

## THE ELECTRICAL ADVANTAGE



*A proven mechanical spline-locking system ensures SceptaCon won't pull apart in the borehole.*

### THE MISSING LINK IN YOUR PVC SYSTEM

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.

### NO CEMENTING OR LUBRICATION REQUIRED

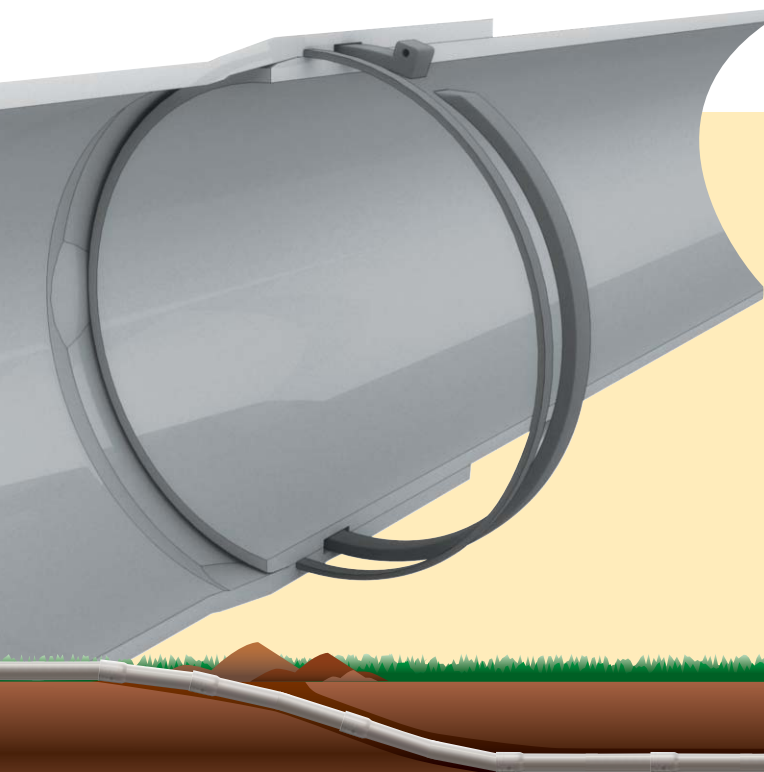
SceptaCon's slide-in locking system and pre-installed, pre-lubricated gaskets allow contractors to create a water-tight seal by hand in seconds – in all temperatures without having to worry about solvents or chemicals freezing or drying too quickly.

### OUTPERFORMS OTHER PVC PRODUCTS

SceptaCon's spline-lock snaps into place in a recessed opening, ensuring the spline won't get snagged during pull-through. SceptaCon's rounded bell shoulders slide easily past roots, rocks and other debris in the borehole, ensuring a smooth, easy installation. And because SceptaCon is made to the same high standards as our 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.

**“We used the 4" SceptaCon raceway and found it joined together with ease, was very lightweight and simple to use. With the fixed (stopper) ring, you knew when the pipe was fully inserted, lining up the locking spline grooves perfectly. The spline slid in easily and connected the two lengths together without difficulty. SceptaCon was a pleasure to use.”**

*Ron Stang, Foreman, EPCOR Technologies*



### FAST AND EASY JOINT ASSEMBLY

SceptaCon needs no special equipment or training like polyethylene fusion. The best part of all is it joins quickly, creating a water-tight seal literally in seconds.



#### STEP 1

Simply remove the red protective plugs and locking spline included inside every length. Slide the spigot end of a pipe into the bell end past the pre-lubricated gasket to the positive stop alignment ring.



#### STEP 2

Push the locking spline into the insertion hole at the top of the joint and feed it into the opening. When the spline is completely inserted into the pipe's inner groove, it will lock the lengths together.



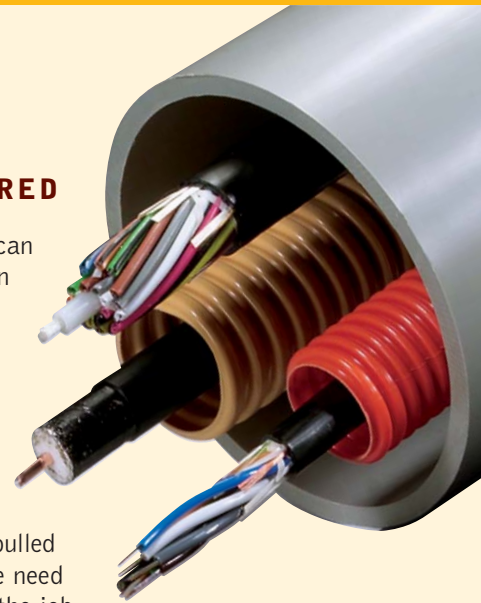
#### STEP 3

You're done! Now that your raceway lengths are locked securely, they're ready to be pulled into the borehole. Our spline locking system ensures they'll stay together during pull-through and over their life underground.

### 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.



### 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.

### 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.



# PRODUCT CATALOG

*SceptaCon is available in a wide range of sizes and lengths to fit the needs of any HDD project. Every length is delivered with protective plugs in either end of the pipe to keep the conduit free of dirt and debris during shipping and job site handling.*

Nominal Size		Product Code	O.D.		I.D.		Min. Wall	
inches	mm		inches	mm	inches	mm	inches	mm
2	53	(20') 106421	2.375	60.3	2.067	52.5	0.154	3.9
3	78	(10') 106430 (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

## SUGGESTED SPECIFICATIONS

### 1.0 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.

### 2.0 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.

### 3.0 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
  - 3" – 7,000 lbs
  - 4" – 8,700 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

