

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 | 7 | 7 | 0.087 | 25 | 60 | 0.576 | 226 | 1.66 | 2.30 |

All dimensions are nominal and subject to normal manufacturing tolerances



Southwire

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◇ Cable marked with this symbol is a standard stock item

