



ELLIOTT ELECTRIC SUPPLY

We Deliver...Lower Cost, Quality Products, & Personal Service

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SMCBL122BKWH 12/2 WG MC Solid-BK, WH, GN-Steel Armor

Southwire Company

Catalog Number	SMCBL122BKWH
Manufacturer	Southwire Company
Description	Aluminum Armored Conductor, Solid, #12 Awg Conductor Size, PVC Jacket Material, Thermoplastic Nylon Insulation Material, Copper Conductor Material, 600 V, 20 A, Black, White and Green, Blue Jacket Color, 2 Conductors, 250 FT Overall Length, 0.475 In Outside Diameter, +75 °C (Wet) Operating Temperature, 104 LB/MFT
Weight per unit	0.1050 (lbs/ft)
Product Category	Alum Armor Copper Conductors

Features

Ground Conductor Type	12 AWG SOLID GREEN INSULATED
Stranding	SOLID

Material, Color, and Finish

Armor Material	LIGHTWEIGHT ALUMINUM
Color Code	BLACK/WHITE/GREEN

Dimensions and Weight

Length	250 FT
Length in ft	250 W
Outer Diameter	0.475 INCH

Descriptions

Commodity Description	ALUM ARMOR CU CONDUCTOR-AC90-CORFLEX
Description	12/2 WG MC SOLID-BK,WH,GN-STEEL ARMOR

Manufacturer Information

GTIN	00032886051753
UPC	032886051753

Taxonomies, Classifications, and Categories

Category Description	BX & MC
Type	MC

Packaging

Carton	250
Weight Per foot	0.105

Uses, Certifications, and Standards

Approval	UL 83, UL 1569
Temperature Rating	75 DEG C (WET), 90 DEG C (DRY)

Armorlite® Type MC



14 AWG through 2 AWG THHN/THWN Insulated Singles. Green Insulated Ground. UL Listed. 600 Volts. Rated VW-1. Lightweight Aluminum Interlocked Armor.

APPLICATIONS

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

- 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 meets or exceeds the requirements of the following:

- 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)
- 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 is constructed with soft-drawn copper, Type THHN/THWN conductors rated 90°C dry available in sizes 14 AWG through 2 AWG, 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.



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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					
14-2 SOLID (BLACK/WHITE)	14 SOLID (GREEN)	68-57-92-01	68-57-92-02	77	.439
14-3 SOLID (BLACK/WHITE/RED)	14 SOLID (GREEN)	68-58-26-01	68-58-26-02	94	.464
14-4 SOLID (BLACK/WHITE/RED/BLUE)	14 SOLID (GREEN)	68-71-86-01	68-71-86-02	112	.494
12-2 SOLID (BLACK/WHITE)	12 SOLID (GREEN)	68-58-00-01	68-58-00-02	105	.475
12-2 SOLID (RED/WHITE)	12 SOLID (GREEN)	68-95-21-01	68-95-21-02	105	.475
12-2 SOLID (BLUE/WHITE)	12 SOLID (GREEN)	68-94-89-01	68-94-89-02	105	.475
12-3 SOLID (BLACK/WHITE/RED)	12 SOLID (GREEN)	68-58-34-01	68-58-34-02	129	.505
12-3 SOLID (BLACK/WHITE/BLUE)	12 SOLID (GREEN)	61-09-73-01	61-09-73-02	129	.505
12-3 SOLID (RED/WHITE/BLUE)	12 SOLID (GREEN)	61-09-71-01	61-09-71-02	129	.505
12-4 SOLID (BLACK/WHITE/RED/BLUE)	12 SOLID (GREEN)	68-71-94-01	68-71-94-03	155	.539
10-2 SOLID (BLACK/WHITE)	10 SOLID (GREEN)	68-58-18-01	68-58-18-03	150	.542
10-2 SOLID (RED/WHITE)	10 SOLID (GREEN)	61-05-21-01	61-05-21-02	150	.542
10-2 SOLID (BLUE/WHITE)	10 SOLID (GREEN)	61-05-18-01	61-05-18-02	150	.542
10-3 SOLID (BLACK/WHITE/RED)	10 SOLID (GREEN)	68-58-42-01	68-58-42-03	189	.58
10-4 SOLID (BLACK/WHITE/RED/BLUE)	10 SOLID (GREEN)	68-72-02-01	68-72-02-03	229	.623
STRANDED CONDUCTOR COLORS 120/208V					
12-2 STRANDED (BLACK/WHITE)	12 STRANDED (GREEN)	69-11-47-01	69-11-47-02	110	.494
12-3 STRANDED (BLACK/WHITE/RED)	12 STRANDED (GREEN)	69-11-54-01	69-11-54-02	134	.537
12-4 STRANDED (BLACK/WHITE/RED/BLUE)	12 STRANDED (GREEN)	69-11-62-01	69-11-62-02	164	.564
10-2 STRANDED (BLACK/WHITE)	10 STRANDED (GREEN)	69-11-70-01	69-11-70-02	159	.566
10-3 STRANDED (BLACK/WHITE/RED)	10 STRANDED (GREEN)	69-11-88-01	69-11-88-02	201	.607
10-4 STRANDED (BLACK/WHITE/RED/BLUE)	10 STRANDED (GREEN)	69-11-96-01	69-11-96-02	242	.653
SOLID CONDUCTOR COLORS 277/480V					
12-2 SOLID (YELLOW/GRAY)	12 SOLID (GREEN)	68-93-23-01	68-93-23-02	105	.475
12-2 SOLID (BROWN/GRAY)	12 SOLID (GREEN)	68-93-64-01	68-93-64-02	105	.475
12-2 SOLID (ORANGE/GRAY)	12 SOLID (GREEN)	68-94-06-01	68-94-03-02	105	.475
12-2 SOLID (PURPLE/GRAY)	12 SOLID (GREEN)	68-94-48-01	68-94-48-02	105	.475

