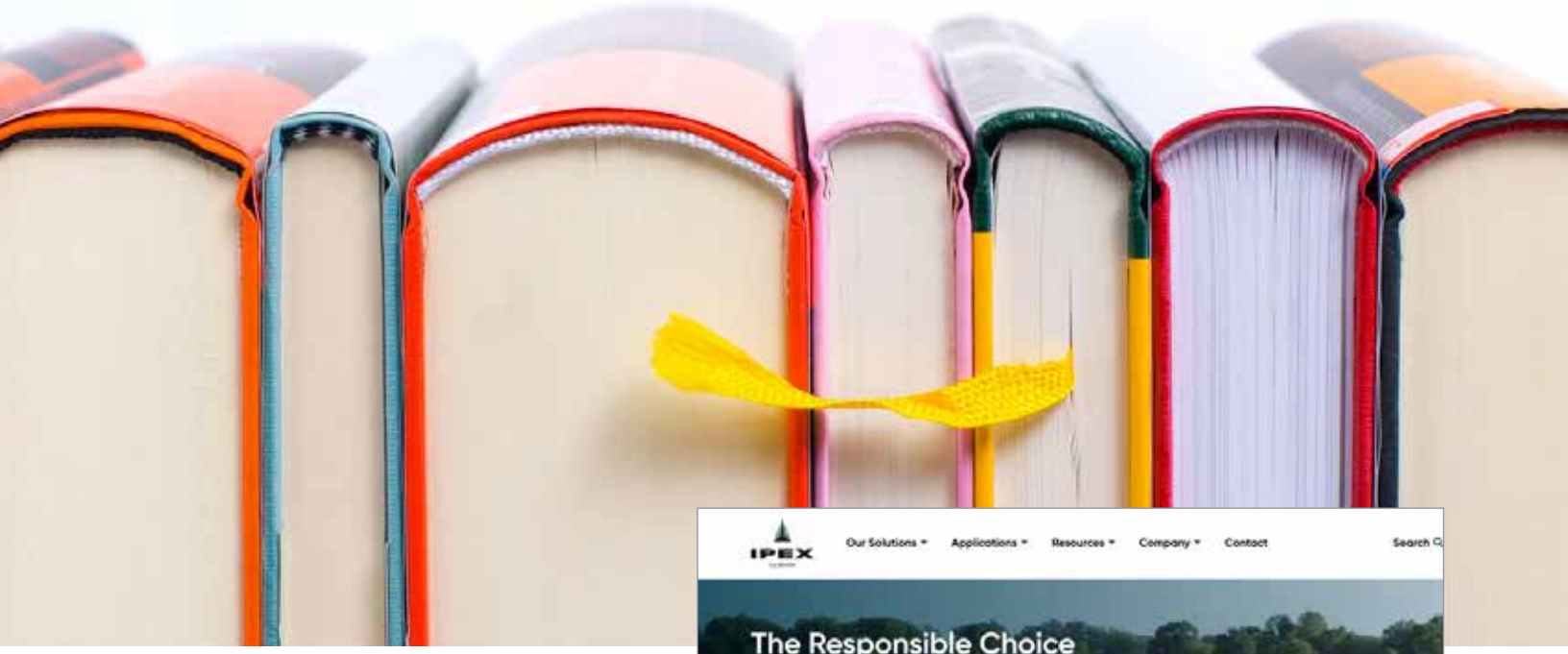


RESIDENTIAL BOX
WITH LOW VOLTAGE DIVIDER

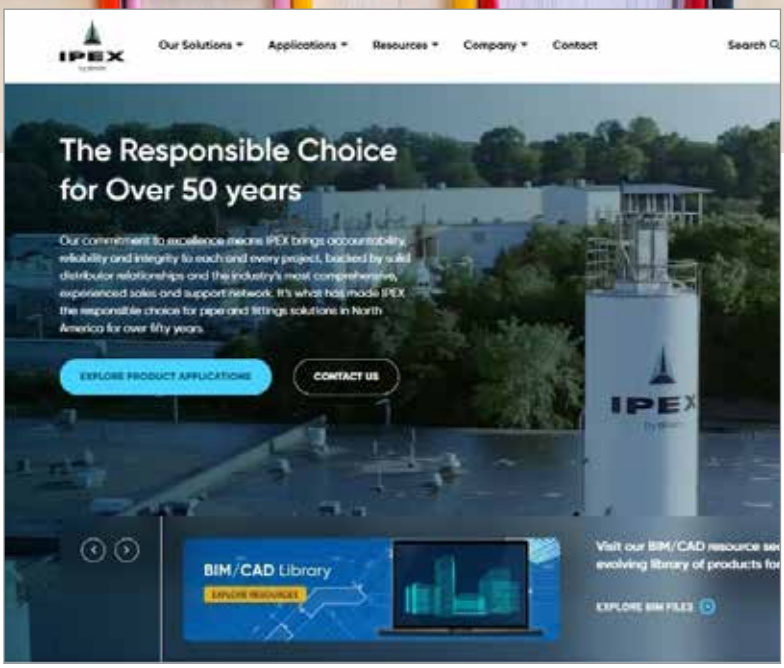
The new INEXO ICF box divider provides contractors with a quick and convenient way to separate different voltage sources in the same box.

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PRODUCT INFO,
TECHNICAL
DOCUMENTS,
ONLINE TRAINING
& MUCH MORE ...





OUR SCEPTER ELECTRICAL CATALOGUE & ELECTRICAL POCKET PRO INCLUDE MORE INFORMATION ON:

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- Light Fixtures
- ENT Tubing & Fittings
- Duct
- Trenchless Raceways
- and much more ...

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About IPEX by Aliaxis

As leading suppliers of thermoplastic piping systems, IPEX by Aliaxis provides our customers with some of the world's largest and most comprehensive product lines. All IPEX by Aliaxis products are backed by more than 50 years of experience. With state-of-the-art manufacturing facilities and distribution centers across North America, we have earned a reputation for product innovation, quality, end-user focus and performance.

Markets served by IPEX by Aliaxis products are:

- Electrical systems
- Telecommunications and utility piping systems
- PVC, CPVC, PP, PVDF, PE, ABS, and PEX pipe and fittings
- Industrial process piping systems
- Municipal pressure and gravity piping systems
- Plumbing and mechanical piping systems
- Electrofusion systems for gas and water
- Industrial, plumbing and electrical cements
- Irrigation systems

Products are manufactured by IPEX Electrical Inc. and distributed in the United States by IPEX USA LLC.

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A policy of ongoing product improvement is maintained. This may result in modifications of features and/or specifications without notice.

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