



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 multi-residential 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.



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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					
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 CONDUCTOR 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
For allowable ampacities, refer to NEC 310.15.					

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

The Power of Connections.™



Southwire®

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- 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

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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