

UNDERGROUND RACEWAYS & GROUND SETTLEMENT

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ELECTRICAL SYSTEMS

The new 2009 edition of the Canadian Electrical Code (CEC) includes a new sub rule that requires the installing contractor and/or utility to account for raceway movement due to ground settlement or the affects of frost heaving.

ADD NEW SUBRULE 12-012(12) AND RENUMBER EXISTING SUBRULE (12) AS (13)

(12) Where underground raceways or cables are subject to movement by settlement or frost, provision shall be made so as to prevent damage to the conductors or the electrical equipment.

IPEX has a number of product solutions to accommodate raceway movement for this specific requirement (each option is available in a range of sizes):

Scepter PVC Expansion Joints

Used with standard PVC conduit and fittings, Scepter EJ expansion joints accommodate for thermal expansion/contraction and the ground movement and are easily installed as required for each specific installation. For best performance it is recommended that the EJ is positioned immediately below the meter socket.



Size (in)	Part Number	Product Code
1-1/4	EJ25	077384
1-1/2	EJ30	077385
2	EJ35	077386
2-1/2	EJ40	077387
3	EJ45	077388
4	EJ55	077390

Scepter PVC Expansion Joints (c/w TA fitting)

These special Scepter PVC expansion joints are supplied with the appropriately sized TA fitting. Assembled at the factory, the fittings are ready for installation directly to the meter socket. The installer needs only to 'set' the piston opening when connecting the underground raceway.



Size (in)	Part Number	Product Code
2	EJ35TA	077680
2-1/2	EJ40TA	077398
3	EJ45TA	077681
4	EJ55TA	077682

Scepter Slip Meter Risers (c/w TA fitting)

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.



Size (in)	Part Number	Product Code
2	SMR20TA	068371
2-1/2	SMR25TA	068372
3	SMR30TA	068373
4	SMR40TA	068374

For clarification on the CEC sub rule, accepted installation practices and effective date (the adoption date by the authority having jurisdiction) of the 2009 CEC, please consult with your local electrical inspector.