



Product Specification

Specification No. 8573 B

JANUARY 22, 1999

TYPE: 5000 VOLT POWER CABLE
CROSSLINKED POLYETHYLENE INSULATED
SINGLE CONDUCTOR, UNSHIELDED
UL TYPE MV-90

I. SCOPE:

THIS SPECIFICATION COVERS THE CONSTRUCTION REQUIREMENTS FOR SINGLE CONDUCTOR, CROSSLINKED POLYETHYLENE INSULATED NON-SHIELDED POWER CABLES. THE MAXIMUM OPERATING VOLTAGE IS 5000 VOLTS AT CONDUCTOR TEMPERATURES UP TO 90°C, IN DRY LOCATIONS.

THESE CABLES ARE LISTED BY UNDERWRITERS' LABORATORIES AS TYPE MV-90 DRY (UL 1072).

II. CONSTRUCTION DATA:

A. CONDUCTOR: THE CONDUCTOR SHALL CONSIST OF SOLID OR STRANDED ANNEALED, UNCOATED COPPER CONFORMING TO ASTM B-3. THE STRANDING SHALL BE "CLASS B" CONFORMING TO ASTM B-8. A SEMI-CONDUCTING TAPE SHALL BE WRAPPED OVER THE CONDUCTOR WITH 10% (MIN.) OVERLAP.

NOTE: OTHER STRANDINGS AND/OR COATED COPPER ARE AVAILABLE WHEN SPECIFICALLY REQUESTED.

B. INSULATION: A BLACK CROSSLINKED POLYETHYLENE (XLPE) COMPOUND SHALL BE EXTRUDED OVER THE TAPED CONDUCTOR. THE PHYSICAL AND ELECTRICAL PROPERTIES SHALL CONFORM TO THE REQUIREMENTS OF UL 1072.

C. CABLE MARKING: THE SURFACE OF THE INSULATION SHALL BE PRINTED USING WHITE INK WITH INFORMATION CONFORMING TO UL 1072 REQUIREMENTS.

PS-8573 B

III. TECHNICAL DATA:

TABLE I			
SIZE AWG OR MCM	NO. OF STRANDS	INS. WALL (MILS)	OVERALL DIA. (INCHES)
8	1	110	.385
8 *	7	110	.390
6 *	7	110	.430
4 *	7	110	.475
2	7	110	.535
1	19	110	.570
1/0	19	110	.610
2/0	19	110	.660
3/0	19	110	.710
4/0	19	110	.770
250	37	120	.840
300	37	120	.900
350	37	120	.950
500	37	120	1.080
750	61	130	1.280
1000	61	130	1.440

* MEETS THE REQUIREMENTS OF FAA ADVISORY CIRCULAR AC 150/5345-7D,
TYPE C.