Southwire®

MC CABLE
CATALOG







SOUTHWIRE.COM

OUR STORY

Roy Richards, Sr. founded a small construction company in 1937 to erect power poles. Only two and half years later, the company had strung 3,500 miles of cable. In 1950, Mr. Richards went on to start a small, family-owned operation to manufacture electrical wire and cable. Southwire Company opened with only twelve employees, and within the first two years it had shipped 5 million pounds of wire for the transmission and distribution of electricity. Since that time, Southwire has become one of the world's leading manufacturers of wire and cable and an emerging influence in the industrial electrical space. With more than 7,000 employees, the company serves customers in a wide variety of markets across the globe and has introduced many industry-changing innovations like the SCR® continuous casting process, SIM*pull* Solutions® products and services, and many more.

SOUTHWIRE, THE COMPANY

Southwire Company, LLC is North America's leading manufacturer of electrical wire and cable. Nearly one in two new homes built in the United States contains our wire, and we produce half of the cable used to transmit and distribute electricity throughout the nation. More than half of the world's refined copper passes through one of our SCR® systems, our tools & equipment business continues to grow and our wire plays a key role in the manufacturing of other products including automotive wiring harnesses.

THE PRODUCTS

To be successful requires products that give you solutions no matter what stage of the project cycle you are in. Our product teams and dedicated resources work together to listen to and work with our customers, creating solutions that deliver unparalleled value through product innovation, safety, and efficiency.

THE SERVICE

Service is more than a word or a phone number; it's a tangible support system that assists you through the entire project cycle. Starting with our own knowledgeable customer service team, to our CableTechSupport™engineering team, whether in the office or in the field, we're there to lend a hand, when you need it most.

TABLE OF CONTENTS

MC CABLE

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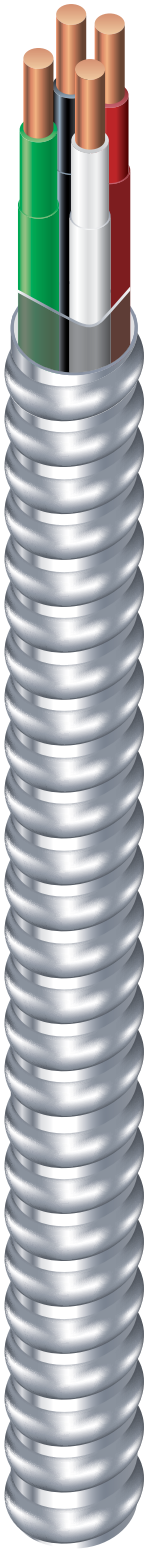
- Armorlite® Type MC Multi-Circuit – PVC Jacketed
- Duraclad® Type AC
- AlumaFlex™ Type MC-XHHW-2 PVC Jacketed
- Copper Riser MC™ Cable Type MC Cu Feeder THHN/THWN-2 Conductors
- Armorlite® Type MC*4P*® Multi-Circuit
- HCF MC*4P*® Type MC All Purpose Hospital Care Facility
- MC-PCS Duo™ PVC Jacketed Power & Control/Signal Cable
- Red Alert® Type MC-FPLP Fire Alarm and Control
- ULTRA-WHIP® Pre-Assembled Non-Metallic Hook-Up Whips

ARMORLITE® TYPE MC

LISTED



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.

STANDARDS & REFERENCES

- 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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ARMORLITE® TYPE MC

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	0.439
14-3 SOLID (BLACK/WHITE/RED)	14 SOLID (GREEN)	68-58-26-01	68-58-26-02	94	0.464
14-4 SOLID (BLACK/WHITE/RED/BLUE)	14 SOLID (GREEN)	68-71-86-01	68-71-86-02	112	0.494
12-2 SOLID (BLACK/WHITE)	12 SOLID (GREEN)	68-58-00-01	68-58-00-02	105	0.475
12-2 SOLID (RED/WHITE)	12 SOLID (GREEN)	68-95-21-01	68-95-21-02	105	0.475
12-2 SOLID (BLUE/WHITE)	12 SOLID (GREEN)	68-94-89-01	68-94-89-02	105	0.475
12-3 SOLID (BLACK/WHITE/RED)	12 SOLID (GREEN)	68-58-34-01	68-58-34-02	129	0.505
12-3 SOLID (BLACK/WHITE/BLUE)	12 SOLID (GREEN)	61-09-73-01	61-09-73-02	129	0.505
12-3 SOLID (RED/WHITE/BLUE)	12 SOLID (GREEN)	61-09-71-01	61-09-71-02	129	0.505
12-4 SOLID (BLACK/WHITE/RED/BLUE)	12 SOLID (GREEN)	68-71-94-01	68-71-94-03	155	0.539
10-2 SOLID (BLACK/WHITE)	10 SOLID (GREEN)	68-58-18-01	68-58-18-03	150	0.542
10-2 SOLID (RED/WHITE)	10 SOLID (GREEN)	61-05-21-01	61-05-21-02	150	0.542
10-2 SOLID (BLUE/WHITE)	10 SOLID (GREEN)	61-05-18-01	61-05-18-02	150	0.542
10-3 SOLID (BLACK/WHITE/RED)	10 SOLID (GREEN)	68-58-42-01	68-58-42-03	189	0.58
10-4 SOLID (BLACK/WHITE/RED/BLUE)	10 SOLID (GREEN)	68-72-02-01	68-72-02-03	229	0.623
STRANDED CONDUCTOR COLORS 120/208V					
12-2 STRANDED (BLACK/WHITE)	12 STRANDED (GREEN)	69-11-47-01	69-11-47-02	110	0.494
12-3 STRANDED (BLACK/WHITE/RED)	12 STRANDED (GREEN)	69-11-54-01	69-11-54-02	134	0.537
12-4 STRANDED (BLACK/WHITE/RED/BLUE)	12 STRANDED (GREEN)	69-11-62-01	69-11-62-02	164	0.564
10-2 STRANDED (BLACK/WHITE)	10 STRANDED (GREEN)	69-11-70-01	69-11-70-02	159	0.566
10-3 STRANDED (BLACK/WHITE/RED)	10 STRANDED (GREEN)	69-11-88-01	69-11-88-02	201	0.607
10-4 STRANDED (BLACK/WHITE/RED/BLUE)	10 STRANDED (GREEN)	69-11-96-01	69-11-96-02	242	0.653
SOLID CONDUCTOR COLORS 277/480V					
12-2 SOLID (YELLOW/GRAY)	12 SOLID (GREEN)	68-93-23-01	68-93-23-02	105	0.475
12-2 SOLID (BROWN/GRAY)	12 SOLID (GREEN)	68-93-64-01	68-93-64-02	105	0.475
12-2 SOLID (ORANGE/GRAY)	12 SOLID (GREEN)	68-94-06-01	68-94-03-02	105	0.475
12-2 SOLID (PURPLE/GRAY)	12 SOLID (GREEN)	68-94-48-01	68-94-48-02	105	0.475
12-3 SOLID (BROWN/YELLOW/GRAY)	12 SOLID (GREEN)	61-05-23-01	61-05-23-02	129	0.539
12-3 SOLID (BROWN/ORANG/GRAY)	12 SOLID (GREEN)	68-95-62-01	68-95-62-02	129	0.539
12-3 SOLID (ORANGE/YELLOW/GRAY)	12 SOLID (GREEN)	61-12-70-01	61-12-70-02	129	0.539
12-4 SOLID (BROWN/ORANGE/YELLOW/GRAY)	12 SOLID (GREEN)	68-95-70-01	68-95-70-02	155	0.539
10-2 SOLID (ORANGE/GRAY)	10 SOLID (GREEN)	55-11-67-01	55-11-67-02	150	0.542
10-2 SOLID (YELLOW/GRAY)	10 SOLID (GREEN)	61-05-22-01	61-05-22-02	150	0.542
10-2 SOLID (BROWN/GRAY)	10 SOLID (GREEN)	68-96-04-01	68-96-04-02	150	0.542
10-3 SOLID (BROWN/ORANGE/GRAY)	10 SOLID (GREEN)	68-95-39-01	68-95-39-02	189	0.58
10-3 SOLID (BROWN/YELLOW/GRAY)	10 SOLID (GREEN)	61-05-50-01	61-05-50-02	189	0.58
10-4 SOLID (BROWN/ORANGE/YELLOW/GRAY)	10 SOLID (GREEN)	68-94-14-01	68-94-14-02	229	0.623
10-4 SOLID (BROWN/ORANGE/YELLOW/GRAY)	10 SOLID (GREEN)	68-94-14-01	68-94-14-02	229	0.623
For allowable ampacities, refer to NEC 310.15. Available in sizes up to 750 kcmil.					

ARMORLITE® TYPE MC

CONDUCTOR SIZE AND COLORS	GROUNDING SIZE AND COLOR	STOCK NUMBER		WEIGHT (LBS/1000')	OVERALL DIAMETER (INCHES)
		COIL (250')	REEL (1000')		
STRANDED CONDUCTOR COLORS 277/480V					
12-2 STRANDED (YELLOW/GRAY)	12 STRANDED (GREEN)	55-11-08-01	55-11-08-02	110	0.494
12-2 STRANDED (BROWN/GRAY)	12 STRANDED (GREEN)	55-11-10-01	55-11-10-02	110	0.494
12-2 STRANDED (ORANGE/GRAY)	12 STRANDED (GREEN)	55-11-12-01	55-11-12-02	110	0.494
12-3 STRANDED (BROWN/YELLOW/GRAY)	12 STRANDED (GREEN)	55-11-60-01	55-11-60-02	134	0.537
12-3 STRANDED (BROWN/ORANGE/GRAY)	12 STRANDED (GREEN)	55-11-14-01	55-11-14-02	134	0.537
12-4 STRANDED (BROWN/ORANGE/YELLOW/GRAY)	12 STRANDED (GREEN)	55-11-22-01	55-11-22-02	164	0.564
10-2 STRANDED (BROWN/GRAY)	10 STRANDED (GREEN)	55-12-76-01	55-12-76-02	159	0.566
10-3 STRANDED (BROWN/ORANGE/GRAY)	10 STRANDED (GREEN)	55-11-21-01	55-11-21-02	201	0.607
10-4 STRANDED (BROWN/ORANGE/YELLOW/GRAY)	10 STRANDED (GREEN)	55-12-78-01	55-12-78-02	242	0.653
INTERMEDIATE CONDUCTOR COLORS 120/208V					
8-2 STRANDED (BLACK/WHITE)	10 STRANDED (GREEN)	68-70-95-01 (200')	68-70-95-02 (500')	231	0.644
8-2 STRANDED (RED/WHITE)	10 STRANDED (GREEN)	55-11-75-01 (200')		231	0.644
8-2 STRANDED (BLUE/WHITE)	10 STRANDED (GREEN)	55-11-77-01 (200')		231	0.644
8-3 STRANDED (BLACK/WHITE/RED)	10 STRANDED (GREEN)	68-71-37-01 (200')	68-71-37-02 (500')	299	0.678
8-3 STRANDED (RED/BLUE/WHITE)	10 STRANDED (GREEN)	55-11-80-01 (200')		299	0.678
8-4 STRANDED (BLACK/WHITE/RED/BLUE)	10 STRANDED (GREEN)	68-72-10-04 (200')	68-72-10-02 (500')	378	0.793
6-2 STRANDED (BLACK/WHITE)	8 STRANDED (GREEN)	68-71-03-01 (125')	68-71-03-02 (500')	312	0.716
6-3 STRANDED (BLACK/WHITE/RED)	8 STRANDED (GREEN)	68-71-45-01 (125')	68-71-45-02 (500')	442	0.819
6-4 STRANDED (BLACK/WHITE/RED/BLUE)	8 STRANDED (GREEN)	68-72-51-01 (100')	68-72-51-02 (500')	546	0.890
4-3 STRANDED (BLACK/WHITE/RED)	8 STRANDED (GREEN)	68-71-52-01 (100')	68-71-52.02 (500')	635	0.986
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	0.644
8-2 STRANDED (YELLOW/GRAY)	10 STRANDED (GREEN)		55-11-74-99	231	0.644
8-2 STRANDED (ORANGE/GRAY)	10 STRANDED (GREEN)	55-11-73-01 (200')		231	0.644
8-3 STRANDED (BROWN/ORANGE/GRAY)	10 STRANDED (GREEN)	55-11-78-03 (500')	55-11-78-02 (1000')	299	0.678
8-3 STRANDED (BROWN/YELLOW/GRAY)	10 STRANDED (GREEN)	55-11-79-01 (200')		299	0.678
6-2 STRANDED (BROWN/GRAY)	8 STRANDED (GREEN)	55-03-75-01 (1000')	55-03-75-99	333	0.716
6-2 STRANDED (YELLOW/GRAY)	8 STRANDED (GREEN)	56-12-35-01 (1000')		333	0.716
6-3 STRANDED (BROWN/ORANGE/GRAY)	8 STRANDED (GREEN)	55-35-41-02 (500')	55-35-41-03 (1000')	441	0.819
6-3 STRANDED (BROWN/ORANGE/YELLOW)	8 STRANDED (GREEN)	55-60-46-03 (1000')	55-60-46-99	441	0.819
6-4 STRANDED (BROWN/ORANGE/YELLOW/GRAY)	8 STRANDED (GREEN)	55-25-78-02 (500')	55-25-78-01 (1000')	545	0.89
4-3 STRANDED (BROWN/ORANGE/YELLOW)	8 STRANDED (GREEN)	55-64-78-03 (1000')	55-64-78-99	635	0.985
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.					

ARMORLITE® TYPE MC

NEC TABLE 310.15(B)(16)- ALLOWABLE AMPACITY FOR 600V CONDUCTORS

SIZE AWG OR KCMIL	TEMPERATURE RATING OF CONDUCTOR		
	60°C (140°F) TYPES: TW, UF	75°C (167°F) TYPES: RHW, THHW, THW, THWN, XHHW, USE, ZW	90°C (194°F) 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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ARMORLITE® TYPE MC PVC JACKETED

UL LISTED

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

APPLICATIONS

Suitable for use as follows:

- Suitable for Wet Location per NEC 330.10(11)
- Direct burial applications, embedded 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.
- Installation in cable tray, approved raceways, or as aerial cable on a messenger.
- 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's Armorlite® Type MC Cable – PVC Jacketed meets or exceeds the following requirements:

- UL 83, 1569, and 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 - PVC Jacketed is constructed with soft-drawn, copper Type THHN/THWN conductors rated 90°C dry/ 75°C wet, and a green insulated grounding conductor. The conductors are cabled together and a binder tape is wrapped around the assembly. Aluminum interlocking armor is applied over the assembly. A black sunlight resistant, flame retardant PVC jacket is applied over the armor. Print legend is included on the binder tape as well as the overall PVC jacket. The jacket is available in other colors upon request subject to economic order quantities.

FEATURES

- Reduces installation costs up to 50% over pipe and wire.
- 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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ARMORLITE® TYPE MC PVC JACKETED

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)	61-00-37-01	61-00-3702	122	0.539
14-3 SOLID (BLACK/WHITE/RED)	14 SOLID (GREEN)	61-00-41-01	61-00-41-02	142	0.565
14-4 SOLID (BLACK/WHITE/RED/BLUE)	14 SOLID (GREEN)	61-00-45-01	61-00-45-02	162	0.594
12-2 SOLID (BLACK/WHITE)	12 SOLID (GREEN)	61-00-50-01	61-00-50-02	152	0.575
12-2 SOLID (RED/WHITE)	12 SOLID (GREEN)		56-10-41-02	152	0.575
12-2 SOLID (BLUE/WHITE)	12 SOLID (GREEN)		56-10-45-02	152	0.575
12-3 SOLID (BLACK/WHITE/RED)	12 SOLID (GREEN)	61-00-54-01	61-00-54-02	180	0.605
12-4 SOLID (BLACK/WHITE/RED/BLUE)	12 SOLID (GREEN)	61-00-59-01	61-00-59-02	209	0.639
10-2 SOLID (BLACK/WHITE)	10 SOLID (GREEN)	61-00-64-03	61-00-64-02	204	0.642
10-2 SOLID (RED/WHITE)	10 SOLID (GREEN)		56-10-48-02	204	0.642
10-2 SOLID (BLUE/WHITE)	10 SOLID (GREEN)		56-10-52-02	204	0.642
10-3 SOLID (BLACK/WHITE/RED)	10 SOLID (GREEN)	61-00-68-03	61-00-68-02	247	0.68
10-4 SOLID (BLACK/WHITE/RED/BLUE)	10 SOLID (GREEN)	61-00-74-01	61-00-74-02	291	0.723
SOLID CONDUCTOR COLORS 277/480V					
14-3 SOLID (BROWN/ORANGE/GRAY)	14 SOLID (GREEN)		59-64-66-02	142	0.565
12-2 SOLID (BROWN/GRAY)	12 SOLID (GREEN)	55-25-61-03	55-25-61-02	152	0.575
12-2 SOLID (ORANGE/GRAY)	12 SOLID (GREEN)		55-33-77-02	152	0.575
12-2 SOLID (YELLOW/GRAY)	12 SOLID (GREEN)	55-33-78-01	55-33-78-02	152	0.575
12-3 SOLID (BROWN/ORANGE/GRAY)	12 SOLID (GREEN)	55-25-63-01	55-25-63-02	180	0.605
12-3 SOLID (BROWN/YELLOW/GRAY)	12 SOLID (GREEN)		55-33-79-02	180	0.605
10-2 SOLID (BROWN/GRAY)	10 SOLID (GREEN)	55-39-76-01	55-39-76-02	204	0.642
10-2 SOLID (ORANGE/GRAY)	10 SOLID (GREEN)	55-33-73-01	55-33-73-02	204	0.642
10-2 SOLID (YELLOW/GRAY)	10 SOLID (GREEN)	55-36-68-01	55-36-68-02	204	0.642
10-3 SOLID (BROWN/ORANGE/GRAY)	10 SOLID (GREEN)		55-29-54-02	247	0.68
10-3 SOLID (BROWN/YELLOW/GRAY)	10 SOLID (GREEN)		55-33-75-02	247	0.68
10-4 SOLID (BROWN/ORANGE/YELLOW/GRAY)	10 SOLID (GREEN)	55-33-81-01	55-33-81-02	291	0.723
STRANDED CONDUCTOR COLORS 120/208V					
12-2 STRANDED (BLACK/WHITE)	12 STRANDED (GREEN)	56-14-39-01	56-14-39-02	160	0.595
12-3 STRANDED (BLACK/WHITE/RED)	12 STRANDED (GREEN)		56-72-74-02	188	0.637
12-4 STRANDED (BLACK/WHITE/RED/BLUE)	12 STRANDED (GREEN)		56-14-41-02	220	0.664
10-2 STRANDED (BLACK/WHITE)	10 STRANDED (GREEN)		55-28-08-02	215	0.67
10-2 STRANDED (RED/WHITE)	10 STRANDED (GREEN)		58-56-16-02	215	0.67
10-2 STRANDED (BLUE/WHITE)	10 STRANDED (GREEN)		58-16-13-02	215	0.67
10-3 STRANDED (BLACK/WHITE/RED)	10 STRANDED (GREEN)		55-36-31-02	261	0.707
10-4 STRANDED (BLACK/WHITE/RED/BLUE)	10 STRANDED (GREEN)		55-64-20-02	308	0.753
STRANDED CONDUCTOR COLORS 277/480V					
10-2 STRANDED (ORANGE/GRAY)	10 STRANDED (GREEN)		58-56-06-02	215	0.67
10-2 STRANDED (YELLOW/GRAY)	10 STRANDED (GREEN)		58-56-09-02	215	0.67
For allowable ampacities, refer to NEC 310.15. Also available as stranded conductors. Available in sizes up to 750 kcmil.					

ARMORLITE® TYPE MC PVC JACKETED

CONDUCTOR SIZE AND COLORS	GROUNDING SIZE AND COLOR	STOCK NUMBER		WEIGHT (LBS/1000')	OVERALL DIAMETER (INCHES)
		COIL (250')	REEL (1000')		
STRANDED CONDUCTOR COLORS 277/480V					
10-2 STRANDED (ORANGE/GRAY)	10 STRANDED (GREEN)		58-56-06-02	215	0.67
10-2 STRANDED (YELLOW/GRAY)	10 STRANDED (GREEN)		58-56-09-02	215	0.67
8-2 STRANDED (BLACK/WHITE)	10 STRANDED (GREEN)	61-00-73-01 (200')	61-00-73-02 (1000')	295	0.744
8-3 STRANDED (BLACK/WHITE/RED)	10 STRANDED (GREEN)		61-01-03-02 (1000')	366	0.778
8-4 STRANDED (BLACK/WHITE/RED/BLUE)	10 STRANDED (GREEN)		61-00-94-02 (1000')	411	0.893
6-2 STRANDED (BLACK/WHITE)	8 STRANDED (GREEN)	61-00-81-03 (500')	61-00-81-02 (1000')	411	0.856
6-3 STRANDED (BLACK/WHITE/RED)	8 STRANDED (GREEN)	61-00-84-04 (100')	61-00-84-03 (500')	521	0.919
6-4 STRANDED (BLACK/WHITE/RED/BLUE)	8 STRANDED (GREEN)		61-00-99-03 (500')	631	0.99
4-3 STRANDED (BLACK/WHITE/RED)	8 STRANDED (GREEN)		61-01-08-99	731	1.086
4-4 STRANDED (BLACK/WHITE/RED/BLUE)	8 STRANDED (GREEN)		61-00-90-99	903	1.177
3-3 STRANDED (BLACK/WHITE/RED)	6 STRANDED (GREEN)		55-42-85-99	887	1.153
3-4 STRANDED (BLACK/WHITE/RED/BLUE)	6 STRANDED (GREEN)		55-42-89-99	1096	1.252
2-3 STRANDED (BLACK/WHITE/RED)	6 STRANDED (GREEN)		61-01-12-99	1042	1.231
2-4 STRANDED (BLACK/WHITE/RED/BLUE)	6 STRANDED (GREEN)		55-56-38-99	1302	1.339

ARMORLITE® TYPE MC PVC JACKETED

NEC TABLE 310.15(B)(16)- ALLOWABLE AMPACITY FOR 600V CONDUCTORS

SIZE AWG OR KCMIL	TEMPERATURE RATING OF CONDUCTOR		
	60°C (140°F) TYPES: TW, UF	75°C (167°F) TYPES: RHW, THHW, THW, THWN, XHHW, USE, ZW	90°C (194°F) 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.			

Table is reprinted from NFPA 70-2014, the National Electric Code, ©2013 National Fire Protection Association, Quincy, Massachusetts 02269. This reprinted material is not the complete and official position of the National Fire Protection Association on the referenced subject, which is represented only by the standard in its entirety.

MC$^{AP®}$ TYPE MC ALL PURPOSE

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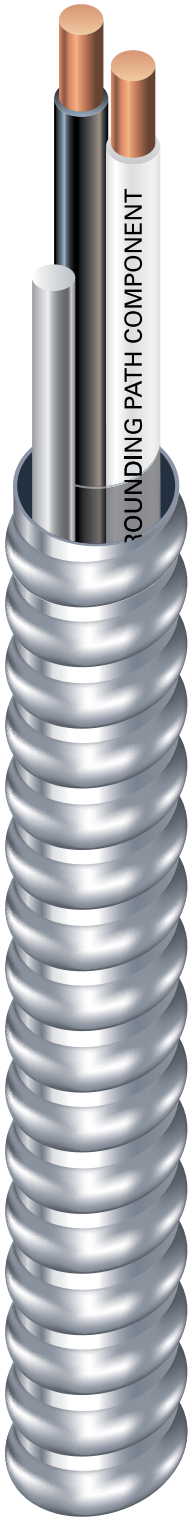

14 AWG through 8 AWG Copper THHN Insulated Conductors. Full-Sized Aluminum Equipment Grounding/Bonding Conductor. UL Listed. 600 Volt. Rated VW1. Lightweight Aluminum Interlocked Armor is Part of Equipment Bonding/Grounding Path.

APPLICATIONS

Southwire MC$^{AP®}$ Type MC Cable - All Purpose is suitable for use as follows:

- Wherever standard AC or MC Cable is permitted.
- Branch circuit wiring 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).
- Use UL Listed Type MCI-A connectors

STANDARDS & REFERENCES

Southwire MC$^{AP®}$ Type MC Cable meets or exceeds the following:

- UL 83
- UL 1569
- UL 1063
- UL Online Product Guide Info - Metal-Clad Cable (PJAZ) (www.ul.com)
- NFPA 70 (National Electrical Code), Article 330
- Federal Specification A-A59544 (formerly J-C-30B)
- FT4/IEEE 1202 (70,000 Btu/hr) Vertical Cable Tray Flame Test
- Listed for use in UL 1, 2, and 3 Hour Through-Penetration Firestop Systems
- REACH/RoHS-2 (Chemical Limit) Compliant

CONSTRUCTION

Southwire MC$^{AP®}$ Type MC Cable is constructed with solid soft-drawn copper Type THHN circuit conductors rated 90ºC dry and a full-sized bare 8000 Series aluminum grounding/bonding conductor. This cable is available in sizes 14-8 AWG. The insulated conductors are cabled together and wrapped with a binder tape bearing the print legend. The bare aluminum grounding/bonding conductor is located outside the binding tape and has the same lay as the insulated conductors. Aluminum interlocking armor is snugly applied over the assembly. The aluminum armor and bare aluminum conductor are in intimate contact and together form the equipment ground path. To insure proper installation, refer to the installation instructions provided with every reel and coil.

