

## CURRENT TRANSFORMER LEAD EXTENSIONS

**BACKGROUND:** Standard lead length for a DENT current transformer is 3 meters (with a 7 meter option available for some models). Occasionally, because of electrical room layout or other factors, there is a requirement for longer leads on a current transformer. Therefore, extending the CT leads is necessary. The following is a brief overview of options for extending CT leads based on CT type.

**Note that the length recommendations listed below apply to PowerScout Series and ELITEpro XC instruments ONLY.** To extend RoCoil leads for use with the TCA-5, please contact Tech Support for advice specific to your application. For questions outside the scope of this document, please contact DENT Technical Support: support@dentinstruments.com | 541-388-4774.

### SPLIT-CORE / HINGED CURRENT TRANSFORMERS (INCLUDING REVENUE GRADE SPLIT CORES)



#### MAXIMUM LENGTH

Split-core CT leads can be extended up to 500 feet using extensions of the same wire type/AWG

#### WIRE TYPE

600V Rated VW-1, 105°C, 20AWG, black and white twisted pair, cURus

#### PURCHASING OPTIONS

1. Purchase wire by-the-foot for DIY splicing from DENT using part number WIRE 20AWG TWPR
2. Wire may be purchased in 1000 foot spools from Interconnect Sales with p/n UL1015-20-0-9-Twist

#### RECOMMENDED SPLICING METHOD/MATERIALS

Sure-Connect sealed butt splices from McMaster-Carr (p/n 9895K13) which require a crimping tool and hot air gun. Always follow manufacturer's instructions.

### ROCOIL CURRENT TRANSFORMERS



#### MAXIMUM LENGTH

RöCoil CT leads can be extended up to 100 feet using extensions of the same wire type/AWG

#### WIRE TYPE

"Bare" RöCoil: Shielded cable with thermoplastic insulation, 1000VAC VW-1, 2x26AWG, 80°C, cURus

#### PURCHASING OPTIONS

1. Purchase wire by-the-foot for DIY splicing from DENT using part number CBL ROCOIL
2. RoCoil mV ONLY: DIY splicing is not advised for RoCoil mV CTs. Contact factory for details.

#### RECOMMENDED SPLICING METHOD/MATERIALS ("Bare" RoCoil Only)

Sure-Connect sealed butt splices from McMaster-Carr (p/n 9895K11) which require a crimping tool and hot air gun. Always follow manufacturer's instructions.

### SOLID CORE (TOROID) CURRENT TRANSFORMERS



#### MAXIMUM LENGTH

Solid Core (Toroid) CT leads can be extended up to 500 feet using extensions of the same wire type/AWG

#### WIRE TYPE

UL1015 24AWG 7 Strand Black & White Twisted Pair (1 twist per inch), 600V

#### PURCHASING OPTIONS

1. DENT does not currently stock this wire. It can be purchased by the spool (10,000 ft) through Interconnect Sales (<http://www.interconnectsales.com>).

#### RECOMMENDED SPLICING METHOD/MATERIALS

Sure-Connect sealed butt splices from McMaster-Carr (p/n 9895K11) which require a crimping tool and hot air gun. Always follow manufacturer's instructions.