

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.

2.0 CONSTRUCTION

- 2.1. Sizes and dimensions

Size AWG	Stranding	Insulation Min. Ave. Wall (Mils)	Nominal Dimensions (Inches)
16	26/.0100"	45	.320 x .160
12	65/.0100"	45	.390 x .195
10	105/.0100"	45	.440 x .220
8	133/.0111"	60	.590 x .295



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.

2.5. 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)."

2.5.2. Marked with feet remaining to end of roll



- 2.6. **Testing:**
- 2.6.1. Physically and electrically to Underwriters Laboratories miscellaneous wire.
 - 2.6.2. Conductors must be able to be separated without showing copper and must still meet UL minimum wall requirements.
- 2.7. **Product Labels:**
- 2.7.1. Underwriters Laboratories miscellaneous wire labels.
 - 2.7.2. Certification by QC that separation test was performed on each reel.
- 2.8. **Packaging**
Provided on 500 ft. spools, shrink wrapped over wire to protect wire.
- 2.9. **Packaging Labels**
Labeled on outside of spool with No-Ox® label stickers provided by CAST Lighting
- 2.10. **#16/2 Wood Reel Specification (500' put-up)**
Inner Core: 6" diameter
Top and Bottom Disk: 12" diameter; 1/4" thickness
Height (inside dimension): 7"
- 2.11. **#12/2 Wood Reel Specification (500' put-up)**
Inner Core: 6" diameter
Top and Bottom Disk: 12" diameter; 1/2" thickness
Height (inside dimension): 9.5"
- 2.12. **#12/2 Steel Reel Specification (250' put-up)**
Inner Core: 6" diameter
Top and Bottom Disk: 12" diameter; 1/2" thickness
Height (inside dimension): 4.5"
- 2.13. **#10/2 Wood Reel Specification (500' put-up)**
Inner Core: 6" diameter
Top and Bottom Disk: 15.5" diameter; 5/8" thickness
Height (inside dimension): 7"
- 2.14. **#10/2 Wood Reel Specification (250' put-up)**
Inner Core: 6" diameter
Top and Bottom Disk: 12" diameter; 5/8" thickness
Height (inside dimension): 6"
- 2.15. **#8/2 Wood Reel Specification (500' put-up)**
Inner Core: 6" diameter
Top and Bottom Disk: 15.5" diameter; 5/8" thickness
Height (inside dimension): 9.5"

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