

CURRENT TRANSFORMER LEAD EXTENSIONS

BACKGROUND: Lead length for a DENT current transformer is between 6 and 8 feet, depending on model. 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. For questions outside the scope of this document, please contact DENT Technical Support at techhelp@dentinstruments.com / 541-388-4774.

SPLIT-CORE / HINGED CURRENT TRANSFORMERS



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. CTs spliced at the factory in custom lengths for \$15 per CT plus \$1/foot
3. 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. Custom lengths performed at DENT factory @ \$3/foot (3-4 week lead time)
3. **RoCoil mV ONLY:** DIY splicing is not advised for RoCoil mV CTs. Length can be added at the factory for \$3/foot (1-2 week lead time)

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.