(3C) INTERLOCKED ARMOR POWER CABLE, 600 VOLTS
Three Conductor, XLP Insulated, Aluminum or Steel Armor
Type MC

APPLICATION:
As 600 volt Type MC cable rated 90°C in wet or dry locations; for installation aerially or in metal rack, tray, trough, cable trays, or direct buried; for power and control circuits not exceeding 600 volts in manufacturing and processing plants, substations and generating stations. May be used in NEC Class I and II, Division 2 and Class III, Division 1 and 2 hazardous locations.

STANDARDS:
1. Listed by UL as Type MC cable per Standard 1569.
2. Individual conductors UL listed as Type XHHW-2 (90°C wet or dry) per UL Standard 44.
3. Overall jacket UL listed as Sunlight Resistant.
4. Cables pass UL and IEEE-383 ribbon burner tests and are UL listed For CT Use.
5. Cables comply with IEEE-1202 flame test (12 AWG and larger).
6. Cables pass ICEA 210,000 BTU/hr. ribbon burner flame test.
7. Cables UL listed for Direct Burial.

CONSTRUCTION: Three conductors of stranded copper, XLP (crosslinked polyethylene) insulation, surface print phase identification. Three conductors twisted together with one uncoated copper grounding conductor, suitable fillers, binder tape, aluminum or galvanized steel interlocked armor, black sunlight resistant PVC jacket overall.

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*AMPACITY in accordance with the NEC for cables installed in uncovered cable tray without maintained spacing at the conductor temperature indicated in wet or dry locations, 30 C ambient temperature
Specification

INTERLOCKED ARMOR POWER CABLE, 600 VOLTS
Three Conductor, XLP Insulated, Aluminum or Steel Armor
Type MC

1. SCOPE
1.1 This specification describes four conductor XLP (thermosetting crosslinked polyethylene) insulated, aluminum or galvanized steel interlocked armor Type MC power cable for use in circuits not exceeding 600 volts phase-to-phase at conductor temperatures of 90°C in wet or dry locations for normal operation, 130°C for emergency overload conditions and 250°C for short circuit conditions. Cables are intended for installation indoors or outdoors, aerially, in metal rack, trough or cable trays, or for direct burial.

2. STANDARDS
2.1 The following standards shall form a part of this specification to the extent specified herein:
   2.1.1 UL Standard 1569 for Type MC cable.
   2.1.2 UL Standard 44 for Type XHHW-2 conductors.

3. CONDUCTORS
3.1 Class B stranded annealed uncoated copper per Part 2 of ICEA.

4. SEPARATOR
4.1 A suitable separator over the conductor may be used at the option of the manufacturer.

5. INSULATION
5.1 A homogeneous wall of XLP insulation shall be extruded over the conductor. The average thickness of insulation shall be as specified in UL Standard 44 for Type XHHW-2 conductors and in Table 3-4, Column B of ICEA. Minimum thickness at any point shall be not less than 90% of the specified thickness. Physical and electrical properties shall be in accordance with Table 3-7, Type X-2 of ICEA and Type XHHW-2 requirements of UL Standard 44.

6. PHASE IDENTIFICATION
6.1 The insulated phase conductors shall be printed with the numerals “1”, “2” and “3” on the surface of the insulation.

7. ASSEMBLY
7.1 Three phase conductors shall be cabled together with a Class B stranded, uncoated copper grounding conductor in valley, and suitable nonhygroscopic fillers to make round. Length of lay shall not exceed 40 times the phase conductor diameter. Total circular mil area of the two grounding conductors shall be not less than the circular mil area of the grounding conductor listed in UL Standard 1569.

8. CABLE TAPE
8.1 The cable assembly shall be covered with a suitable tape applied with a 10% minimum lap.

9. ARMOR
9.1 An aluminum or galvanized steel interlocked armor shall be applied over the cable core. Armor shall be in accordance with UL Standard 1569 and Paragraph 4.3.3 of ICEA.

10. COVERING
10.1 Shall be PVC meeting the requirements of ICEA Table 4-1 and the Sunlight Resistant requirements of UL 1569. Average jacket thickness shall be in accordance with UL 1569. Minimum thickness at any point shall be not less than 70% of the specified average thickness.

11. IDENTIFICATION
11.1 An ink print legend shall be applied to the surface of the PVC covering providing cable and manufacturer identification.

12. TESTS
12.1 Cable shall be tested in accordance with UL requirements for Type Me cable and ICEA S-95-658.
12.2 Cables shall be capable of passing the ribbon burner cable tray flame test requirements of UL and shall be UL listed “For CT Use.” Cables shall also be capable of complying with the IEEE-1202 flame test (12 AWG and larger).