

**DIRECT BURIAL  
LOW ENERGY CIRCUIT CABLE  
INSULATION: POLYVINYL CHLORIDE  
SIZES: 18 AWG AND 16 AWG**



**1.0 SCOPE:**

**1.1** This specification covers the construction requirements for underground low energy circuit cable for use in accordance with the National Electrical Code for operation at 30 volts or less rated 60°C. Listed by UL or ETL or CSA.

**2.0 CONSTRUCTION:**

**2.1**

SIZE AWG	STRANDING	INSULATION WALL (INCHES)	APPROX. DIAMETER (INCHES)	CURRENT CARRY CAPACITY*
18	SOLID	.045	.130	10 AMPS
16	SOLID	.045	.141	13 AMPS

**2.2 Conductor:**

Soft-annealed, uncoated copper conforming to ASTM B-3 or B-8.

**2.3 Insulation:**

Polyvinyl chloride, 60°C rated conforming to UL standards 493 and 83.

**2.4 Manufacturer's Identification:**

Surface marked with Paige-Electric, voltage rating, size and type, Listing file number, RoHS.

**2.5 Listing:**

All cables shall be tested physically and electrically in accordance with UL Standard 493, and 83. All reels and cartons bear Listing labels.

**3.0 SPLICING RECOMMENDATIONS:**

Wire splices are the weak link of any electrical circuit. It is especially important to make proper joints in irrigation systems because the joints are exposed to wet and damp environments that can cause corrosion of the copper conductor and premature failure. Here are Paige Electric's recommendations:

- For direct burial, above ground, or in valve box installations: Model DBR/Y-6 as manufactured by the 3M Company (Paige specification P7364D)
- For installation above ground or in valve boxes: Models 316IR or MGC as manufactured by the 3M Company (Paige specification P7365D), or Silicone-filled wire nuts as manufactured by IDEAL Industries (Paige specification P7372D)