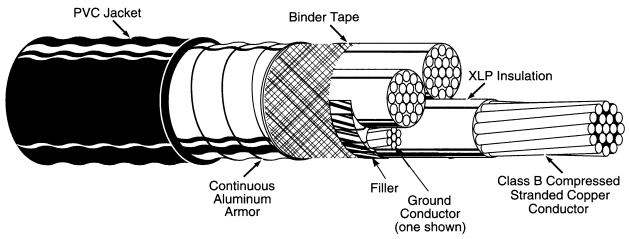
DESCRIPTION:

- 3 - 4 copper conductors
- XLP insulation
- Copper ground wire
- **CONTINUOUS CORRUGATED ALUMINUM ARMOR**
- PVC jacket



PWC Catalog#	Size AWG or kcmil	Conductor Diameter inch	Insulation Thickness inch	Approx. Core Diameter inch	Grounds No. x AWG	Armored Diameter inch	Jacket Thickness inch	Approx. Overall Diameter inch	Approx. Net Weight lbs./Mft.	Allowable Ampacity 90°C
THREE CONDUCTOR										
07-0135	14	0.071	0.030	0.303	3 x 18	0.52	0.060	0.64	197	25
07-0136	12	0.089	0.030	0.343	3 x 16	0.56	0.060	0.68	242	30
07-0137	10	0.112	0.030	0.393	3 x 14	0.60	0.060	0.72	308	40
07-0138	8	0.141	0.045	0.527	3 x 14	0.78	0.060	0.90	437	55
07-0139	6	0.178	0.045	0.607	3 x 12	0.87	0.060	0.99	585	75
07-0140	4	0.225	0.045	0.718	3 x 12	0.91	0.060	1.03	747	95
07-0141	2	0.283	0.045	0.940	3 x 10	1.30	0.060	1.42	1377	130
07-0142	1	0.193	0.055	0.971	3 x 10	1.30	0.060	1.42	1330	150
07-0143	1/0	0.362	0.055	1.057	3 x 10	1.35	0.060	1.47	1566	170
07-0144	2/0	0.406	0.055	1.153	3 x 8	1.47	0.060	1.59	1930	195
07-0145	4/0	0.512	0.055	1.382	3 x 8	1.67	0.070	1.81	2782	260
07-0146	250	0.558	0.065	1.525	3 x 8	1.87	0.070	2.01	3269	290
07-0147	350	0.660	0.065	1.746	3 x 6	2.04	0.070	2.18	4376	350
07-0148	500	0.789	0.065	2.024	3 x 6	2.43	0.085	2.60	6041	430
07-0149	750	0.968	0.080	2.475	3 x 5	2.93	0.085	3.10	8906	535
FOUR CONDUCTOR										
07-0150	14	0.071	0.030	0.336	3 x 18	0.56	0.060	0.68	225	20
07-0151	12	0.089	0.030	0.380	3 x 16	0.60	0.060	0.72	279	24
07-0152	10	0.112	0.030	0.436	3 x 14	0.64	0.060	0.76	358	32
07-0153	8	0.141	0.045	0.587	1 x 10	0.83	0.060	0.95	507	44
07-0154	6	0.178	0.045	0.676	1 x 8	0.91	0.060	1.03	683	60
07-0155	4	0.225	0.045	0.799	1 x 8	1.05	0.060	1.17	919	76
07-0156	2	0.283	0.045	0.940	1 x 6	1.30	0.060	1.42	1356	104
07-0157	1	0.193	0.055	1.082	1 x 6	1.43	0.060	1.55	1642	120
07-0158	1/0	0.362	0.055	1.178	1 x 6	1.47	0.060	1.59	1950	136
07-0159	2/0	0.406	0.055	1.285	1 x 4	1.59	0.070	1.73	2420	156
07-0160	4/0	0.512	0.055	1.540	1 x 4	1.87	0.070	2.01	3548	208
07-0161	250	0.558	0.065	1.700	1 x 4	2.04	0.070	2.18	4116	232
07-0162	350	0.660	0.065	1.947	1 x 3	2.29	0.085	2.46	5633	280
07-0163	500	0.789	0.065	2.258	1 x 2	2.67	0.085	2.84	7891	344
07-0164	750	0.968	0.080	2.762	1 x 1	3.22	0.095	3.41	11530	428

