

# Regency Wire & Cable

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## Underground Low Energy Circuit Cable

### Description:

Regency's single conductor Low Energy Circuit Cable is manufactured for the purpose of direct burial power wire applications in accordance with the National Electric Code.

Conductor construction is soft drawn bare copper meeting the requirements of ASTM Specification B-3. Gauge sizes 18 and 16 are solid conductors.

The insulation is a high quality polyvinylchloride (PVC) for systems applications of up to 150 volts and conductor temperatures up to 60 C.

The UF Low Energy Circuit Cable is constructed in accordance with Underwriters Laboratories, Inc.

### Application:

Suitable for use as power and control wire for irrigation systems.

### Construction:

**Conductor:** Soft drawn bare copper (ASTM Spec. B-3).  
Solid (18 awg and 16 awg)  
**Insulation:** Polyvinylchloride (PVC)  
**Temperature:** 60 C  
**Voltage:** 30 volts

Conductor Size	Insulation Thickness
18 awg - 16 awg	.045

Material must be able to pass the following tests without showing signs of degradation:

Cold Bend – The insulation shall not show any cracks when sample is bent around a 3X mandrel after being subjected to –25 C for four (4) hours.

Electrical - AC test voltage, 60 seconds at 5000 volts.

Sunlight Resistance Test – Samples conditioned for 300 hours of carbon-arc or xenon-arc exposure.