

# CU 600V PE PE Cable Color Method 1 Table 1 Traffic Signal IMSA 20-1

Multi-conductor nonshielded 600V Polyethylene Insulation, Polyethylene (PE) Jacket



Image not to scale. See Table 1 for dimensions.

## CONSTRUCTION:

1. **Conductor:** Solid or stranded annealed bare copper class B per ASTM B 3 and B8
2. **Insulation:** Polyethylene PE
3. **Rip Chord:** High strength rip chord for ease of jacket removal
4. **Separator:** Polyester tape
5. **Jacket:** Black polyethylene PE jacket

## APPLICATIONS AND FEATURES:

Southwire's IMSA 20-1 cable meets the requirements of International Municipal Signal Association IMSA 20-1 specification. Rated for use in traffic signal, traffic control systems, underground conduit and aerial use where supported by a messenger. IMSA 20-1 600 Volt series cables run from the traffic light to the controller station. The conductors are bare annealed copper solid or stranded class B and covered with an abrasion, sunlight and moisture resistant polyethylene jacket. The insulated conductors are twisted and wrapped with a polyester tape. A ripcord is added under the black polyethylene jacket for ease of removal. 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 Standard Specification for Soft or Annealed Copper Wire
- ASTM B8 Concentric-Lay-Stranded Copper Conductors
- ASTM B174 Standard Specification for Bunch-Stranded Copper
- EPA 40 CFR, Part 26, Subpart C heavy metals per Table 1, TCLP method
- IMSA 20-1

## SAMPLE PRINT LEGEND:

SOUTHWIRE® YEAR SIZE 600V IMSA 20-1 CABLE SEQUENTIAL FOOT MARK.

**Table 1 – Physical and Electrical Data**

Cond. Size	Cond. Number	Cond. Strands	Diameter Over Cond.	Insul. Thickness	Jacket Thickness	Approx. OD	Approx. Weight	DC Resistance	Min Bending Radius
AWG	No.	strands	inch	mil	mil	inch	lb /1000ft	Ω /1000ft	inch
12 AWG									
12	4	1	0.080	25	45	0.430	123	1.62	1.72

All dimensions are nominal and subject to normal manufacturing tolerances



◇ Cable marked with this symbol is a standard stock item

