

Armorlite®

Type MC Oversized Neutral



14 AWG through 8 AWG Copper THHN/THWN Insulated Singles. Oversized Neutral Conductor. Green Insulated Grounding Conductor. UL Listed. 600 Volts. Rated VW-1. Lightweight Aluminum Interlocked Armor.

APPLICATIONS

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

- Applications affected by harmonics generated from non-linear switching loads, such as computers, variable frequency drives, electrical test equipment, and office equipment.
- 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- Oversized Neutral meets or exceeds the following requirements:

- UL 83
- UL 1063
- UL 1569
- UL Online Product Guide Info - Metal-Clad Cable (PJAZ) (www.ul.com)
- Federal Specification A-A59544 (formerly J-C-30B)
- Jacketed & Non Jacketed will both pass " UL Test" & "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 - Oversized Neutral is constructed with soft-drawn copper, Type THHN/THWN conductors rated 90°C dry available in sizes 14 AWG through 8 AWG, an oversized copper neutral conductor, 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. An optional PVC jacket can be applied over the armor.



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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					
12-1 SOLID (BLACK) 10-1 SOLID (WHITE)	12 SOLID (GREEN)	69-08-26-01	69-08-26-02	121	.521
12-2 SOLID (BLACK/RED) 10-1 SOLID (WHITE)	12 SOLID (GREEN)	69-08-59-01	69-08-59-02	147	.558
12-3 SOLID (BLACK/RED/BLUE) 10-1 SOLID (WHITE)	12 SOLID (GREEN)	69-08-83-01	69-08-83-02	172	.580
12-3 SOLID (BLACK/RED/BLUE) 8-1 SOLID (WHITE)	12 SOLID (GREEN)		69-09-17-02	203	.628
12-4 SOLID (BLACK/RED/BLUE/ORANGE) 10-1 SOLID (WHITE)	12 SOLID (GREEN)	69-09-41-01	69-09-41-02	197	.594
10-2 SOLID (BLACK/RED) 8-1 STRANDED (WHITE)	10 SOLID (GREEN)		69-09-74-02	223	.656
10-3 SOLID (BLACK/RED/BLUE) 8-1 STRANDED (WHITE)	10 SOLID (GREEN)		69-10-06-02	257	.628
12-4 SOLID (BLACK/RED/BLUE/WHITE/ORANGE) 10-2 SOLID (WHITE/WHITE-ORANGE)	12-2 SOLID (GREEN/ GREEN-YELLOW)	69-51-30-01	69-51-30-02	256	.636
12-6 SOLID (BLACK/RED/BLUE/BLACK- WHITE/RED-WHITE/BLUE-WHITE) 10-2 SOLID (WHITE/WHITE-BLACK)	12-2 SOLID (GREEN/ GREEN-YELLOW)	55-36-33-01	55-36-33-02	345	.817
10-4 SOLID (BLACK/RED/BLUE/PURPLE) 8-2 STRANDED (WHITE/WHITE-BLACK)	10-2 SOLID (GREEN/ GREEN-YELLOW)		55-29-85-02	437	.828
10-6 SOLID (BLACK/RED/BLUE/BLACK- WHITE/RED-WHITE/BLUE-WHITE) 8-2 SOLID (WHITE/WHITE-BLACK)	10 SOLID (GREEN)		58-50-22-02	477	.848
10-6 SOLID (BLACK/RED/BLUE/BLACK- WHITE/RED-WHITE/BLUE-WHITE) 8-2 STRANDED (WHITE/WHITE-BLACK)	10-2 SOLID (GREEN/ GREEN-YELLOW)		55-29-83-02	517	.868
STRANDED CONDUCTOR COLORS 120/208V					
12-1 STRANDED (BLACK) 10-1 STRANDED (WHITE)	12 STRANDED (GREEN)	55-13-18-01	55-13-18-02	126	.521

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12-2 STRANDED (BLACK/RED) 10-1 STRANDED (WHITE)	12 STRANDED (GREEN)	55-13-20-01	55-13-20-02	154	.558
12-3 STRANDED (BLACK/RED/BLUE) 10-1 STRANDED (WHITE)	12 STRANDED (GREEN)	55-13-26-01	55-13-26-02	180	.58
12-3 STRANDED (BLACK/RED/BLUE) 8-1 STRANDED (WHITE)	12 STRANDED (GREEN)	55-13-28-01	55-13-28-02	208	.628
12-4 STRANDED (BLACK/RED/BLUE/ORANGE) 10-1 STRANDED (WHITE)	12 STRANDED (GREEN)	55-13-30-01	55-13-30-02	207	.594
10-2 STRANDED (BLACK/RED) 8-1 STRANDED (WHITE)	10 STRANDED (GREEN)		55-13-34-02	229	.656
10-3 STRANDED (BLACK/RED/BLUE) 8-1 STRANDED (WHITE)	10 STRANDED (GREEN)		55-13-38-02	272	.700
<p>Sizes 8 AWG and larger will be stranded. Consult NEC 310.15 for ampacities. Additional constructions available by request.</p>					

FEATURES

- An oversized neutral conductor for applications affected by harmonics.
- Reduces installation costs up to 50% over pipe and wire.
- Available with steel armor
- Available with overall PVC jacket
- 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 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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