FEATURES

- An armor assembly that is an equipment grounding conductor per NEC 250.118(10)(b).
- Installation instructions included with every reel and coil.
- Simplified product application and installation over other armored products.
- Faster conductor make-up, wiring device installation and trim-out when grounding bonding conductor is terminated per installation instructions.
- Reduces installation costs up to 50% over pipe and wire.
- 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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MC^AP® TYPE MC ALL PURPOSE

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)	12 SOLID ALUMINUM	55-52-72-01	55-52-72-02	63	0.375
14-3 SOLID (BLACK/WHITE/RED)	12 SOLID ALUMINUM	55-52-73-01	55-52-73-02	81	0.406
14-4 SOLID (BLACK/WHITE/RED/BLUE)	12 SOLID ALUMINUM	55-52-74-01	55-52-74-02	98	0.435
12-2 SOLID (BLACK/WHITE)	10 SOLID ALUMINUM	55-51-03-01	55-51-03-02	86	0.43
12-2 SOLID (RED/WHITE)	10 SOLID ALUMINUM	55-87-68-01	55-87-68-02	86	0.43
12-2 SOLID (BLUE/WHITE)	10 SOLID ALUMINUM	55-87-70-01	55-87-70-02	86	0.43
12-3 SOLID (BLACK/WHITE/RED)	10 SOLID ALUMINUM	55-51-04-01	55-51-04-02	111	0.447
12-4 SOLID (BLACK/WHITE/RED/BLUE)	10 SOLID ALUMINUM	55-51-05-01	55-51-05-02	137	0.48
10-2 SOLID (BLACK/WHITE)	8 SOLID ALUMINUM	55-52-75-01	55-52-75-02	124	0.485
10-3 SOLID (BLACK/WHITE/RED)	8 SOLID ALUMINUM	55-52-77-01	55-52-77-02	164	0.52
10-4 SOLID (BLACK/WHITE/RED/BLUE)	8 SOLID ALUMINUM	55-52-78-01	55-52-78-02	204	0.565
STRANDED CONDUCTOR COLORS 120/208V					
12-2 STRANDED (BLACK/WHITE)	10 SOLID ALUMINUM	55-63-77-01	55-63-77-02	90	0.437
12-2 STRANDED (RED/WHITE)	10 SOLID ALUMINUM	55-87-86-01	55-87-86-02	90	0.437
12-2 STRANDED (BLUE/WHITE)	10 SOLID ALUMINUM	55-87-88-01	55-87-88-02	90	0.437
12-3 STRANDED (BLACK/WHITE/RED)	10 SOLID ALUMINUM	55-64-57-01	55-64-57-02	118	0.468
12-4 STRANDED (BLACK/WHITE/RED/BLUE)	10 SOLID ALUMINUM	55-58-74-01	55-58-74-01	145	0.506
10-2 STRANDED (BLACK/WHITE)	8 SOLID ALUMINUM	55-73-87-01	55-73-87-02	130	0.508
10-3 STRANDED (BLACK/WHITE/RED)	8 SOLID ALUMINUM	55-73-90-01	55-73-90-02	173	0.548
SOLID CONDUCTOR COLORS 277/480V					
12-2 SOLID (YELLOW/GRAY)	10 SOLID ALUMINUM	55-55-39-01	55-55-39-02	86	0.43
12-2 SOLID (BROWN/GRAY)	10 SOLID ALUMINUM	55-57-26-01	55-57-26-02	86	0.43
12-2 SOLID (ORANGE/GRAY)	10 SOLID ALUMINUM	55-55-38-01	55-55-38-02	86	0.43
12-3 SOLID (BROWN/YELLOW/GRAY)	10 SOLID ALUMINUM	55-55-41-01	55-55-41-02	111	0.447
12-3 SOLID (BROWN/ORANGE/GRAY)	10 SOLID ALUMINUM	55-57-28-01	55-57-28-02	111	0.447
12-4 SOLID (BROWN/ORANGE/YELLOW/GRAY)	10 SOLID ALUMINUM	55-57-31-01	55-57-31-02	137	0.48
10-2 SOLID (BROWN/GRAY)	8 SOLID ALUMINUM	55-57-33-01	55-57-33-02	124	0.485
10-3 SOLID (BROWN/ORANGE/GRAY)	8 SOLID ALUMINUM	55-57-35-01	55-57-35-02	164	0.52
10-4 SOLID (BROWN/ORANGE/YELLOW/GRAY)	8 SOLID ALUMINUM	55-57-37-01	55-57-37-01	204	0.565
STRANDED CONDUCTOR COLORS 277/480V					
12-2 STRANDED (YELLOW/GRAY)	10 SOLID ALUMINUM	55-87-93-01	55-87-93-02	90	0.437
12-2 STRANDED (BROWN/GRAY)	10 SOLID ALUMINUM	55-87-43-01	55-87-43-02	90	0.437
12-2 STRANDED (ORANGE/GRAY)	10 SOLID ALUMINUM	55-87-90-01	55-87-90-02	90	0.437
12-3 STRANDED (BROWN/ORANGE/GRAY)	10 SOLID ALUMINUM	55-87-45-01	55-87-45-02	118	0.468
12-4 STRANDED (BROWN/ORANGE/YELLOW/GRAY)	10 SOLID ALUMINUM	55-87-47-01	55-87-47-02	145	0.506

For allowable ampacities, refer to NEC 310.15.
Dimensions are nominal and subject to normal manufacturing tolerances and should be used for reference purposes only.

MC^AP® TYPE MC ALL PURPOSE

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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HCF MC$^{AP®}$ TYPE MC ALL PURPOSE HOSPITAL CARE FACILITY

HCF MC$^{AP®}$ TYPE MC ALL PURPOSE HOSPITAL CARE FACILITY

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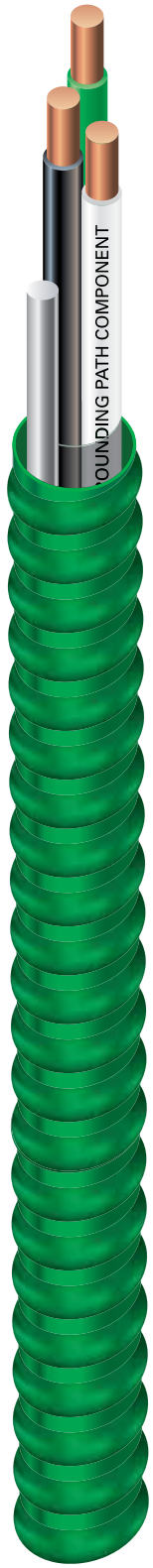

14 AWG through 8 AWG Copper THHN Insulated Conductors and Green Insulated Ground Conductor. Full-Sized Aluminum Equipment Grounding/Bonding Conductor. UL Listed. 600 Volts. Rated VW-1. Green Lightweight Aluminum Interlocked Armor is Part of Equipment Bonding/Grounding Path.

APPLICATIONS

Southwire HCF MC$^{AP®}$ Type MC Cable is suitable for use as follows:

- Branch-circuit wiring for patient care areas of hospitals, medical centers, and other health care facilities (when installed in accordance with NEC® Articles 517 and 330, and mechanically protected per Article 300.4). Such areas include nursing homes, dental offices, clinics, and outpatient facilities. Use in hazardous anesthetizing areas is prohibited.
- Applications requiring redundant, dedicated or isolated grounding paths.
- Environmental air-handling spaces per NEC® 300.22(C)
- Fished or embedded in plaster.
- 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).
- Use with UL Listed MCI-A fittings.

STANDARDS & REFERENCES

Southwire HCF MC$^{AP®}$ Type MC Cable fully meets or exceeds the following requirements:

- UL 83, 1569 and 1063
- UL Online Product Guide Info - Metal-Clad Cable (PJAZ) (www.ul.com)
- NFPA 70 (National Electrical Code), Article 330
- Federal Specification A-A59544 (formerly J-C-30B)
- IEEE 1202 (70,000 Btu/hr) Vertical Cable Tray Flame Test
- Listed for use in UL 1, 2, and 3 Hour Through-Penetration Firestop Systems
- REACH/RoHS-2 (Chemical Limit) Compliant

CONSTRUCTION

Southwire HCF MC$^{AP®}$ Type MC Cable is constructed with solid soft-drawn copper Type THHN circuit conductors (rated 90ºC dry), redundant grounding provided by an armor assembly comprised of interlocked armor with a bare aluminum grounding/ bonding conductor, and a green insulated copper grounding conductor. The insulated circuit and grounding conductors are cabled together and wrapped with a binder tape bearing the print legend. The bare aluminum grounding/bonding conductor is located outside the binding tape and has the same lay as the insulated conductors. Green Aluminum interlocked armor is snugly wrapped around the conductor assembly. To insure proper cable termination, refer to the installation instructions provided with every reel and coil.

FEATURES

- Meets UL Product Category PJAZ (Metal-Clad Cable) and provides redundant equipment grounding conductors (as defined in NEC® 250.118) as required in NEC® 517.13(A) & (B).
- Installation instructions included with every reel and coil.
- Simplified armored product application and installation.
- Reduces installation costs up to 50% over pipe and wire.
- Increased labor savings compared to Type AC HCF.
- Easy to identify green armor.
- 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 easeof installation.
- Armor ground path is approximately 3.5 times better than Type AC HCF Cable and is equivalent to a green insulated copper grounding conductor.

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HCF MC^AP® TYPE MC ALL PURPOSE HOSPITAL CARE FACILITY

CONDUCTOR SIZE AND COLORS	GROUNDING SIZE		STOCK NUMBER		WEIGHT (LBS/1000')	OVERALL DIAMETER (INCHES)
	INSULATED GROUND	BONDING GROUND	COIL (250')	REEL (1000')		
SOLID CONDUCTOR COLORS 120/208V						
14-2 SOLID (BLACK/WHITE)	14 SOLID (GREEN)	12 SOLID ALUMINUM	56-03-89-01	56-03-89-02	96	0.406
14-3 SOLID (BLACK/WHITE/RED)	14 SOLID (GREEN)	12 SOLID ALUMINUM	56-03-92-01	56-03-92-02	115	0.436
14-4 SOLID (BLACK/WHITE/RED/BLUE)	14 SOLID (GREEN)	12 SOLID ALUMINUM	56-03-94-01	56-03-94-02	134	0.466
12-2 SOLID (BLACK/WHITE)	12 SOLID (GREEN)	10 SOLID ALUMINUM	55-52-79-01	55-52-79-02	111	0.45
12-2 SOLID (RED/WHITE)	12 SOLID (GREEN)	10 SOLID ALUMINUM	55-93-20-01	55-93-20-02	111	0.45
12-2 SOLID (BLUE/WHITE)	12 SOLID (GREEN)	10 SOLID ALUMINUM	55-93-22-01	55-93-22-02	111	0.45
12-3 SOLID (BLACK/WHITE/RED)	12 SOLID (GREEN)	10 SOLID ALUMINUM	55-52-80-01	55-52-80-02	155	0.480
12-4 SOLID (BLACK/WHITE/RED/BLUE)	12 SOLID (GREEN)	10 SOLID ALUMINUM	55-52-81-01	55-52-81-02	183	0.515
10-2 SOLID (BLACK/WHITE)	10 SOLID (GREEN)	8 SOLID ALUMINUM	55-52-82-01	55-52-82-02	184	0.52
10-2 SOLID (RED/WHITE)	10 SOLID (GREEN)	8 SOLID ALUMINUM	56-08-36-01	56-08-36-02	184	0.52
10-2 SOLID (BLUE/WHITE)	10 SOLID (GREEN)	8 SOLID ALUMINUM	56-08-38-01	56-08-38-02	184	0.52
10-3 SOLID (BLACK/WHITE/RED)	10 SOLID (GREEN)	8 SOLID ALUMINUM	55-52-83-01	55-52-83-02	203	0.565
10-4 SOLID (BLACK/WHITE/RED/BLUE)	10 SOLID (GREEN)	8 SOLID ALUMINUM	55-52-85-01	55-52-85-02	278	0.670
STRANDED CONDUCTOR COLORS 120/208V						
12-2 STRANDED (BLACK/WHITE)	12 STRANDED (GREEN)	10 SOLID ALUMINUM	55-63-61-01	55-63-61-02	116	0.468
12-2 STRANDED (RED/WHITE)	12 STRANDED (GREEN)	10 SOLID ALUMINUM	55-87-22-01		116	0.468
12-2 STRANDED (BLUE/WHITE)	12 STRANDED (GREEN)	10 SOLID ALUMINUM	55-87-20-01		116	0.468
12-3 STRANDED (BLACK/WHITE/RED)	12 STRANDED (GREEN)	10 SOLID ALUMINUM	55-63-63-01	55-63-63-02	165	0.51
12-4 STRANDED (BLACK/WHITE/RED/BLUE)	12 STRANDED (GREEN)	10 SOLID ALUMINUM	55-93-61-01	55-93-61-02	194	0.54
10-2 STRANDED (BLACK/WHITE)	10 STRANDED (GREEN)	8 SOLID ALUMINUM	56-07-98-01	56-07-98-02	170	0.549
10-3 STRANDED (BLACK/WHITE/RED)	10 STRANDED (GREEN)	8 SOLID ALUMINUM	56-08-00-01	56-08-00-02	212	0.589
SOLID CONDUCTOR COLORS 277/480V						
12-2 SOLID (YELLOW/GRAY)	12 SOLID (GREEN)	10 SOLID ALUMINUM	55-55-44-01	55-55-44-02	111	0.455
12-2 SOLID (BROWN/GRAY)	12 SOLID (GREEN)	10 SOLID ALUMINUM	55-57-39-01	55-57-39-02	111	0.455
12-2 SOLID (ORANGE/GRAY)	12 SOLID (GREEN)	10 SOLID ALUMINUM	55-55-43-01	55-55-43-02	111	0.455
12-3 SOLID (BROWN/YELLOW/GRAY)	12 SOLID (GREEN)	10 SOLID ALUMINUM	55-58-33-01	55-58-33-02	155	0.48
12-3 SOLID (BROWN/ORANGE/GRAY)	12 SOLID (GREEN)	10 SOLID ALUMINUM	55-57-41-01	55-57-41-02	155	0.48
12-4 SOLID (BROWN/ORANGE/YELLOW/GRAY)	12 SOLID (GREEN)	10 SOLID ALUMINUM	55-57-43-01	55-57-43-02	183	0.515
10-2 SOLID (BROWN/GRAY)	10 SOLID (GREEN)	8 SOLID ALUMINUM	55-57-45-01	55-57-45-02	184	0.52
10-3 SOLID (BROWN/ORANGE/GRAY)	10 SOLID (GREEN)	8 SOLID ALUMINUM	55-57-47-01	55-57-47-02	203	0.565
10-4 SOLID (BROWN/ORANGE/YELLOW/GRAY)	10 SOLID (GREEN)	8 SOLID ALUMINUM	55-57-50-01	55-57-50-02	278	0.67
STRANDED CONDUCTOR COLORS 277/480V						
12-2 STRANDED (BROWN/GRAY)	12 STRANDED (GREEN)	10 SOLID ALUMINUM	55-87-24-01		116	0.468
12-2 STRANDED (ORANGE/GRAY)	12 STRANDED (GREEN)	10 SOLID ALUMINUM	56-09-77-01		116	0.468
12-3 STRANDED (BROWN/ORANGE/GRAY)	12 STRANDED (GREEN)	10 SOLID ALUMINUM	55-97-91-01		165	0.51
Consult NEC 310.15 for ampacities.						

HCF MC$^{AP®}$ TYPE MC ALL PURPOSE HOSPITAL CARE FACILITY

CONDUCTOR SIZE AND COLORS	GROUNDING SIZE		STOCK NUMBER	WEIGHT (LBS/1000')	OVERALL DIAMETER (INCHES)
	INSULATED GROUND	BONDING GROUND	REEL (1000')		
MC$^{AP®}$ HCF MULTIPLE NEUTRAL					
12-2 SOLID (BLACK/RED) 12-2 SOLID (WHITE-BLACK/ WHITE-RED)	12 SOLID (GREEN)	10 SOLID ALUMINUM	55-77-38-02 (1000')	162	0.514
12-3 SOLID (BLACK/RED/BLUE) 12-3 SOLID (WHITE-BLACK/WHITE- RED/WHITE-BLUE)	12 SOLID (GREEN)	10 SOLID ALUMINUM	56-08-34-02 (1000')	210	0.550
12-4 SOLID (BLACK/RED/BLUE/BLACK-WHITE) 12-4 SOLID (WHITE-BLACK/WHITE- RED/WHITE-BLUE/WHITE)	12 SOLID (GREEN)	10 SOLID ALUMINUM	56-72-24-02 (1000')	262	0.623
10-2 SOLID (BLACK/RED) 10-2 SOLID (WHITE-BLACK/ WHITE-RED)	10 SOLID (GREEN)	8 SOLID ALUMINUM	56-72-26-02 (1000')	245	0.601
10-3 SOLID (BLACK/RED/BLUE) 10-3 SOLID (WHITE-BLACK/WHITE- RED/WHITE-BLUE)	10 SOLID (GREEN)	8 SOLID ALUMINUM	56-27-16-02 (1000')	327	0.700
10-4 SOLID (BLACK/RED/BLUE/BLACK-WHITE) 10-4 SOLID (WHITE-BLACK/WHITE- RED/WHITE-BLUE/WHITE)	10 SOLID (GREEN)	8 SOLID ALUMINUM	56-72-28-02 (1000')	403	0.765
12-2 STRANDED (BLACK/RED) 12-2 STRANDED (WHITE-BLACK/ WHITE-RED)	12 STRANDED (GREEN)	10 SOLID ALUMINUM	56-72-38-02 (1000')	171	0.539
12-3 STRANDED (BLACK/RED/BLUE) 12-3 STRANDED (WHITE- BLACK/WHITE-RED/WHITE-BLUE)	12 STRANDED (GREEN)	10 SOLID ALUMINUM	56-72-36-02 (1000')	223	0.583
Consult NEC 310.15 for ampacities.					

HCF MC^AP® TYPE MC ALL PURPOSE HOSPITAL CARE FACILITY

NEC TABLE 310.15(B)(16)- ALLOWABLE AMPACITY FOR 600V CONDUCTORS

SIZE AWG OR KCMIL	TEMPERATURE RATING OF CONDUCTOR		
	60°C (140°F) TYPES: TW, UF	75°C (167°F) TYPES: RHW, THHW, THW, THWN, XHHW, USE, ZW	90°C (194°F) 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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PVC JACKETED HCF MC$^{AP®}$ TYPE MC ALL PURPOSE HOSPITAL CARE FACILITY

UL LISTED

14 AWG through 8 AWG Copper THHN Insulated Conductors and Green Insulated Ground Conductor. Full-Sized Aluminum Equipment Grounding/Bonding Conductor. UL Listed. 600 Volts. Rated VW-1. Green Lightweight Aluminum Interlocked Armor is Part of Equipment Bonding/ Grounding Path. Sunlight Resistant, Direct Burial Overall PVC Jacket.

APPLICATIONS

Southwire PVC Jacketed HCF MC$^{AP®}$ Type MC Cable is suitable for use as follows:

- Branch-circuit wiring for patient care areas of hospitals, medical centers, and other health care facilities (when installed in accordance with NEC® Articles 517 and 330, and mechanically protected per Article 300.4). Such areas include nursing homes, dental offices, clinics, and outpatient facilities. Use in hazardous anesthetizing areas is prohibited.
- Applications requiring redundant, dedicated or isolated grounding paths.
- Suitable for Wet Location per NEC 330.10(11)
- Direct burial applications, embedded in concrete, and where exposed to cinder fills, strong chlorides, caustic alkalis, or vapors of chlorine or of hydrochloric acids.
- Fished or embedded in plaster.
- 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).
- Use with UL Listed MCI-A fittings.

STANDARDS & REFERENCES

Southwire PVC Jacketed HCF MC$^{AP®}$ Type MC Cable fully meets or exceeds the following requirements:

- UL 83, 1569 and 1063
- UL Online Product Guide Info - Metal-Clad Cable (PJAZ) (www.ul.com)
- NFPA 70 (National Electrical Code), Article 330
- Federal Specification A-A59544 (formerly J-C-30B)
- IEEE 1202 (70,000 Btu/hr) Vertical Cable Tray Flame Test
- Listed for use in UL 1, 2, and 3 Hour Through-Penetration Firestop Systems
- REACH/RoHS-2 (Chemical Limit) Compliant

FEATURES

- Meets UL Product Category PJAZ (Metal-Clad Cable) and provides redundant equipment grounding conductors (as defined in NEC® 250.118) as required in NEC® 517.13(A) & (B).
- Simplified armored product application and installation.
- Reduces installation costs up to 50% over pipe and wire.
- Increased labor savings compared to Type AC HCF.
- Easy to identify green armor.
- 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 easeof installation.
- Armor ground path is approximately 3.5 times better than Type AC HCF Cable and is equivalent to a green insulated copper grounding conductor.

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PVC JACKETED HCF MC$^{AP®}$ TYPE MC ALL PURPOSE HOSPITAL CARE FACILITY

CONSTRUCTION

Southwire PVC Jacketed HCF MC$^{AP®}$ Type MC Cable is constructed with solid soft-drawn copper Type THHN circuit conductors (rated 90ºC dry), redundant grounding provided by an armor assembly comprised of interlocked armor with a bare aluminum grounding/ bonding conductor, and a green insulated copper grounding conductor. The insulated circuit and grounding conductors are cabled together and wrapped with a binder tape bearing the print legend. The bare aluminum grounding/bonding conductor is located outside the binding tape and has the same lay as the insulated conductors. Green Aluminum interlocked armor is snugly wrapped around the conductor assembly. A black sunlight resistant, flame retardant PVC jacket is applied over the armor. Print legend is included on the binder tape as well as the overall PVC jacket.

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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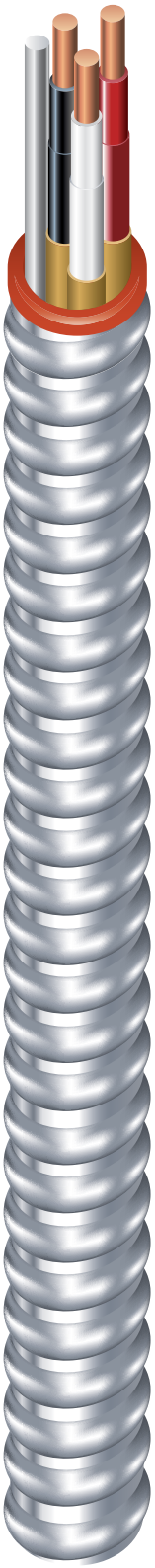
ARMORLITE® TYPE AC



14 AWG through 2 AWG THHN/THWN Insulated Singles Wrapped in Moisture-Resistant, Flame-Retardant Paper. 16 AWG Aluminum Bond Wire. UL Listed. 600 Volts. Rated VW-1. Lightweight Aluminum Interlocked Armor.

APPLICATIONS

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

- Branch, feeder and service power distribution in commercial, industrial, institutional, and multi-residential buildings.
- Dry locations only.
- Fished or embedded in plaster.
- Concealed or exposed installations.
- Environmental air-handling spaces per NEC 300.22(C).
- 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).

STANDARDS & REFERENCES

Southwire Armorlite® Type AC Cable meets or exceeds the following requirements:

- UL 4
- UL 83
- 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 320
- Listed for use in UL 1, 2, and 3 Hour Through-Penetration Firestop Systems
- REACH/RoHS-2 (Chemical Limit) Compliant

CONSTRUCTION

Southwire Armorlite® Type AC Cable is constructed with soft-drawn copper, Type THHN insulated conductors which are individually wrapped with a moisture-resistant, flame-retardant paper covering. Aluminum interlocking armor is applied over the assembly. A 16 AWG aluminum bond wire is placed inside the armor, runs longitudinally and is in intimate contact with the armor for its entire length.

