Armorlite® Type MC Isolated Ground



14 AWG through 8 AWG Copper THHN/THWN Insulated Conductors. Two Insulated Grounding Conductors. UL Listed. 600 Volts. Rated VW-1. Lightweight Aluminum Interlocked Armor.

APPLICATIONS

Suitable for use as follows:

- Applications requiring redundant, dedicated or isolated grounding paths.
- Branch, feeder and service power distribution in commercial, industrial, institutional, and multiresidential buildings.
- For sensitive electronic equipment.
- 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

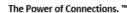
Southwire Armorlite® Type MC Cable - Isolated Ground meets or exceeds the following requirements:

- 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)
- NFPA 70 (National Electrical Code), Article 330
- Listed for use in UL 1, 2 and 3 Hour Through Penetration Firestop Systems
- Jacketed & Non Jacketed will both pass "UL Test" & "FT4/IEEE 1202" (70,000 Btu/hr) Vertical Cable Tray Flame Test
- REACH/RoHS-2 (Chemical Limit) Compliant

CONSTRUCTION

Southwire Armorlite® Type MC Cable - Isolated Ground is constructed with soft-drawn copper, Type THHN/THWN conductors rated 90°C dry and two insulated grounding conductors--one solid green and the second green with a yellow stripe. 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. Also available with overall PVC jacket.





| ONDUCTOR SIZE AND COLORS | GROUNDING SIZE AND COLOR | STOCK NUMBER | | WEIGHT | OVERALL | | |
|---|---|----------------|-----------------|-------------|----------------------|--|--|
| | | COIL (250') | REEL (1000') | (LBS/1000') | DIAMETER (INCHES) | | |
| SOLID CONDUCTOR COLORS 120/208V | | | | | | | |
| 12-2 SOLID (BLACK/WHITE) | 12-2 SOLID (GREEN/ GREEN-YELLOW) | 69-59-65-01 | 69-59-65-02 | 129 | .505 | | |
| 12-2 SOLID (RED/WHITE) | 12-2 SOLID (GREEN/ GREEN-YELLOW) | 55-63-23-01 | 55-63-23-02 | 129 | .505 | | |
| 12-2 SOLID (BLUE/WHITE) | 12-2 SOLID (GREEN/ GREEN-YELLOW) | | 55-63-25-02 | 129 | .505 | | |
| 12-3 SOLID (BLACK/RED/WHITE) | 12-2 SOLID (GREEN/ GREEN-YELLOW) | 69-59-73-01 | 69-59-73-02 | 155 | .539 | | |
| 12-4 SOLID (BLACK/RED/BLUE/WHITE) | 12-2 SOLID (GREEN/ GREEN-YELLOW) | 69-59-81-01 | 69-59-81-02 | 182 | .574 | | |
| 10-2 SOLID (BLACK/WHITE) | 10-2 SOLID (GREEN/ GREEN-YELLOW) | 69-59-99-01 | 69-59-99-02 | 189 | .58 | | |
| 10-2 SOLID (RED/WHITE) | 10-2 SOLID (GREEN/ GREEN-YELLOW) | 55-63-23-01 | 55-63-23-02 | 189 | .58 | | |
| 10-2 SOLID (BLUE/WHITE) | 10-2 SOLID (GREEN/ GREEN-YELLOW) | | 55-56-36-02 | 189 | .58 | | |
| 10-3 SOLID (BLACK/RED/WHITE) | 10-2 SOLID (GREEN/ GREEN-YELLOW) | 69-60-05-01 | 69-60-05-02 | 229 | .623 | | |
| 10-4 SOLID (BLACK/RED/BLUE/WHITE) | 10-2 SOLID (GREEN/ GREEN-YELLOW) | 69-60-13-01 | 69-60-13-02 | 271 | .668 | | |
| | STRANDED CONDU | CTOR COLORS | 120/208V | | | | |
| 12-2 STRANDED (BLACK/WHITE) | 12-2 STRANDED (GREEN/ GREEN-YELLOW) | 55-11-04-01 | 55-11-04-02 | 137 | .527 | | |
| 12-3 STRANDED (BLACK/RED/WHITE) | 12-2 STRANDED (GREEN/ GREEN-YELLOW) | 55-11-06-01 | 55-11-06-02 | 164 | .564 | | |
| 12-4 STRANDED (BLACK/RED/BLUE/WHITE) | 12-2 STRANDED (GREEN/ GREEN-YELLOW) | 55-12-96-01 | 55-12-96-02 | 193 | .602 | | |
| 10-2 STRANDED (BLACK/WHITE) | 10-2 STRANDED (GREEN/ GREEN-YELLOW) | 55-12-98-01 | 55-12-98-02 | 201 | .607 | | |
| 10-3 STRANDED (BLACK/RED/WHITE) | 10-2 STRANDED (GREEN/ GREEN-YELLOW) | 55-13-02-01 | 55-13-02-02 | 243 | .653 | | |
| 10-4 STRANDED (BLACK/RED/BLUE/WHITE) | 10-2 STRANDED (GREEN/ GREEN-YELLOW) | 55-13-04-01 | 55-13-04-02 | 287 | .701 | | |

FEATURES

- An additional grounding conductor for isolated or redundant grounding.
- Reduces installation costs up to 50% over pipe and wire.
- Available with steel armor
- Available with overall PVC jacket



Armorlite® Type MC - Isolated Ground

- Available in 250' coils, 1000' reels, barrels, boxes, and 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.
- Available in full line of product sizes and constructions.
- Anti-short bushings are not required for use with MC cable per the NEC and UL

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

| | TEMPERATURE RATING OF CONDUCTOR | | | | | | |
|---|---------------------------------|---|---|--|--|--|--|
| | 60°C (140°F) | 75°C (167°F) | 90°C (194°F) | | | | |
| SIZE AWG OR KCMIL | 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 | | | | |
| Por NEC 310 15(P)(5), the appropriate of 4/C cables shall be reduced by a | | | | | | | |

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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