

## Addendum to Instruction Manuals for Extended-Range Current Transformers

### Current Transformer (OSKFXXX.ER) / Combined CT/VT (KOTEFXXX.ER)

The Ritz ERCT has an accuracy rating of 0.15B1.8. This means that the CT will meet the 0.15% class (defined above) for applied burdens up to 1.8 O. The applied burden is the total burden imposed by the connected instruments plus the total resistance of the leads from the CT secondary box to the instruments and back to the CT. Normally, #10 or #12 wire is sufficient, however larger wire may be needed if the CT is located far away from the connected instruments.

Since the magnitude of the secondary current is very small at the low end of the accuracy range, measures must be taken to prevent the secondary leads from being affected by electromagnetic interference.

The secondary leads should be twisted and housed inside metal conduit that is grounded at both ends. Shielded cable may be used in lieu of metallic conduit, provided that the inter-wires are twisted and that the shielding is applied over the twisted-pair. Both leads of each winding should be run all the way back to the meter, i.e. not grounded at the CT. If possible, the secondary leads should not be run in physical parallel with the HV line.