FEATURES

- An armor assembly that is an equipment grounding conductor per NEC 250.118(10)(b).
- Installation instructions included with every reel and coil.
- Simplified product application and installation over other armored products.
- Faster conductor make-up, wiring device installation and trim-out when grounding bonding conductor is terminated perinstallation instructions.
- Reduces installation costs up to 50% over pipe and wire.
- 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 easeof installation.
- Anti-short bushings are not required for use with MC cable per the NEC and UL

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ARMORLITE® TYPE AC

CONDUCTOR SIZE AND COLORS	GROUNDING SIZE AND COLOR	STOCK NUMBER		WEIGHT (LBS/1000')	OVERALL DIAMETER (INCHES)
		COIL	REEL		
SOLID CONDUCTOR COLORS 120/208V					
14-2 SOLID (BLACK/WHITE)	16 SOLID ALUMINUM	61-02-93-01 (250')	61-02-93-02 (1000')	86	0.464
14-3 SOLID (BLACK/WHITE/RED)	16 SOLID ALUMINUM	61-02-94-01 (250')	61-02-94-02 (1000')	105	0.484
14-4 SOLID (BLACK/WHITE/RED/BLUE)	16 SOLID ALUMINUM	61-02-96-01 (250')	61-02-96-02 (1000')	124	0.517
12-2 SOLID (BLACK/WHITE)	16 SOLID ALUMINUM	61-02-31-01 (250')	61-02-31-02 (1000')	106	0.498
12-3 SOLID (BLACK/WHITE/RED)	16 SOLID ALUMINUM	61-02-32-01 (250')	61-02-32-02 (1000')	132	0.521
12-4 SOLID (BLACK/WHITE/RED/BLUE)	16 SOLID ALUMINUM	61-02-97-01 (250')	61-02-97-02 (1000')	161	0.557
10-2 SOLID (BLACK/WHITE)	16 SOLID ALUMINUM	61-02-98-01 (250')	61-02-98-01 (1000')	141	0.56
10-3 SOLID (BLACK/WHITE/RED)	16 SOLID ALUMINUM	61-02-99-01 (250')	61-02-99-02 (1000')	182	0.588
10-4 SOLID (BLACK/WHITE/RED/BLUE)	16 SOLID ALUMINUM	61-03-00-01 (250')	61-03-00-02 (1000')	225	0.632
STRANDED CONDUCTOR COLORS 120/208V					
8-2 STRANDED (BLACK/WHITE)	16 SOLID ALUMINUM	89-06-07-01 (200')	89-06-07-02 (500')	211	0.686
8-3 STRANDED (BLACK/WHITE/RED)	16 SOLID ALUMINUM	89-06-08-01 (200')	89-06-08-02 (500')	319	0.834
8-4 STRANDED (BLACK/WHITE/RED/BLUE)	16 SOLID ALUMINUM	89-06-90-03 (200')	89-06-90-02 (500')	395	0.895
6-2 STRANDED (BLACK/WHITE)	16 SOLID ALUMINUM	89-06-91-01 (125')	89-06-91-02 (500')	326	0.868
6-3 STRANDED (BLACK/WHITE/RED)	16 SOLID ALUMINUM	89-06-92-04 (100')	89-06-92-02 (500')	432	0.912
6-4 STRANDED (BLACK/WHITE/RED/BLUE)	16 SOLID ALUMINUM	89-06-93-01 (100')	89-06-93-02 (500')	543	0.981
4-3 STRANDED (BLACK/WHITE/RED)	16 SOLID ALUMINUM	89-06-95-02 (100')	89-06-95-01 (500')	633	1.061
4-4 STRANDED (BLACK/WHITE/RED/BLUE)	16 SOLID ALUMINUM		89-06-96-01 (500')	806	1.15
3-3 STRANDED (BLACK/WHITE/RED)	16 SOLID ALUMINUM	55-32-75-01 (100')	55-32-75-02 (500')	754	1.121
3-4 STRANDED (BLACK/WHITE/RED/BLUE)	16 SOLID ALUMINUM	55-32-78-01 (100')	55-32-78-02 (500')	965	1.216
2-3 STRANDED (BLACK/WHITE/RED)	16 SOLID ALUMINUM	89-06-98-02 (100')	89-06-98-01 (500')	906	1.190
2-4 STRANDED (BLACK/WHITE/RED/BLUE)	16 SOLID ALUMINUM	89-06-99-01 (100')	89-06-99-03 (500')	1164	1.293
Consult NEC 310.15 for ampacities. Additional constructions available by request.					

ARMORLITE® TYPE AC

NEC TABLE 310.15(B)(16)- ALLOWABLE AMPACITY FOR 600V CONDUCTORS

SIZE AWG OR KCMIL	TEMPERATURE RATING OF CONDUCTOR		
	60°C (140°F) TYPES: TW, UF	75°C (167°F) TYPES: RHW, THHW, THW, THWN, XHHW, USE, ZW	90°C (194°F) 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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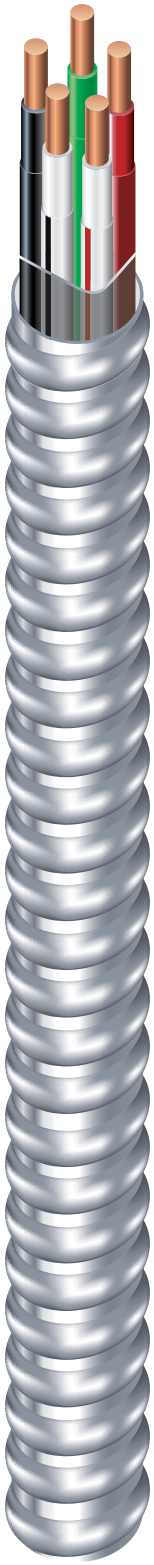
ARMORLITE® TYPE MC NEUTRAL PER PHASE

UL LISTED



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

APPLICATIONS

Southwire Armorlite® Type MC Cable – Neutral Per Phase 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.
- Compliance with NEC 210.7 for multiple branch circuits.
- 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 – Neutral Per Phase 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 – Neutral Per Phase is constructed with solid soft-drawn copper Type THHN/THWN phase conductors, a dedicated neutral per phase conductor, and an insulated copper grounding conductor. The conductors are cabled together and a binder tape bearing the print legend is applied over the conductors. Aluminum interlocking armor is applied over the cable assembly. An optional overall PVC jacket can be applied over the armor.

FEATURES

- A dedicated neutral conductor for each phase conductor for compliance with NEC 210.7.
- 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 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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ARMORLITE® TYPE MC NEUTRAL PER PHASE

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 (ONE GROUND)					
12/2 SOLID (BLACK/RED) 12/2 SOLID (WHITE-BLACK/WHITE-RED)	12 SOLID (GREEN)	55-49-91-01	55-49-91-03	155	0.539
12/3 SOLID (BLACK/RED/BLUE) 12/3 SOLID (WHITE-BLACK/WHITE- RED/WHITE-BLUE)	12 SOLID (GREEN)	55-49-90-01	55-49-90-03	203	0.574
10/2 SOLID (BLACK/RED) 10/2 SOLID (WHITE-BLACK/WHITE-RED)	10 SOLID (GREEN)	56-70-63-01	56-70-63-02	229	0.623
10/3 SOLID (BLACK/RED/BLUE) 10/3 SOLID (WHITE-BLACK/WHITE- RED/WHITE-BLUE)	10 SOLID (GREEN)	55-62-59-01	55-62-59-02	304	0.668
SOLID CONDUCTOR COLORS 277/480V (ONE GROUND)					
12/2 SOLID (BROWN/ORANGE) 12/2 SOLID (GRAY-BROWN/ GRAY-ORANGE)	12 SOLID (GREEN)	58-08-20-01	58-08-20-02	155	0.539
12/3 SOLID (BROWN/ORANGE/YELLOW) 12/3 SOLID (GRAY-BROWN/ GRAY-ORANGE/GRAY-YELLOW)	12 SOLID (GREEN)	56-71-38-01	56-71-38-03	203	0.574
10/2 SOLID (BROWN/ORANGE) 10/2 SOLID (GRAY-BROWN/ GRAY-ORANGE)	12 SOLID (GREEN)	57-39-30-01	57-39-30-02	229	0.623
10/3 SOLID (BROWN/ORANGE/YELLOW) 10/3 SOLID (GRAY-BROWN/ GRAY-ORANGE/GRAY-YELLOW)	12 SOLID (GREEN)	57-39-28-01	57-39-28-02	304	0.668
STRANDED CONDUCTOR COLORS 120/208V (ONE GROUND)					
12/2 STRANDED (BLACK/RED) 12/2 STRANDED (WHITE-BLACK/ WHITE-RED)	12 STRANDED (GREEN)	56-68-01-01	56-68-01-02	178	0.564
12/3 STRANDED (BLACK/RED/BLUE) 12/3 STRANDED (WHITE-BLACK/WHITE- RED/WHITE-BLUE)	12 STRANDED (GREEN)	56-26-87-01	56-26-87-02	217	0.602
10/2 STRANDED (BLACK/RED) 10/2 STRANDED (WHITE-BLACK/ WHITE-RED)	10 STRANDED (GREEN)		56-38-22-02	245	0.653
10/3 STRANDED (BLACK/RED/BLUE) 10/3 STRANDED (WHITE-BLACK/WHITE- RED/WHITE-BLUE)	10 STRANDED (GREEN)	56-24-56-01	56-24-56-02	324	0.701
STRANDED CONDUCTOR COLORS 277/480V (ONE GROUND)					
12/2 STRANDED (BROWN/ORANGE) 12/2 STRANDED (GRAY-BROWN/ GRAY-ORANGE)	12 STRANDED (GREEN)	58-65-85-01	58-65-85-02	178	0.564
12/3 STRANDED (BROWN/ORANGE/YELLOW) 12/3 STRANDED (GRAY-BROWN/ GRAY-ORANGE/GRAY-YELLOW)	12 STRANDED (GREEN)	58-77-48-01	58-77-48-02	217	0.602
10/2 STRANDED (BROWN/ORANGE) 10/2 STRANDED (GRAY-BROWN/ GRAY-ORANGE)	10 STRANDED (GREEN)	58-71-81-02	58-71-81-01	245	0.653
10/3 STRANDED (BROWN/ORANGE/YELLOW) 10/3 STRANDED (GRAY-BROWN/ GRAY-ORANGE/GRAY-YELLOW)	10 STRANDED (GREEN)	58-78-10-01	58-78-10-02	324	0.701
SOLID CONDUCTOR COLORS 120/208V (TWO GROUNDS)					
12/2 SOLID (BLACK/RED) 12/2 SOLID (WHITE-BLACK/WHITE-RED)	12 SOLID (GREEN) 12 SOLID (GREEN- YELLOW)	61-06-66-01	61-06-66-02	180	0.574
12/3 SOLID (BLACK/RED/BLUE) 12/3 SOLID (WHITE-BLACK/WHITE- RED/WHITE-BLUE)	12 SOLID (GREEN) 12 SOLID (GREEN- YELLOW)	61-06-69-01	61-06-69-02	230	0.611
10/2 SOLID (BLACK/RED) 10/2 SOLID (WHITE-BLACK/WHITE-RED)	10 SOLID (GREEN) 10 SOLID (GREEN- YELLOW)	64-12-20-01	64-12-20-02	271	0.668
10/3 STRANDED (BLACK/RED/BLUE) 10/3 STRANDED (WHITE-BLACK/WHITE- RED/WHITE-BLUE)	10 SOLID (GREEN) 10 SOLID (GREEN- YELLOW)	61-06-73-04	61-06-73-02	367	0.714
STRANDED CONDUCTOR COLORS 120/208V (TWO GROUNDS)					
12/2 STRANDED (BLACK/RED) 12/2 STRANDED (WHITE-BLACK/ WHITE-RED)	12 STRANDED (GREEN) 12 STRANDED (GREEN-YELLOW)	55-13-22-01	55-13-22-02	189	0.574
12/3 STRANDED (BLACK/RED/BLUE) 12/3 STRANDED (WHITE-BLACK/WHITE- RED/WHITE-BLUE)	12 STRANDED (GREEN) 12 STRANDED (GREEN-YELLOW)	55-13-24-02	55-13-24-02	244	0.642
10/2 STRANDED (BLACK/RED) 10/2 STRANDED (WHITE-BLACK/ WHITE-RED)	10 STRANDED (GREEN) 10 STRANDED (GREEN-YELLOW)		58-66-36-02	306	0.701
10/3 STRANDED (BLACK/RED/BLUE) 10/3 STRANDED (WHITE-BLACK/WHITE- RED/WHITE-BLUE)	10 STRANDED (GREEN) 10 STRANDED (GREEN-YELLOW)	55-13-36-01	55-13-36-02	391	0.751
Consult NEC 310.15 for ampacities. Additional constructions available by request.					

ARMORLITE® TYPE MC NEUTRAL PER PHASE

NEC TABLE 310.15(B)(16)- ALLOWABLE AMPACITY FOR 600V CONDUCTORS

SIZE AWG OR KCMIL	TEMPERATURE RATING OF CONDUCTOR		
	60°C (140°F) TYPES: TW, UF	75°C (167°F) TYPES: RHW, THHW, THW, THWN, XHHW, USE, ZW	90°C (194°F) 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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ARMORLITE® TYPE MC PVC JACKETED NEUTRAL PER PHASE

14 AWG through 8 AWG Copper THHN/THWN Insulated Singles. Dedicated Neutral Conductor for Each Phase Conductor. Green Copper THHN Insulated Grounding Conductor. UL Listed. 600 Volts. Rated VW-1. Lightweight Aluminum Interlocked Armor. Sunlight Resistant, Direct Burial Rated Overall PVC Jacket.

APPLICATIONS

Southwire Armorlite® Type MC Cable –PVC Jacketed Neutral Per Phase 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.
- Suitable for Wet Location per NEC 330.10(11)
- Direct burial applications, embedded in concrete, and where exposed to cinder fills, strong chlorides, caustic alkalis, or vapors of chlorine or of hydrochloric acids.
- Fished or embedded in plaster.
- Concealed or exposed installations.
- Compliance with NEC 210.7 for multiple branch circuits.
- 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 – PVC Jacketed Neutral Per Phase 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 – PVC Jacketed Neutral Per Phase is constructed with solid soft-drawn copper Type THHN/THWN phase conductors, a dedicated neutral per phase conductor, and an insulated copper grounding conductor. The conductors are cabled together and a binder tape bearing the print legend is applied over the conductors. Aluminum interlocking armor is applied over the cable assembly. A black sunlight resistant, flame retardant PVC jacket is applied over the armor. Print legend is included on the binder tape as well as the overall PVC jacket.

FEATURES

- A dedicated neutral conductor for each phase conductor for compliance with NEC 210.7.
- Reduces installation costs up to 50% over pipe and wire.
- 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.
- Anti-short bushings are not required for use with MC cable per the NEC and UL

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ARMORLITE® TYPE MC PVC JACKETED NEUTRAL PER PHASE

CONDUCTOR SIZE AND COLORS	GROUNDING SIZE	STOCK NUMBER	WEIGHT (LBS/1000')	OVERALL DIAMETER (INCHES)
12/2 SOLID (BLACK/RED) 12/2 SOLID (WHITE-BLACK/WHITE-RED)	12 SOLID (GREEN)	55-62-87-02	206	0.639
Consult NEC 310.15 for ampacities. Additional constructions available by request.				

NEC TABLE 310.15(B)(16)- ALLOWABLE AMPACITY FOR 600V CONDUCTORS

SIZE AWG OR KCMIL	TEMPERATURE RATING OF CONDUCTOR		
	60°C (140°F) TYPES: TW, UF	75°C (167°F) TYPES: RHW, THHW, THW, THWN, XHHW, USE, ZW	90°C (194°F) 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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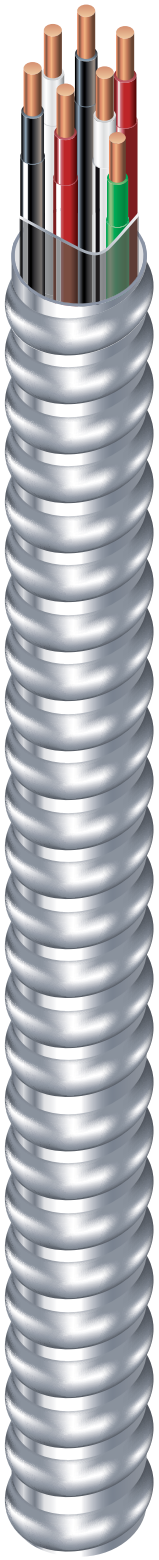
ARMORLITE® TYPE MC MULTI-CIRCUIT



14 AWG through 10 AWG Copper THHN/THWN Insulated Singles. Multiple Circuits. Green Insulated Grounding Conductor. UL Listed. 600 Volts. Rated VW-1. Lightweight Aluminum Interlocked Armor.

APPLICATIONS

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

- Multiple circuits for 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's Armorlite® Type MC Cable - Multi-Circuit 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 - Multi-Circuit is constructed with 14 awg through 10 awg soft- drawn copper Type THHN/THWN conductors rated 90°C dry, 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 armored assembly.

FEATURES

- Reduces installation costs up to 50% over pipe and wire.
- 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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ARMORLITE® TYPE MC MULTI-CIRCUIT

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					
12-6 SOLID (BLACK/BLACK- WHITE/WHITE/WHITE- BLACK/RED/RED-WHITE)	12 SOLID (GREEN)	69-00-57-01 (250')	69-00-57-03 (1000')	205	0.574
12-8 SOLID (BLACK/BLACK- WHITE/WHITE/WHITE- BLACK/RED/RED-WHITE/BLUE/BLUE-WHITE)	12 SOLID (GREEN)	69-00-65-01 (250')	69-00-65-03 (1000')	256	0.647
12-12 SOLID (BLACK/BLACK- WHITE/WHITE/WHITE- BLACK/RED/RED- WHITE/BLUE/BLUE- WHITE/BLACK-RED/RED-BLACK/BLUE-RED/WHITE-RED)	12 SOLID (GREEN)	69-00-73-02 (500')	69-00-73-03 (1000')	379	0.742
10-6 SOLID (BLACK/BLACK- WHITE/WHITE/WHITE- BLACK/RED/RED-WHITE)	10 SOLID (GREEN)	55-29-70-02 (500')	55-29-70-03 (1000')	307	0.668
10-8 SOLID (BLACK/BLACK- WHITE/WHITE/WHITE- BLACK/RED/RED-WHITE/BLUE/BLUE-WHITE)	10 SOLID (GREEN)	69-00-81-02 (500')	69-00-81-03 (1000')	416	0.80
10-12 SOLID (BLACK/BLACK- WHITE/WHITE/WHITE- BLACK/RED/RED- WHITE/BLUE/BLUE- WHITE/BLACK-RED/RED-BLACK/BLUE-RED/WHITE-RED)	10 SOLID (GREEN)	55-29-86-03 (500')	55-29-86-02 (1000')	571	0.879
STRANDED CONDUCTOR COLORS 120/208V					
12-6 STRANDED (BLACK/BLACK- WHITE/WHITE/WHITE- BLACK/RED/RED-WHITE)	12 STRANDED (GREEN)	55-13-53-02 (500')	55-13-53-03 (1000')	218	0.602
12-8 STRANDED (BLACK/BLACK- WHITE/WHITE/WHITE- BLACK/RED/RED- WHITE/BLUE/BLUE-WHITE)	12 STRANDED (GREEN)	55-13-54-04 (500')	55-13-54-03 (1000')	273	0.680
12-12 STRANDED (BLACK/BLACK- WHITE/WHITE/WHITE- BLACK/RED/RED- WHITE/BLUE/BLUE- WHITE/BLACK-RED/RED- BLACK/BLUE-RED/WHITE-RED)	12 STRANDED (GREEN)	55-13-55-02 (500')	55-13-55-03 (1000')	403	0.782
10-6 STRANDED (BLACK/BLACK- WHITE/WHITE/WHITE- BLACK/RED/RED-WHITE)	10 STRANDED (GREEN)		55-32-38-03 (1000')	345	0.701
10-8 STRANDED (BLACK/BLACK- WHITE/WHITE/WHITE- BLACK/RED/RED- WHITE/BLUE/BLUE-WHITE)	10 STRANDED (GREEN)	"55-13-56-02 (500')	55-13-56-03 (1000')	437	0.799
Consult NEC 310.15 for ampacities. Other constructions available upon request.					

# OF CONDUCTORS	COLOR SEQUENCE	Color Coding 120/208Y
With Ground		
6		Black, Red, White, Black with White Stripe, Red with White Stripe, White with Black Stripe, Green Ground
8		Black, Red, Blue, White, Black with White Stripe, Red with White Stripe, Blue with White Stripe, White with Black Stripe, Green Ground
12		Black, Red, Blue, White, Black with White Stripe, Red with White Stripe, Blue with White Stripe, White with Black Stripe, Black with Red Stripe, Red with Black Stripe, Blue with Red Stripe, White with Red Stripe, Green Ground

ARMORLITE® TYPE MC MULTI-CIRCUIT

NEC TABLE 310.15(B)(16)- ALLOWABLE AMPACITY FOR 600V CONDUCTORS

SIZE AWG OR KCMIL	TEMPERATURE RATING OF CONDUCTOR		
	60°C (140°F) TYPES: TW, UF	75°C (167°F) TYPES: RHW, THHW, THW, THWN, XHHW, USE, ZW	90°C (194°F) 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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ARMORLITE® TYPE MC MULTI-CIRCUIT – PVC JACKETED

UL LISTED

14 AWG through 10 AWG Copper THHN/THWN Insulated Singles. Multiple Circuits. Green Insulated Grounding Conductor. UL Listed. 600 Volts. Rated VW-1. Lightweight Aluminum Interlocked Armor. Sunlight Resistant Overall PVC Jacket.

APPLICATIONS

Southwire Armorlite® Type MC Cable - Multi-Circuit PVC Jacketed is suitable for use as follows:

- Multiple circuits for branch, feeder and service power distribution in commercial, industrial, institutional, and multi-residential buildings.
- Suitable for Wet Location per NEC 330.10(11)
- Direct burial applications, embedded in concrete, and where exposed to cinder fills, strong chlorides, caustic alkalis, or vapors of chlorine or of hydrochloric acids.
- 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's Armorlite® Type MC Cable - Multi-Circuit PVC Jacketed 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 - Multi-Circuit PVC Jacketed is constructed with 14 awg through 10 awg soft-drawn copper Type THHN/THWN conductors rated 90°C dry, 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. A black sunlight resistant, flame retardant PVC jacket is applied over the armor. Print legend is included on the binder tape as well as the overall PVC jacket.

FEATURES

- Reduces installation costs up to 50% over pipe and wire.
- 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.
- Anti-short bushings are not required for use with MC cable per the NEC and UL

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ARMORLITE® TYPE MC MULTI-CIRCUIT – PVC JACKETED

CONDUCTOR SIZE AND COLORS	GROUNDING SIZE AND COLOR	STOCK NUMBER		WEIGHT (LBS/1000')	OVERALL DIAMETER (INCHES)
		COIL	REEL		
SOLID CONDUCTOR COLORS 120/208V					
"12-8 SOLID (BLACK/BLACK- WHITE/WHITE/WHITE-BLACK/RED/RED-WHITE/BLUE/BLUE-WHITE)"	12 SOLID (GREEN)				0.747
"10-8 SOLID (BLACK/BLACK- WHITE/WHITE/WHITE-BLACK/RED/RED-WHITE/BLUE/BLUE-WHITE)"	10 SOLID (GREEN)				0.90
Consult NEC Section 310.15 for ampacities.					

6 CONDUCTOR W/ GROUND	8 CONDUCTOR W/ GROUND	12 COUNDUCTOR W/ GROUND
BLACK	BLACK	BLACK
RED	RED	RED
WHITE	BLUE	BLUE
BLACK W/ WHITE STRIPE	WHITE	WHITE
RED W/ WHITE STRIPE	BLACK W/ WHITE STRIPE	BLACK W/ WHITE STRIPE
WHITE W/ BLACK STRIPE	RED W/ WHITE STRIPE	RED W/ WHITE STRIPE
GREEN GROUND	BLUE W/ WHITE STRIPE	BLUE W/ WHITE STRIPE
	WHITE W/ BLACK STRIPE	WHITE W/ BLACK STRIPE
	GREEN GROUND	BLACK W/ RED STRIPE
		RED W/ BLACK STRIPE
		BLUE W/ RED STRIPE
		WHITE W/ RED STRIPE
		GREEN GROUND

ARMORLITE® TYPE MC MULTI-CIRCUIT – PVC JACKETED

NEC TABLE 310.15(B)(16)- ALLOWABLE AMPACITY FOR 600V CONDUCTORS

SIZE AWG OR KCMIL	TEMPERATURE RATING OF CONDUCTOR		
	60°C (140°F) TYPES: TW, UF	75°C (167°F) TYPES: RHW, THHW, THW, THWN, XHHW, USE, ZW	90°C (194°F) 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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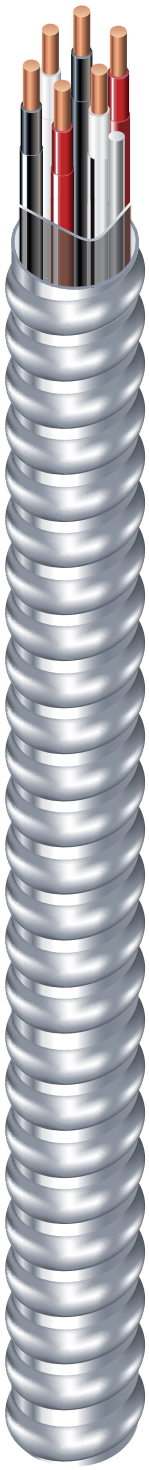
ARMORLITE® TYPE MC^AP® MULTI-CIRCUIT



14 AWG through 10 AWG Copper THHN/THWN Insulated Singles. Full-Sized Aluminum Equipment Grounding/Bonding Conductor. UL Listed. 600 Volts. Rated VW-1. Lightweight Aluminum Interlocked Armor is Part of Equipment Grounding/Bonding Path.

APPLICATIONS

Suitable for use as follows:

- Multiple circuits for branch, feeder and service power distribution in commercial, industrial, institutional, and multi-residential buildings.
- Fished or embedded in plaster.
- Concealed or exposed installations.
- Use with UL Listed MCI-A fittings.
- 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^AP® Cable - Multi-Circuit meets or exceeds these requirements:

- UL Standard 83
- UL Standard 1569 for Type MC
- UL Standard 1685
- UL Online Product Guide Info - Metal-Clad Cable (PJAZ) (www.ul.com)
- NFPA 70 (National Electrical Code), Article 330
- 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, and the National Electrical Code.
- Southwire Armorlite® Type MC Cable - "Multi-Circuit" is 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^AP® Cable - Multi-Circuit is constructed with soft-drawn, copper Type THHN/THWN conductors rated 90°C dry/75°C wet, available in sizes 14 AWG through 10 AWG, and full-sized aluminum equipment grounding/bonding conductor located outside binder tape that is in constant contact with the armor. 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. The aluminum armor and bare aluminum conductor are in intimate contact and together form the equipment ground path. To insure proper installation, refer to the installation instructions provided with every reel and coil.

