

## CABLE-IN-CONDUIT DIRECT BURIAL CABLE

# SPEC

P7304D - AG



**CONDUCTOR:** ALUMINUM TYPE USE 600V  
**CONDUIT:** STANDARD WALL OR SCHEDULE 40 UL  
**SIZES:** 18 AWG TO 750 MCM



## 1.0 APPLICATION

**1.1** Cable-in-conduit is a tough, durable and reliable pre-assembled cable-in-conduit system that minimizes the chance of crop loss due to cable failures caused by gopher bites, salt damage or chemical deterioration and rough rocky soils. The size of the conduit and its smooth, continuous surface make cable-in-conduit virtually impenetrable to gopher attacks. There are no leaky couplings or splices to fail. And cable-in-conduit's durable polyethylene composition resists abrasion, moisture, acids, alkalis, salts, detergents and other chemicals. The electrical cables inside remain protected. Can be ordered with pump kill wire/or remote panel mount cables.

## 2.0 CONSTRUCTION

### 2.1 CONDUCTOR:

Aluminum Type USE 600V 8000 series aluminum alloy. Suitable for underground service entrance use for direct burial, at conductor temperatures not to exceed 90C. ASTM B-800 and 801, UL 854, NEC/NFPA 70,2011, NEMA WC-70 construction requirements, RoHS/Reach Compliant.

### 2.2 CONDUIT:

Black High-Density Polyethylene resin meeting the requirements for ASTM D 3350 CLASS PE 435540 or Schedule 40 UL manufactured to ASTM F 2160, UL 1990.

### 2.3 CONTROL WIRE:

Pump control and remote panel mount copper wire optional.

## 2.4 STANDARD WALL CONDUIT DIMENSIONAL SPECIFICATIONS

NOMINAL SIZE	AVERAGE O.D.	MIN. WALL	AVERAGE I.D.	WEIGHT	BEND RADIUS	PULLING TENSION
	Inches	Inches	Inches	lbs/1000 ft	Inches	
3/4"	1.050	0.060	0.910	90	12	395
1"	1.315	0.075	1.145	137	14	620
1-1/4"	1.660	0.100	1.440	223	18	1040
1-1/2"	1.900	0.115	1.650	290	21	1370
2"	2.375	0.145	2.065	450	26	2160
2-1/2"	2.875	0.203	2.449	742	32	3620
3"	3.500	0.216	3.048	969	39	4735
4"	4.500	0.237	3.998	1396	50	6745

## 2.5 SCHEDULE 40 CONDUIT DIMENSIONAL SPECIFICATIONS

NOMINAL SIZE	AVERAGE O.D.	MIN. WALL	AVERAGE I.D.	WEIGHT	BEND RADIUS	PULLING TENSION
	Inches	Inches	Inches	lbs/1000 ft	Inches	
3/4"	1.050	0.113	0.804	149	12	710
1"	1.315	0.133	1.029	219	14	1050
1-1/4"	1.660	0.140	1.360	297	18	1420
1-1/2"	1.900	0.145	1.590	354	21	1700
2"	2.375	0.154	2.047	475	26	2280
2-1/2"	2.875	0.203	2.445	749	32	3615
3"	3.500	0.216	3.042	981	39	4740
4"	4.500	0.237	3.998	1396	50	6745