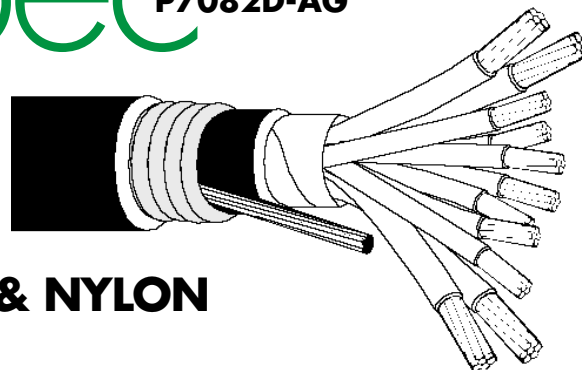


**BONDED SHIELD  
 IRRIGATION CABLE FOR  
 POWER & CONTROL CIRCUITS  
 INSULATION: POLYVINYL CHLORIDE & NYLON  
 OUTER JACKET: POLYETHYLENE  
 SIZES: 10 AWG 4/C, 14 AWG 7/C; 16 AWG DRAIN**



**1.0 SCOPE:**

**1.1** This specification covers construction requirements for a multi-conductor cable designed to operate electric motor driven irrigation systems, consisting of copper conductors insulated with PVC and nylon, cabled utilizing a PVC inner jacket, and an aluminum shield bonded to a PE outer jacket offering excellent mechanical strength and moisture resistance. Cable is U.L. listed as Irrigation Cable U.L. 1263, and made in accordance with Article 675 of the National Electrical Code.

**2.0 CONSTRUCTION:**

**2.1**

NO. OF COND.	SIZE (AWG)	STRANDS	INSULATION WALL
4	10	7 OR 19	.020" PVC/.004 NYLON
7	14	7 OR 19	.015" PVC/.004 NYLON

**2.2 Conductor:**

Stranded, soft annealed uncoated copper conforming to ASTM B-8.

**2.3 Insulation:**

Polyvinyl Chloride and Nylon conforming to U.L. Style THHN/THWN for 14 AWG or larger and TFN for 16 AWG and 18 AWG.

**2.4 Cable Assembly:**

Insulated conductors are cable together in a suitable lay with an optional but not required 1 mil mylar tape wrapped helically over the assembly, 10% minimum overlap.

**2.5 Inner Jacket:**

Polyvinyl chloride conforming to IPCEA S-61-402 and NEMA WC5 - minimum average wall thickness .030".

**2.6 Color Coding:**

10 AWG - Red, Black, Blue, Green/Yellow stripe.  
 14 AWG - Brown, White, Purple, Orange, Pink, Tan/Black Stripe, Yellow

Stripes must cover a minimum of 30% and maximum of 50% of the insulated conductor circumference and may be spirally or longitudinally applied.

**2.7 Shield:**

.008 corrugated or flat aluminum specially coated and applied in order to bond to the outer jacket, with inner side uncoated in order to make contact with drain wire.

**2.8 Shield Drain:**

16 AWG, 7 strand T/C drain wire inserted under shield for termination and grounding.

**2.9 Outer Jacket :**

Sunlight resistant Polyethelene conforming to IPCEA S-61-402, NEMA WC5 and U.L. 1263. Minimum Average .050" .

**2.10 O.D.:**

.760" ± .050".

**2.11 Surface Print:**

"Shielded Paige P7082D 10/4-14/7 Irrigation Cable 600 Volts NEC Art 675 E \_\_\_\_\_ (U.L.) DIR BUR."

Sequentially print footage every 2 ft.

**2.12 Lengths:**

5,000 foot put-ups (± 10%) are considered standard lengths. 3,000 feet to 5,500 feet acceptable.