



**ALUMINUM MC CABLE SIZES 6 - 250MCM  
ALUMINUM CONDUCTORS, 600VOLTS , 90DEGREES C  
ALUMINUM INTERLOCKED ARMOR OVERALL**

**CONSTRUCTION:**

**CONDUCTOR** COMPACT STRANDED 8000 SERIES ALUMINUM.

**INSULATION** CROSSLINKED POLYETHYLENE (XLP) TYPE XHHW-2 OR PVC/NYLON TYPE THHN/THWN-2. RATED 90DEGREES C WET OR DRY.

**CONDUCTOR IDENTIFICATION** STANDARD 120/208Y COLOR CODE SEQUENCE IS 1) BLACK, 2) WHITE, 3) RED, AND 4) BLUE. CONDUCTOR CODING MAY BE SOLID COLORS OR BLACK WITH APPROPRIATE COLORED STRIPES. MAY ALSO BE BLACK AND NUMBERED.

**ASSEMBLY** CONDUCTORS CABLED TOGETHER WITH STRANDED ALUMINUM GROUND WIRE IN ONE OF THE INTERSTICES AND CABLE TAPE.

**ARMOR** ALUMINUM INTERLOCKED ARMOR APPLIED OVER CABLE ASSEMBLY.

| Charlotte Wire Part# | Number of Conductors | Ground Wire Size (AWG) | Diameter Over Armor (in.) | Approx. Net Wt. (Lbs/Mft) | 3/c Ampacity 75Deg C * (amps) | 3/c Ampacity 90Deg C * (amps) |     |
|----------------------|----------------------|------------------------|---------------------------|---------------------------|-------------------------------|-------------------------------|-----|
| CW01575              | 6                    | 3                      | 1 - #6                    | .84"                      | 238                           | 50                            | 55  |
| CW01576              | 6                    | 4                      | 1 - #6                    | .93"                      | 285                           | 50                            | 55  |
| CW01577              | 4                    | 3                      | 1 - #6                    | .92"                      | 293                           | 65                            | 75  |
| CW01578              | 4                    | 4                      | 1 - #6                    | 1.05"                     | 368                           | 65                            | 75  |
| CW01579              | 2                    | 3                      | 1 - #6                    | 1.02"                     | 400                           | 90                            | 100 |
| CW01580              | 2                    | 4                      | 1 - #6                    | 1.15"                     | 505                           | 90                            | 100 |
| CW01581              | 1                    | 3                      | 1 - #4                    | 1.12"                     | 495                           | 100                           | 115 |
| CW01582              | 1                    | 4                      | 1 - #4                    | 1.25"                     | 624                           | 100                           | 115 |
| CW01583              | 1/0                  | 3                      | 1 - #4                    | 1.22"                     | 580                           | 120                           | 135 |
| CW01584              | 1/0                  | 4                      | 1 - #4                    | 1.35"                     | 720                           | 120                           | 135 |
| CW01585              | 2/0                  | 3                      | 1 - #4                    | 1.28"                     | 680                           | 135                           | 150 |
| CW01586              | 2/0                  | 4                      | 1 - #4                    | 1.44"                     | 865                           | 135                           | 150 |
| CW01587              | 3/0                  | 3                      | 1 - #4                    | 1.37"                     | 815                           | 155                           | 175 |
| CW01588              | 3/0                  | 4                      | 1 - #4                    | 1.60"                     | 1100                          | 155                           | 175 |
| CW01589              | 4/0                  | 3                      | 1 - #2                    | 1.58"                     | 1070                          | 180                           | 205 |
| CW01590              | 4/0                  | 4                      | 1 - #2                    | 1.73"                     | 1350                          | 180                           | 205 |
| CW01591              | 250MCM               | 3                      | 1 - #2                    | 1.70"                     | 1248                          | 205                           | 230 |
| CW01592              | 250MCM               | 4                      | 1 - #1                    | 1.90"                     | 1390                          | 205                           | 230 |

\*Ampacities based on 2014 NEC Table 310.15(B)(16) with no more than three current-carrying conductors and 30Deg C ambient temperature. The 4/c ampacities are to be reduced by 20% (Ampacity x 0.80) when all 4 conductors are current carrying (per NEC Table 310.15(B)(3)(a)).

**APPLICATION:** Suitable for branch, service, and feeder circuits in commercial, industrial, and utility applications. May be used in environmental air spaces per NEC 300.22, in assembly occupancies per NEC 518.4, in theaters per NEC 520.5, in approved raceways and cable trays per NEC 392, under raised floors for IT equipment per NEC 645, and in hazardous locations per NEC 501 Class I Div II, NEC 502 Class II Div II, and NEC 503 Class III Div 1.

**STANDARDS:**

UL Standard 1569 for Type MC cables.  
UL Standard 44 for Type XHHW-2 conductors.  
UL Standard 83 for THHN/THWN-2 conductors.  
NEC Article 330 for Type MC cables.  
ICEA S-95-658/NEMA WC70: Nonshld 0-2kv cables.