

Armorlite® Type MC



14 AWG through 2 AWG THHN/THWN Insulated Singles. Green Insulated Ground. UL Listed. 600 Volts. Rated VW-1. Lightweight Aluminum Interlocked Armor.

APPLICATIONS

Southwire Armorlite® Type MC Cable is suitable for use as follows:

- Branch, feeder and service power distribution in commercial, industrial, institutional, and multi-residential buildings.
- Fished or embedded in plaster.
- Concealed or exposed installations.
- Environmental air-handling spaces per NEC 300.22 (C).
- Places of Assembly per NEC 518.4 and theaters per NEC 520.5.
- Installation in cable tray and approved raceways.
- Under raised floors for information technology equipment conductors and cables per NEC 645.5(D) & 645.5(D)(2).
- Class I Div. 2, Class II Div. 2, & Class III Div. 1 Hazardous Locations.

STANDARDS & REFERENCES

Southwire Armorlite® Type MC Cable meets or exceeds the requirements of the following:

- UL 83
- UL 1569
- UL 1685
- UL Online Product Guide Info - Metal-Clad Cable (PJAZ) (www.ul.com)
- Federal Specification A-A59544 (formerly J-C-30B)
- FT4/IEEE 1202 (70,000 Btu/hr) Vertical Cable Tray Flame Test
- NFPA 70 (National Electrical Code), Article 330
- Listed for use in UL 1, 2 and 3 Hour Through Penetration Firestop Systems
- REACH/RoHS-2 (Chemical Limit) Compliant

CONSTRUCTION

Southwire Armorlite® Type MC Cable is constructed with soft-drawn copper, Type THHN/THWN conductors rated 90°C dry available in sizes 14 AWG through 2 AWG, and a green insulated grounding conductor. The conductors are cabled together and a binder tape bearing the print legend is wrapped around the assembly. Aluminum interlocking armor is applied over the assembly.



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One Southwire Drive, Carrollton, GA 30119, USA

| CONDUCTOR SIZE AND COLORS | GROUNDING SIZE AND COLOR | STOCK NUMBER | | WEIGHT (LBS/1000') | OVERALL DIAMETER (INCHES) |
|---|--------------------------|--------------|--------------|--------------------|---------------------------|
| | | COIL (250') | REEL (1000') | | |
| SOLID CONDUCTOR COLORS 120/208V | | | | | |
| 14-2 SOLID (BLACK/WHITE) | 14 SOLID (GREEN) | 68-57-92-01 | 68-57-92-02 | 77 | .439 |
| 14-3 SOLID (BLACK/WHITE/RED) | 14 SOLID (GREEN) | 68-58-26-01 | 68-58-26-02 | 94 | .464 |
| 14-4 SOLID (BLACK/WHITE/RED/BLUE) | 14 SOLID (GREEN) | 68-71-86-01 | 68-71-86-02 | 112 | .494 |
| 12-2 SOLID (BLACK/WHITE) | 12 SOLID (GREEN) | 68-58-00-01 | 68-58-00-02 | 105 | .475 |
| 12-2 SOLID (RED/WHITE) | 12 SOLID (GREEN) | 68-95-21-01 | 68-95-21-02 | 105 | .475 |
| 12-2 SOLID (BLUE/WHITE) | 12 SOLID (GREEN) | 68-94-89-01 | 68-94-89-02 | 105 | .475 |
| 12-3 SOLID (BLACK/WHITE/RED) | 12 SOLID (GREEN) | 68-58-34-01 | 68-58-34-02 | 129 | .505 |
| 12-3 SOLID (BLACK/WHITE/BLUE) | 12 SOLID (GREEN) | 61-09-73-01 | 61-09-73-02 | 129 | .505 |
| 12-3 SOLID (RED/WHITE/BLUE) | 12 SOLID (GREEN) | 61-09-71-01 | 61-09-71-02 | 129 | .505 |
| 12-4 SOLID (BLACK/WHITE/RED/BLUE) | 12 SOLID (GREEN) | 68-71-94-01 | 68-71-94-03 | 155 | .539 |
| 10-2 SOLID (BLACK/WHITE) | 10 SOLID (GREEN) | 68-58-18-01 | 68-58-18-03 | 150 | .542 |
| 10-2 SOLID (RED/WHITE) | 10 SOLID (GREEN) | 61-05-21-01 | 61-05-21-02 | 150 | .542 |
| 10-2 SOLID (BLUE/WHITE) | 10 SOLID (GREEN) | 61-05-18-01 | 61-05-18-02 | 150 | .542 |
| 10-3 SOLID (BLACK/WHITE/RED) | 10 SOLID (GREEN) | 68-58-42-01 | 68-58-42-03 | 189 | .58 |
| 10-4 SOLID (BLACK/WHITE/RED/BLUE) | 10 SOLID (GREEN) | 68-72-02-01 | 68-72-02-03 | 229 | .623 |
| STRANDED CONDUCTOR COLORS 120/208V | | | | | |
| 12-2 STRANDED (BLACK/WHITE) | 12 STRANDED (GREEN) | 69-11-47-01 | 69-11-47-02 | 110 | .494 |
| 12-3 STRANDED (BLACK/WHITE/RED) | 12 STRANDED (GREEN) | 69-11-54-01 | 69-11-54-02 | 134 | .537 |
| 12-4 STRANDED (BLACK/WHITE/RED/BLUE) | 12 STRANDED (GREEN) | 69-11-62-01 | 69-11-62-02 | 164 | .564 |
| 10-2 STRANDED (BLACK/WHITE) | 10 STRANDED (GREEN) | 69-11-70-01 | 69-11-70-02 | 159 | .566 |
| 10-3 STRANDED (BLACK/WHITE/RED) | 10 STRANDED (GREEN) | 69-11-88-01 | 69-11-88-02 | 201 | .607 |
| 10-4 STRANDED (BLACK/WHITE/RED/BLUE) | 10 STRANDED (GREEN) | 69-11-96-01 | 69-11-96-02 | 242 | .653 |
| SOLID CONDUCTOR COLORS 277/480V | | | | | |
| 12-2 SOLID (YELLOW/GRAY) | 12 SOLID (GREEN) | 68-93-23-01 | 68-93-23-02 | 105 | .475 |
| 12-2 SOLID (BROWN/GRAY) | 12 SOLID (GREEN) | 68-93-64-01 | 68-93-64-02 | 105 | .475 |
| 12-2 SOLID (ORANGE/GRAY) | 12 SOLID (GREEN) | 68-94-06-01 | 68-94-03-02 | 105 | .475 |
| 12-2 SOLID (PURPLE/GRAY) | 12 SOLID (GREEN) | 68-94-48-01 | 68-94-48-02 | 105 | .475 |

