



**TORO JACKETED
DECODER CABLES DIRECT BURIAL
SIZES: 14 & 12 AWG, SOLID COPPER, 2-CONDUCTOR**

1.0 SCOPE:

1.1 This specification covers jacketed cables containing two listed Golf Course Sprinkler wires, single conductor, suitable for direct burial, for operation up to 600 volts, and temperatures up to 60°C.

2.0 CONSTRUCTION:

2.1 *Inner Conductors:*
Soft drawn bare copper meeting the requirements of ASTM specification B-3 or B-8. Insulation shall be low density high molecular weight polyethylene and a thickness of 0.045", per Paige Electric specification P7079D. The two conductors (black and white) shall be twisted with a minimum lay of 4".

2.2 An optional Mylar tape may be used over the conductors.

2.3 A rip cord shall be placed directly below the outer jacket.

2.4 *Overall jacket:*
High density polyethylene with a thickness of 0.035". Available with different color jackets as listed in the table below. The jacket shall be sufficiently round, and loose, to facilitate its removal when being stripped. Minimum inner diameters of the outer jacket:

| CONSTRUCTION | INCHES | mm |
|--------------|--------|-----|
| 14 AWG/2c | 0.358 | 9.1 |
| 12 AWG/2c | 0.386 | 9.8 |

A "T" drill bit, whose diameter is 0.358", shall be used to measure the minimum inner diameter of 14 AWG/2c cables.

A "W" drill bit, whose diameter is 0.386", shall be used to measure the minimum inner diameter of 12 AWG/2c cables.

2.5 *Surface Print:*

- 2.51 Inner Conductors – "Paige Electric P7079D 14 or 12 AWG PE Listing file Number 600V Sprinkler System Wire Direct Burial"
- 2.52 Outer Jacket – "Paige Electric, P7350D, 14 or 12 AWG PE 600V Sprinkler System Wire Direct Burial Only for Toro Decoder Systems RoHS"

3.0 TEMPERATURE RATING

3.1 -55°C to +60°C

4.0 PUT-UPS:

4.1 500' (164m), 1000' (328m), 2500' (762m) and some odd lengths.

5.0 SPLICING RECOMMENDATIONS:

Wire splices are the weak link of any electrical circuit. It is especially important to make proper joints in irrigation systems because the joints are exposed to wet and damp environments that can cause corrosion of the copper conductor, and premature failure. Paige Electric recommends the strict use of Model DBR/Y-6, as manufactured by the 3M Company (Paige specification P7364D) for 14 AWG 2 or 3 conductors. For 12 AWG and splices of 4 to 6 conductors, Paige Electric recommends its Re-enterable connectors (Paige Specification P7408D).

| PAIGE PART NO. | SIZE | JACKET COLOR | SHIPPING WEIGHT (Pounds/1000') |
|----------------|----------------|----------------|--------------------------------|
| 170800 | 14 AWG 2 COND. | Red | 65 |
| 170800BLK | | Black | |
| 170800YEL | | Yellow | |
| 170800GRN | | Green | |
| 170800BLU | | Blue | |
| 170800GRY | | Gray | |
| 170800OR | | Orange | |
| 170800PUR | | Purple | |
| 170800TN | | Tan | |
| 170804 | | 12 AWG 2 COND. | |
| 170804BLK | Black | | |
| 170804YEL | Yellow | | |
| 170804GRN | Green | | |