

MATERIAL SPECIFICATION

CAST Lighting No-Ox[®] Wire
UNDERGROUND LOW ENERGY
CIRCUIT CABLE
SPT STYLE (PARALLEL)
INSULATION: PVC

SIZES: 16 AWG THROUGH 8 AWG – 2 CONDUCTORS
SPT STYLE (PARALLEL)
UL LISTED FOR DIRECT BURIAL



1.0 SCOPE

- 1.1. This specification covers the construction requirements for two-conductor underground low energy circuit cables for outdoor low voltage lighting. Construction consists of stranded tin-coated annealed copper conductors, laid parallel and insulated with polyvinyl chloride.
- 1.2. Voltage rating is 30 Volts

2.0 CONSTRUCTION

2.1. Sizes and dimensions:

Size AWG	Stranding	Insulation Min. Ave. Wall (Inches)	Nominal Dimensions (Inches)	Resistance (Ohms/ft)
18	16/.010"	.045"	.290" x .145"	.00723
16	26/.010"	.045"	.320" x .160"	.00418
14	41/.010"	.045"	.350" x .175"	.00282
12	65/.010"	.045"	.390" x .195"	.00177
10	104/.010"	.045"	.440" x .220"	.00111
8	168/.010"	.060"	.575" x .285"	



- 2.2. **Conductor:**
Bunch or rope stranded tin-coated annealed copper conforming to UL requirements
- 2.3. **Assembly:**
The two conductors are laid parallel and insulated.
- 2.4. **Insulation:**
Black polyvinyl chloride conforming to Underwriters Laboratories Class 43 to 60°C thermoplastic, suitable for direct burial. One leg has a raised ridge for polarity.
 - 2.4.1. Operating Temperature Range: 105°C to -25°C
- 2.5. **Marking:**
 - 2.5.1. Plain leg of wire indent printed: "CAST Lighting Size AWG 2/C Underground Low Energy Circuit Cable Sunlight Resistant for Outdoor Lighting (UL)."