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|---|------------------------|-----------------------|-----------------------|-----|------|
| 12-3 SOLID (BROWN/YELLOW/GRAY) | 12 SOLID (GREEN) | 61-05-23-01 | 61-05-23-02 | 129 | .539 |
| 12-3 SOLID (BROWN/ORANG/GRAY) | 12 SOLID (GREEN) | 68-95-62-01 | 68-95-62-02 | 129 | .539 |
| 12-3 SOLID (ORANGE/YELLOW/GRAY) | 12 SOLID (GREEN) | 61-12-70-01 | 61-12-70-02 | 129 | .539 |
| 12-4 SOLID (BROWN/ORANGE/YELLOW/GRAY) | 12 SOLID (GREEN) | 68-95-70-01 | 68-95-70-02 | 155 | .539 |
| 10-2 SOLID (ORANGE/GRAY) | 10 SOLID (GREEN) | 55-11-67-01 | 55-11-67-02 | 150 | .542 |
| 10-2 SOLID (YELLOW/GRAY) | 10 SOLID (GREEN) | 61-05-22-01 | 61-05-22-02 | 150 | .542 |
| 10-2 SOLID (BROWN/GRAY) | 10 SOLID (GREEN) | 68-96-04-01 | 68-96-04-02 | 150 | .542 |
| 10-3 SOLID (BROWN/ORANGE/GRAY) | 10 SOLID (GREEN) | 68-95-39-01 | 68-95-39-02 | 189 | .58 |
| 10-3 SOLID (BROWN/YELLOW/GRAY) | 10 SOLID (GREEN) | 61-05-50-01 | 61-05-50-02 | 189 | .58 |
| 10-4 SOLID (BROWN/ORANGE/YELLOW/GRAY) | 10 SOLID (GREEN) | 68-94-14-01 | 68-94-14-02 | 229 | .623 |
| STRANDED CONDUCTOR COLORS 277/480V | | | | | |
| 12-2 STRANDED (YELLOW/GRAY) | 12 STRANDED (GREEN) | 55-11-08-01 | 55-11-08-02 | 110 | .494 |
| 12-2 STRANDED (BROWN/GRAY) | 12 STRANDED (GREEN) | 55-11-10-01 | 55-11-10-02 | 110 | .494 |
| 12-2 STRANDED (ORANGE/GRAY) | 12 STRANDED (GREEN) | 55-11-12-01 | 55-11-12-02 | 110 | .494 |
| 12-3 STRANDED (BROWN/YELLOW/GRAY) | 12 STRANDED (GREEN) | 55-11-60-01 | 55-11-60-02 | 134 | .537 |
| 12-3 STRANDED (BROWN/ORANGE/GRAY) | 12 STRANDED (GREEN) | 55-11-14-01 | 55-11-14-02 | 134 | .537 |
| 12-4 STRANDED (BROWN/ORANGE/YELLOW/GRAY) | 12 STRANDED (GREEN) | 55-11-22-01 | 55-11-22-02 | 164 | .564 |
| 10-2 STRANDED (BROWN/GRAY) | 10 STRANDED (GREEN) | 55-12-76-01 | 55-12-76-02 | 159 | .566 |
| 10-3 STRANDED (BROWN/ORANGE/GRAY) | 10 STRANDED (GREEN) | 55-11-21-01 | 55-11-21-02 | 201 | .607 |
| 10-4 STRANDED (BROWN/ORANGE/YELLOW/GRAY) | 10 STRANDED (GREEN) | 55-12-78-01 | 55-12-78-02 | 242 | .653 |
| INTERMEDIATE CONDUCTOR COLORS 120/208V | | | | | |
| 8-2 STRANDED (BLACK/WHITE) | 10 STRANDED (GREEN) | 68-70-95-01 (200') | 68-70-95-02 (500') | 231 | .644 |
| 8-2 STRANDED (RED/WHITE) | 10 STRANDED (GREEN) | 55-11-75-01 (200') | | 231 | .644 |
| 8-2 STRANDED (BLUE/WHITE) | 10 STRANDED (GREEN) | 55-11-77-01 (200') | | 231 | .644 |
| 8-3 STRANDED (BLACK/WHITE/RED) | 10 STRANDED (GREEN) | 68-71-37-01 (200') | 68-71-37-02 (500') | 299 | .678 |
| 8-3 STRANDED (RED/BLUE/WHITE) | 10 STRANDED (GREEN) | 55-11-80-01 (200') | | 299 | .678 |
| 8-4 STRANDED (BLACK/WHITE/RED/BLUE) | 10 STRANDED (GREEN) | 68-72-10-04 (200') | 68-72-10-02 (500') | 378 | .793 |
| 6-2 STRANDED (BLACK/WHITE) | 8 STRANDED (GREEN) | 68-71-03-01 (125') | 68-71-03-02 (500') | 312 | .716 |
| 6-3 STRANDED (BLACK/WHITE/RED) | 8 STRANDED (GREEN) | 68-71-45-01 (125') | 68-71-45-02 (500') | 442 | .819 |
| 6-4 STRANDED (BLACK/WHITE/RED/BLUE) | 8 STRANDED (GREEN) | 68-72-51-01 (100') | 68-72-51-02 (500') | 546 | .890 |
| 4-3 STRANDED (BLACK/WHITE/RED) | 8 STRANDED (GREEN) | 68-71-52-01 (100') | 68-71-52.02 (500') | 635 | .986 |

