CU 600V XLPE Cable Tube Loop Detector IMSA 51-7

600 Volt Single Conductor Copper, Cross Linked Polyethylene Insulation, Polyvinyl Chloride PVC or High Molecular Weight HMW Tube



Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

- 1. **Conductor:** 19 stranded annealed bare copper per ASTM B3 and B8
- 2. Insulation: Cross Linked Polyethylene
- 3. **Rip Chord:** High strength rip chord for ease of tube removal
- 4. **Tube:** Loose Polyvinyl Chloride or High Molecular Weight Polyethylene HMW Tube

APPLICATIONS AND FEATURES:

Southwire's IMSA 51-7 cable meets the requirements of International Municipal Signal Association IMSA 51-7 specification. Rated for use in traffic signal, traffic control systems, underground conduit and loop detector wire. iMSA 51-7 600 Volt series cables run from the switch buried in asphalt to the junction box. The conductors are bare annealed copper 19 strand and covered with an abrasion, sunlight and moisture resistant cross linked polyethylene. The conductor is housed in a polyvinyl chloride or high molecular weight polyethylene tube. These cables are capable of operating continuously at a conductor temperature between -20°C and 75°C.

Cable is manufactured by Southwire Company in their Waukegan, IL plant USA.

SPECIFICATIONS:

- ASTM B3 Soft or Annealed Copper Wire
- ASTM B8 Concentric-Lay-Stranded Copper Conductors
- EPA 40 CFR, Part 26, Subpart C heavy metals per Table 1, TCLP method
- IMSA 51-7

SAMPLE PRINT LEGEND:

SOUTHWIRE® YEAR SIZE 600V IMSA 51-7 CABLE SEQUENTAIL FOOT MARK.









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SPEC 45655 Stock #: TBA

Table 1 – Weights and Measurements

Cond. Size	Cond. Number	Cond. Strands	Diameter Over Conductor	Insul. Thickness	Approx. OD	Approx. Weight
AWG/Kcmil	No.	No.	inch	mil	inch	lb/1000ft
12	1	19	0.093	30	0.153	38

All dimensions are nominal and subject to normal manufacturing tolerances

Table 2 – Electrical and Engineering Data

Cond. Size	DC Resistance @ 25°C	Min Bending Radius
AWG/Kcmil	Ω/1000ft	inch
12	1.720	0.6

^{*} Inductive impedance is based on non-ferrous conduit with one diameter spacing.









[♦] Cable marked with this symbol is a standard stock item