

CU 600V XLPE Cable Loop Detector IMSA 51-3

600 Volt Single Conductor Copper, Cross Linked Polyethylene (XLPE) insulation XHHW-2

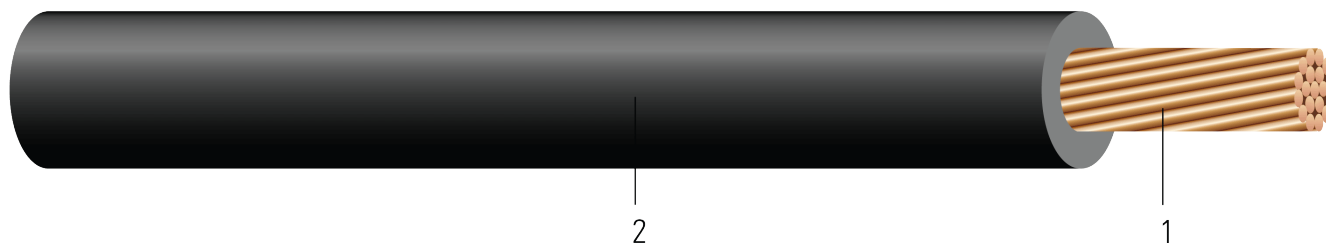


Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

1. **Conductor:** 19 stranded annealed bare copper per ASTM B 3 and B8
2. **Insulation:** Cross Linked Polyethylene XLPE

APPLICATIONS AND FEATURES:

Southwire's IMSA 51-3 cable meets the requirements of International Municipal Signal Association IMSA 51-3 specification. Rated for use in traffic signal, traffic control systems, underground conduit and loop detector wire. The conductors are bare annealed copper 19 strand and covered with an abrasion, sunlight and moisture resistant cross linked polyethylene insulation. 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 51-3

SAMPLE PRINT LEGEND:

SOUTHWIRE® YEAR SIZE 600V IMSA 51-3 CABLE SEQUENTIAL FOOT MARK.

Table 1 – Weights and Measurements

Stock Number	Cond. Size AWG/Kcmil	Cond. Number No.	Cond. Strands No.	Diameter Over Conductor inch	Insul. Thickness mil	Approx. OD inch	Approx. Weight lb/1000ft
581410	14	1	19	0.074	30	0.138	30
TBA	12	1	19	0.093	30	0.153	38

All dimensions are nominal and subject to normal manufacturing tolerances

◇ Cable marked with this symbol is a standard stock item



Table 2 – Electrical and Engineering Data

Cond. Size AWG/Kcmil	DC Resistance @ 25°C Ω/1000ft	Max Pull Tension lb	Min Bending Radius inch
14	2.730		0.6
12	1.72		0.6

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