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| 4-4 STRANDED (BLACK/WHITE/RED/BLUE) | 8 STRANDED (GREEN) | 68-72-28-01 (100') | 68-72-28-02 (500') | 797 | 1.077 |
| 3-3 STRANDED (BLACK/WHITE/RED) | 6 STRANDED (GREEN) | 68-71-60-01 (100') | 68-71-60-02 (500') | 785 | 1.053 |
| 3-4 STRANDED (BLACK/WHITE/RED/BLUE) | 6 STRANDED (GREEN) | 68-72-36-01 (100') | 68-72-36-02 (500') | 985 | 1.152 |
| 2-3 STRANDED (BLACK/WHITE/RED) | 6 STRANDED (GREEN) | 68-71-78-01 (100') | 68-71-78-02 (500') | 936 | 1.130 |
| 2-4 STRANDED (BLACK/WHITE/RED/BLUE) | 6 STRANDED (GREEN) | 68-72-44-01 (100') | 68-72-44-02 (500') | 1195 | 1.239 |
| INTERMEDIATE CONDUCTOR COLORS 277/480V | | | | | |
| 8-2 STRANDED (BROWN/GRAY) | 10 STRANDED (GREEN) | 55-11-72-01 (200') | 55-11-72-02 (1000') | 231 | .644 |
| 8-2 STRANDED (YELLOW/GRAY) | 10 STRANDED (GREEN) | | 55-11-74-99 | 231 | .644 |
| 8-2 STRANDED (ORANGE/GRAY) | 10 STRANDED (GREEN) | 55-11-73-01 (200') | | 231 | .644 |
| 8-3 STRANDED (BROWN/ORANGE/GRAY) | 10 STRANDED (GREEN) | 55-11-78-03 (500') | 55-11-78-02 (1000') | 299 | .678 |
| 8-3 STRANDED (BROWN/YELLOW/GRAY) | 10 STRANDED (GREEN) | 55-11-79-01 (200') | | 299 | .678 |
| 6-2 STRANDED (BROWN/GRAY) | 8 STRANDED (GREEN) | 55-03-75-01 (1000') | 55-03-75-99 | 333 | .716 |
| 6-2 STRANDED (YELLOW/GRAY) | 8 STRANDED (GREEN) | 56-12-35-01 (1000') | | 333 | .716 |
| 6-3 STRANDED (BROWN/ORANGE/GRAY) | 8 STRANDED (GREEN) | 55-35-41-02 (500') | 55-35-41-03 (1000') | 441 | .819 |
| 6-3 STRANDED (BROWN/ORANGE/YELLOW) | 8 STRANDED (GREEN) | 55-60-46-03 (1000') | 55-60-46-99 | 441 | .819 |
| 6-4 STRANDED (BROWN/ORANGE/YELLOW/GRAY) | 8 STRANDED (GREEN) | 55-25-78-02 (500') | 55-25-78-01 (1000') | 545 | .89 |
| 4-3 STRANDED (BROWN/ORANGE/YELLOW) | 8 STRANDED (GREEN) | 55-64-78-03 (1000') | 55-64-78-99 | 635 | .985 |
| 4-4 STRANDED (BROWN/ORANGE/YELLOW/GRAY) | 8 STRANDED (GREEN) | 55-45-80-99 | | 800 | 1.076 |
| 2-3 STRANDED (BROWN/ORANGE/YELLOW) | 6 STRANDED (GREEN) | 55-43-87-99 | | 921 | 1.034 |
| 2-4 STRANDED (BROWN/ORANGE/YELLOW/GRAY) | 6 STRANDED (GREEN) | 58-07-40-99 | | 1181 | 1.238 |
| For allowable ampacities, refer to NEC 310.15. Available in sizes up to 750 kcmil. | | | | | |

