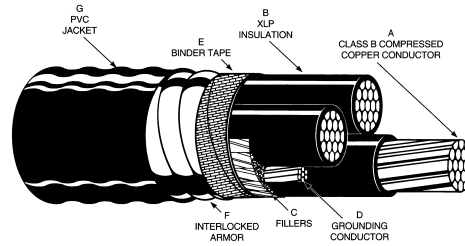


# ARMORED POWER CABLE

# Interlocked 600V

### DESCRIPTION:

- 3 copper conductors
- XLP insulation
- Copper ground wire
- Aluminum armor
- PVC Jacket
- Available in galvanized steel



PWC Catalog#	Size	Conductor Diameter	Insulation Thickness	Insulation Diameter	Grd.* Cond. Size	Armored Diameter	Jacket Thickness	Approx. O.D.	Approx. Net Weight	Allowable Ampacity+
	AWG or kcmil									
07-0100	8	0.142	0.045	0.237	10	0.745	0.050	0.850	432	59
07-0101	6	0.179	0.045	0.274	8	0.825	0.050	0.930	582	79
07-0102	4	0.225	0.045	0.320	8	0.924	0.050	1.029	773	104
07-0103	2	0.283	0.045	0.378	6	1.049	0.050	1.155	1105	138
07-0104	1	0.322	0.055	0.438	6	1.178	0.050	1.284	1344	161
07-0105	1/0	0.362	0.055	0.478	6	1.264	0.050	1.370	1585	186
07-0106	2/0	0.406	0.055	0.522	6	1.359	0.050	1.465	1901	215
07-0107	3/0	0.456	0.055	0.572	4	1.467	0.050	1.573	2378	249
07-0108	4/0	0.512	0.055	0.628	4	1.587	0.060	1.715	2891	287
07-0109	250	0.558	0.065	0.697	4	1.756	0.060	1.884	3414	320
07-0110	350	0.661	0.065	0.800	3	1.978	0.060	2.106	4486	394
07-0111	500	0.789	0.065	0.928	2	2.254	0.075	2.416	6239	487
07-0112	750	0.968	0.080	1.138	1	2.706	0.075	2.888	8992	615

\* Three uncoated stranded ground conductors may be provided upon request.  
 + Ampacities are based on Table B-310-3 of the NEC, 1999 Edition. Ampacities are for multiconductor cables in free air, 90°C conductor, 40°C ambient temperature, for use as specified in section 310-15(b) and for use in cable trays as specified in section 318-11.  
 Note: all sizes available as four power conductor construction with two ground wires.

## 600V CABLE CONSTRUCTION

<b>Conductor</b>	The conductor will be Class B compressed concentric stranded bare copper in accordance with ASTM B3 and B8 and ICEA Part 2.
<b>Standards</b>	The following standards will form part of this specification - ICEA S-66-524/NEMA WC7, UL 44, UL 1569 Type MC.
<b>Insulation</b>	The insulation will be XLP meeting the requirements of the referenced standards. The insulation thickness will be as listed in ICEA Table 3.1, and the minimum spot thickness will not be less than 90% of the listed amounts. The method of phase identification will be similar to ICEA Method 3 using printed circuit numbers and colors (1-BLACK, 2-RED, 3-BLUE). UL Listed XHHW-2 conductors are used.
<b>Construction</b>	This 600 volt power cable is rated 90°C wet or dry and is flame and sunlight resistant. Features include a heavy duty construction, proven XLP insulation and a Type MC rating. For use in cable trays per NEC Article 318. Non-halogen jacket available upon request.
<b>Grounding Conductor</b>	The grounding conductor will be Class B compressed concentric stranded bare copper in accordance with ASTM B3 and B8.
<b>Assembly</b>	The insulated conductors will be cabled round with fillers and with a grounding conductor in one outer interstice and covered with a binder tape.
<b>Armor</b>	A single strip of interlocked aluminum tape will be applied over the assembly.
<b>Jacket</b>	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 be not less than 80% of the average thickness. The jacket will be sunlight resistant and will meet the requirements of the IEEE 1202 (70,000 Btu/hr) vertical tray flame test and ICEA T-29-520 (210,000 Btu/hr) ribbon burner flame test. Optional non-halogen jacket available.
<b>Identification</b>	Manufacturer's identification will be printed on the jacket.
<b>Tests</b>	Physical and electrical tests will be conducted in accordance with the requirements of the referenced standards.

### APPLICATIONS:

- Aerial installations
- Direct burial
- Metal racks
- Open trays
- Troughs or continuous rigid cable supports

These cables are listed by Underwriters Laboratories as Type MC and are capable of operating continuously at a maximum conductor temperature of 90°C in wet or dry locations.

### SCOPE:

This specification covers three conductor XLP (cross-linked polyethylene) insulated, interlocked armored, thermoplastic jacketed 600 volt cable with grounding conductor for use in aerial installations, metal racks, open trays, troughs, or continuous rigid cable supports. This cable is capable of operating 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, UL 1569 Type MC. Passes IEEE 1202 (70,000 Btu/hr) and ICEA T-29-520 (210,000 Btu/hr) vertical cable tray flame tests.



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