FEATURES

- Reduces installation costs up to 50% over pipe and wire.
- Lightweight aluminum armor--as much as 45% lighter than steel MC Cable.
- 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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ARMORLITE® TYPE MC^AP® MULTI-CIRCUIT

CONDUCTOR SIZE AND COLORS	GROUNDING SIZE	STOCK NUMBER	WEIGHT (LBS/1000')	OVERALL DIAMETER (INCHES)
SOLID CONDUCTOR COLORS 120/208V				
12-6 SOLID (BLACK/BLACK-WHITE/WHITE/WHITE-BLACK/RED/RED-WHITE)	10 SOLID ALUMINUM (BARE)	56-72-46-02	181	0.516
12-8 SOLID (BLACK/BLACK-WHITE/WHITE/WHITE-BLACK/RED/RED-WHITE/BLUE/BLUE-WHITE)	10 SOLID ALUMINUM (BARE)	55-88-32-02	238	0.589
10-6 SOLID (BLACK/BLACK-WHITE/WHITE/WHITE-BLACK/RED/RED-WHITE)	8 SOLID ALUMINUM (BARE)	55-88-37-02	283	0.65
10-8 SOLID (BLACK/BLACK-WHITE/WHITE/WHITE-BLACK/RED/RED-WHITE/BLUE/BLUE-WHITE)	8 SOLID ALUMINUM (BARE)	56-72-58-02	363	0.701
STRANDED CONDUCTOR COLORS 120/208V				
12-6 STRANDED (BLACK/BLACK-WHITE/WHITE/WHITE-BLACK/RED/RED-WHITE)	10 SOLID ALUMINUM (BARE)	56-72-62-02	197	0.544
12-8 STRANDED (BLACK/BLACK-WHITE/WHITE/WHITE-BLACK/RED/RED-WHITE/BLUE/BLUE-WHITE)	10 SOLID ALUMINUM (BARE)	56-72-60-02	253	0.622
10-6 STRANDED (BLACK/BLACK-WHITE/WHITE/WHITE-BLACK/RED/RED-WHITE)	8 SOLID ALUMINUM (BARE)	56-72-67-02	297	0.643
10-8 STRANDED (BLACK/BLACK-WHITE/WHITE/WHITE-BLACK/RED/RED-WHITE/BLUE/BLUE-WHITE)	8 SOLID ALUMINUM (BARE)	56-72-65-02	384	0.741
Refer to NEC Section 310.15 for ampacities.				

# OF CONDUCTORS	With Ground	COLOR SEQUENCE	Color Coding 120/208Y
	6		Black, Red, White, Black with White Stripe, Red with White Stripe, White with Black Stripe, Bare Aluminum Ground
	8		Black, Red, Blue, White, Black with White Stripe, Red with White Stripe, Blue with White Stripe, White with Black Stripe, Bare Aluminum Ground
	12		Black, Red, Blue, White, Black with White Stripe, Red with White Stripe, Blue with White Stripe, White with Black Stripe, Black with Red Stripe, Red with Black Stripe, Blue with Red Stripe, White with Red Stripe, Bare Aluminum Ground

ARMORLITE® TYPE MC^AP® MULTI-CIRCUIT

NEC TABLE 310.15(B)(16)- ALLOWABLE AMPACITY FOR 600V CONDUCTORS

SIZE AWG OR KCMIL	TEMPERATURE RATING OF CONDUCTOR		
	60°C (140°F) TYPES: TW, UF	75°C (167°F) TYPES: RHW, THHW, THW, THWN, XHHW, USE, ZW	90°C (194°F) 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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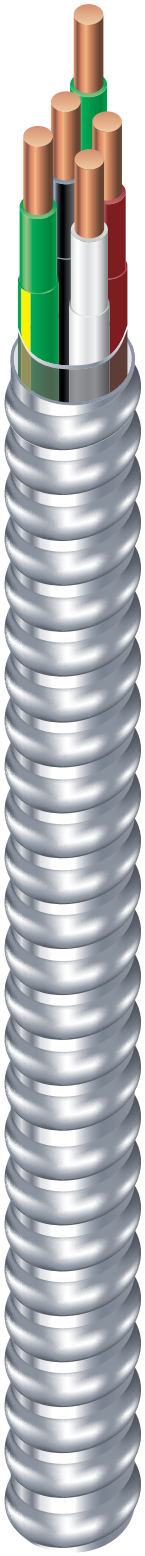
ARMORLITE® TYPE MC ISOLATED GROUND

LISTED



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.

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
- 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

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ARMORLITE® TYPE MC ISOLATED GROUND

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	0.505
12-2 SOLID (RED/WHITE)	12-2 SOLID (GREEN/GREEN-YELLOW)	55-63-23-01	55-63-23-02	129	0.505
12-2 SOLID (BLUE/WHITE)	12-2 SOLID (GREEN/GREEN-YELLOW)		55-63-25-02	129	0.505
12-3 SOLID (BLACK/RED/WHITE)	12-2 SOLID (GREEN/GREEN-YELLOW)	69-59-73-01	69-59-73-02	155	0.539
12-4 SOLID (BLACK/RED/BLUE/WHITE)	12-2 SOLID (GREEN/GREEN-YELLOW)	69-59-81-01	69-59-81-02	182	0.574
10-2 SOLID (BLACK/WHITE)	10-2 SOLID (GREEN/GREEN-YELLOW)	69-59-99-01	69-59-99-02	189	0.58
10-2 SOLID (RED/WHITE)	10-2 SOLID (GREEN/GREEN-YELLOW)	55-63-23-01	55-63-23-02	189	0.58
10-2 SOLID (BLUE/WHITE)	10-2 SOLID (GREEN/GREEN-YELLOW)		55-56-36-02	189	0.58
10-3 SOLID (BLACK/RED/WHITE)	10-2 SOLID (GREEN/GREEN-YELLOW)	69-60-05-01	69-60-05-02	229	0.623
10-4 SOLID (BLACK/RED/BLUE/WHITE)	10-2 SOLID (GREEN/GREEN-YELLOW)	69-60-13-01	69-60-13-02	271	0.668
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	0.527
12-3 STRANDED (BLACK/RED/WHITE)	12-2 STRANDED (GREEN/GREEN-YELLOW)	55-11-06-01	55-11-06-02	164	0.564
12-4 STRANDED (BLACK/RED/BLUE/WHITE)	12-2 STRANDED (GREEN/GREEN-YELLOW)	55-12-96-01	55-12-96-02	193	0.602
10-2 STRANDED (BLACK/WHITE)	10-2 STRANDED (GREEN/GREEN-YELLOW)	55-12-98-01	55-12-98-02	201	0.607
10-3 STRANDED (BLACK/RED/WHITE)	10-2 STRANDED (GREEN/GREEN-YELLOW)	55-13-02-01	55-13-02-02	243	0.653
10-4 STRANDED (BLACK/RED/BLUE/WHITE)	10-2 STRANDED (GREEN/GREEN-YELLOW)	55-13-04-01	55-13-04-02	287	0.701
For allowable ampacities, refer to NEC 310.15.					

ARMORLITE® TYPE MC ISOLATED GROUND

NEC TABLE 310.15(B)(16)- ALLOWABLE AMPACITY FOR 600V CONDUCTORS

SIZE AWG OR KCMIL	TEMPERATURE RATING OF CONDUCTOR		
	60°C (140°F) TYPES: TW, UF	75°C (167°F) TYPES: RHW, THHW, THW, THWN, XHHW, USE, ZW	90°C (194°F) 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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ARMORLITE® TYPE MC OVERSIZED NEUTRAL

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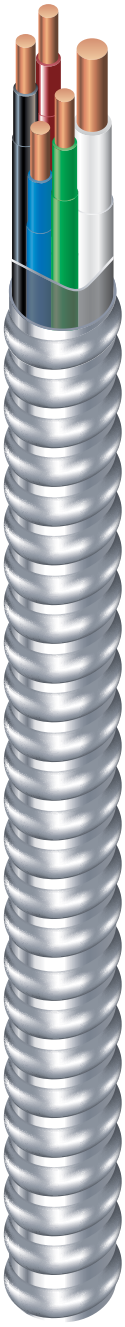

14 AWG through 8 AWG Copper THHN/THWN Insulated Singles. Oversized Neutral Conductor. Green Insulated Grounding Conductor. UL Listed. 600 Volts. Rated VW-1. Lightweight Aluminum Interlocked Armor.

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.

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 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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ARMORLITE® TYPE MC OVERSIZED NEUTRAL

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	0.521
12-2 SOLID (BLACK/RED) 10-1 SOLID (WHITE)	12 SOLID (GREEN)	69-08-59-01	69-08-59-02	147	0.558
12-3 SOLID (BLACK/RED/BLUE) 10-1 SOLID (WHITE)	12 SOLID (GREEN)	69-08-83-01	69-08-83-02	172	0.580
12-3 SOLID (BLACK/RED/BLUE) 8-1 SOLID (WHITE)	12 SOLID (GREEN)		69-09-17-02	203	0.628
12-4 SOLID (BLACK/RED/BLUE/ORANGE) 10-1 SOLID (WHITE)	12 SOLID (GREEN)	69-09-41-01	69-09-41-02	197	0.594
10-2 SOLID (BLACK/RED) 8-1 STRANDED (WHITE)	10 SOLID (GREEN)		69-09-74-02	223	0.656
10-3 SOLID (BLACK/RED/BLUE) 8-1 STRANDED (WHITE)	10 SOLID (GREEN)		69-10-06-02	257	0.628
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	0.817
10-4 SOLID (BLACK/RED/BLUE/PURPLE) 8-2 STRANDED (WHITE/WHITE-BLACK)	10-2 SOLID (GREEN/GREEN-YELLOW)		55-29-85-02	437	0.828
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	0.868
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	0.521
12-2 STRANDED (BLACK/RED) 10-1 STRANDED (WHITE)	12 STRANDED (GREEN)	55-13-20-01	55-13-20-02	154	0.558
12-3 STRANDED (BLACK/RED/BLUE) 10-1 STRANDED (WHITE)	12 STRANDED (GREEN)	55-13-26-01	55-13-26-02	180	0.58
12-3 STRANDED (BLACK/RED/BLUE) 8-1 STRANDED (WHITE)	12 STRANDED (GREEN)	55-13-28-01	55-13-28-02	208	0.628
12-4 STRANDED (BLACK/RED/BLUE/ORANGE) 10-1 STRANDED (WHITE)	12 STRANDED (GREEN)	55-13-30-01	55-13-30-02	207	0.594
10-2 STRANDED (BLACK/RED) 8-1 STRANDED (WHITE)	10 STRANDED (GREEN)		55-13-34-02	229	0.656
10-3 STRANDED (BLACK/RED/BLUE) 8-1 STRANDED (WHITE)	10 STRANDED (GREEN)		55-13-38-02	272	0.700
Sizes 8 AWG and larger will be stranded. Consult NEC 310.15 for ampacities. Additional constructions available by request.					

ARMORLITE® TYPE MC OVERSIZED NEUTRAL

NEC TABLE 310.15(B)(16)- ALLOWABLE AMPACITY FOR 600V CONDUCTORS

SIZE AWG OR KCMIL	TEMPERATURE RATING OF CONDUCTOR		
	60°C (140°F) TYPES: TW, UF	75°C (167°F) TYPES: RHW, THHW, THW, THWN, XHHW, USE, ZW	90°C (194°F) 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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RED ALERT® FIRE ALARM AND CONTROL

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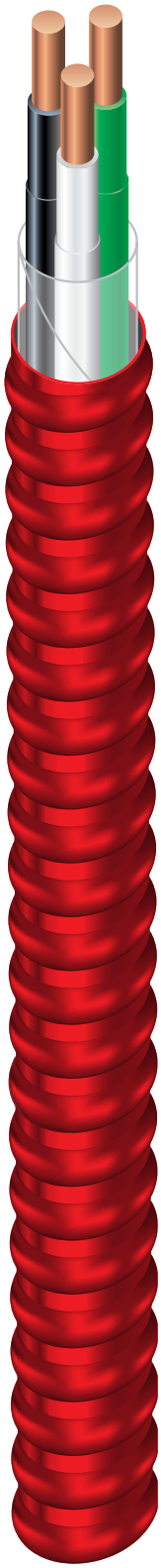

Sizes 14 & 12 AWG Type THHN/THWN Insulated Copper Singles. Sizes 18 & 16 AWG Type TFN Insulated Copper Singles. Green Insulated or Tinned Copper Grounding Conductor. UL Listed as Type MC and Type FPLP. 600 Volt Type MC and 300 Volt Type FPLP. Rated VW-1. Red Lightweight Aluminum Interlocked Armor.

APPLICATIONS

Red Alert® Type MC-FPLP Cable is suitable for use as follows:

- Wiring in Plenums, Ducts or Other Spaces Used for Environmental Air-Handling Purposes per NEC 300.22(C) & 760.135(C).
- Power-Limited and Non-Power Limited fire alarm circuits, including smoke detectors, bells, horns, fire alarm control panel equipment, and initiation and signaling devices.
- Class 1, Class 2, and Class 3 remote control, signaling, and power-limited circuits.
- Power, lighting, control, and signal circuits.
- Fished or embedded in plaster.
- Concealed or exposed installations.
- 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).

STANDARDS & REFERENCES

Red Alert® Type MC-FPLP Cable meets or exceeds the following requirements:

- UL 83
- UL 1063
- UL 1569
- UL 1424
- UL Online Product Guide Info - Metal-Clad Cable (PJAZ) (www.ul.com)
- NFPA 262-2002 Standard Method of Test For Flame and Smoke of Wire and Cables for Use in Air-Handling Spaces
- Federal Specification A-A59544 (formerly J-C-30B)
- IEEE 1202 (70,000 Btu/hr) Vertical Cable Tray Flame Test
- NFPA 70 (National Electric Code)
- Approved for the State of Rhode Island Fire Systems
- Listed for use in UL 1, 2, and 3 Hour Through-Penetration Firestop Systems
- REACH/RoHS-2 (Chemical Limit) Compliant

CONSTRUCTION

Red Alert® Type MC - FPLP Cable is constructed with soft-drawn copper conductors and insulated with flame-retardant and heat-resistant PVC with an outer oil- and gasoline-resistant nylon jacket. Type THHN/THWN conductors are provided for sizes 14 AWG and 12 AWG cables; Type TFN conductors are provided for sizes 18 AWG and 16 AWG cables. The circuit conductors and a green insulated grounding conductor are cabled together and a polypropylene tape is wrapped around the assembly. Upon request, an optional Film/Foil Aluminum Laminate Shielding Tape with a tinned copper drain wire/grounding conductor is wrapped over the conductor assembly. Aluminum interlocking armor Red in color is applied over the assembly. Multiple twisted (cabled) conductor pairs/groups with optional shield(s) are available. The cable is dual rated as 90°C dry, 600 Volt Type MC and 105°C dry, 300 Volt Type FPLP cable.

FEATURES

- Red Interlocked Armor for easy identification and systems separation.
- For use in Ducts, Plenums, or for environmental air handling spaces per NEC 300.22(C) and 760.135(C).
- Reduces installation costs up to 50% over pipe and wire.
- Lightweight aluminum armor--as much as 45% lighter than steel MC Cable.
- 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.
- Optional film/foil shields available with tinned copper drain wire.
- Optional twisted cable pairs or subgroups with optional shields and conductor colors.
- Anti-short bushings are not required for use with MC cable per the NEC and UL

RED ALERT® FIRE ALARM AND CONTROL

CONDUCTOR SIZE AND COLORS	GROUNDING SIZE AND COLOR	STOCK NUMBER		WEIGHT (LBS/1000')	OVERALL DIAMETER (INCHES)
		COIL (250')	REEL (1000')		
18-2 SOLID (BLACK/WHITE)	18 SOLID (GREEN)	55-46-86-02	55-46-86-03	59	0.391
18-4 SOLID (BLACK/WHITE/RED/BLUE)	18 SOLID (GREEN)	55-46-87-02	55-46-87-03	78	0.435
18-6 SOLID (BLACK/WHITE/RED/BLUE/BROWN/YELLOW)	18 SOLID (GREEN)	55-31-24-02	55-31-24-03	94	0.459
18-8 SOLID (BLACK/WHITE/RED/BLUE/BROWN/ YELLOW/GRAY/ORANGE)	18 SOLID (GREEN)	55-31-25-02	55-31-25-03	94	0.459
16-2 SOLID (BLACK/WHITE)	16 SOLID (GREEN)	55-46-88-02	55-46-88-03	71	0.41
16-4 SOLID (BLACK/WHITE/RED/BLUE)	16 SOLID (GREEN)	55-46-89-02	55-46-89-03	97	0.46
16-6 SOLID (BLACK/WHITE/RED/BLUE/BROWN/YELLOW)	16 SOLID (GREEN)	55-31-28-02	55-31-28-03	124	0.495
16-8 SOLID (BLACK/WHITE/RED/BLUE/BROWN/ YELLOW/GRAY/ORANGE)	16 SOLID (GREEN)		64-15-27-02	131	0.55
14-2 SOLID (BLACK/WHITE)	14 SOLID (GREEN)	55-46-90-02	55-46-90-03	88	0.44
14-4 SOLID (BLACK/WHITE/RED/BLUE)	14 SOLID (GREEN)	55-45-39-02	55-45-39-03	124	0.494
14-6 SOLID (BLACK/WHITE/RED/BLUE/BROWN/YELLOW)	14 SOLID (GREEN)	55-31-33-02	55-31-33-03	158	0.52
14-8 SOLID (BLACK/BLACK-WHITE/WHITE-BLACK/RED/RED- WHITE/BLUE/ BLUE-WHITE)	14 SOLID (GREEN)		55-31-34-03	195	0.57
12-2 SOLID (BLACK/WHITE)	12 SOLID (GREEN)	55-45-40-02	55-45-40-03	115	0.475
12-4 SOLID (BLACK/WHITE/RED/BLUE)	12 SOLID (GREEN)	55-45-41-02	55-45-41-03	168	0.539
TWISTED SHIELDED PAIR (1 PAIR)					
18-2 SOLID (BLACK/WHITE)	18 SOLID (TINNED COPPER)	55-45-49-02	55-45-49-03	57	0.386
16-2 SOLID (BLACK/WHITE)	16 SOLID (TINNED COPPER)	55-45-51-02	55-45-51-03	71	0.42
14-2 SOLID (BLACK/WHITE)	14 SOLID (TINNED COPPER)	55-45-52-02	55-45-52-03	84	0.42
12-2 SOLID (BLACK/WHITE)	12 SOLID (TINNED COPPER)	55-45-53-02	55-45-53-03	116	0.483
TWISTED SHIELDED PAIR (2 PAIR)					
18-2 SOLID (BLACK/WHITE/RED/BLUE)	18 SOLID (TINNED COPPER)	55-50-19-01	55-50-19-03	98	0.56
16-2 SOLID (BLACK/WHITE/RED/BLUE)	16 SOLID (TINNED COPPER)	55-50-20-01	55-50-20-03	124	626
14-2 SOLID (BLACK/WHITE/RED/BLUE)	14 SOLID (TINNED COPPER)	55-49-78-02	55-49-78-03	157	0.658
12-2 SOLID (BLACK/WHITE/RED/BLUE)	12 SOLID (TINNED COPPER)	55-31-81-02	55-31-81-03	214	0.747
RHODE ISLAND COLORS					
14-2 SOLID (BLACK/RED)	14 SOLID (GREEN)	55-45-37-02	55-45-37-03	88	0.439
14-2 SOLID (BLUE/WHITE)	14 SOLID (GREEN)	55-45-38-02	55-45-38-03	88	0.439
14-4 SOLID (BLACK/BLACK/RED/RED)	14 SOLID (GREEN)	55-47-57-02	55-45-57-03	115	0.483
COMPOSITE CABLE					
14-2 SOLID (BLACK/WHITE- UNSHIELDED) 16-2 SOLID (BLACK/WHITE- SHIELDED)	14 SOLID (GREEN) 16 SOLID (BARE)		55-45-42-03	144	0.656
14-2 SOLID (BLACK/WHITE- UNSHIELDED) 16-2 SOLID (RED/BLUE- UNSHIELDED)	14 SOLID (GREEN)		55-45-45-03	130	0.626
14-2 SOLID (BROWN/ORANGE- UNSHIELDED) 16-2 SOLID (BLACK/WHITE- UNSHIELDED)	14 SOLID (GREEN)		55-45-46-03	129	0.616
14-2 SOLID (BROWN/ORANGE- UNSHIELDED) 16-2 SOLID (RED/BLUE- SHIELDED)	14 SOLID (GREEN) 16 SOLID (BARE)		55-45-47-03	143	0.651
14-2 SOLID (BLACK/WHITE- SHIELDED) 18-2 SOLID (RED/BLUE- SHIELDED)	14 SOLID (BARE) 18 SOLID (BARE)		55-45-48-03	126	0.595
12-2 SOLID (BLACK/WHITE- UNSHIELDED) 16-2 SOLID (RED/BLUE- UNSHIELDED)	12 SOLID (GREEN) 16 SOLID (GREEN)		55-58-30-03	184	0.724
12-2 SOLID (BLACK/RED- SHIELDED) 16-2 SOLID (BLACK/WHITE- SHIELDED)	14 SOLID (GREEN) 16 SOLID (BARE)		55-55-76-02	170	0.682

Twisted Shielded Cable construction with an aluminum/polyester foil-film laminate, foil facing in, with a tinned copper drain wire.
Dual Twisted Shielded Pair Cable construction each with an aluminum/polyester foil-film laminate, foil facing in, with a tinned copper drain wire.
These cables are dual rated as Type MC/FPL cables. 6/C and 8/C constructions are NOT Plenum Rated.

RED ALERT® FIRE ALARM AND CONTROL

NEC TABLE 310.15(B)(16)- ALLOWABLE AMPACITY FOR 600V CONDUCTORS

SIZE AWG OR KCMIL	TEMPERATURE RATING OF CONDUCTOR		
	60°C (140°F) TYPES: TW, UF	75°C (167°F) TYPES: RHW, THHW, THW, THWN, XHHW, USE, ZW	90°C (194°F) 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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MC-PCS DUO™ POWER & CONTROL/SIGNAL CABLE

MC-PCS PCS DUO™ POWER & CONTROL/SIGNAL CABLE

Copper Power & Control/Signal Conductors. Power: 12 AWG & 10 AWG Copper THHN/THWN Insulated Singles. Signal: 16 AWG Copper TFN Insulated Singles. Green Copper THHN Insulated Ground. UL Listed. 600 Volts. Rated VW-1. Lightweight Aluminum Interlocked Armor. Southwire® MC-PCS Duo™ Cable meets the NEC and UL listing requirements for combining power/lighting circuits and Class 2 or Class 3 signal or control circuits in the same cable.

APPLICATIONS

MC-PCS Duo™ Cable is suitable for use as follows:

- Circuits for branch power distribution in commercial, industrial, institutional, and multi-residential buildings.
- Power, lighting, control, and signal circuits.
- LED lighting with 0-10V dimming.
- 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

MC-PCS Duo™ Cable meets or exceeds the requirements of:

- UL 83
- UL 1569 (Including new Sections 9.4, 40.1(q), and 41.1(r) as detailed in the latest UL 1569 CRD)
- UL 1685
- Federal Specification A-A59544 (formerly J-C-30B)
- NFPA 70 (National Electrical Code), Article 330 and 725.136(I)(1) & (2) as described in the latest UL 1569 CRD
- Listed for use in UL 1, 2 and 3 Hour Through Penetration Firestop Systems
- Passes both "UL Test" & "FT4/IEEE 1202" (70,000 Btu/hr) Vertical Cable Tray Flame Test
- REACH/RoHS-2 (Chemical Limit) Compliant

CONSTRUCTION

MC-PCS Duo™ Cable is constructed with 12 AWG or 10 AWG CU Type THHN/THWN power and ground conductors along with a control conductor assembly composed of a 30 mil PVC jacket covering two 16 AWG CU Type TFN control conductors. The phase conductors, ground, and control conductor assembly are cabled together and a binder tape bearing the print legend is wrapped around the assembly. Aluminum interlocking armor is applied over the taped assembly. Yellow stripe/blocks are printed on the outside of the armor and the print legend is applied in black print on every 4th yellow stripe/block. Also available with overall PVC jacket.

FEATURES

- Full compliance with NEC 330, NEC 725, and UL 1569
- 16 AWG signal wiring for 0-10V dimming.
- Circuit Identification printed directly on the armor
- Available in 250' coils, 1000' reels, barrels, boxes, or prefab assemblies
- 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 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 Type MC Cable per the NEC and UL.