FEATURES

- Reduces installation costs up to 50% over pipe and wire.
- Lightweight aluminum armor--as much as 45% lighter than steel MC Cable.
- Better grounding performance than Type AC
- Also available in barrels, boxes, or prefab assemblies
- UL Classified 1, 2, and 3 hour Through Penetration Firestop Systems: W-J-3037, W-L-3110, W-L-3113, W-L-3117, W-L-3120, W-L-3121, W-L-3160, C-AJ-3115, C-AJ-3140, C-AJ-3142, C-AJ-3145, C-AJ-3173, C-AJ-3202, C-AJ-4065, C-AJ-4066, F-C-3038.
- Cable reverse wound on reel for ease of pulling and installation. When pulling from coils, pull from inside to ensure ease of installation.
- Anti-short bushings are not required for use with MC cable per the NEC and UL

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NEC TABLE 310.15(B)(16)- ALLOWABLE AMPACITY FOR 600V CONDUCTORS

| SIZE AWG OR KCMIL | TEMPERATURE RATING OF CONDUCTOR | | |
|--|---------------------------------|---|---|
| | 60°C (140°F) | 75°C (167°F) | 90°C (194°F) |
| | Types: TW, UF | Types: RHW, THHW, THW, THWN, XHHW, USE, ZW | Types: TBS, SA, SIS, RHH, RHW-2, THHN, THHW, THW-2, THWN- 2, USE-2, XHH, XHHW, XHHW-2, ZW-2 |
| COPPER | | | |
| 18 | - | - | 14 |
| 16 | - | - | 18 |
| 14 | 15 | 20 | 25 |
| 12 | 20 | 25 | 30 |
| 10 | 30 | 35 | 40 |
| 8 | 40 | 50 | 55 |
| 6 | 55 | 65 | 75 |
| 4 | 70 | 85 | 95 |
| 3 | 85 | 100 | 115 |
| 2 | 95 | 115 | 130 |
| 1 | 110 | 130 | 145 |
| 1/0 | 125 | 150 | 170 |
| 2/0 | 145 | 175 | 195 |
| 3/0 | 165 | 200 | 225 |
| 4/0 | 195 | 230 | 260 |
| 250 | 215 | 255 | 290 |
| 300 | 240 | 285 | 320 |
| 350 | 260 | 310 | 350 |
| 400 | 280 | 335 | 380 |
| 500 | 320 | 380 | 430 |
| 600 | 350 | 420 | 475 |
| 700 | 385 | 460 | 520 |
| 750 | 400 | 475 | 535 |
| 800 | 410 | 490 | 555 |
| 900 | 435 | 520 | 585 |
| 1000 | 455 | 545 | 615 |
| 1250 | 495 | 590 | 665 |
| 1500 | 525 | 625 | 705 |
| 1750 | 545 | 650 | 735 |
| 2000 | 555 | 665 | 750 |
| Per NEC 310.15(B)(5), the ampacity of 4/C cables shall be reduced by a factor of 0.80 when the neutral is considered a current-carrying conductor. | | | |

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