

PLA PREFORMED LOOP



Engineering Excellence!

FOR ACCESS APPLICATIONS



- Loop / Lead-in cables are flexible for easy handling and installation.
- Can be configured to suit any geometry; rectangular, round, or Quadrupole™.
- Wire insulation is formulated from Cross-linked Polyethylene (XLPE) and will withstand temperatures up to 426° Fahrenheit.
- All splice connections are soldered, sealed and tested during fabrication.
- Designed to be used in 1/8" saw cuts.
- Specially designed splice joint allows adjustment of the loop in the saw cut to ensure an exact fit.

Ordering Information:

Model PLA-XX-XX ← Lead-in Cable Length (feet)



Loop Perimeter (feet)

Overview:

The Model PLA Preformed Loop is a prefabricated loop / lead-in assembly designed to be installed in a 1/8" saw cut. The PLA is designed to maximize durability and maintain a flexible form that is easy to install and handle. All wire insulation is constructed with the optimal thickness of Cross-linked Polyethylene (XLPE) necessary to ensure a long, trouble free life. XLPE insulation provides excellent thermal, electrical, and physical properties and is recognized for its outstanding resistance to moisture and chemicals.

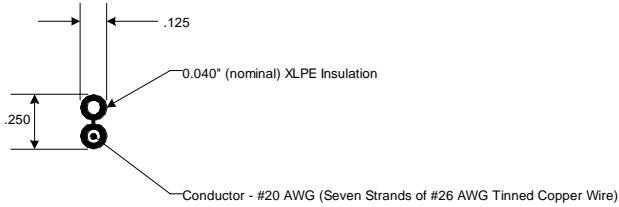
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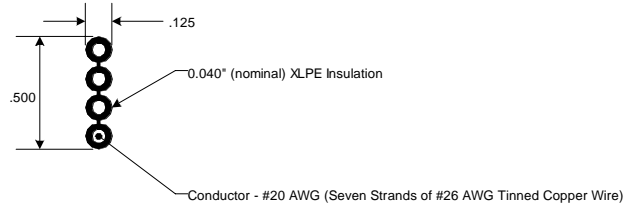
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PLA SPECIFICATION



Loop Cable - Two Turn Loop / Lead-in Cable - Two & Four Turn Loop
(Two-Conductor Ribbon Cable)



Loop Cable - Four Turn Loop
(Four-Conductor Ribbon Cable)

PLA INSTALLATION INSTRUCTIONS

Loop Installation - Preformed Saw Cut Type:

- 1 Mark the loop layout on the pavement. A string that is the same length as the perimeter of the loop can be used as a guide. Be aware that sharp inside corners can damage the loop wire insulation.
- 2 Set the saw to cut to a depth (typically 2" to 2.5") that ensures a minimum of 1" from the top of the wire to the pavement surface. The saw cut width should be larger than the wire diameter to avoid damage to the wire insulation when the wire is placed in the slot. Cut the loop and feeder slots. Remove sharp inside corners. Remove all debris from the saw slots with a stream of high pressure water and then use compressed air to blow out any remaining debris and water. The saw slot should be dry before installing the wire. If there is any moisture remaining in the slots, repeat the process of blowing out the slot with compressed air. Check that the bottom of the slot is smooth.
- 3 Starting at the splice in the preformed loop, flatten the loop portion of the wire to find the center of the loop opposite the splice. Install the loop starting at the point directly opposite the feeder saw slot and work your way to the splice saw slot. Use a wooden stick or roller to press the wire to the bottom of the saw slot, **do not use a sharp object**. You should have an equal amount of four conductor loop wire on each side of the loop as you approach the splice. If not, slide the loop in the saw slot until the wire lengths match. Place the splice in the splice saw slot and then place the lead-in wire in the feeder saw slot.
- 4 The loop/lead-in wire must be held firmly in the saw slot to prevent the wire from floating when the loop sealant is applied. Use 1" pieces of backer rod spaced every 1 to 2 feet to secure the wire.
- 5 Apply the sealant. The sealant selected should have good adhering properties with contraction and expansion characteristics similar to those of the pavement material. Special care should be used where the loop saw slot and splice saw slot meet to ensure that this area has no air pockets and that the wire is as deep in the saw slot as possible.

Loop Installation - Preformed Circular Saw Cut Type:

- 1 Mark the loop layout on the pavement. Be aware that sharp inside corners can damage the loop wire insulation.
- 2 Set the saw to cut to a depth (typically 2" to 2.5") that ensures a minimum of 1" from the top of the wire to the pavement surface. The saw cut width should be larger than the wire diameter to avoid damage to the wire insulation when the wire is placed in the slot. Cut the loop and feeder slots. Remove sharp inside corners. Remove all debris from the saw slots with a stream of high pressure water and then use compressed air to blow out any remaining debris and water. The saw slot should be dry before installing the wire. If there is any moisture remaining in the slots, repeat the process of blowing out the slot with compressed air. Check that the bottom of the slot is smooth.
- 3 Starting at the splice in the preformed loop, flatten the loop portion of the wire to find the center of the loop opposite the splice. Install the loop starting at the point directly opposite the feeder saw slot and work your way to the splice saw slot. Use a wooden stick or roller to press the wire to the bottom of the saw slot, **do not use a sharp object**. You should have an equal amount of four conductor loop wire on each side of the loop as you approach the splice. If not, slide the loop in the saw slot until the wire lengths match. Place the splice in the splice saw slot and then place the lead-in wire in the feeder saw slot.
- 4 The loop/lead-in wire must be held firmly in the saw slot to prevent the wire from floating when the loop sealant is applied. Use 1" pieces of backer rod spaced every 1 to 2 feet to secure the wire.
- 5 Apply the sealant. The sealant selected should have good adhering properties with contraction and expansion characteristics similar to those of the pavement material. Special care should be used where the loop saw slot and splice saw slot meet to ensure that this area has no air pockets and that the wire is as deep in the saw slot as possible.

