P7168D
Armored Direct Burial Cable (Multi-conductor)

1.0 SCOPE

1.1 Description

1.1.1 This specification covers a single conductor direct burial cable utilizing listed (by UL or ETL) type UF/TWU wire, armored with stainless steel tape, and having a sunlight resistant outer jacket. The armor makes the cable rodent and lightning resistant, especially if the stainless steel tape is connected to earth ground.

1.2 Standards Compliance

1.2.1 UL Listed as Sprinkler Wire Systems Wire - UL 1551

2.0 CONSTRUCTION

2.1 Conductor

2.1.1 Material: Solid annealed copper conforming to ASTM B-3.

2.1.2 No. of Conductors: 2 or 3

2.2 Construction

2.2.1 Solid: 14AWG–10AWG

2.3 Insulation

2.3.1 Material: Black polyvinylchloride conforming to UL Style UF

2.4 Armor

2.4.1 Material: Stainless steel tape, type 304 (.005' x .500"), is helically wrapped over the UF wire with a 33% minimum overlap.

2.5 Binder

2.5.1 Material: An optional clear Mylar tape may be applied over the PVC conductor and under the stainless steel tape, with 100% overlap.

2.6 Electrical properties

2.6.1 Maximum Voltage: 600V

2.7 Temperature Rating

2.7.1 Installation: -55°C +60°C

2.7.2 Operation: -55°C +60°C

2.8 Outer Jacket

2.8.1 Sunlight resistant polyvinyl chloride conforming to ICEA S-61-402, NEMA WC5 and UL 1263. The nominal thickness is .030".

2.8.2 Markings: PAIGE P7167D XX AWG ARMORED (RODENT PROOF) E488609 (UL) TYPE SPRINKLER SYSTEMS WIRE 600 VOLTS DIR BUR "ROHS COMPLIANT" MADE IN USA

Splicing Recommendation: Wire splices/joints are the weak link of any electrical circuit. It is especially important to make proper joints in irrigation systems because they are exposed to wet and damp locations that 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 Electric part number 270674 and specification P7364D.)

3.0 CONFIGURATIONS

Description	Put Up	Insulation Walls	O.D.	Weight	Item No.	
14AWG Armored	2500ft	.060"	.258"	49lbs/ 1000ft	Red	160242
					White	160244
					Black	160243
					Blue	160245
12AWG Armored	2500ft	.060"	.275"	58lbs/ 1000ft	Red	160430
					White	160440
					Black	160450
10AWG Armored	2500ft	.060"	.296"	94lbs/ 1000ft	Red	160557
					White	160558

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