

# PE SPRINKLER SYSTEMS WIRE



## DESCRIPTION:

Regency's single conductor PE Sprinkler Systems Wire 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 14,12 and 10 awg are solid conductors.

The insulation is a low density, high molecular weight polyethylene for systems applications of up to 600 volts meeting the requirements of ASTM Specification D-1248.

The PE Sprinkler Systems Wire 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 (14 awg - 10 awg)

**INSULATION:** Polyethylene (PE)

**TEMPERATURE:** 75° C

**VOLTAGE:** 600 Volts

Size (AWG)	Insulation Thickness
14-10	.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.

## MECHANICAL WATER

**ABSORPTION:** Insulation shall not absorb more than 25 mg. mass of water per square inch.

## SUNLIGHT

**RESISTANCE:** Samples conditioned for 300 hours of carbon-arc or xenon-arc exposure.

## TEMPERATURE

**RANGE:** -55 C - +60 C