

**DATE: 03-28-06**

## PRODUCT SPECIFICATION 13943 A

**TYPE:** Ethylene Propylene Rubber Insulated  
Chlorinated Polyethylene Rubber Jacketed  
UL AWM Style 4419, 90°C, 600 Volts  
CSA AWM I/II A/B, 600 V. - FT2  
Special Composite Cable

**SIZE:** 14 AWG – 2 Conductors, and 18 AWG – 12 Conductors

### **I. SCOPE:**

This specification describes a UL AWM Style 4419 Flexible Cord rated for use at temperatures up to 90°C in dry locations and at voltages up to 600 Volts.

The construction consists of flexible stranded, un-coated copper conductors insulated with color-coded Ethylene Propylene Rubber (EPR). The insulated conductors are cabled round, wrapped and jacketed overall with thermosetting Chlorinated Polyethylene (CPE) rubber.

### **II. CONSTRUCTION:**

- A. **CONDUCTORS:** Flexible, bunch stranded, bare annealed copper conforming to UL requirements.
- B. **SEPARATOR:** None.
- C. **INSULATION:** Thermosetting Ethylene Propylene Rubber (EPR) conforming to UL Standard 62, Class 2.23A, Table 15.2 and CSA C22.2 No. 210.2.

**PS-13943 A**  
**DATE: 03-28-06**

D. **COLOR CODE:** The insulation shall be colored as follows:

#14 AWG CDRS.		#18 AWG CDRS.	
COND. NO.	INSUL. COLOR	COND. NO.	INSUL. COLOR / STRIPE
1	Purple	1	Green
2	Black	2	Red
		3	Red/Yellow
		4	Black/Yellow
		5	Tan
		6	Tan/Yellow
		7	Orange/Yellow
		8	Blue/Yellow
		9	Blue
		10	Yellow
		11	Brown
		12	Orange

- E. **CABLE ASSEMBLY:** The 2-#14 AWG, and the 12-#18 AWG insulated conductors are cabled together without fillers, and with a suitable lay. A thin paper tape is applied over the cabled assembly with a positive overlap.
- F. **JACKET:** Black, 90°C rated thermosetting heavy-duty Chlorinated Polyethylene (CPE) rubber conforming to the requirements of UL 62 for Class 1.10, Table 27.2. This material provides excellent resistance to abrasion, sunlight, oil, chemicals, and chlorinated water.
- G. **MARKING:** The jacket surface is printed with white ink in accordance with UL requirements as follows:  
  
 “Miller Electric Mfg. Co. P/N 185574 RU AWM Style 4419 90°C 600V. E18424 --- LL8825 CSA AWM I/II A/B 90°C 600V. FT2”
- H. **TEST:** Physical and electrical tests as required by UL for AWM Style 4419 and CSA for AWM wire.

**PS-13943 A**  
**DATE: 03-28-06**

**III. DETAILS OF CONSTRUCTION:**

SIZE (AWG)	NO. OF CONDS.	STRANDING	INSUL. MIN. AVG. WALL (MILS)	JACKET	
				MIN. AVG. WALL (MILS)	OUTSIDE DIAM. (INCHES)
14	2	41 X .0100"	45	95	.760 ± .015
18	12	16 X .0100"	30		