Ampacities shown are for the general use as specified by the NEC, 1999 Edition, Section 310-15, Table 310-16 90°C.
Ampacities for more than three current-carrying conductors are adjusted as required by Note 8 from Notes to Ampacity Tables of 0 to 2000 volts.

600V CABLE CONSTRUCTION	
Conductor	The conductor will be Class B compressed concentric stranded bare copper in accordance with ASTM B3 and B8 and ICEA Part 2.
Standards	The following standards will form part of this specification - ASTM B-8, ICEA S-66-524/NEMA WC7, UL 44, UL 1569, UL 2225, IEEE 1202, and ICEA T-29-520.
Insulation	The insulation will be XLP meeting the requirements of the referenced standards. The insulation thickness will be listed in ICEA Table 3.1, and the minimum spot thickness will not be less than 90% of the listed amounts. Individual conductors will be color coded per ICEA S-58-679, using Method 3, Table 2 for sizes AWG 4 and larger, and using Method 1, Table 2 for sizes AWG 6 and smaller.
Assembly	The insulated conductors will be cabled round with three symmetrically placed ground wires, fillers and covered with a binder tape.
Armor	Continuous corrugated aluminum sheath shall be applied over the assembly. The continuous sheath will be impervious to moisture, liquids, & gasses.
Jacket	The cable will be covered with a black PVC jacket conforming to the requirements specified for polyvinyl chloride in ICEA. The average thickness will be in accordance with ICEA, and the minimum spot thickness will not be less than 80% of the average thickness. The jacket will be sunlight and oil resistant and will meet the requirements of the IEEE 1202 (70,000 Btu/hr) and ICEA T-29-520 (210,000 Btu/hr) vertical cable tray flame tests. The jacket will be suitable for use at a minimum ambient temperature of -40°C.
Identification	Manufacturer's identification will be printed on the jacket.
Tests	Physical and electrical tests will be conducted in accordance with the requirements of the referenced standards.

APPLICATIONS:

- Aerial Installations
- Direct Burial
- Concrete-encased Installations
- Open Trays
- Troughs or continuous rigid cable supports

Type MC-HL power cable provides an impervious sheath recommended as an economical alternative to traditional conduit systems. It is approved for Classes I, II and III, Division 1 or 2, hazardous locations covered under NEC Articles 501, 502 and 503. The cable is designed with three symmetrically placed grounds to reduce problems associated with pulse-width modulated ac drives. These cables are capable of operating continuously in wet or dry locations at a maximum conductor temperature of 90°C for normal operation, 130°C for emergency overload conditions, and 250°C for short circuit conditions.

SCOPE:

This specification covers three or four conductor XLP (cross-linked polyethylene) insulated, continuous corrugated aluminum armored, thermoplastic jacketed, 600 volt cable with grounding conductor for use in aerial installations, metal racks, open trays, troughs or continuous rigid cable supports. The cable will be listed Type MC-HL for Classes I, II and III, Division 1 and 2, hazardous locations and have three symmetrically placed grounds to reduce problems associated with pulse-width modulated ac drives. This cable is capable of operation continuously at a conductor temperature of 90°C in wet or dry locations.

SPECIFICATIONS:

Manufactured and tested in accordance with the latest revisions of ICEA S-66-524/NEMA WC7, ICEA S-58-679, UL44, UL 1569 Type MC and UL 2225 Type MC-HL. Passes IEEE 1202 (70,000 Btu/hr) and ICEA T-29-520 (210,000 Btr/hr) vertical cable tray flame tests.