



STANDARD SPAN CABLE
600 VAC SHIELDED CENTER PIVOT IRRIGATION SYSTEM
3-PHASE POWER & SINGLE PHASE CONTROL CABLE
INSULATION: POLYVINYL CHLORIDE & NYLON
OUTER JACKET: POLYETHYLENE
SIZES: 10 AWG 4/C, 14 AWG 7/C; 16 AWG DRAIN

1.0 APPLICATION:

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.

2.6 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.

2.0 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

2.7 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.

2.2 Conductor:

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

2.9 Outer Jacket :

Black Sunlight resistant Polyethylene conforming to IPCEA S-61-402, NEMA WC5 and UL 1263. Minimum Average .050"

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.

2.10 O.D.:

.760" ± .050".

2.4 Cable Assembly:

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

2.11 Surface Print:

Shielded Paige P7082D 10/4-14/7 Irrigation Cable 600 Volts NEC Art 675 E _____ (UL) DIR BUR RoHS. Sequentially print footage every 2 ft. Manufacturing Date (DD/MM/YYYY)

2.5 Inner Jacket:

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