

BONDED SHIELD IRRIGATION CABLE FOR POWER & CONTROL CIRCUITS

SPEC P7074D - AG

INSULATION: POLYVINYL CHLORIDE & NYLON
OUTER JACKET: POLYETHYLENE
SIZES: 4/C CABLE, 14 AWG 4/C



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 accordance with Article 675 of the National Electrical Code.

2.0 CONSTRUCTION

2.1

NO. OF COND.	SIZE (AWG)	STRANDS	INSULATION WALL
4	14	7	.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 ICEA S-61-402 and NEMA WC5- minimum average wall thickness .030".

2.6 COLOR CODING:

(1)Red, (2)Black, (3)Blue, (4)Green/Yellow stripe.

Yellow stripe 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 aluminum specially coated and applied in order to bond to the outer jacket.

2.8 OUTER JACKET:

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

2.9 O.D.:

.500" ± .010".

2.10 SURFACE PRINT:

Shielded Paige P7074D 14/4 Irrigation Cable 600 Volts NEC Art 675 E_____ (U.L.) DIR BUR.

2.11 PRINT:

Sequentially print footages every 2 ft.