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MC-PCS PCS DUO™ POWER & CONTROL/SIGNAL CABLE

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) 16-2 SOLID (PURPLE/PINK)	12 SOLID (GREEN)	59-22-40-01	59-22-40-02	147	0.608
12-2 SOLID (RED/WHITE) 16-2 SOLID (PURPLE/PINK)	12 SOLID (GREEN)	59-22-41-01	59-22-41-02	147	0.608
12-2 SOLID (BLUE/WHITE) 16-2 SOLID (PURPLE/PINK)	12 SOLID (GREEN)	59-22-43-01	59-22-43-02	147	0.608
12-3 SOLID (BLACK/RED/WHITE) 16-2 SOLID (PURPLE/PINK)	12 SOLID (GREEN)	59-22-51-01	59-22-51-02	173	0.643
10-2 SOLID (BLACK/WHITE) 16-2 SOLID (PURPLE/PINK)	10 SOLID (GREEN)	59-22-55-01	59-22-55-02	192	0.663
STRANDED CONDUCTOR COLORS 120/208V					
12-2 STRANDED (BLACK/WHITE) 16-2 SOLID (PURPLE/PINK)	12 STRANDED (GREEN)	59-22-59-01	59-22-59-02	153	0.623
12-3 STRANDED (BLACK/RED/WHITE) 16-2 SOLID (PURPLE/PINK)	12 STRANDED (GREEN)	59-23-18-01	59-23-18-02	181	0.698
SOLID CONDUCTOR COLORS 277/480V					
12-2 SOLID (BROWN/GRAY) 16-2 SOLID (PURPLE/PINK)	12 SOLID (GREEN)	59-22-45-01	59-22-45-02	147	0.58
12-2 SOLID (ORANGE/GRAY) 16-2 SOLID (PURPLE/PINK)	12 SOLID (GREEN)	59-22-47-01	59-22-47-02	147	0.58
12-2 SOLID (YELLOW/GRAY) 16-2 SOLID (PURPLE/PINK)	12 SOLID (GREEN)	59-22-49-01	59-22-49-02	147	0.58
12-3 SOLID (BROWN/ORANGE/GRAY) 16-2 SOLID (PURPLE/GRAY)	12 SOLID (GREEN)	59-22-53-01	59-22-53-02	173	0.62
10-2 SOLID (BROWN/GRAY) 16-2 SOLID (PURPLE/PINK)	10 SOLID (GREEN)	59-22-57-01	59-22-57-02	192	0.65
STRANDED CONDUCTOR COLORS 277/480V					
12-2 STRANDED (BROWN/GRAY) 16-2 SOLID (PURPLE/PINK)	12 STRANDED (GREEN)	59-22-61-01	59-22-61-02	153	0.623
12-3 STRANDED (BROWN/ORANGE/GRAY) 16-2 SOLID (PURPLE/PINK)	12 STRANDED (GREEN)	59-23-21-01	59-23-21-02	181	0.698
Consult NEC 310.15 for ampacities. Other constructions available upon request.					

MC-PCS PCS DUO™ POWER & CONTROL/SIGNAL CABLE

NEC TABLE 310.15(B)(16)- ALLOWABLE AMPACITY FOR 600V CONDUCTORS

SIZE AWG OR KCMIL	TEMPERATURE RATING OF CONDUCTOR		
	60°C (140°F) TYPES: TW, UF	75°C (167°F) TYPES: RHW, THHW, THW, THWN, XHHW, USE, ZW	90°C (194°F) 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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MC-PCS DUO™ PVC JACKETED POWER & CONTROL/SIGNAL CABLE

UL LISTED

Copper Power & Control/Signal Conductors. THHN/THWN & TFN Insulated Singles. Green Insulated Grounding Conductor. Power: 12 AWG & 10 AWG Copper THHN/THWN. Signal: 16 AWG Copper TFN. UL Listed. 600 Volts. Rated VW-1. Lightweight Aluminum Interlocked Armor with Overall PVC Jacket. Sunlight Resistant. Direct Burial. Southwire® PVC Jacketed MC-PCS Duo™ Cable meets the NEC and UL listing requirements for combining power/lighting circuits and Class 2 or Class 3 signal or control circuits in the same cable.

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.
- Circuits for branch power distribution in commercial, industrial, institutional, and multi residential buildings.
- Power, lighting, control, and signal circuits.
- Fished or embedded in plaster.
- Concealed or exposed installations.
- 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

MC-PCS Duo™ PVC Jacketed Cable meets or exceeds the requirements of:

- UL 83
- UL 1569 (Including new Sections 9.4, 40.1(q), and 41.1(r) as detailed in the latest UL 1569 CRD)
- UL 1685
- Federal Specification A-A59544 (formerly J-C-30B)
- NFPA 70 (National Electrical Code), Article 330 and 725.136(I)(1) & (2)
- Listed for use in UL 1, 2 and 3 Hour Through Penetration Firestop Systems
- Passes both "UL Test" & "FT4/IEEE 1202" (70,000 Btu/hr) Vertical Cable Tray Flame Test
- REACH/RoHS-2 (Chemical Limit) Compliant

CONSTRUCTION

MC-PCS Duo™ PVC Jacketed Cable is constructed with 12 AWG or 10 AWG CU Type THHN/THWN power and ground conductors along with a control conductor assembly composed of a 30 mil PVC jacket covering two 16 AWG CU Type TFN signal conductors. The phase conductors, ground, and signal conductor assembly are cabled together and a binder tape bearing the print legend is wrapped around the assembly. Aluminum interlocking armor is applied over the taped assembly. A sunlight resistant, direct burial rated PVC Jacket is applied over the armor.

FEATURES

- Full compliance with NEC 330, NEC 725, and UL 1569
- 16 AWG signal wiring for 0-10V dimming.
- Available in 250’ coils or 1000’ reels
- Available with steel armor
- 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.
- Anti-short bushings are not required for use with Type MC Cable per the NEC and UL.

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MC-PCS DUO™ PVC JACKETED POWER & CONTROL/SIGNAL CABLE

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) 16-2 SOLID (PURPLE/PINK)	12 SOLID (GREEN)	59-61-81-01	59-61-81-02	213	0.708
12-2 SOLID (RED/WHITE) 16-2 SOLID (PURPLE/PINK)	12 SOLID (GREEN)	**59-61-82-01**	59-61-82-02	213	0.708
12-2 SOLID (BLUE/WHITE) 16-2 SOLID (PURPLE/PINK)	12 SOLID (GREEN)	59-61-83-01	59-61-83-02	213	0.708
12-3 SOLID (BLACK/RED/WHITE) 16-2 SOLID (PURPLE/PINK)	12 SOLID (GREEN)	59-61-87-01	59-61-87-02	242	0.743
12-3 SOLID (BLACK/RED/WHITE) 16-2 SOLID (PURPLE/PINK)	10 SOLID (GREEN)	**59-61-89-01**	59-61-89-02	263	0.763
SOLID CONDUCTOR COLORS 120/208V					
12-2 STRANDED (BLACK/WHITE) 16-2 SOLID (PURPLE/PINK)	12 STRANDED (GREEN)	**59-61-91-01**	59-61-91-02	220	0.723
12-3 STRANDED (BLACK/RED/WHITE) 16-2 SOLID (PURPLE/PINK)	12 STRANDED (GREEN)	59-63-51-01	59-63-51-02	258	0.798
SOLID CONDUCTOR COLORS 277/480V					
12-2 SOLID (BROWN/GRAY) 16-2 SOLID (PURPLE/PINK)	12 SOLID (GREEN)	59-61-84-01	59-61-84-02	213	0.708
12-2 SOLID (ORANGE/GRAY) 16-2 SOLID (PURPLE/PINK)	12 SOLID (GREEN)	**59-61-85-01**	59-61-85-02	213	0.708
12-2 SOLID (YELLOW/GRAY) 16-2 SOLID (PURPLE/PINK)	12 SOLID (GREEN)	59-61-86-01	59-61-86-02	213	0.708
12-3 SOLID (BROWN/ORANGE/GRAY) 16-2 SOLID (PURPLE/PINK)	12 SOLID (GREEN)	59-61-88-01	59-61-88-02	242	0.743
10-2 SOLID (BROWN/GRAY) 16-2 SOLID (PURPLE/PINK)	10 SOLID (GREEN)	**59-61-90-01**	59-61-90-02	263	0.763
SOLID CONDUCTOR COLORS 277/480V					
12-2 STRANDED (BROWN/GRAY) 16-2 SOLID (PURPLE/PINK)	12 STRANDED (GREEN)	59-61-92-01	59-61-92-02	220	0.723
12-3 STRANDED (BROWN/ORANGE/GRAY) 16-2 SOLID (PURPLE/PINK)	12 STRANDED (GREEN)	**59-63-53-01**	59-63-53-02	258	0.798
Consult NEC 310.15 for ampacities. Other constructions available upon request.					

MC-PCS DUO™ PVC JACKETED POWER & CONTROL/SIGNAL CABLE

NEC TABLE 310.15(B)(16)- ALLOWABLE AMPACITY FOR 600V CONDUCTORS

SIZE AWG OR KCMIL	TEMPERATURE RATING OF CONDUCTOR		
	60°C (140°F) TYPES: TW, UF	75°C (167°F) TYPES: RHW, THHW, THW, THWN, XHHW, USE, ZW	90°C (194°F) 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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MC$^{AP®}$ PCS DUO™ POWER & CONTROL/ SIGNAL CABLE TYPE MC ALL PURPOSE

MC$^{AP®}$ PCS DUO™ POWER & CONTROL/SIGNAL CABLE TYPE MC ALL PURPOSE

UL LISTED

Copper Power & Control/Signal Conductors. Power: 12 AWG & 10 AWG Copper THHN/THWN Insulated Singles. Signal: 16 AWG Copper TFN Insulated Singles. Full-Sized Aluminum Equipment Grounding/Bonding Conductor. UL Listed. 600 Volts. Rated VW-1. Lightweight Aluminum Interlocked Armor is Part of Equipment Bonding/ Grounding Path. Southwire® MC-PCS Duo™ Cable meets the NEC and UL listing requirements for combining power/lighting circuits and Class 2 or Class 3 signalor control circuits in the same cable.

APPLICATIONS

MC$^{AP®}$ PCS Duo™ Cable is suitable for use as follows:

- Circuits for branch power distribution in commercial, industrial, institutional, and multi-residential buildings.
- Power, lighting, control, and signal circuits.
- LED lighting with 0-10V dimming.
- 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.
- Use UL Listed Type MCI-A connectors

STANDARDS & REFERENCES

MC$^{AP®}$ PCS Duo™ Cable meets or exceeds the requirements of:

- UL 83
- UL 1569 (Including new Sections 9.4, 40.1(q), and 41.1(r) as detailed in the latest UL 1569 CRD)
- UL 1685
- Federal Specification A-A59544 (formerly J-C-30B)
- NFPA 70 (National Electrical Code), Article 330 and 725.136(I)(1) & (2) as described in the latest UL 1569 CRD
- Listed for use in UL 1, 2 and 3 Hour Through Penetration Firestop Systems
- Passes both "UL Test" & "FT4/IEEE 1202" (70,000 Btu/hr) Vertical Cable Tray Flame Test
- REACH/RoHS-2 (Chemical Limit) Compliant

CONSTRUCTION

MC$^{AP®}$ PCS Duo™ Cable is constructed with 12 AWG or 10 AWG CU Type THHN/THWN power and ground conductors along with a control conductor assembly composed of a 30 mil PVC jacket covering two 16 AWG CU Type TFN control conductors. The phase conductors, and control conductor assembly are cabled together and a binder tape bearing the print legend is wrapped around the assembly. The bare aluminum grounding/ bonding conductor is located outside the binding tape and has the same lay as the insulated conductors. Aluminum interlocking armor is snugly applied over the assembly. The aluminum armor and bare aluminum conductor are in intimate contact and together form the equipment ground path. To insure proper installation, refer to the installation instructions provided with every reel and coil. Yellow stripe/blocks are printed on the outside of the armor and the print legend is applied in black print on every 4th yellow stripe/block. Also available with overall PVC jacket.

FEATURES

- Full compliance with NEC 330, NEC 725, and UL 1569
- 16 AWG signal wiring for 0-10V dimming.
- Circuit Identification printed directly on the armor
- Available in 250' coils, 1000' reels, barrels, boxes, or prefab assemblies
- 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 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 Type MC Cable per the NEC and UL.

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MC^AP® PCS DUO™ POWER & CONTROL/SIGNAL CABLE TYPE MC ALL PURPOSE

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) 16-2 SOLID (PURPLE/PINK)	10 SOLID ALUMINUM	64-40-51-01	64-40-51-02	128	0.535
12-2 SOLID (RED/WHITE) 16-2 SOLID (PURPLE/PINK)	10 SOLID ALUMINUM		64-87-36-02	128	0.535
12-3 SOLID (BLACK/RED/WHITE) 16-2 SOLID (PURPLE/PINK)	10 SOLID ALUMINUM	64-87-38-01	64-87-38-02	155	0.585
SOLID CONDUCTOR COLORS 277/480V					
12-2 SOLID (BROWN/GRAY) 16-2 SOLID (PURPLE/PINK)	10 SOLID ALUMINUM	64-40-55-01	64-40-55-02	128	0.535
12-2 SOLID (ORANGE/GRAY) 16-2 SOLID (PURPLE/PINK)	10 SOLID ALUMINUM		64-76-40-02	128	0.535
12-2 SOLID (YELLOW/GRAY) 16-2 SOLID (PURPLE/PINK)	10 SOLID ALUMINUM		64-76-42-02	128	0.535
12-3 SOLID (BROWN/ORANGE/GRAY) 16-2 SOLID (PURPLE/PINK)	10 SOLID ALUMINUM	64-87-40-01	64-87-40-02	155	0.585
Consult NEC 310.15 for ampacities. Other constructions available upon request.					

MC^AP® PCS DUO™ POWER & CONTROL/SIGNAL CABLE TYPE MC ALL PURPOSE

NEC TABLE 310.15(B)(16)- ALLOWABLE AMPACITY FOR 600V CONDUCTORS

SIZE AWG OR KCMIL	TEMPERATURE RATING OF CONDUCTOR		
	60°C (140°F) TYPES: TW, UF	75°C (167°F) TYPES: RHW, THHW, THW, THWN, XHHW, USE, ZW	90°C (194°F) 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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MC-PCS HCF DUO™ POWER & CONTROL/SIGNAL CABLE FOR HEALTHCARE FACILITIES

UL LISTED

WE'VE GOT IT MADE IN AMERICA™

Copper Power & Control/Signal Conductors. THHN/THWN & TFN Insulated Singles. Green Insulated Grounding Conductor. Full-Sized Bare Aluminum Equipment Grounding/Bonding Conductor. Power: 12 AWG & 10 AWG THHN. Signal: 16 AWG TFN. UL Listed. 600 Volts. Rated VW-1. Rated 90ºC Dry Locations. Lightweight Aluminum Interlocked Armor is part of redundant equipment bonding/grounding path. Southwire® MC-PCS HCF Duo™ Cable meets the NEC and UL listing requirements for combining power/lighting circuits and Class 2 or Class 3 signal or control circuits in the same cable.

APPLICATIONS

MC-PCS HCF Duo™ Cable is suitable for use as follows:

- Branch-circuit wiring for patient care areas of hospitals, medical centers, and other health care facilities (when installed in accordance with NEC® Articles 517 and 330, and mechanically protected per Article 300.4). Such areas include nursing homes, dental offices, clinics, and outpatient facilities. Use in hazardous anesthetizing areas is prohibited.
- Power, lighting, control, and signal circuits requiring redundant, dedicated, or isolated grounding paths.
- LED lighting with 0-10V dimming
- 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).
- Use with UL Listed MCI-A fittings.
- Class I Div. 2, Class II Div. 2, & Class III Div. 1 Hazardous Locations.

STANDARDS & REFERENCES

MC-PCS HCF Duo™ Cable meets or exceeds the requirements of:

- UL 83
- UL 1569 (Including new Sections 9.4, 40.1(q), and 41.1(r) as detailed in the latest UL 1569 CRD)
- UL 1685
- Federal Specification A-A59544 (formerly J-C-30B)
- National Electrical Code (NFPA 70), Article 330 and 725.136(I)(1) & (2) as described in the latest UL 1569 CRD)
- Listed for use in UL 1, 2 and 3 Hour Through Penetration Firestop Systems
- Passes both "UL Test" & "FT4/IEEE 1202" (70,000 Btu/hr) Vertical Cable Tray Flame Test
- REACH/RoHS-2 (Chemical Limit) Compliant

CONSTRUCTION

The power conductors, insulated green ground, and signal conductor assembly are cabled together and a binder tape bearing the print legend is wrapped around the cabled assembly. A bare aluminum grounding/bonding conductor is located outside the binder tape, has the same lay as the insulated conductors, and maintains intimate contact with the overall armor. Green aluminum interlocking armor is applied over the cabled assembly. Yellow stripe/blocks are printed on the outside of the armor and circuit identifying print is applied on every fourth yellow stripe/block. The cable is also available with steel armor or with an overall PVC jacket.

FEATURES

- Full compliance with NEC 330, NEC 725, and UL 1569
- Meets UL Product Category PJAZ (Metal-Clad Cable) and provides redundant equipment grounding conductors (as defined in NEC® 250.118) as required in NEC® 517.13(A) & (B).
- Installation instructions included with every reel and coil
- Circuit identification printed directly on the armor
- Simplified armored product application and installation
- Armor ground path is approximately 3.5 times better than Type AC HCF Cable and is equivalent to a green insulated copper grounding conductor.
- Available in 250' coils, 1000' reels, barrels, boxes, or prefab assemblies
- Available with steel armor
- Available with overall PVC jacket
- Available in neutral-per-phase and multi-circuit configurations
- 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 Type MC Cable per the NEC and UL.

MC-PCS HCF DUO™ POWER & CONTROL/SIGNAL CABLE FOR HEALTHCARE FACILITIES

CONDUCTOR SIZE AND COLORS	GROUNDING SIZE		STOCK NUMBER		WEIGHT (LBS/1000')	OVERALL DIAMETER (INCHES)
	INSULATED GROUND	BONDING GROUND	COIL (250')	REEL (1000')		
SOLID CONDUCTOR COLORS 120/208V						
12-2 SOLID (BLACK/WHITE) 16-2 SOLID (PURPLE/PINK)	12 SOLID (GREEN)	10 SOLID ALUMINUM	59-81-27-01	59-81-27-02	172	0.58
12-2 SOLID (RED/WHITE) 16-2 SOLID (PURPLE/PINK)	12 SOLID (GREEN)	10 SOLID ALUMINUM	59-76-57-01	59-76-57-02	172	0.58
12-2 SOLID (BLUE/WHITE) 16-2 SOLID (PURPLE/PINK)	12 SOLID (GREEN)	10 SOLID ALUMINUM	59-76-59-01	59-76-59-02	172	0.58
12-3 SOLID (BLACK/RED/WHITE) 16-2 SOLID (PURPLE/PINK)	12 SOLID (GREEN)	10 SOLID ALUMINUM	59-76-65-01	59-76-65-02	199	0.62
10-2 SOLID (BLACK/WHITE) 16-2 SOLID (PURPLE/PINK)	10 SOLID (GREEN)	8 SOLID ALUMINUM	59-76-69-01	59-76-69-02	224	0.64
STRANDED CONDUCTOR COLORS 120/208V						
12-2 STRANDED (BLACK/WHITE) 16-2 SOLID (PURPLE/PINK)	12 STRANDED (GREEN)	10 SOLID ALUMINUM	59-76-73-01	59-76-73-02	178	0.59
12-3 STRANDED (BLACK/RED/WHITE) 16-2 SOLID (PURPLE/PINK)	12 STRANDED (GREEN)	10 SOLID ALUMINUM	59-76-77-01	59-76-77-02	208	0.64
SOLID CONDUCTOR COLORS 277/480V						
12-2 SOLID (BROWN/GRAY) 16-2 SOLID (PURPLE/PINK)	12 SOLID (GREEN)	10 SOLID ALUMINUM	59-81-29-01	59-81-29-02	172	0.58
12-2 SOLID (ORANGE/GRAY) 16-2 SOLID (PURPLE/PINK)	12 SOLID (GREEN)	10 SOLID ALUMINUM	59-76-61-01	59-76-61-02	172	0.58
12-2 SOLID (YELLOW/GRAY) 16-2 SOLID (PURPLE/PINK)	12 SOLID (GREEN)	10 SOLID ALUMINUM	59-76-63-01	59-76-63-02	172	0.58
12-3 SOLID (BROWN/ORANGE/GRAY) 16-2 SOLID (PURPLE/PINK)	12 SOLID (GREEN)	10 SOLID ALUMINUM	59-76-67-01	59-76-67-02	199	0.62
10-2 SOLID (BROWN/GRAY) 16-2 SOLID (PURPLE/PINK)	10 SOLID (GREEN)	8 SOLID ALUMINUM	59-76-71-01	59-76-71-02	224	0.64
STRANDED CONDUCTOR COLORS 277-480V						
12-2 STRANDED (BROWN/GRAY) 16-2 SOLID (PURPLE/PINK)	12 STRANDED (GREEN)	10 SOLID ALUMINUM	59-76-75-01	59-76-75-02	178	0.59
12-3 STRANDED (BROWN/ORANGE/GRAY) 16-2 SOLID (PURPLE/PINK)	12 STRANDED (GREEN)	10 SOLID ALUMINUM	59-76-79-01	59-76-79-02	208	0.64
Consult NEC 310.15 for ampacities. Other color combinations available upon request.						

MC-PCS HCF DUO™ POWER & CONTROL/SIGNAL CABLE FOR HEALTHCARE FACILITIES

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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MC-PCS DUO™ 2 ZONE POWER & CONTROL/SIGNAL CABLE

Copper Power & Control/Signal Conductors. Power: 12 AWG & 10 AWG Copper THHN/THWN Insulated Singles. Signal: 16 AWG Copper twisted jacketed pairs TFN insulated singles. Green Copper THHN Insulated Ground. UL Listed. 600 Volts. Rated VW-1. Lightweight Aluminum Interlocked Armor. Southwire® MC-PCS Duo™ Cable meets the NEC and UL listing requirements for combining power/lighting circuits and Class 2 or Class 3 signal or control circuits in the same cable.

APPLICATIONS

MC-PCS Duo™ Cable is suitable for use as follows:

- Circuits for branch power distribution in commercial, industrial, institutional, and multi-residential buildings.
- Power, lighting, control, and signal circuits.
- LED lighting with multiple 0-10V dimming zones.
- 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

MC-PCS Duo™ Cable meets or exceeds the requirements of:

- UL 83
- UL 1569 (Including new Sections 9.4, 40.1(q), and 41.1(r) as detailed in the latest UL 1569 CRD)
- UL 1685
- Federal Specification A-A59544 (formerly J-C-30B)
- NFPA 70 (National Electrical Code), Article 330 and 725.136(I)(1) & (2) as described in the latest UL 1569 CRD
- Listed for use in UL 1, 2 and 3 Hour Through Penetration Firestop Systems
- Passes both "UL Test" & "FT4/IEEE 1202" (70,000 Btu/hr) Vertical Cable Tray Flame Test
- REACH/RoHS-2 (Chemical Limit) Compliant

CONSTRUCTION

MC-PCS Duo™ Cable is constructed with 12 AWG or 10 AWG CU Type THHN/THWN power and ground conductors along with a control conductor assembly composed of multiple 30 mil PVC jacketed twisted pairs of 16 AWG CU Type TFN control conductors. Each twisted jacketed pair has a unique color for easy identification. The phase conductors, ground, and control conductor assembly are cabled together and a binder tape bearing the print legend is wrapped around the assembly. Aluminum interlocking armor is applied over the taped assembly. Yellow stripe/blocks are printed on the outside of the armor and the print legend is applied in black print on every 4th yellow stripe/block. Also available with overall PVC jacket.

FEATURES

- Full compliance with NEC 330, NEC 725, and UL 1569
- 16 AWG signal wiring for 0-10V dimming.
- Circuit Identification printed directly on the armor
- Available in 250' coils, 1000' reels, barrels, boxes, or prefab assemblies
- 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 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 Type MC Cable per the NEC and UL.

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MC-PCS DUO™ 2 ZONE POWER & CONTROL/SIGNAL CABLE

NEC TABLE 310.15(B)(16)- ALLOWABLE AMPACITY FOR 600V CONDUCTORS

SIZE AWG OR KCMIL	TEMPERATURE RATING OF CONDUCTOR		
	60°C (140°F) TYPES: TW, UF	75°C (167°F) TYPES: RHW, THHW, THW, THWN, XHHW, USE, ZW	90°C (194°F) 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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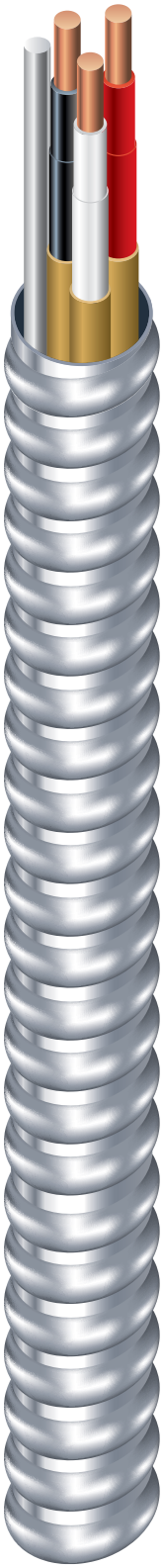
DURACLAD® TYPE AC

UL LISTED



14 AWG through 2 AWG Copper Type ACTHH (THHN Singles). 16 AWG Aluminum Bond Wire. UL Listed. 600 Volts. Rated VW-1. Galvanized Steel Interlocking Armor.

APPLICATIONS

Southwire Duraclad® Type AC Cable is suitable for use as follows:

- Branch, feeder and service power distribution in commercial, industrial, institutional, and multi-residential buildings.
- Dry locations only.
- Fished or embedded in plaster.
- Concealed or exposed installations.
- Environmental air-handling spaces per NEC 300.22 (C).
- 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).

STANDARDS & REFERENCES

Southwire Duraclad® Type AC Cable meets or exceeds the following requirements

- UL 4
- UL 83
- 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 320
- Listed for use in UL 1, 2, and 3 Hour Through-Penetration Firestop Systems
- REACH/RoHS-2 (Chemical Limit) Compliant

CONSTRUCTION

Southwire Duraclad® Type AC Cable is constructed with soft-drawn copper, Type THHN insulated conductors which are individually wrapped with a moisture-resistant, flame-retardant paper covering. Steel interlocking armor is applied over the assembly. A 16 AWG aluminum bond wire is placed inside the armor, runs longitudinally, and is in intimate contact with the armor for its entire length.

FEATURES

- An armor assembly (combination of the interlocked armor & bonding strip) that is recognized as an equipment grounding/bonding conductor per NEC 250.118(8).
- Reduces installation costs up to 50% over pipe and wire.
- 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.
- Anti-short/insulating bushings supplied with every reel or coil.
- Cable reverse wound on reel for ease of pulling and installation. When pulling from coils, pull from inside to ensure ease of installation.

