

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 @ \$1/foot 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

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

WIRE TYPE

"Bare" RoCoil: 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 @ \$1.50/foot 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.