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12-3 SOLID (BROWN/YELLOW/GRAY)	12 SOLID (GREEN)	61-05-23-01	61-05-23-02	129	.539
12-3 SOLID (BROWN/ORANG/GRAY)	12 SOLID (GREEN)	68-95-62-01	68-95-62-02	129	.539
12-3 SOLID (ORANGE/YELLOW/GRAY)	12 SOLID (GREEN)	61-12-70-01	61-12-70-02	129	.539
12-4 SOLID (BROWN/ORANGE/YELLOW/GRAY)	12 SOLID (GREEN)	68-95-70-01	68-95-70-02	155	.539
10-2 SOLID (ORANGE/GRAY)	10 SOLID (GREEN)	55-11-67-01	55-11-67-02	150	.542
10-2 SOLID (YELLOW/GRAY)	10 SOLID (GREEN)	61-05-22-01	61-05-22-02	150	.542
10-2 SOLID (BROWN/GRAY)	10 SOLID (GREEN)	68-96-04-01	68-96-04-02	150	.542
10-3 SOLID (BROWN/ORANGE/GRAY)	10 SOLID (GREEN)	68-95-39-01	68-95-39-02	189	.58
10-3 SOLID (BROWN/YELLOW/GRAY)	10 SOLID (GREEN)	61-05-50-01	61-05-50-02	189	.58
10-4 SOLID (BROWN/ORANGE/YELLOW/GRAY)	10 SOLID (GREEN)	68-94-14-01	68-94-14-02	229	.623
STRANDED CONDUCTOR COLORS 277/480V					
12-2 STRANDED (YELLOW/GRAY)	12 STRANDED (GREEN)	55-11-08-01	55-11-08-02	110	.494
12-2 STRANDED (BROWN/GRAY)	12 STRANDED (GREEN)	55-11-10-01	55-11-10-02	110	.494
12-2 STRANDED (ORANGE/GRAY)	12 STRANDED (GREEN)	55-11-12-01	55-11-12-02	110	.494
12-3 STRANDED (BROWN/YELLOW/GRAY)	12 STRANDED (GREEN)	55-11-60-01	55-11-60-02	134	.537
12-3 STRANDED (BROWN/ORANGE/GRAY)	12 STRANDED (GREEN)	55-11-14-01	55-11-14-02	134	.537
12-4 STRANDED (BROWN/ORANGE/YELLOW/GRAY)	12 STRANDED (GREEN)	55-11-22-01	55-11-22-02	164	.564
10-2 STRANDED (BROWN/GRAY)	10 STRANDED (GREEN)	55-12-76-01	55-12-76-02	159	.566
10-3 STRANDED (BROWN/ORANGE/GRAY)	10 STRANDED (GREEN)	55-11-21-01	55-11-21-02	201	.607
10-4 STRANDED (BROWN/ORANGE/YELLOW/GRAY)	10 STRANDED (GREEN)	55-12-78-01	55-12-78-02	242	.653
INTERMEDIATE CONDUCTOR COLORS 120/208V					
8-2 STRANDED (BLACK/WHITE)	10 STRANDED (GREEN)	68-70-95-01 (200')	68-70-95-02 (500')	231	.644
8-2 STRANDED (RED/WHITE)	10 STRANDED (GREEN)	55-11-75-01 (200')		231	.644
8-2 STRANDED (BLUE/WHITE)	10 STRANDED (GREEN)	55-11-77-01 (200')		231	.644
8-3 STRANDED (BLACK/WHITE/RED)	10 STRANDED (GREEN)	68-71-37-01 (200')	68-71-37-02 (500')	299	.678
8-3 STRANDED (RED/BLUE/WHITE)	10 STRANDED (GREEN)	55-11-80-01 (200')		299	.678
8-4 STRANDED (BLACK/WHITE/RED/BLUE)	10 STRANDED (GREEN)	68-72-10-04 (200')	68-72-10-02 (500')	378	.793
6-2 STRANDED (BLACK/WHITE)	8 STRANDED (GREEN)	68-71-03-01 (125')	68-71-03-02 (500')	312	.716
6-3 STRANDED (BLACK/WHITE/RED)	8 STRANDED (GREEN)	68-71-45-01 (125')	68-71-45-02 (500')	442	.819
6-4 STRANDED (BLACK/WHITE/RED/BLUE)	8 STRANDED (GREEN)	68-72-51-01 (100')	68-72-51-02 (500')	546	.890
4-3 STRANDED (BLACK/WHITE/RED)	8 STRANDED (GREEN)	68-71-52-01 (100')	68-71-52.02 (500')	635	.986

