

**UNDERGROUND  
COMMUNICATION CABLE  
SHEILDED AND ARMORED**



**SIZES: 18 AWG/2 PAIRS, WITH DRAIN WIRE**

**1.0 SCOPE:**

**1.1** This specification covers requirements for an underground shielded cable designed to transmit and receive signals between irrigation satellites, central computers, weather stations, and sensors. The cable utilizes stranded insulated conductors, aluminum shield and drain wire to minimize electrical, magnetic, and radio frequency interference. The cable also features stainless steel tape armor for protection against rodents and for shielding of lightning and power surges. The cable is listed by UL or ETL or CSA.

**2.0 CONSTRUCTION:**  
**2.1**

NO. OF PAIRS	NO. OF COND.	SIZE (AWG)	STRAND	INSULATION WALL (MILS)	JACKET		WEIGHT (LBS/MFT)
					WALL (MILS)	O.D. (IN.)	
2	4	18	7	15	45	.410	105

**2.2 Conductor:**  
Stranded soft annealed tin coated copper conforming to ICEA S-56-434.

**2.3 Insulation:**  
PVC

**2.4 Color Coding:**  
Pair 1 - Red, Black  
Pair 2 - Blue, Orange

**2.5 Cable Assembly:**  
Insulated conductors are twisted into a pair and then cabled together.

**2.6 Shield:**  
.00235" aluminum/mylar tape helically applied.

**2.7 Drain Wire:**  
A 20 AWG tinned copper drain wire is laid in under the shield in contact with the aluminum side.

**2.8 Barrier Tape:**  
Glass reinforced/mylar tape is applied over shield.

**2.9 Armor:**  
A .005" x .500" Type 304 stainless tape is helically wrapped around the core with a minimum of 25% overlap.

**2.10 Jacket :**  
Black Polyethylene, sunlight and moisture resistant.

**2.11 Roundness:**  
Cable to be round and smooth with no convolutions.

**2.12 Surface Printing:**  
PAIGE ELECTRIC P7171D-A LISTING AGENCY AND NUMBER 18 AWG 2PR SHIELDED/ARMORED 30V SPRINKLER SYSTEMS WIRE AND/OR UNDERGROUND LOW ENERGY CIRCUIT CABLE RoHS COUNTRY OF ORIGIN. SEQUENTIAL FOOTING EVERY 2'

NOTE: Compatible with Hunter Control Systems, Weather Stations, and sensor circuits.