

DATE: 03-11-04

PRODUCT SPECIFICATION 13593B

TYPE: EPR Insulated
Thermoset CPE Jacketed Cable
300 volts, 90°C dry, 60°C wet
UL and CSA listed Type SJOOW, FT-1
Special Color Code

SIZE: 18 AWG - 5 Conductor

I. SCOPE:

This specification describes a type SJOOW multi-conductor; 300 volt rated flexible cord for use at conductor temperatures up to 90°C in dry locations or 60°C in wet locations.

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

II. CONSTRUCTION:

SIZE (AWG)	NO. OF CONDUCTORS	CONDUCTOR		JACKET	
		STRANDING	NOM. O.D. (INCHES)	MIN. AVG. WALL (MILS)	APPROX. DIAM. (INCHES)
18	5	16X.0100"	.048	30	.370

A. CONDUCTORS:

Bunch stranded, un-coated annealed (soft) copper conforming to UL standard 62 and CSA Standard C22.2 No. 49.

B. SEPARATOR:

A thin paper tape shall be applied over the conductor to facilitate stripping.

- C. **PRIMARY INSULATION:**
Fully color-coded Ethylene Propylene Rubber (EPR) conforming to UL Class 2.23A, Table 15.2 per UL Standard 62 and Grade 5A per CSA Standard C22.2 No. 49.
The minimum average wall thickness is 30 mils as required by U.L.
- D. **COLOR CODE:**
The insulation shall be colored as follows:

Purple, gray, orange, yellow, and green (with yellow stripe)
- E. **CABLE ASSEMBLY:**
The five insulated conductors are cabled together with paper fillers, as necessary to form a round cross-section, and with a 2-3/4" nominal left hand lay.
- F. **SEPARATOR:**
A paper tape shall be wrapped around the twisted assembly to achieve full coverage.
- G. **OVERALL JACKET:**
Black thermosetting Chlorinated Polyethylene (CPE) Rubber conforming to UL Class 1.10, Table 27.2 per UL Standard 62 and CSA C22.2 No. 49.
- H. **PRINT LEGEND:**
The outer surface of the insulation shall be printed with the following information using white ink:

"P-7K-136119-MSHA 18 AWG 5/C SJOOW 90°C 300 V. water resistant (UL) ---
A.I.W. Corp. --- CSA FT1"
- I. **TESTING:**
Physical and electrical tests per UL Standard 62 and CSA Standard C22.2 No. 49 as applicable .