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DURACLAD® TYPE AC

CONDUCTOR SIZE AND COLORS	GROUNDING SIZE AND COLOR	STOCK NUMBER		WEIGHT (LBS/1000')	OVERALL DIAMETER (INCHES)
		COIL	REEL		
SOLID CONDUCTOR COLORS 120/208V					
14-2 SOLID (BLACK/WHITE)	16 SOLID ALUMINUM	55-27-83-01 (250')	55-27-83-02 (1000')	185	0.46
14-3 SOLID (BLACK/WHITE/RED)	16 SOLID ALUMINUM	55-27-85-01 (250')	55-27-85-02 (1000')	209	0.485
14-4 SOLID (BLACK/WHITE/RED/BLUE)	16 SOLID ALUMINUM	55-31-84-01 (250')	55-31-84-02 (1000')	237	0.517
12-2 SOLID (BLACK/WHITE)	16 SOLID ALUMINUM	55-27-49-01 (250')	55-27-49-02 (1000')	213	0.498
12-3 SOLID (BLACK/WHITE/BLUE)	16 SOLID ALUMINUM	55-27-50-01 (250')	55-27-50-02 (1000')	246	0.521
12-4 SOLID (BLACK/WHITE/RED/BLUE)	16 SOLID ALUMINUM	55-27-57-01 (250')	55-27-57-02 (1000')	283	0.557
10-2 SOLID (BLACK/WHITE)	16 SOLID ALUMINUM	55-27-82-01 (250')	55-27-82-03 (1000')	2664	0.56
10-3 SOLID (BLACK/WHITE/RED)	16 SOLID ALUMINUM	55-27-56-01 (250')	55-27-56-02 (1000')	312	0.588
10-4 SOLID (BLACK/WHITE/RED/BLUE)	16 SOLID ALUMINUM	55-27-89-01 (250')	55-27-89-03 (1000')	366	0.632
STRANDED CONDUCTOR COLORS 120/208V					
8-2 STRANDED (BLACK/WHITE)	16 SOLID ALUMINUM	55-33-69-01 (200')	55-33-69-03 (500')	365	0.686
8-3 STRANDED (BLACK/WHITE/RED)	16 SOLID ALUMINUM		55-27-84-03 (500')	556	0.834
8-4 STRANDED (BLACK/WHITE/RED/BLUE)	16 SOLID ALUMINUM		55-33-71-03 (500')	653	0.895
6-2 STRANDED (BLACK/WHITE)	16 SOLID ALUMINUM	55-33-67-01 (100')	55-33-67-03 (500')	574	0.868
6-3 STRANDED (BLACK/WHITE/RED)	16 SOLID ALUMINUM	55-27-59-02 (125')	55-27-59-03 (500')	696	0.912
6-4 STRANDED (BLACK/WHITE/RED/BLUE)	16 SOLID ALUMINUM	55-33-68-01 (100')	55-33-68-03 (500')	830	0.981
4-3 STRANDED (BLACK/WHITE/RED)	16 SOLID ALUMINUM	55-28-03-01 (100')	55-28-03-03 (500')	948	1.07
4-4 STRANDED (BLACK/WHITE/RED/BLUE)	16 SOLID ALUMINUM		55-33-66-03 (500')	1150	1.15
2-3 STRANDED (BLACK/WHITE/RED)	16 SOLID ALUMINUM		55-27-93-03 (500')	1265	1.19
2-4 STRANDED (BLACK/WHITE/RED/BLUE)	16 SOLID ALUMINUM		55-33-65-03 (500')	1559	1.293
Refer to NEC Table 310.15 for ampacity ratings.					

DURACLAD® TYPE AC

NEC TABLE 310.15(B)(16)- ALLOWABLE AMPACITY FOR 600V CONDUCTORS

SIZE AWG OR KCMIL	TEMPERATURE RATING OF CONDUCTOR		
	60°C (140°F) TYPES: TW, UF	75°C (167°F) TYPES: RHW, THHW, THW, THWN, XHHW, USE, ZW	90°C (194°F) 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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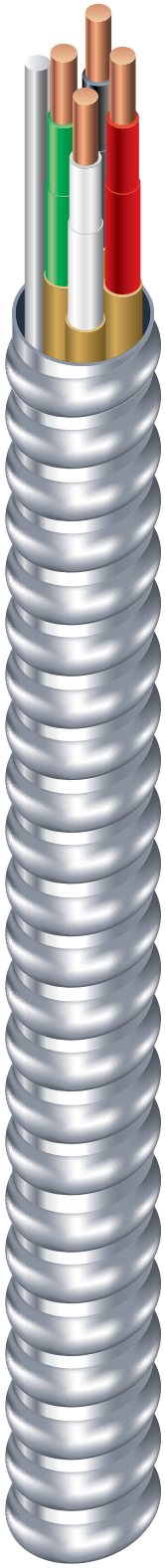
DURACLAD® TYPE AC-HCF STEEL ARMOR HEALTH CARE FACILITY

UL LISTED



14 AWG through 10 AWG Copper Type ACTHH (THHN Singles). Green Copper Grounding Conductor. 16 AWG Aluminum Bond Wire. UL Listed. 600 Volts. Rated VW-1. Galvanized Steel Interlocked Armor. This product is a non-stock item and subject to minimum run quantities.

APPLICATIONS

Southwire Duraclad® Type AC-HCF Cable is suitable for use as follows:

- Branch and feeders for general purpose, non-essential electrical systems in patient care areas of hospitals, medical and other types of healthcare facilities. Such areas include nursing homes, dental offices, and outpatient facilities.
- Power, lighting, control, and signal circuits
- Dry locations only.
- Fished or embedded in plaster.
- Concealed or exposed installations.
- Environmental air-handling spaces per NEC 300.22 (C).
- Installation in cable tray and approved raceways.
- Under raised floors for information technology equipment conductors and cables per NEC 645.5(D) & 645.5(E)(2).

STANDARDS & REFERENCES

Southwire Duraclad® Type AC Cable meets or exceeds the following requirements:

- UL 4, 83, 1581, 2556
- UL Online Product Guide Info - Armored Cable (AWEZ) (www.ul.com)
- Federal Specification A-A59544 (formerly J-C-30B)
- NFPA 70 (National Electrical Code), Article 320
- Listed for use in UL 1, 2, and 3 Hour Through-Penetration Firestop Systems UL 1479
- REACH/RoHS-2 (Chemical Limit) Compliant

CONSTRUCTION

Southwire Duraclad® Type AC-HCF Cable is constructed with soft-drawn copper, Type THHN insulated conductors which are individually wrapped with a moisture-resistant, flame-retardant paper covering. A green insulated copper grounding conductor is also included. Lightweight galvanized steel interlocking armor is applied over the assembly. A 16 AWG bare aluminum bond wire is placed inside the armor, runs longitudinally, and is in intimate contact with the armor for its entire length. Galvanized green steel armor available on request and subject to minimum run quantities.

FEATURES

- An armor assembly (combination of the interlocked armor & bonding strip) that is recognized as an equipment grounding conductor per the NEC 250.118(8) and 517.13(A).
- An insulated equipment grounding conductor sized per NEC 517.13(B) and Table 250.122.
- Reduces installation costs up to 50% over pipe and wire.
- 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.
- Anti-short/insulating bushings supplied with every reel or coil.

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DURACLAD® TYPE AC-HCF STEEL ARMOR HEALTH CARE FACILITY

CONDUCTOR SIZE AND COLORS	GROUNDING SIZE		STOCK NUMBER		WEIGHT (LBS/1000')	OVERALL DIAMETER (INCHES)
	INSULATED GROUND	BONDING GROUND	COIL (250')	REEL (1000')		
SOLID CONDUCTOR COLORS 120/208V						
12-2 SOLID (BLACK/WHITE)	12 SOLID (GREEN)	16 SOLID ALUMINUM	55-27-55-01	55-27-55-02	225	.52
12-2 SOLID (RED/WHITE)	12 SOLID (GREEN)	16 SOLID ALUMINUM	55-28-04-01		225	.52
12-2 SOLID (BLUE/WHITE)	12 SOLID (GREEN)	16 SOLID ALUMINUM	55-28-05-01		225	.52
12-3 SOLID (BLACK/WHITE/RED)	12 SOLID (GREEN)	16 SOLID ALUMINUM	55-27-79-01	55-27-79-02	261	.557
12-4 SOLID (BLACK/WHITE/RED/BLUE)	12 SOLID (GREEN)	16 SOLID ALUMINUM	55-27-80-01	55-27-80-02	299	.598
10-2 SOLID (BLACK/WHITE)	10 SOLID (GREEN)	16 SOLID ALUMINUM	55-27-99-01	55-27-99-03	288	.588
10-3 SOLID (BLACK/WHITE/RED)	10 SOLID (GREEN)	16 SOLID ALUMINUM	55-32-15-01	55-32-15-02	340	.632
SOLID CONDUCTOR COLORS 277/480V						
12/2 SOLID (ORANGE/GRAY)	12 SOLID (GREEN)	16 SOLID ALUMINUM	55-33-38-01	55-33-38-02	225	0.520
12/2 SOLID (YELLOW/GRAY)	12 SOLID (GREEN)	16 SOLID ALUMINUM	55-33-41-01	55-33-41-02	225	0.520
12/3 SOLID (BROWN/ORANGE/GRAY)	12 SOLID (GREEN)	16 SOLID ALUMINUM	55-33-42-01	55-33-42-02	261	0.557

DURACLAD® TYPE AC-HCF STEEL ARMOR HEALTH CARE FACILITY

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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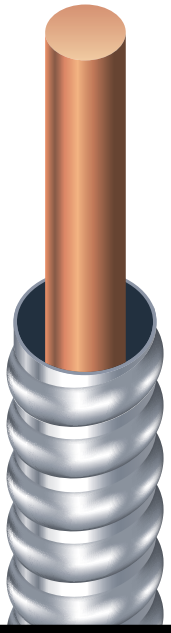
DURACLAD® BARE ARMORED GROUND CABLE

DURACLAD® BARE ARMORED GROUND CABLE



Bare Copper Ground. UL Listed. Steel Interlocked Armor.

APPLICATIONS

Southwire Duraclad® Bare Armored Ground Cable is suitable for use as a grounding electrode conductor for Residential Service Systems.

STANDARDS & REFERENCES

Southwire Duraclad® Bare Armored Ground Cable meets or exceeds the requirements:

- UL Standard 467
- REACH/RoHS-2 (Chemical Limit) Compliant

CONSTRUCTION

Southwire Duraclad® Bare Armored Ground Cable is constructed with a bare soft-drawn copper. A galvanized steel interlocking armor is applied over the bare conductor.

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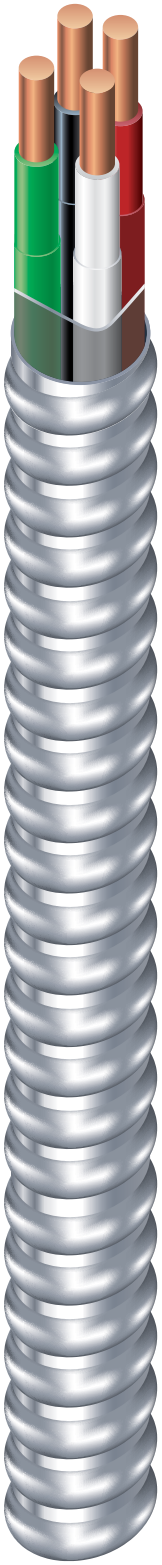
CONDUCTOR SIZE AND COLORS	STOCK NUMBER		WEIGHT (LBS/1000')	OVERALL DIAMETER (INCHES)
	COIL (250')	REEL (1000')		
8 SOLID	55-33-11-01	55-33-11-02	197	0.46
6 SOLID	55-16-01-01	55-16-01-02	235	0.485
4 STRANDED (7 STRAND)	55-16-02-01	55-16-02-02	295	0.515

DURACLAD® TYPE MC

UL LISTED



14 AWG through 6 AWG Copper THHN/THWN Insulated Singles. Green Copper THHN Insulated Grounding Conductor. UL Listed. 600 Volts. Rated VW-1. Lightweight Steel Interlocked Armor. Also available in Blue Steel Armor.

APPLICATIONS

Southwire Duraclad® 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 Duraclad® 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)
- Federal Specification A-A-59544
- NFPA 70 (National Electrical Code), Article 330
- Jacketed & Non Jacketed will both pass "UL Test" & "FT4/IEEE 1202" (70,000 Btu/hr) Vertical Cable Tray Flame Test
- Listed for use in UL 1, 2, and 3 Hour Through-Penetration Firestop Systems
- REACH/RoHS-2 (Chemical Limit) Compliant

CONSTRUCTION

Southwire Duraclad® Type MC Cable is constructed with soft-drawn copper, Type THHN/THWN conductors and a green insulated grounding conductor. The conductors are cabled together and a binder tape bearing the print legend is wrapped on the assembly. Light weight galvanized steel interlocked armor is applied over the assembly. Blue steel armor is also available.

FEATURES

- Reduces installation costs up to 50% over pipe and wire.
- 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
- Available in stranded conductors.
- Anti-short/insulating bushings supplied with every reel or coil.

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DURACLAD® TYPE MC

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)	55-17-15-01	55-17-15-02	115	0.447
14-3 SOLID (BLACK/WHITE/RED)	14 SOLID (GREEN)	55-17-28-01	55-17-28-02	138	0.464
14-4 SOLID (BLACK/WHITE/RED/BLUE)	14 SOLID (GREEN)	55-17-33-01	55-17-33-02	154	0.502
12-2 SOLID (BLACK/WHITE)	12 SOLID (GREEN)	55-17-16-01	55-17-16-02	142	0.475
12-3 SOLID (BLACK/WHITE/RED)	12 SOLID (GREEN)	55-17-29-01	55-17-29-02	172	0.513
12-4 SOLID (BLACK/WHITE/RED/BLUE)	12 SOLID (GREEN)	55-17-34-01	55-17-34-02	201	0.547
10-2 SOLID (BLACK/WHITE)	10 SOLID (GREEN)	55-17-17-01	55-17-17-02	197	0.550
10-3 SOLID (BLACK/WHITE/RED)	10 SOLID (GREEN)	55-17-30-01	55-17-30-02	240	0.588
10-4 SOLID (BLACK/WHITE/RED/BLUE)	10 SOLID (GREEN)	55-17-35-01	55-17-35-02	284	0.631
STRANDED CONDUCTOR COLORS 120/208V					
12-2 STRANDED (BLACK/WHITE)	12 STRANDED (GREEN)	55-64-36-01	55-64-36-02	157	0.495
12-3 STRANDED (BLACK/WHITE/RED)	12 STRANDED (GREEN)	55-36-32-01	55-36-32-02	187	0.527
10-2 STRANDED (BLACK/WHITE)	10 STRANDED (GREEN)		55-39-67-02	213	0.566
10-4 STRANDED (BLACK/WHITE/RED/BLUE)	10 STRANDED (GREEN)		56-10-24-02	307	0.653
SOLID CONDUCTOR COLORS 277/480V					
12-2 SOLID (BROWN/GRAY)	12 SOLID (GREEN)	55-17-74-01		142	0.475
12-2 SOLID (ORANGE/GRAY)	12 SOLID (GREEN)	55-32-42-02	55-32-42-03	142	0.475
12-3 SOLID (BROWN/YELLOW/GRAY)	12 SOLID (GREEN)	55-32-51-02	55-32-51-03	172	0.513
12-4 SOLID (BROWN/ORANGE/YELLOW/GRAY)	12 SOLID (GREEN)	55-32-44-02	55-32-44-03	201	0.547
10-2 SOLID (ORANGE/GRAY)	10 SOLID (GREEN)	55-17-83-01	55-17-83-02	197	0.550
10-2 SOLID (YELLOW/GRAY)	10 SOLID (GREEN)	55-17-82-01	55-17-82-02	197	0.550
10-2 SOLID (BROWN/GRAY)	10 SOLID (GREEN)	55-32-50-02	55-32-50-03	197	0.550
10-3 SOLID (BROWN/ORANGE//GRAY)	10 SOLID (GREEN)	55-32-52-02	55-32-52-01	240	0.588
10-3 SOLID (BROWN/YELLOW/GRAY)	10 SOLID (GREEN)	55-17-87-01	55-17-87-02	240	0.588
10-4 SOLID (BROWN/ORANGE/YELLOW/GRAY)	10 SOLID (GREEN)	55-32-45-02	55-32-45-01	284	0.631
For allowable ampacities, refer to NEC 310.15. Also available with stranded conductors.					

DURACLAD® TYPE MC

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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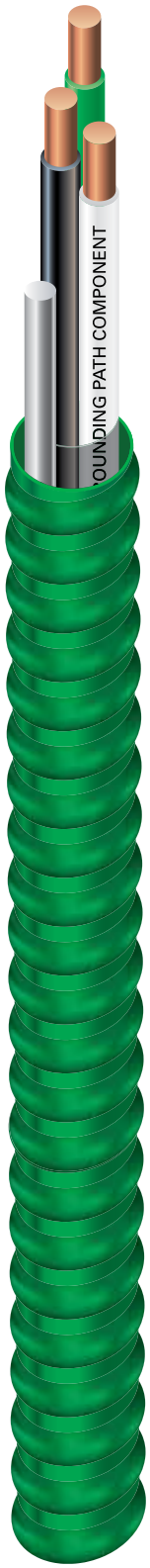
DURACLAD® HCF MC$^{AP®}$ TYPE MC ALL PURPOSE HEALTHCARE FACILITY

DURACLAD® HCF MC$^{AP®}$ TYPE MC ALL PURPOSE HEALTH CARE FACILITY

UL LISTED



14 AWG through 8 AWG Copper THHN Insulated Conductors and Green Insulated Ground Conductor. Full-Sized Aluminum Equipment Grounding/Bonding Conductor. UL Listed. 600 Volts. Rated VW-1. Galvanized Green Steel Interlocked Armor is Part of Equipment Bonding/Grounding Path.

APPLICATIONS

Suitable for use as follows:

- Branch-circuit wiring for patient care areas of hospitals, medical centers, and other health care facilities (when installed in accordance with NEC® Articles 517 and 330, and mechanically protected per Article 300.4). Such areas include nursing homes, dental offices, clinics, and outpatient facilities. Use in hazardous anesthetizing areas is prohibited.
- Applications requiring redundant, dedicated or isolated grounding paths.
- Environmental air-handling spaces per NEC® 300.22(C)
- Fished or embedded in plaster.
- 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).
- Use with UL Listed MCI-A fittings.

STANDARDS & REFERENCES

Southwire Duraclad HCF MC$^{AP®}$ Type MC Cable fully meets or exceeds the following requirements:

- UL 83, 1569 and 1063
- NFPA 70 (National Electrical Code), Article 330
- Federal Specification A-A59544 (formerly J-C-30B)
- UL Online Product Guide Info - Metal-Clad Cable (PJAZ) (www.ul.com)
- IEEE 1202 (70,000 Btu/hr) Vertical Cable Tray Flame Test
- Listed for use in UL 1, 2, and 3 Hour Through-Penetration Firestop Systems
- REACH/RoHS-2 (Chemical Limit) Compliant

CONSTRUCTION

Southwire Duraclad HCF MC$^{AP®}$ Type MC Cable is constructed with solid soft-drawn copper Type THHN circuit conductors (rated 90ºC dry), redundant grounding provided by an armor assembly comprised of interlocked armor with a bare aluminum grounding/ bonding conductor, and a green insulated copper grounding conductor. The insulated circuit and grounding conductors are cabled together and wrapped with a binder tape bearing the print legend. The bare aluminum grounding/bonding conductor is located outside the binding tape and has the same lay as the insulated conductors. Galvanized green steel interlocked armor is snugly wrapped around the conductor assembly. To insure proper cable termination, refer to the installation instructions provided with every reel and coil.

FEATURES

- Meets UL Product Category PJAZ (Metal-Clad Cable) and provides redundant equipment grounding conductors (as defined in NEC® 250.118) as required in NEC® 517.13(A) & (B).
- Installation instructions included with every reel and coil.
- Simplified armored product application and installation.
- Reduces installation costs up to 50% over pipe and wire.
- Increased labor savings compared to Type AC HCF.
- Easy to identify green armor.
- 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.
- Armor ground path is approximately 3.5 times better than Type AC HCF Cable and is equivalent to a green insulated copper grounding conductor.

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DURACLAD® HCF MC*AP*® TYPE MC ALL PURPOSE HEALTH CARE FACILITY

CONDUCTOR SIZE AND COLORS	GROUNDING SIZE		STOCK NUMBER		WEIGHT (LBS/1000')	OVERALL DIAMETER (INCHES)
	INSULATED GROUND	BONDING GROUND	COIL (250')	REEL (1000')		
SOLID CONDUCTOR COLORS 120/208V						
12-2 SOLID (BLACK/WHITE)	12 SOLID (GREEN)	10 SOLID ALUMINUM	58-23-25-01	58-23-25-02	170	0.447
12-3 SOLID (BLACK/WHITE/RED)	12 SOLID (GREEN)	10 SOLID ALUMINUM	58-23-26-01	58-23-26-02	201	0.481
12-4 SOLID (BLACK/WHITE/RED/BLUE)	12 SOLID (GREEN)	10 SOLID ALUMINUM	58-23-29-01	58-23-29-02	233	0.516
10-2 SOLID (BLACK/WHITE)	10 SOLID (GREEN)	8 SOLID ALUMINUM	58-23-31-01	58-23-31-02	234	0.522
10-3 SOLID (BLACK/WHITE/RED)	10 SOLID (GREEN)	8 SOLID ALUMINUM	58-23-34-01	58-23-34-02	294	0.625
STRANDED CONDUCTOR COLORS 120/208V						
12-2 STRANDED (BLACK/WHITE)	12 STRANDED (GREEN)	10 SOLID ALUMINUM	58-23-27-01	58-23-27-02	180	0.469
12-3 STRANDED (BLACK/WHITE/RED)	12 STRANDED (GREEN)	10 SOLID ALUMINUM	58-23-35-01	58-23-27-02	213	0.506
STRANDED CONDUCTOR COLORS 277/480V						
12-2 STRANDED (BROWN/GRAY)	12 STRANDED (GREEN)	10 SOLID ALUMINUM	58-23-28-01	58-23-28-02	170	0.447
12-2 STRANDED (ORANGE/GRAY)	12 STRANDED (GREEN)	10 SOLID ALUMINUM	58-23-30-01	58-23-30-02	170	0.447
12-2 STRANDED (YELLOW/GRAY)	12 STRANDED (GREEN)	10 SOLID ALUMINUM	58-23-20-01	58-23-20-02	170	0.447
12-3 STRANDED (BROWN/ORANGE/GRAY)	12 STRANDED (GREEN)	10 SOLID ALUMINUM	58-23-36-01	58-23-36-02	201	0.481
For allowable ampacities, refer to NEC 310.15						

DURACLAD® HCF MC*AP*® TYPE MC ALL PURPOSE HEALTH CARE FACILITY

NEC TABLE 310.15(B)(16)- ALLOWABLE AMPACITY FOR 600V CONDUCTORS

SIZE AWG OR KCMIL	TEMPERATURE RATING OF CONDUCTOR		
	60°C (140°F) TYPES: TW, UF	75°C (167°F) TYPES: RHW, THHW, THW, THWN, XHHW, USE, ZW	90°C (194°F) 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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DURACLAD® MC-PCS DUO™ POWER & CONTROL/SIGNAL CABLE

UL LISTED

Copper Power & Control/Signal Conductors. Power: 12 AWG & 10 AWG Copper THHN/THWN Insulated Singles. Signal: 16 AWG Copper TFN Insulated Singles. Green Copper THHN Insulated Ground. UL Listed. 600 Volts. Rated VW-1. Lightweight Steel Interlocked Armor. Southwire® MC-PCS Duo™ Cable meets the NEC and UL listing requirements for combining power/lighting circuits and Class 2 or Class 3 signal or control circuits in the same cable.

APPLICATIONS

MC-PCS Duo™ Cable is suitable for use as follows:

- Circuits for branch power distribution in commercial, industrial, institutional, and multi residential buildings.
- Power, lighting, control, and signal circuits.
- LED lighting with 0-10V dimming.
- 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

MC-PCS Duo™ Cable meets or exceeds the requirements of:

- UL 83
- UL 1569 (Including new Sections 9.4, 40.1(q), and 41.1(r) as detailed in the latest UL 1569 CRD)
- UL 1685
- Federal Specification A-A59544 (formerly J-C-30B)
- NFPA 70 (National Electrical Code), Article 330 and 725.136(I)(1) & (2) as described in the latest UL 1569 CRD
- Listed for use in UL 1, 2 and 3 Hour Through Penetration Firestop Systems
- Passes both "UL Test" & "FT4/IEEE 1202" (70,000 Btu/hr) Vertical Cable Tray Flame Test
- REACH/RoHS-2 (Chemical Limit) Compliant

CONSTRUCTION

MC-PCS Duo™ Cable is constructed with 12 AWG or 10 AWG CU Type THHN/THWN power and ground conductors along with a control conductor assembly composed of a 30 mil PVC jacket covering two twisted jacketed 16 AWG CU Type TFN control conductors. The phase conductors, ground, and control conductor assembly are cabled together and a binder tape bearing the print legend is wrapped around the assembly. Light weight galvanized steel interlocking armor is applied over the taped assembly. Yellow stripe/blocks are printed on the outside of the armor and the print legend is applied in black print on every 4th yellow stripe/block.

