

Armorlite®

Type MC PVC Jacketed Copper Feeder Cable



1 AWG through 750 kcmil Copper THHN/THWN-2 Insulated Power Feeder Conductors. Bare Copper Grounding Conductor. UL Listed. 600 Volts. Rated VW-1. Lightweight Aluminum Interlocked Armor with Overall PVC Jacket.

APPLICATIONS

Suitable for use as follows:

- Suitable for Wet Location per NEC 330.10(11)
- Direct burial applications, installation in concrete and where exposed to cinder fills, strong chlorides, caustic alkalis, or vapors of chlorine or of hydrochloric acids.
- Branch, feeder and service power distribution in commercial, industrial, institutional, and multi-residential buildings.
- Fished or embedded in plaster.
- Concealed or exposed installations
- Places of Assembly per NEC 518.4 and theaters per NEC 520.5.
- As aerial cable on a messenger.
- 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 Type MC - PVC Jacketed Copper Feeder 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)
- 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 Type MC Cable – PVC Jacketed Copper Feeder Cable is constructed with soft-drawn, copper Type THHN/THWN-2 conductors rated 90°C, and a bare copper grounding conductor for sizes 1/0 AWG and larger. The conductors are cabled together and a binder tape is wrapped around the assembly. Aluminum interlocking armor is applied over the assembly. A black, flame retardant, sunlight resistant, PVC jacket is applied over the armor. Print legend is applied to the binder tape as well as the overall PVC jacket. The jacket is available in blue or gray colors upon request, subject to economic order quantities.



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Armorlite® Type MC - PVC Jacketed - Copper Conductors

CONDUCTOR SIZE AND COLORS	GROUNDING SIZE AND COLOR	STOCK NUMBER	WEIGHT (LBS/1000')	OVERALL DIAMETER (INCHES)
CONDUCTOR COLORS 120/208V				
1-3 STRANDED (PHASE ID: BLACK/WHITE/ PHASE ID: RED)	6 STRANDED (GREEN)	55-42-93-99	1255	1.303
1-4 STRANDED (PHASE ID: BLACK/ WHITE/ PHASE ID: RED/ PHASE ID: BLUE)	6 STRANDED (GREEN)	55-56-69-99	1588	1.451
1/0-3 STRANDED (PHASE ID: BLACK/WHITE/ PHASE ID: RED)	6 STRANDED (BARE)	55-42-86-99	1466	1.342
1/0-4 STRANDED (PHASE ID: BLACK/ WHITE/ PHASE ID: RED/ PHASE ID: BLUE)	6 STRANDED (BARE)	55-42-90-99	1867	1.462
2/0-3 STRANDED (PHASE ID: BLACK/WHITE/ PHASE ID: RED)	6 STRANDED (BARE)	55-42-88-99	1761	1.439
2/0-4 STRANDED (PHASE ID: BLACK/ WHITE/ PHASE ID: RED/ PHASE ID: BLUE)	6 STRANDED (BARE)	55-43-84-99	2370	1.691
3/0-3 STRANDED (PHASE ID: BLACK/WHITE/ PHASE ID: RED)	4 STRANDED (BARE)	55-51-61-99	2178	1.549
3/0-3 STRANDED (PHASE ID: BLACK/WHITE/ PHASE ID: RED)	3 STRANDED (BARE)	56-41-85-99	2213	1.549
3/0-4 STRANDED (PHASE ID: BLACK/ WHITE/ PHASE ID: RED/ PHASE ID: BLUE)	4 STRANDED (BARE)	55-42-91-99	2914	1.814
3/0-4 STRANDED (PHASE ID: BLACK/ WHITE/ PHASE ID: RED/ PHASE ID: BLUE)	3 STRANDED (BARE)	56-41-86-99	2948	1.814
4/0-3 STRANDED (PHASE ID: BLACK/WHITE/ PHASE ID: RED)	4 STRANDED (BARE)	55-39-89-99	2752	1.786
4/0-4 STRANDED (PHASE ID: BLACK/ WHITE/ PHASE ID: RED/ PHASE ID: BLUE)	4 STRANDED (BARE)	55-43-31-99	3521	1.944
250-3 STRANDED (PHASE ID: BLACK/WHITE/ PHASE ID: RED)	4 STRANDED (BARE)	55-58-03-99	3198	1.937
250-4 STRANDED (PHASE ID: BLACK/ WHITE/ PHASE ID: RED/ PHASE ID: BLUE)	4 STRANDED (BARE)	55-30-34-99	4107	2.113
350-3 STRANDED (PHASE ID: BLACK/WHITE/ PHASE ID: RED)	3 STRANDED (BARE)	55-57-75-99	4273	2.160
350-3 STRANDED (PHASE ID: BLACK/WHITE/ PHASE ID: RED)	3/0 STRANDED (BARE)	56-41-93-99	4689	2.362
350-4 STRANDED (PHASE ID: BLACK/ WHITE/ PHASE ID: RED/ PHASE ID: BLUE)	3 STRANDED (BARE)	55-49-48-99	5516	2.362
350-4 STRANDED (PHASE ID: BLACK/ WHITE/ PHASE ID: RED/ PHASE ID: BLUE)	3/0 STRANDED (BARE)	56-42-01-99	5985	2.538
500-3 STRANDED (PHASE ID: BLACK/WHITE/ PHASE ID: RED)	2 STRANDED (BARE)	55-56-68-99	5919	2.468
500-3 STRANDED (PHASE ID: BLACK/WHITE/ PHASE ID: RED)	250 STRANDED (BARE)	56-41-90-99	6568	2.703
500-3 STRANDED (PHASE ID: BLACK/WHITE/ PHASE ID: RED)	1/0 STRANDED (BARE)	56-41-99-99	6045	2.468

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500-4 STRANDED (PHASE ID: BLACK/ WHITE/ PHASE ID: RED/ PHASE ID: BLUE)	2 STRANDED (BARE)	55-57-66-99	7668	2.707
500-4 STRANDED (PHASE ID: BLACK/ WHITE/ PHASE ID: RED/ PHASE ID: BLUE)	1/0 STRANDED (BARE)	56-42-04-99	7789	2.703
For allowable ampacities, refer to NEC 310.15. Available with oversized grounding conductor when used for parallel feeds on special orders.				

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 120/208Y
3	Black, Red, White
4	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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