

**STATE OF NEW JERSEY  
DEPARTMENT OF TRANSPORTATION  
TRENTON, NEW JERSEY 08625**

**SPECIFICATIONS FOR LOOP DETECTOR LEAD**

N. J. Specification No. EB-LDL

Effective Date: July 1, 2001

New Jersey Department of Transportation Specifications for Loop Detector Lead.

The purpose of these specifications is to describe minimum acceptable design requirements for loop detector lead.

**TYPE A**

Loop detector lead shall consist of two THHN/THWN conductors twisted and covered with a polyvinyl chloride outer jacket. The traffic signal cable shall conform to UL subject 1277. The cable shall be rated for 600 volts.

The conductor shall be bare soft annealed copper wire, seven wire (Class B) stranding conforming to ASTM B 3 and B 8.

The insulation shall be high dielectric polyvinyl chloride covered with an insulation armor of nylon conforming to UL 83 for type THHN/THWN insulation. The insulated conductors shall be twisted with a minimum of 3 turns per foot and covered with a helically or longitudinally applied suitable binding tape is optional.

Surface Printing: Ink Printed, "14 AWG No. Conductors - THHN/THWN - NJDOT Approval number - Company name and number."

**TYPE B**

Loop detector lead shall be two XHHW conductors, twisted and covered with a polyvinyl chloride outer jacket. The loop detector lead shall conform to UL Subject 1277. The cable shall be rated for 600 volts.

The conductor shall be bare soft annealed copper wire, seven wire (Class B) stranding conforming to ASTM B 3 and B 8.

The insulation shall be cross-linked polyethylene conforming to UL 44 for Type XHHW insulation. The insulated conductors shall be twisted with a minimum of 3 turns per foot. A helically or longitudinally applied suitable binding tape is optional.

Surface Printing: "14 AWG No. Conductors - XHHW - NJDOT Approval number - Company name and number."

**STATE BID PURCHASED MATERIAL**

The following applies only to material procured through bid for direct State purchase:

1. Cable must be supplied on a wooden reel.