FEATURES

- Full compliance with NEC 330, NEC 725, and UL 1569
- 16 AWG signal wiring for 0-10V dimming.
- Circuit Identification printed directly on the armor
- Available in 250' coils, 1000' reels, 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.
- Anti-short bushings are not required for use with Type MC Cable per the NEC and UL.

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DURACLAD® MC-PCS DUO™ POWER & CONTROL/SIGNAL CABLE

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) 16-2 SOLID (PURPLE/PINK)	12 SOLID (GREEN)		59-93-96-02	206	0.608
STRANDED CONDUCTOR COLORS 120/208V					
12-2 STRANDED (BLACK/WHITE) 16-2 SOLID (PURPLE/PINK)	12 STRANDED (GREEN)		59-94-04-02	213	0.623
Consult NEC 310.15 for ampacities. Other constructions available upon request.					

NEC TABLE 310.15(B)(16)- ALLOWABLE AMPACITY FOR 600V CONDUCTORS

SIZE AWG OR KCMIL	TEMPERATURE RATING OF CONDUCTOR		
	60°C (140°F) TYPES: TW, UF	75°C (167°F) TYPES: RHW, THHW, THW, THWN, XHHW, USE, ZW	90°C (194°F) 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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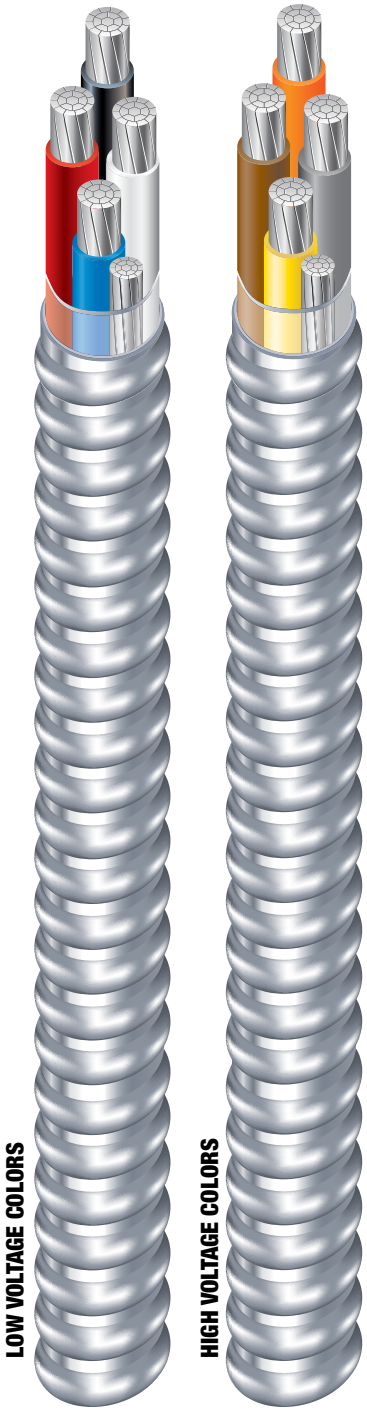
ALUMAFLEX™ TYPE MC AL FEEDER THHN/THWN-2 CONDUCTORS

UL LISTED



1/0 AWG through 900 kcmil AlumaFlex™ THHN/THWN-2 Insulated Singles with 8000 series Triple E™ Aluminum Alloy. Bare AlumaFlex™ Aluminum Alloy Grounding Conductor. UL Listed. 600 Volts. Lightweight Aluminum Interlocked Armor.

APPLICATIONS

Suitable for use as follows:

- Feeder and service power distribution in commercial, industrial, institutional, and multi residential buildings.
- Power, lighting circuits.
- 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 AlumaFlex™ Type MC Cable with Triple E™ Aluminum Alloy meets or exceeds these requirements:

- UL 83
- UL 1569
- UL 1685
- Federal Specification A-A59544 (formerly J-C-30B)
- UL Online Product Guide Info - Metal-Clad Cable (PJAZ) (www.ul.com)
- IEEE 1202 (70,000 Btu/hr) Vertical Cable Tray Flame Test
- NFPA 70 (National Electrical Code), Article 330
- REACH/RoHS-2 (Chemical Limit) Compliant
- Listed for use in UL 1, 2, and 3 Hour Through-Penetration Firestop Systems

CONSTRUCTION

Southwire AlumaFlex™ Type MC Cable with Triple E™ Aluminum Alloy is constructed with Type THHN/THWN-2 conductors rated 90° C dry, and a bare equipment grounding conductor. Conductors are AlumaFlex™ AA-8000 series aluminum alloy compact stranded. A binder tape is wrapped over the conductors. Aluminum interlocking armor is applied over the assembly. Conductors also available in High Voltage Colors.

FEATURES

- Lightweight aluminum armor--as much as 45% lighter than steel MC Cable.
- 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

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ALUMAFLEX™ TYPE MC AL FEEDER THHN/THWN-2 CONDUCTORS

CONDUCTOR SIZE AND COLORS	GROUNDING SIZE	STOCK NUMBER	WEIGHT (LBS/1000')	OVERALL DIAMETER (INCHES)
CONDUCTOR COLORS 277/480V				
1/0-3 AL THHN (BROWN/ORANGE/YELLOW)	4 ALUMINUM (BARE)	56-54-27-99	602	1.190
1/0-4 AL THHN (BROWN/ORANGE/YELLOW/GRAY)	4 ALUMINUM (BARE)	56-33-65-99	758	1.304
2/0-3 AL THHN (BROWN/ORANGE/YELLOW)	4 ALUMINUM (BARE)	56-54-29-99	705	1.276
2/0-4 AL THHN (BROWN/ORANGE/YELLOW/GRAY)	4 ALUMINUM (BARE)	56-33-74-99	893	1.40
3/0-3 AL THHN (BROWN/ORANGE/YELLOW)	4 ALUMINUM (BARE)	56-28-11-99	833	1.38
3/0-4 AL THHN (BROWN/ORANGE/YELLOW/GRAY)	4 ALUMINUM (BARE)	55-98-94-99	1138	1.61
4/0-3 AL THHN (BROWN/ORANGE/YELLOW)	2 ALUMINUM (BARE)	56-27-08-99	1089	1.59
4/0-4 AL THHN (BROWN/ORANGE/YELLOW/GRAY)	2 ALUMINUM (BARE)	55-98-96-99	1374	1.74
250-3 AL THHN (BROWN/ORANGE/YELLOW)	2 ALUMINUM (BARE)	56-28-16-99	1292	1.73
250-4 AL THHN (BROWN/ORANGE/YELLOW/GRAY)	1 ALUMINUM (BARE)	55-99-04-99	1634	1.9
300-3 AL THHN (BROWN/ORANGE/YELLOW)	1 ALUMINUM (BARE)	56-28-18-99	1474	1.84
300-4 AL THHN (BROWN/ORANGE/YELLOW/GRAY)	1 ALUMINUM (BARE)	55-99-07-99	1873	2.02
350-3 AL THHN (BROWN/ORANGE/YELLOW)	1 ALUMINUM (BARE)	56-30-52-99	1653	1.942
350-4 AL THHN (BROWN/ORANGE/YELLOW/GRAY)	1/0 ALUMINUM (BARE)	55-99-09-99	2129	2.13
400-3 AL THHN (BROWN/ORANGE/YELLOW)	3/0 ALUMINUM (BARE)	56-27-04-99	1910	2.035
400-4 AL THHN (BROWN/ORANGE/YELLOW/GRAY)	3/0 ALUMINUM (BARE)	55-99-11-99	2420	2.23
500-3 AL THHN (BROWN/ORANGE/YELLOW)	2/0 ALUMINUM (BARE)	56-27-06-99	2224	2.201
500-4 AL THHN (BROWN/ORANGE/YELLOW/GRAY)	3/0 ALUMINUM (BARE)	55-99-15-99	2877	2.42
600-3 AL THHN (BROWN/ORANGE/YELLOW)	3/0 ALUMINUM (BARE)	56-54-36-99	2667	2.415
600-3 AL THHN (BROWN/ORANGE/YELLOW)	400 ALUMINUM (BARE)	57-33-66-99	2930	2.662
600-4 AL THHN (BROWN/ORANGE/YELLOW/GRAY)	3/0 ALUMINUM (BARE)	55-99-17-99	3415	2.66
600-4 AL THHN (BROWN/ORANGE/YELLOW/GRAY)	400 ALUMINUM (BARE)	55-98-69-99	3684	2.94
750-3 AL THHN (BROWN/ORANGE/YELLOW)	1/0 ALUMINUM (BARE)	56-30-46-99	3118	2.620
750-3 AL THHN (BROWN/ORANGE/YELLOW)	3/0 ALUMINUM (BARE)	56-54-43-99	3177	2.620
750-4 AL THHN (BROWN/ORANGE/YELLOW/GRAY)	3/0 ALUMINUM (BARE)	55-99-19-99	4089	2.9
900-4 AL THHN (BROWN/ORANGE/YELLOW/GRAY)	250 ALUMINUM (BARE)	55-98-66-99	4836	3.11

* Available with oversize grounding conductor when used for parallel feeds on special orders.
** For allowable ampacities, refer to NEC 310.15

ALUMAFLEX™ TYPE MC AL FEEDER THHN/THWN-2 CONDUCTORS

CONDUCTOR SIZE AND COLORS	GROUNDING SIZE	STOCK NUMBER	WEIGHT (LBS/1000')	OVERALL DIAMETER (INCHES)
CONDUCTOR COLORS 120/208V				
1/0-3 AL THHN (BLACK/RED/WHITE)	4 ALUMINUM (BARE)	55-87-59-99	602	1.190
1/0-4 AL THHN (BLACK/RED/BLUE/WHITE)	4 ALUMINUM (BARE)	60-52-87-99	758	1.304
2/0-3 AL THHN (BLACK/RED/WHITE)	4 ALUMINUM (BARE)	55-72-07-99	705	1.276
2/0-4 AL THHN (BLACK/RED/BLUE/WHITE)	4 ALUMINUM (BARE)	55-72-56-99	893	1.401
3/0-3 AL THHN (BLACK/RED/WHITE)	4 ALUMINUM (BARE)	55-87-67-99	833	1.38
3/0-4 AL THHN (BLACK/RED/BLUE/WHITE)	4 ALUMINUM (BARE)	60-52-95-99	1138	1.61
4/0-3 AL THHN (BLACK/RED/WHITE)	2 ALUMINUM (BARE)	55-72-15-99	1089	1.59
4/0-4 AL THHN (BLACK/RED/BLUE/WHITE)	2 ALUMINUM (BARE)	55-72-64-99	1374	1.74
250-3 AL THHN (BLACK/RED/WHITE)	2 ALUMINUM (BARE)	55-80-56-99	1275	1.73
250-3 AL THHN (BLACK/RED/WHITE)	1 ALUMINUM (BARE)	55-96-47-99	1292	1.735
250-4 AL THHN (BLACK/RED/BLUE/WHITE)	1 ALUMINUM (BARE)	60-70-69-99	1635	1.91
300-3 AL THHN (BLACK/RED/WHITE)	1 ALUMINUM (BARE)	55-42-78-99	1474	1.84
300-4 AL THHN (BLACK/RED/BLUE/WHITE)	1 ALUMINUM (BARE)	60-79-78-99	1873	2.02
350-3 AL THHN (BLACK/RED/WHITE)	1 ALUMINUM (BARE)	56-05-08-99	1653	1.94
350-4 AL THHN (BLACK/RED/BLUE/WHITE)	1/0 ALUMINUM (BARE)	60-70-77-99	2129	2.13
400-3 AL THHN (BLACK/RED/WHITE)	1 ALUMINUM (BARE)	55-77-73-99	1830	2.04
400-4 AL THHN (BLACK/RED/BLUE/WHITE)	3/0 ALUMINUM (BARE)	55-51-17-99	2420	2.24
500-3 AL THHN (BLACK/RED/WHITE)	1 ALUMINUM (BARE)	55-72-23-99	2177	2.2
500-3 AL THHN (BLACK/RED/WHITE)	2/0 ALUMINUM (BARE)	55-48-47-99	2224	2.202
500-3 AL THHN (BLACK/RED/WHITE)	3/0 ALUMINUM (BARE)	56-35-86-99	2257	2.202
500-3 AL THHN (BLACK/RED/WHITE)	250 ALUMINUM (BARE)	56-12-53-99	2373	2.42
500-4 AL THHN (BLACK/RED/BLUE/WHITE)	3/0 ALUMINUM (BARE)	60-70-85-99	2577	2.42
500-4 AL THHN (BLACK/RED/BLUE/WHITE)	250 ALUMINUM (BARE)	55-27-47-99	2955	2.42
600-3 AL THHN (BLACK/RED/WHITE)	1/0 ALUMINUM (BARE)	60-07-59-99	2608	2.42
600-3 AL THHN (BLACK/RED/WHITE)	400 ALUMINUM (BARE)	56-36-08-99	2930	2.662
600-4 AL THHN (BLACK/RED/BLUE/WHITE)	3/0 ALUMINUM (BARE)	60-70-93-99	3416	2.66
600-4 AL THHN (BLACK/RED/BLUE/WHITE)	400 ALUMINUM (BARE)	55-24-83-99	3684	2.94
750-3 AL THHN (BLACK/RED/WHITE)	1/0 ALUMINUM (BARE)	55-72-31-99	3118	2.63
750-3 AL THHN (BLACK/RED/WHITE)	3/0 ALUMINUM (BARE)	55-48-49-99	3177	2.63
750-3 AL THHN (BLACK/RED/WHITE)	750 ALUMINUM (BARE)	56-35-99-99	3777	2.891
750-4 AL THHN (BLACK/RED/BLUE/WHITE)	3/0 ALUMINUM (BARE)	60-71-01-99	4089	2.9
750-4 AL THHN (BLACK/RED/BLUE/WHITE)	750 ALUMINUM (BARE)	56-16-02-99	4696	3.2
900-4 AL THHN (BLACK/RED/BLUE/WHITE)	250 ALUMINUM (BARE)	55-98-33-99	4833	3.11

* Available with oversize grounding conductor when used for parallel feeds on special orders.
** For allowable ampacities, refer to NEC 310.15

ALUMAFLEX™ TYPE MC AL FEEDER THHN/THWN-2 CONDUCTORS

# OF CONDUCTORS	COLOR SEQUENCE	Color Coding 120/208Y	COLOR SEQUENCE	Color Coding 277/480Y
3		Black, Red, White		Brown, Orange, Gray
4		Black, Red, Blue, White		Brown, Orange, Yellow, Gray
Grounding Conductor		Bare		Bare

Color sequence for other special colors are available subject to economic order quantity.

NEC TABLE 310.15(B)(16)- ALLOWABLE AMPACITY FOR 600V CONDUCTORS

SIZE AWG OR KCMIL	TEMPERATURE RATING OF CONDUCTOR		
	60°C (140°F) TYPES: TW, UF	75°C (167°F) TYPES: RHW, THHW, THW, THWN, XHHW, USE, ZW	90°C (194°F) TYPES: TBS, SA, SIS, RHH, RHW-2, THHN, THHW, THW- 2, THWN-2, USE-2, XHH, XHHW, XHHW-2, ZW-2
	COPPER		
18	-	-	-
16	-	-	-
14	-	-	-
12	15	20	25
10	25	30	35
8	35	40	45
6	40	50	55
4	55	65	75
3	65	75	85
2	75	90	100
1	85	100	115
1/0	100	120	135
2/0	115	135	150
3/0	130	155	175
4/0	150	180	205
250	170	205	230
300	195	230	260
350	210	250	280
400	225	270	305
500	260	310	350
600	285	340	385
700	315	375	425
750	320	385	435
800	330	395	445
900	355	425	480
1000	375	445	500
1250	405	485	545
1500	435	520	585
1750	455	545	615
2000	470	560	630

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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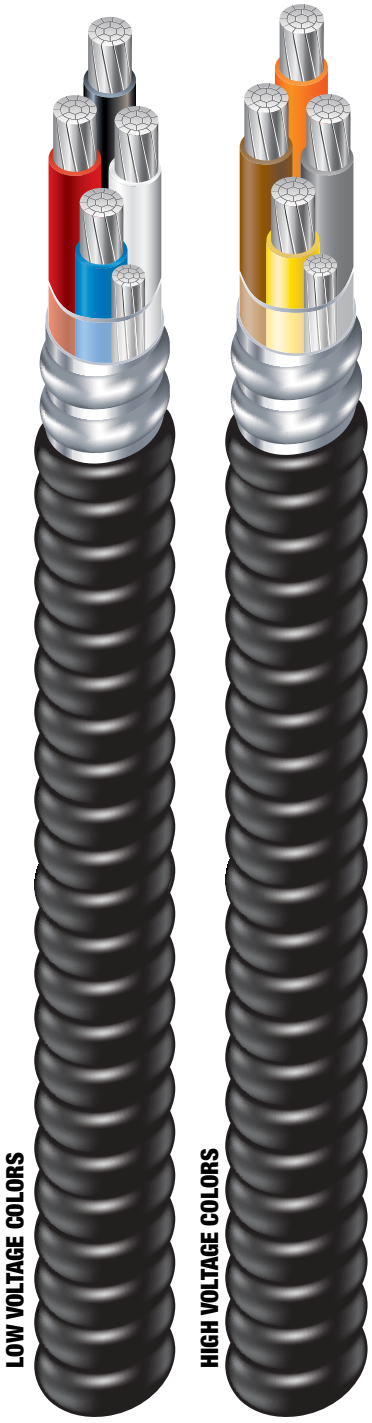
ALUMAFLEX™ TYPE MC FEEDER PVC JACKETED

UL LISTED



1/0 AWG through 900 kcmil AlumaFlex™ THHN/THWN-2 Insulated Singles with 8000 series Triple E™ Aluminum Alloy. Bare AlumaFlex™ Aluminum Alloy Grounding Conductor. UL Listed. 600 Volts. Lightweight Aluminum Interlocked Armor. Overall PVC Jacket.

APPLICATIONS

Type MC Cable - "flame retardant sunlight resistant PVC Jacket" is 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.
- Power, lighting, control, and signal circuits.
- 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 AlumaFlex™ Type MC Cable - PVC Jacketed 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 Firestop Systems
- REACH/RoHS-2 (Chemical Limit) Compliant

CONSTRUCTION

Southwire AlumaFlex™ Type MC Cable with Triple E™ Aluminum Alloy - PVC Jacketed is constructed with Aluminum Type THHN/THWN-2 conductors rated 90°C wet or dry, and a bare aluminum 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. The jacket is available in other colors upon request, subject to economic order quantities.

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

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ALUMAFLEX™ TYPE MC FEEDER PVC JACKETED

CONDUCTOR SIZE AND COLORS	GROUNDING SIZE	STOCK NUMBER	WEIGHT (LBS/1000')	OVERALL DIAMETER (INCHES)
CONDUCTOR COLORS 120/208V				
1/0-3 AL THHN (BLACK/RED/WHITE)	4 ALUMINUM (BARE)	55-25-87-99	716	1.290
1/0-4 AL THHN (BLACK/RED/BLUE/WHITE)	4 ALUMINUM (BARE)	55-42-82-99	883	1.402
2/0-3 AL THHN (BLACK/RED/WHITE)	4 ALUMINUM (BARE)	55-24-65-99	827	1.375
2/0-4 AL THHN (BLACK/RED/BLUE/WHITE)	4 ALUMINUM (BARE)	55-58-07-99	1027	1.5
3/0-3 AL THHN (BLACK/RED/WHITE)	4 ALUMINUM (BARE)	55-24-64-99	964	1.477
3/0-4 AL THHN (BLACK/RED/BLUE/WHITE)	4 ALUMINUM (BARE)	55-49-34-99	1323	1.732
4/0-3 AL THHN (BLACK/RED/WHITE)	2 ALUMINUM (BARE)	55-24-84-99	1271	1.71
4/0-4 AL THHN (BLACK/RED/BLUE/WHITE)	2 ALUMINUM (BARE)	55-42-83-99	1573	1.859
250-3 AL THHN (BLACK/RED/WHITE)	2 ALUMINUM (BARE)	55-56-67-99	1474	1.855
250-3 AL THHN (BLACK/RED/WHITE)	1 ALUMINUM (BARE)	56-38-04-99	1490	1.855
250-4 AL THHN (BLACK/RED/BLUE/WHITE)	1 ALUMINUM (BARE)	55-42-84-99	1851	2.021
300-4 AL THHN (BLACK/RED/BLUE/WHITE)	1 ALUMINUM (BARE)	55-49-35-99	2013	2.14
350-3 AL THHN (BLACK/RED/WHITE)	1 ALUMINUM (BARE)	56-12-48-99	1874	2.062
350-4 AL THHN (BLACK/RED/BLUE/WHITE)	1/0 ALUMINUM (BARE)	55-58-08-99	2371	2.253
400-4 AL THHN (BLACK/RED/BLUE/WHITE)	3/0 ALUMINUM (BARE)	56-07-85-99	2674	2.357
500-3 AL THHN (BLACK/RED/WHITE)	1 ALUMINUM (BARE)	55-58-09-99	2426	2.321
500-3 AL THHN (BLACK/RED/WHITE)	3/0 ALUMINUM (BARE)	56-35-89-99	5809	2.075
500-3 AL THHN (BLACK/RED/WHITE)	250 ALUMINUM (BARE)	56-35-92-99	2718	2.573
500-4 AL THHN (BLACK/RED/BLUE/WHITE)	3/0 ALUMINUM (BARE)	55-49-32-99	3222	2.573
500-4 AL THHN (BLACK/RED/BLUE/WHITE)	250 ALUMINUM (BARE)	56-08-04-99	3300	2.573
600-3 AL THHN (BLACK/RED/WHITE)	1/0 ALUMINUM (BARE)	55-58-10-99	2951	2.565
600-3 AL THHN (BLACK/RED/WHITE)	400 ALUMINUM (BARE)	56-37-55-99	3308	2.812
600-4 AL THHN (BLACK/RED/BLUE/WHITE)	3/0 ALUMINUM (BARE)	55-58-11-99	3793	2.812
600-4 AL THHN (BLACK/RED/BLUE/WHITE)	400 ALUMINUM (BARE)	56-07-82-99	2674	3.10
750-3 AL THHN (BLACK/RED/WHITE)	1/0 ALUMINUM (BARE)	55-58-12-99	3490	2.77
750-3 AL THHN (BLACK/RED/WHITE)	3/0 ALUMINUM (BARE)	56-36-06-99	3549	2.77
750-4 AL THHN (BLACK/RED/BLUE/WHITE)	3/0 ALUMINUM (BARE)	55-49-33-99	4499	3.045
750-4 AL THHN (BLACK/RED/BLUE/WHITE)	750 ALUMINUM (BARE)	56-36-03-99	5210	3.37
900-4 AL THHN (BLACK/RED/BLUE/WHITE)	250 ALUMINUM (BARE)	56-07-88-99	5337	3.281
For allowable ampacities, refer to NEC Section 310.15.				

ALUMAFLEX™ TYPE MC FEEDER PVC JACKETED

CONDUCTOR SIZE AND COLORS	GROUNDING SIZE	STOCK NUMBER	WEIGHT (LBS/1000')	OVERALL DIAMETER (INCHES)
CONDUCTOR COLORS 277/480V				
3/0-3 AL THHN (BROWN/ORANGE/GRAY)	4 ALUMINUM (BARE)	56-07-53-99	964	1.477
3/0-4 AL THHN (BROWN/ORANGE/YELLOW/GRAY)	4 ALUMINUM (BARE)	56-07-57-99	1323	1.734
4/0-3 AL THHN (BROWN/ORANGE/GRAY)	2 ALUMINUM (BARE)	56-07-54-99	1271	1.71
4/0-4 AL THHN (BROWN/ORANGE/YELLOW/GRAY)	2 ALUMINUM (BARE)	56-07-58-99	1573	1.859
250-3 AL THHN (BROWN/ORANGE/GRAY)	2 ALUMINUM (BARE)	56-07-56-99	1474	1.855
250-4 AL THHN (BROWN/ORANGE/YELLOW/GRAY)	1 ALUMINUM (BARE)	56-07-59-99	1851	2.021
300-3 AL THHN (BROWN/ORANGE/GRAY)	1 ALUMINUM (BARE)	58-75-18-99	1686	1.963
300-4 AL THHN (BROWN/ORANGE/YELLOW/GRAY)	1 ALUMINUM (BARE)	56-07-60-99	2103	2.14
350-3 AL THHN (BROWN/ORANGE/GRAY)	1 ALUMINUM (BARE)	58-49-69-99	1876	2.062
350-4 AL THHN (BROWN/ORANGE/YELLOW/GRAY)	1/0 ALUMINUM (BARE)	56-07-66-99	2371	2.253
400-3 AL THHN (BROWN/ORANGE/YELLOW)	3/0 ALUMINUM (BARE)	59-14-35-99	2158	2.216
400-4 AL THHN (BROWN/ORANGE/YELLOW/GRAY)	3/0 ALUMINUM (BARE)	56-07-68-99	2674	2.357
500-3 AL THHN (BROWN/ORANGE/GRAY)	1 ALUMINUM (BARE)	58-49-70-99	2426	2.321
500-4 AL THHN (BROWN/ORANGE/YELLOW/GRAY)	3/0 ALUMINUM (BARE)	56-07-67-99	3222	2.573
600-3 AL THHN (BROWN/ORANGE/YELLOW)	3/0 ALUMINUM (BARE)	59-14-38-99	3011	2.565
600-4 AL THHN (BROWN/ORANGE/YELLOW/GRAY)	3/0 ALUMINUM (BARE)	56-07-70-99	3793	2.812
600-4 AL THHN (BROWN/ORANGE/YELLOW/GRAY)	400 ALUMINUM (BARE)	56-07-83-99	4100	3.09
750-3 AL THHN (BROWN/ORANGE/YELLOW)	750 ALUMINUM (BARE)	56-33-05-99	4188	3.045
750-4 AL THHN (BROWN/ORANGE/YELLOW/GRAY)	3/0 ALUMINUM (BARE)	56-07-84-99	4498	3.041
900-4 AL THHN (BROWN/ORANGE/YELLOW/GRAY)	250 ALUMINUM (BARE)	56-07-90-99	5337	3.281
For allowable ampacities, refer to NEC Section 310.15.				

