

SPECIAL IRRIGATION  
CONTROL CABLE  
14/2 THRU 12/2 DIRECT BURIAL  
INSULATION: POLYVINYL CHLORIDE  
JACKET: IMPREGNATED  
POLYETHYLENE  
SIZES: 14-12 AWG, 2 CONDUCTOR



**1.0 SCOPE:**

**1.1** This specification covers construction requirements for a 2/C control cable design to operate valve decoders consisting of tin coated copper conductors, insulated with PVC and having a high density polyethylene direct burial jacket. Conductors are UL approved Type UF.

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

NO. OF COND.	SIZE (AWG)	STRAND	INS. WALL (MILS)	JACKET WALL (MILS)	O.D.	WEIGHT LBS/M
2	14	1	60	45	.280" x .470"	83
2	12	1	60	45	.300" x .505"	105

**2.2 Conductor:**  
Soft annealed tin coated copper conforming to ASTM B-33.

**2.3 Insulation:**  
Polyvinyl Chloride conforming to UL Standard 493 for TYPE UF rated 60°C.

**2.4 Cable Assembly:**  
Insulated conductors are laid parallel.

**2.5 Outer Jacket:**  
Pressure Extruded High Density PE conforming to ICEA S-61-402, and NEMA WC5 Jacket Thickness 3/64" minimum jacket material to completely fill interstices between the two insulated conductors.

**2.6 Color Coding:**  
Black, Red

**2.7 Jacket Color:**  
Color coding of jacket shall be of one solid color. Standard colors red, blue, green, yellow, black, white.

**2.8 Surface Print:**  
"Paige Electric P7072D Size 600V Sunlight Resistant Direct Burial For Maxi Control Systems"

**3.0 SPlicing RECOMMENDATIONS**

**3.1** Underground splices shall be made in accordance with National Electrical Code<sup>®</sup> Articles 300.5 (Underground Installations) and 110.14 (Electrical Connections) using 3M DBY-6 or DBR-6 connectors, which are UL listed under "UL 486D-Direct Burial", for wet or damp locations, 600 volts. Connectors that are not listed at all, or listed under UL Standard UL 486C as "Compression Connectors", shall not be allowed.