

# Armorlite<sup>®</sup>

## Type MC - Copper Feeder



1 AWG through 750 kcmil Copper THHN/THWN-2 Insulated Singles. Copper Grounding Conductor. UL Listed. 600 Volts. Rated VW-1. Lightweight Aluminum Interlocked Armor.

### APPLICATIONS

Suitable for use as follows:

- 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<sup>®</sup> Type MC Cable meets or exceeds the following requirements:

- UL 83
- UL 1569
- UL 1685
- UL Online Product Guide Info - Metal-Clad Cable (PJAZ) ( [www.ul.com](http://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 Fire Stop Systems
- REACH/RoHS-2 (Chemical Limit) Compliant

### CONSTRUCTION

Southwire Armorlite<sup>®</sup> Type MC Cable is constructed with soft-drawn copper, Type THHN/THWN-2 conductors rated 90°C dry, and a bare copper grounding conductor for sizes 1/0 AWG and larger. 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 in steel. Conductors are black with phase identification. Colors available upon request with economic order quantity.



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Armorlite Type MC - Copper Conductors

CONDUCTOR SIZE AND COLORS	GROUNDING SIZE AND COLOR	STOCK NUMBER	WEIGHT (LBS/1000')	OVERALL DIAMETER (INCHES)
<b>CONDUCTOR COLORS 120/208V</b>				
1-3 STRANDED (PHASE ID: BLACK/WHITE/ PHASE ID: RED)	6 STRANDED (GREEN)	89-03-47-99	1139	1.203
1-4 STRANDED (PHASE ID: BLACK/ WHITE/ PHASE ID: RED/ PHASE ID: BLUE)	6 STRANDED (GREEN)	89-03-55-99	1460	1.351
1/0-3 STRANDED (PHASE ID: BLACK/WHITE/ PHASE ID: RED)	6 STRANDED (BARE)	89-03-48-99	1347	1.245
1/0-4 STRANDED (PHASE ID: BLACK/ WHITE/ PHASE ID: RED/ PHASE ID: BLUE)	6 STRANDED (BARE)	89-03-56-99	1737	1.362
2/0-3 STRANDED (PHASE ID: BLACK/WHITE/ PHASE ID: RED)	6 STRANDED (BARE)	89-03-49-99	1633	1.339
2/0-4 STRANDED (PHASE ID: BLACK/ WHITE/ PHASE ID: RED/ PHASE ID: BLUE)	6 STRANDED (BARE)	89-03-57-99	2190	1.571
3/0-3 STRANDED (PHASE ID: BLACK/WHITE/ PHASE ID: RED)	4 STRANDED (BARE)	89-03-94-99	2040	1.449
3/0-3 STRANDED (PHASE ID: BLACK/WHITE/ PHASE ID: RED)	3 STRANDED (BARE)	56-10-31-99	2074	1.449
3/0-4 STRANDED (PHASE ID: BLACK/ WHITE/ PHASE ID: RED/ PHASE ID: BLUE)	4 STRANDED (BARE)	89-03-95-99	2720	1.694
3/0-4 STRANDED (PHASE ID: BLACK/ WHITE/ PHASE ID: RED/ PHASE ID: BLUE)	3 STRANDED (BARE)	56-10-32-99	2757	1.716
4/0-3 STRANDED (PHASE ID: BLACK/WHITE/ PHASE ID: RED)	4 STRANDED (BARE)	89-03-51-99	2562	1.665
4/0-3 STRANDED (PHASE ID: BLACK/WHITE/ PHASE ID: RED)	2 STRANDED (BARE)	56-10-33-99	2638	1.67
4/0-4 STRANDED (PHASE ID: BLACK/ WHITE/ PHASE ID: RED/ PHASE ID: BLUE)	4 STRANDED (BARE)	89-03-59-99	3313	1.824
4/0-4 STRANDED (PHASE ID: BLACK/ WHITE/ PHASE ID: RED/ PHASE ID: BLUE)	2 STRANDED (BARE)	56-10-34-99	3396	1.857
250-3 STRANDED (PHASE ID: BLACK/WHITE/ PHASE ID: RED)	4 STRANDED (BARE)	89-03-52-99	2991	1.817
250-4 STRANDED (PHASE ID: BLACK/ WHITE/ PHASE ID: RED/ PHASE ID: BLUE)	4 STRANDED (BARE)	89-03-60-99	3880	1.993
350-3 STRANDED (PHASE ID: BLACK/WHITE/ PHASE ID: RED)	3 STRANDED (BARE)	89-03-53-99	4041	2.040
350-4 STRANDED (PHASE ID: BLACK/ WHITE/ PHASE ID: RED/ PHASE ID: BLUE)	3 STRANDED (BARE)	89-03-61-99	5261	2.242
350-3 STRANDED (PHASE ID: BLACK/WHITE/ PHASE ID: RED)	3/0 STRANDED (BARE)	56-41-92-99	4435	2.242
350-4 STRANDED (PHASE ID: BLACK/ WHITE/ PHASE ID: RED/ PHASE ID: BLUE)	3/0 STRANDED (BARE)	56-87-10-99	5645	2.388

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## Armorlite Type MC - Copper Conductors

500-3 STRANDED (PHASE ID: BLACK/WHITE/ PHASE ID: RED)	2 STRANDED (BARE)	89-03-54-99	5589	2.319
500-4 STRANDED (PHASE ID: BLACK/ WHITE/ PHASE ID: RED/ PHASE ID: BLUE)	2 STRANDED (BARE)	89-03-62-99	7305	2.557
500-3 STRANDED (PHASE ID: BLACK/WHITE/ PHASE ID: RED)	1/0 STRANDED (BARE)	56-41-98-99	5715	2.318
500-4 STRANDED (PHASE ID: BLACK/ WHITE/ PHASE ID: RED/ PHASE ID: BLUE)	1/0 STRANDED (BARE)	56-42-02-99	7426	2.554
500-3 STRANDED (PHASE ID: BLACK/WHITE/ PHASE ID: RED)	250 STRANDED (BARE)	56-13-75-99	6201	2.553
500-4 STRANDED (PHASE ID: BLACK/ WHITE/ PHASE ID: RED/ PHASE ID: BLUE)	250 STRANDED (BARE)	56-41-96-99	7921	2.818
600-4 STRANDED (PHASE ID: BLACK/WHITE/ PHASE ID: RED/ PHASE ID: BLUE)	2 STRANDED (BARE)	55-20-88-99	8685	2.794
750-3 STRANDED (PHASE ID: BLACK/WHITE/ PHASE ID: RED)	4/0 STRANDED (BARE)	55-51-47-99	8572	2.754
750-4 STRANDED (PHASE ID: BLACK/ WHITE/ PHASE ID: RED/ PHASE ID: BLUE)	1/0 STRANDED (BARE)	55-04-53-99	10,779	3.040
<p>For allowable ampacities, refer to NEC 310.15.                      Available with oversized grounding conductor when used for parallel feeds on special orders.                      Connectors may require upsizing to accommodate armor looseness after cutting.</p>				

## FEATURES

- Available with Southwire pulling heads and on stacked reels
- Available in custom constructions and lengths
- 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

## COLOR CODING, Standard Products

PHASE CONDUCTORS ARE BLACK WITH PRINTED I.D.	
NO. OF CONDUCTORS	COLOR SEQUENCE 120/208
3	PHASE ID: BLACK, RED, WHITE
4	PHASE ID: BLACK, RED, BLUE, WHITE
GROUNDING CONDUCTOR	BARE

Color sequence for 277V/480Y High Voltage Color systems and other special colors are available subject to economic order quantity.

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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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