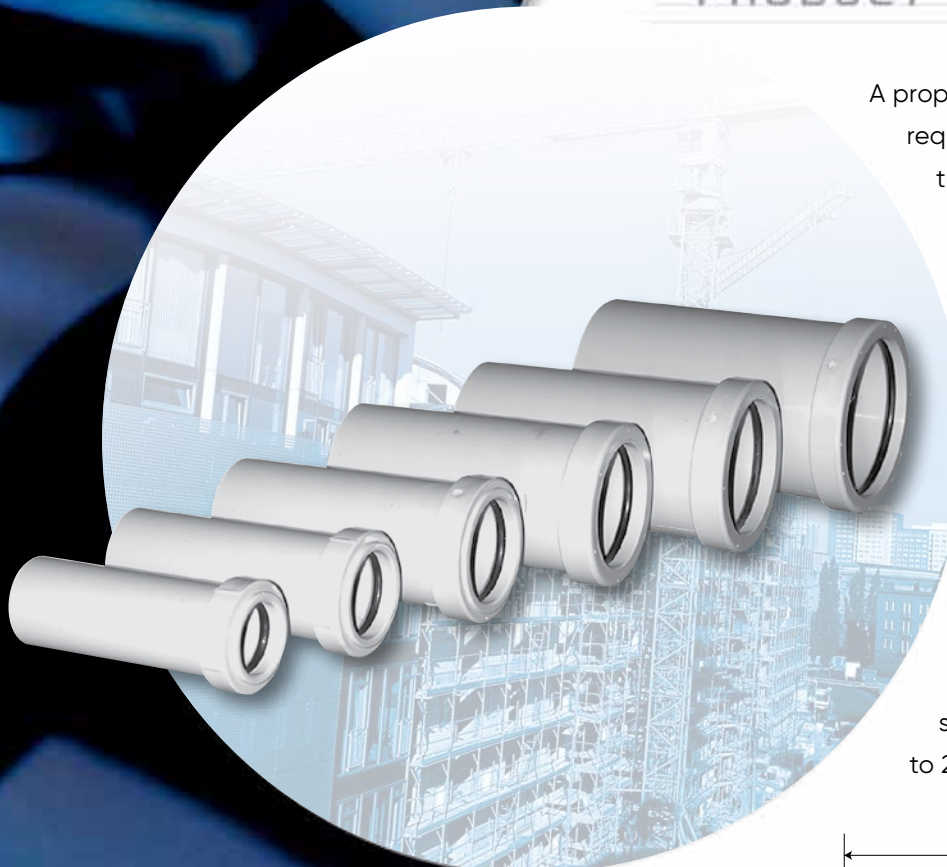


# Scepter® ONE PIECE EXPANSION JOINTS

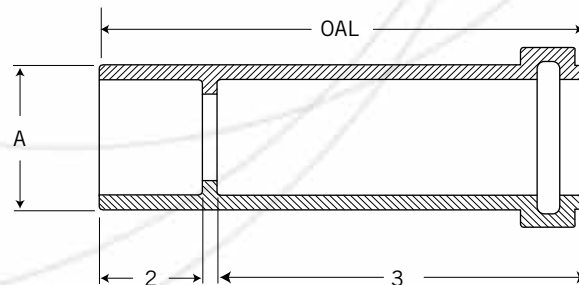
## PRODUCT INFORMATION BULLETIN



A proper functioning PVC conduit system will frequently require the use of expansion fittings to account for thermal expansion and contraction. Our Scepter One Piece Expansion Joint (OPEJ) is designed to accommodate thermal expansion and contraction on shorter runs of PVC Conduit.

The efficient design of the One Piece Expansion Joint provides fast trouble-free installation. The use of expansion fittings on all installations (even where it is not mandated by code) will ensure the owner receives a secure and appealing installation that will last the life of the system.

The OPEJ, supplied with a Nitrile O-ring for smooth functioning, is available in sizes from 1/2" to 2".



### FEATURES AND BENEFITS:

- 1/2" - 2"
- Molded one piece construction
- Simple to install
- Canadian Electrical Code compliant



Products manufactured by IPEX Electrical Inc.

Size inches	Part Number	Product Code	A Diameter	2 Length	3 Length	Overall Length	Std. Packaging	Wgt/Pkg (lbs)
1/2	OPEJ10	077018	1.102	0.660	2.465	3.25	80	6
3/4	OPEJ15	077019	1.314	0.729	2.646	3.50	50	5
1	OPEJ20	077053	1.610	0.885	2.725	3.75	40	5.5
1-1/4	OPEJ25	077054	1.987	0.950	2.895	4.00	25	5
1-1/2	OPEJ30	077061	2.208	1.075	3.030	4.25	15	4
2	OPEJ35	077063	2.701	1.140	3.206	4.50	10	4

For Installation instructions, please refer to the Electrical Product Catalogue located on [www.ipexna.com](http://www.ipexna.com) in the Scepter Rigid PVC Pipe & Fittings section.

## Installation

The 2002 NEC Code (352.44) specifies: "Expansion fittings for Rigid Nonmetallic Conduit shall be provided to compensate for thermal expansion and contraction where the length change is expected to be 1/4" or greater in a straight line between securely mounted items such as boxes, cabinets, elbows or other conduit terminations."

The graph illustrates when expansion fittings are required based on the length of the conduit run and the expected temperature change.

As a general rule 100 feet of PVC conduit will undergo a change in length of 4" for every 100°F temperature change.

On a 30 foot run of PVC conduit or less a single One Piece Expansion Joint fitting will control 1-1/4" of expansion or contraction regardless of the ambient temperature at time of installation. For long conduit runs the use of EJ series expansion joints is recommended.

### Installing the One Piece Expansion Joint (OPEJ):

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

Note: Expansion fittings are not required when the conduit is embedded in concrete or direct earth buried.