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4-4 STRANDED (BLACK/WHITE/RED/BLUE)	8 STRANDED (GREEN)	68-72-28-01 (100')	68-72-28-02 (500')	797	1.077
3-3 STRANDED (BLACK/WHITE/RED)	6 STRANDED (GREEN)	68-71-60-01 (100')	68-71-60-02 (500')	785	1.053
3-4 STRANDED (BLACK/WHITE/RED/BLUE)	6 STRANDED (GREEN)	68-72-36-01 (100')	68-72-36-02 (500')	985	1.152
2-3 STRANDED (BLACK/WHITE/RED)	6 STRANDED (GREEN)	68-71-78-01 (100')	68-71-78-02 (500')	936	1.130
2-4 STRANDED (BLACK/WHITE/RED/BLUE)	6 STRANDED (GREEN)	68-72-44-01 (100')	68-72-44-02 (500')	1195	1.239
INTERMEDIATE CONDUCTOR COLORS 277/480V					
8-2 STRANDED (BROWN/GRAY)	10 STRANDED (GREEN)	55-11-72-01 (200')	55-11-72-02 (1000')	231	.644
8-2 STRANDED (YELLOW/GRAY)	10 STRANDED (GREEN)		55-11-74-99	231	.644
8-2 STRANDED (ORANGE/GRAY)	10 STRANDED (GREEN)	55-11-73-01 (200')		231	.644
8-3 STRANDED (BROWN/ORANGE/GRAY)	10 STRANDED (GREEN)	55-11-78-03 (500')	55-11-78-02 (1000')	299	.678
8-3 STRANDED (BROWN/YELLOW/GRAY)	10 STRANDED (GREEN)	55-11-79-01 (200')		299	.678
6-2 STRANDED (BROWN/GRAY)	8 STRANDED (GREEN)	55-03-75-01 (1000')	55-03-75-99	333	.716
6-2 STRANDED (YELLOW/GRAY)	8 STRANDED (GREEN)	56-12-35-01 (1000')		333	.716
6-3 STRANDED (BROWN/ORANGE/GRAY)	8 STRANDED (GREEN)	55-35-41-02 (500')	55-35-41-03 (1000')	441	.819
6-3 STRANDED (BROWN/ORANGE/YELLOW)	8 STRANDED (GREEN)	55-60-46-03 (1000')	55-60-46-99	441	.819
6-4 STRANDED (BROWN/ORANGE/YELLOW/GRAY)	8 STRANDED (GREEN)	55-25-78-02 (500')	55-25-78-01 (1000')	545	.89
4-3 STRANDED (BROWN/ORANGE/YELLOW)	8 STRANDED (GREEN)	55-64-78-03 (1000')	55-64-78-99	635	.985
4-4 STRANDED (BROWN/ORANGE/YELLOW/GRAY)	8 STRANDED (GREEN)	55-45-80-99		800	1.076
2-3 STRANDED (BROWN/ORANGE/YELLOW)	6 STRANDED (GREEN)	55-43-87-99		921	1.034
2-4 STRANDED (BROWN/ORANGE/YELLOW/GRAY)	6 STRANDED (GREEN)	58-07-40-99		1181	1.238
For allowable ampacities, refer to NEC 310.15. Available in sizes up to 750 kcmil.					

FEATURES

- Reduces installation costs up to 50% over pipe and wire.
- Lightweight aluminum armor--as much as 45% lighter than steel MC Cable.
- Better grounding performance than Type AC
- Also available in barrels, boxes, or 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.
- 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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