ALUMAFLEX™ TYPE MC FEEDER PVC JACKETED

NEC TABLE 310.15(B)(16)- ALLOWABLE AMPACITY FOR 600V CONDUCTORS

SIZE AWG OR KCMIL	TEMPERATURE RATING OF CONDUCTOR		
	60°C (140°F) TYPES: TW, UF	75°C (167°F) TYPES: RHW, THHW, THW, THWN, XHHW, USE, ZW	90°C (194°F) TYPES: TBS, SA, SIS, RHH, RHW-2, THHN, THHW, THW- 2, THWN-2, USE-2, XHH, XHHW, XHHW-2, ZW-2
	COPPER		
18	-	-	-
16	-	-	-
14	-	-	-
12	15	20	25
10	25	30	35
8	35	40	45
6	40	50	55
4	55	65	75
3	65	75	85
2	75	90	100
1	85	100	115
1/0	100	120	135
2/0	115	135	150
3/0	130	155	175
4/0	150	180	205
250	170	205	230
300	195	230	260
350	210	250	280
400	225	270	305
500	260	310	350
600	285	340	385
700	315	375	425
750	320	385	435
800	330	395	445
900	355	425	480
1000	375	445	500
1250	405	485	545
1500	435	520	585
1750	455	545	615
2000	470	560	630
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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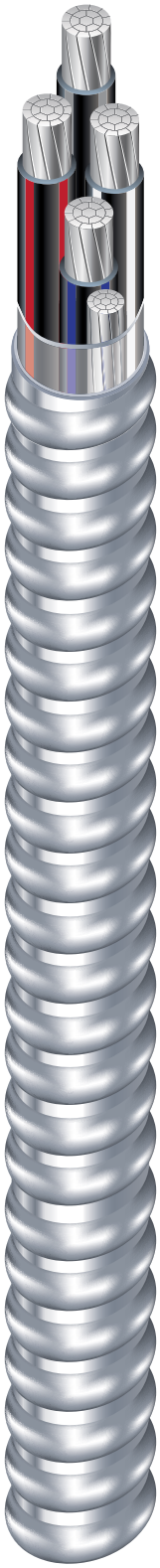
ALUMAFLEX™ TYPE MC-XHHW-2

LISTED



6 AWG through 900 kcmil AlumaFlex™ XHHW-2 Insulated Singles with 8000 series Triple E™ Aluminum Alloy. Bare AlumaFlex™ Aluminum Alloy Grounding Conductor. UL Listed. 600 Volts. Lightweight Aluminum Interlocked Armor.

APPLICATIONS

Suitable for use as follows:

- Branch, feeder and service power distribution under high ambient temperatures in commercial, industrial, institutional, and multi-residential buildings.
- Power, lighting, control, and signal circuits.
- 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 AlumaFlex™ Type MC-XHHW-2 Cable meets or exceeds the requirements:

- UL 44
- UL 1569
- UL Online Product Guide Info - Metal-Clad Cable (PJAZ) (www.ul.com)
- ICEA S-95-658 (NEMA WC70)
- Federal Specification A-A59544 (formerly J-C-30B)
- 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 AlumaFlex™ Type MC-XHHW-2 Cable with Triple E™ Aluminum Alloy is constructed with Type XHHW-2 conductors rated 90° C dry, and a bare equipment grounding conductor. Conductors are AlumaFlex™ AA-8000 series aluminum alloy compact stranded. A binder tape is wrapped over the conductors. Aluminum interlocking armor is applied over the assembly. Refer to color chart for conductor color sequence.

FEATURES

- 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
- Phase Conductors are Black with Three Extruded Color Stripes

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ALUMAFLEX™ TYPE MC-XHHW-2

CONDUCTOR SIZE AND COLORS	GROUNDING SIZE AND COLOR	STOCK NUMBER	WEIGHT (LBS/1000')	OVERALL DIAMETER (INCHES)
SOLID CONDUCTOR COLORS 120/208V				
6-3 STRANDED XHHW (BLACK/BLACK-WHITE/BLACK-RED)	6 STRANDED (BARE)	89-00-92-99	228	0.784
6-4 STRANDED XHHW (BLACK/BLACK-BLUE/ BLACK-WHITE/BLACK-RED)	6 STRANDED (BARE)	61-12-03-99	275	0.85
4-3 STRANDED XHHW (BLACK/BLACK-WHITE/BLACK-RED)	6 STRANDED (BARE)	60-07-42-99	302	0.956
4-4 STRANDED XHHW (BLACK/BLACK-BLUE/ BLACK-WHITE/BLACK-RED)	6 STRANDED (BARE)	60-83-64-99	356	0.949
2-3 STRANDED XHHW (BLACK/BLACK-WHITE/BLACK-RED)	4 STRANDED (BARE)	55-71-99-99	418	1.089
2-4 STRANDED XHHW (BLACK/BLACK-BLUE/ BLACK-WHITE/BLACK-RED)	4 STRANDED (BARE)	55-72-49-99	522	1.250
1-3 STRANDED XHHW (BLACK/BLACK-WHITE/BLACK-RED)	4 STRANDED (BARE)	55-80-64-99	488	1.101
1-4 STRANDED XHHW (BLACK/BLACK-BLUE/ BLACK-WHITE/BLACK-RED)	4 STRANDED (BARE)	55-99-63-99	609	1.206
For allowable ampacities, refer to NEC 310.15. Available with oversized grounding conductor when used for parallel feeds on special orders. Available in sizes up to 900 MCM.				

# OF CONDUCTORS	COLOR SEQUENCE
	Color Coding 120/208Y
3	Black, Red Striped, and White Striped
4	Black, Red Striped, Blue Striped, and White Striped
Grounding Conductor	Bare

ALUMAFLEX™ TYPE MC-XHHW-2

NEC TABLE 310.15(B)(16)- ALLOWABLE AMPACITY FOR 600V CONDUCTORS

SIZE AWG OR KCMIL	TEMPERATURE RATING OF CONDUCTOR		
	60°C (140°F) TYPES: TW, UF	75°C (167°F) TYPES: RHW, THHW, THW, THWN, XHHW, USE, ZW	90°C (194°F) TYPES: TBS, SA, SIS, RHH, RHW-2, THHN, THHW, THW- 2, THWN-2, USE-2, XHH, XHHW, XHHW-2, ZW-2
	COPPER		
18	-	-	-
16	-	-	-
14	-	-	-
12	15	20	25
10	25	30	35
8	35	40	45
6	40	50	55
4	55	65	75
3	65	75	85
2	75	90	100
1	85	100	115
1/0	100	120	135
2/0	115	135	150
3/0	130	155	175
4/0	150	180	205
250	170	205	230
300	195	230	260
350	210	250	280
400	225	270	305
500	260	310	350
600	285	340	385
700	315	375	425
750	320	385	435
800	330	395	445
900	355	425	480
1000	375	445	500
1250	405	485	545
1500	435	520	585
1750	455	545	615
2000	470	560	630
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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ALUMAFLEX™ TYPE MC-XHHW-2 PVC JACKETED

UL LISTED

6 AWG through 900 kcmil XHHW-2 Insulated Singles with 8000 Series Triple E™ Aluminum Alloy. Bare AlumaFlex™ Aluminum Alloy Grounding Conductor. UL Listed. 600 Volts. 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 under high ambient temperatures in commercial, industrial, institutional, and multi-residential buildings.
- Power, lighting, control, and signal circuits.
- 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 AlumaFlex™ Type MC-XHHW-2 Cable - PVC Jacketed meets or exceeds the requirements:

- UL 44
- UL 1569
- UL Online Product Guide Info - Metal-Clad Cable (PJAZ) (www.ul.com)
- ICEA S-95-658 (NEMA WC70)
- Federal Specification A-A59544 (formerly J-C-30B)
- 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 AlumaFlex™ Type MC-XHHW-2 Cable with Triple E™ Aluminum Alloy with PVC jacket is constructed with Type XHHW-2 conductors rated 90˚C wet or dry, and a bare equipment grounding conductor. Conductors are AlumaFlex™ AA-8000 series aluminum alloy compact stranded. A binder tape is wrapped over the conductors. Aluminum interlocking armor is applied over the assembly. A PVC Jacket is applied over the armor.

FEATURES

- 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
- Phase Conductors are Black with Three Extruded Color Stripes

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ALUMAFLEX™ TYPE MC-XHHW-2 PVC JACKETED

CONDUCTOR SIZE AND COLORS	GROUNDING SIZE AND COLOR	STOCK NUMBER	WEIGHT (LBS/1000')	OVERALL DIAMETER (INCHES)
SOLID CONDUCTOR COLORS 120/208V				
6-3 STRANDED XHHW (BLACK/BLACK-WHITE/ BLACK-RED)	6 STRANDED (BARE)	55-96-94-99	305	0.884
6-4 STRANDED XHHW (BLACK/BLACK-BLUE/ BLACK-WHITE/BLACK-RED)	6 STRANDED (BARE)	56-07-78-99	372	0.951
4-3 STRANDED XHHW (BLACK/BLACK-WHITE/ BLACK-RED)	6 STRANDED (BARE)	55-40-13-99	395	1.056
4-4 STRANDED XHHW (BLACK/BLACK-BLUE/ BLACK-WHITE/BLACK-RED)	6 STRANDED (BARE)	56-07-81-99	452	1.049
2-3 STRANDED XHHW (BLACK/BLACK-WHITE/ BLACK-RED)	4 STRANDED (BARE)	55-42-80-99	523	1.189
2-4 STRANDED XHHW (BLACK/BLACK-BLUE/ BLACK-WHITE/BLACK-RED)	4 STRANDED (BARE)	56-07-80-99	607	1.182
1-3 STRANDED XHHW (BLACK/BLACK-WHITE/ BLACK-RED)	4 STRANDED (BARE)	55-42-81-99	594	1.201
1-4 STRANDED XHHW (BLACK/BLACK-BLUE/ BLACK-WHITE/BLACK-RED)	4 STRANDED (BARE)	55-25-95-99	735	1.313
For allowable ampacities, refer to NEC 310.15. Available with oversized grounding conductor when used for parallel feeds on special orders. Available in sizes up to 900 MCM				

NO. OF CONDUCTORS	COLOR SEQUENCE 120/208Y
3	Black, Red Striped, and White Striped
4	Black, Red Striped, Blue Striped, and White Striped
Grounding Conductor	Bare

# OF CONDUCTORS	COLOR SEQUENCE	Color Coding 120/208Y
3	Black, Red Striped, and White Striped	
4	Black, Red Striped, Blue Striped, and White Striped	
Grounding Conductor	Bare	

ALUMAFLEX™ TYPE MC-XHHW-2 PVC JACKETED

NEC TABLE 310.15(B)(16)- ALLOWABLE AMPACITY FOR 600V CONDUCTORS

SIZE AWG OR KCMIL	TEMPERATURE RATING OF CONDUCTOR		
	60°C (140°F) TYPES: TW, UF	75°C (167°F) TYPES: RHW, THHW, THW, THWN, XHHW, USE, ZW	90°C (194°F) TYPES: TBS, SA, SIS, RHH, RHW-2, THHN, THHW, THW- 2, THWN-2, USE-2, XHH, XHHW, XHHW-2, ZW-2
	COPPER		
18	-	-	-
16	-	-	-
14	-	-	-
12	15	20	25
10	25	30	35
8	35	40	45
6	40	50	55
4	55	65	75
3	65	75	85
2	75	90	100
1	85	100	115
1/0	100	120	135
2/0	115	135	150
3/0	130	155	175
4/0	150	180	205
250	170	205	230
300	195	230	260
350	210	250	280
400	225	270	305
500	260	310	350
600	285	340	385
700	315	375	425
750	320	385	435
800	330	395	445
900	355	425	480
1000	375	445	500
1250	405	485	545
1500	435	520	585
1750	455	545	615
2000	470	560	630
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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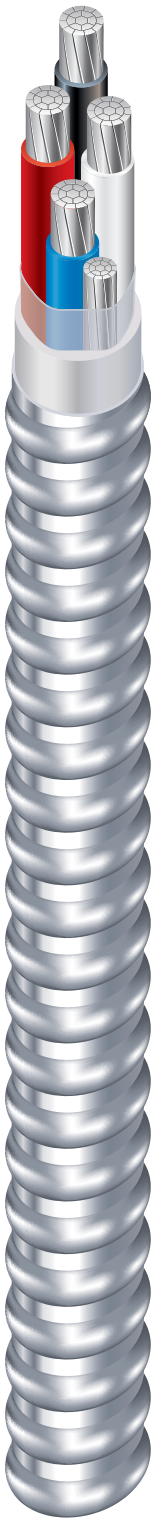
ALUMAFLEX™ RISER MC™ CABLE TYPE MC AL FEEDER THHN/THWN-2 CONDUCTORS

UL LISTED



1/0 AWG through 900 kcmil AlumaFlex™ THHN/THWN-2 Insulated Singles with 8000 series Triple E™ Aluminum Alloy. Bare AlumaFlex™ Aluminum Alloy Grounding Conductor. UL Listed. 600 Volts. Binder Jacket for Continuous Conductor Support. Lightweight Aluminum Interlocked Armor.

APPLICATIONS

Suitable for use as follows:

- Riser Cable, vertical applications
- Branch, feeder and service power distribution in commercial, industrial, institutional, and multi-residential buildings.
- Power, lighting, control, and signal circuits.
- 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).

STANDARDS & REFERENCES

Southwire AlumaFlex Riser MC™ Cable meets or exceeds the requirements of:

- UL 83
- UL 1569
- UL 1685
- ICEA S-95-658 (NEMA WC70)
- Federal Specification A-A59544 (formerly J-C-30B)
- FT4/IEEE 1202 (70,000 Btu/hr)
- 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 AlumaFlex Riser MC™ Cable with Triple E™ Aluminum Alloy is constructed with Type THHN/THWN-2 conductors and a bare equipment grounding conductor. Conductors are AlumaFlex™ 8000 series aluminum alloy compact stranded. A binder tape is wrapped over the conductors and an integral polymeric binder jacket is applied under armor for continuous conductor support. Aluminum interlocking armor is applied snuggly over the assembly. An optional overall PVC Jacket can be applied over the armor.

FEATURES

- Ideal for use in vertical high rise applications
- Available with aluminum or copper THHN or XHHW conductors
- Available in custom constructions and lengths
- Polymeric binder jacket over the conductors provides continuous conductor support
- Available with Southwire pulling heads and on stacked reels.

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ALUMAFLEX™ RISER MC™ CABLE TYPE MC AL FEEDER THHN/THWN-2 CONDUCTORS

CONDUCTOR SIZE AND COLORS	GROUNDING SIZE	STOCK NUMBER	WEIGHT (LBS/1000')	OVERALL DIAMETER (INCHES)
SOLID CONDUCTOR COLORS 120/208V				
1-4 AL (BLACK/WHITE/RED/BLUE)	4 ALUMINUM (BARE)	59-75-42-99	970	1.615
1/0-4 AL (BROWN/ORANGE/YELLOW/GRAY)	4 ALUMINUM (GREEN)	58-34-62-99	1165	1.820
2/0-3 AL (BLACK/WHITE/RED)	4 ALUMINUM (GREEN)	58-37-66-99	1070	1.695
2/0-4 AL (BLACK/WHITE/RED/BLUE)	4 ALUMINUM (BARE)	59-62-79-99	1245	1.770
3/0-3 AL (BLACK/WHITE/RED)	4 ALUMINUM (GREEN)	58-39-13-99	1230	1.865
3/0-4 AL (BLACK/WHITE/RED/BLUE)	4 ALUMINUM (BARE)	59-33-49-99	1505	2.035
4/0-3 AL (BLACK/WHITE/RED)	2 ALUMINUM (GREEN)	58-39-17-99	1445	1.945
4/0-4 AL (BROWN/ORANGE/YELLOW/GRAY)	1 ALUMINUM (GREEN)	58-18-69-01	1805	2.160
250-3 AL (BROWN/ORANGE/YELLOW)	1 ALUMINUM (BARE)	58-06-37-99	1650	1.995
250-4 AL (BROWN/ORANGE/YELLOW/GRAY)	1 ALUMINUM (BARE)	56-52-12-99	1995	2.160
350-4 AL (BLACK/WHITE/RED/BLUE)	1/0 ALUMINUM (BARE)	56-11-35-99	2540	2.445
400-4 AL (BROWN/ORANGE/YELLOW/GRAY)	3/0 ALUMINUM (BARE)	58-06-34-99	2845	2.500
500-4 AL (BROWN/ORANGE/YELLOW/GRAY)	3/0 ALUMINUM (GREEN)	56-49-42-99	3340	2.685
600-4 AL (BLACK/WHITE/RED/BLUE)	3/0 ALUMINUM (GREEN)	58-65-44-99	4035	3.070
750-3 AL (BROWN/ORANGE/YELLOW)	3/0 ALUMINUM (BARE)	56-27-00-99	3690	2.880
750-4 AL (BLACK/WHITE/RED/BLUE)	3/0 ALUMINUM (BARE)	56-11-37-99	4640	3.160

* Available with oversize grounding conductors and other constructions upon request.

** For allowable ampacities, refer to NEC 310.15

ALUMAFLEX™ RISER MC™ CABLE TYPE MC AL FEEDER THHN/THWN-2 CONDUCTORS

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	-	-	-
16	-	-	-
14	-	-	-
12	15	20	25
10	25	30	35
8	35	40	45
6	40	50	55
4	55	65	75
3	65	75	85
2	75	90	100
1	85	100	115
1/0	100	120	135
2/0	115	135	150
3/0	130	155	175
4/0	150	180	205
250	170	205	230
300	195	230	260
350	210	250	280
400	225	270	305
500	260	310	350
600	285	340	385
700	315	375	425
750	320	385	435
800	330	395	445
900	355	425	480
1000	375	445	500
1250	405	485	545
1500	435	520	585
1750	455	545	615
2000	470	560	630
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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ALUMAFLEX™ RISER MC™ CABLE TYPE MC AL FEEDER PVC JACKETED THHN/THWN-2 CONDUCTORS

UL LISTED

1/0 AWG through 900 kcmil AlumaFlex™ THHN/THWN-2 Insulated Singles with 8000 series Triple E™ Aluminum Alloy. Insulated green AlumaFlex™ Aluminum Alloy Grounding Conductor. UL Listed. 600 Volts. Binder Jacket for Continuous Conductor Support. Lightweight Aluminum Interlocked Armor. Overall PVC Jacket.

APPLICATIONS

Suitable for use as follows:

- Riser Cable, vertical applications
- Wet Location rated per NEC 330.10(11)(C)
- 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.
- Power, lighting, control, and signal circuits.
- Fished or embedded in plaster.
- Concealed or exposed installations.
- 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).

STANDARDS & REFERENCES

Southwire AlumaFlex Riser MC™ Cable meets or exceeds the requirements of:

- UL 83
- UL 1569
- UL 1685
- ICEA S-95-658 (NEMA WC70)
- Federal Specification A-A59544 (formerly J-C-30B)
- FT4/IEEE 1202 (70,000 Btu/hr)
- 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 AlumaFlex Riser MC™ Cable with Triple E™ Aluminum Alloy is constructed with Type THHN/THWN-2 conductors and an insulated green equipment grounding conductor. Conductors are AlumaFlex™ 8000 series aluminum alloy compact stranded. A binder tape is wrapped over the conductors and an integral polymeric binder jacket is applied under armor for continuous conductor support. Aluminum interlocking armor is applied snuggly over the assembly. A black flame retardant sunlight resistant PVC jacket is applied over the armor.

FEATURES

- Ideal for use in vertical high rise applications
- Available with aluminum or copper THHN or XHHW conductors
- Available in custom constructions and lengths
- Polymeric binder jacket over the conductors provides continuous conductor support
- Available with Southwire pulling heads and on stacked reels.

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ALUMAFLEX™ RISER MC™ CABLE TYPE MC AL FEEDER PVC JACKETED THHN/THWN-2 CONDUCTORS

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	-	-	-
16	-	-	-
14	-	-	-
12	15	20	25
10	25	30	35
8	35	40	45
6	40	50	55
4	55	65	75
3	65	75	85
2	75	90	100
1	85	100	115
1/0	100	120	135
2/0	115	135	150
3/0	130	155	175
4/0	150	180	205
250	170	205	230
300	195	230	260
350	210	250	280
400	225	270	305
500	260	310	350
600	285	340	385
700	315	375	425
750	320	385	435
800	330	395	445
900	355	425	480
1000	375	445	500
1250	405	485	545
1500	435	520	585
1750	455	545	615
2000	470	560	630
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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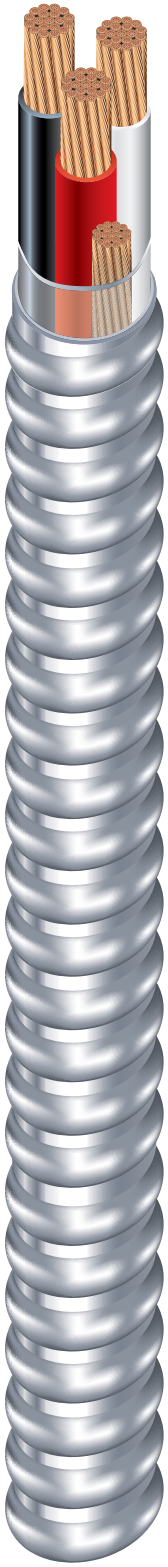
ARMORLITE® TYPE MC COPPER FEEDER

ARMORLITE® 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® 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)
- 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® 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.

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

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ARMORLITE® TYPE MC - COPPER FEEDER

CONDUCTOR SIZE AND COLORS	GROUNDING SIZE	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)	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
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/ PHASEID: 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
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.				

ARMORLITE® TYPE MC COPPER FEEDER

ARMORLITE® TYPE MC - COPPER FEEDER

PHASE CONDUCTORS ARE BLACK WITH PRINTED I.D.

# OF CONDUCTORS	COLOR SEQUENCE	Color Coding 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.

NEC TABLE 310.15(B)(16)- ALLOWABLE AMPACITY FOR 600V CONDUCTORS

SIZE AWG OR KCMIL	TEMPERATURE RATING OF CONDUCTOR		
	60°C (140°F) TYPES: TW, UF	75°C (167°F) TYPES: RHW, THHW, THW, THWN, XHHW, USE, ZW	90°C (194°F) 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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ARMORLITE® TYPE MC PVC JACKETED COPPER FEEDER CABLE

UL LISTED

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.

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

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ARMORLITE® TYPE MC PVC JACKETED COPPER FEEDER CABLE

CONDUCTOR SIZE AND COLORS	GROUNDING SIZE	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
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.				

ARMORLITE® TYPE MC PVC JACKETED COPPER FEEDER CABLE

PHASE CONDUCTORS ARE BLACK WITH PRINTED I.D.

# OF CONDUCTORS	COLOR SEQUENCE	Color Coding 120/208Y
2		Black, White
3		Black, White, Red
Grounding Conductor		Green

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

NEC TABLE 310.15(B)(16)- ALLOWABLE AMPACITY FOR 600V CONDUCTORS

SIZE AWG OR KCMIL	TEMPERATURE RATING OF CONDUCTOR		
	60°C (140°F) TYPES: TW, UF	75°C (167°F) TYPES: RHW, THHW, THW, THWN, XHHW, USE, ZW	90°C (194°F) 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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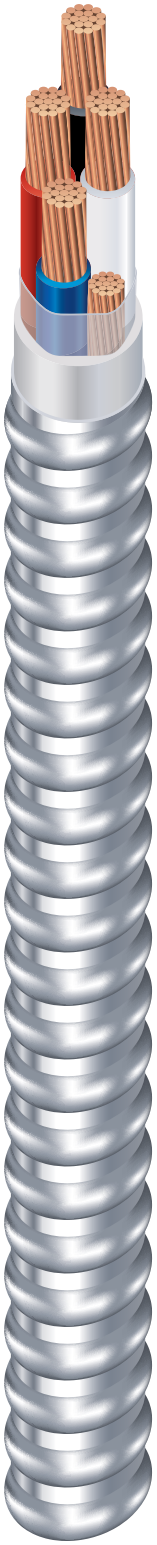
COPPER RISER MC™ CABLE TYPE MC CU FEEDER THHN/THWN-2 CONDUCTORS

UL LISTED



1/0 AWG through 750 kcmil Copper THHN/THWN-2 Insulated Singles. Bare Copper Grounding Conductor. UL Listed. 600 Volts. Binder Jacket for Continuous Conductor Support. Lightweight Aluminum Interlocked Armor.

APPLICATIONS

Suitable for use as follows:

- Riser Cable, vertical applications
- Branch, feeder and service power distribution in commercial, industrial, institutional, and multi-residential buildings.
- Power, lighting, control, and signal circuits.
- Fished or embedded in plaster.
- Concealed or exposed installations.
- 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).

STANDARDS & REFERENCES

Southwire Copper Riser MC™ Cable meets or exceeds the requirements of:

- UL 83
- UL 1569
- UL 1685
- ICEA S-95-658 (NEMA WC70)
- Federal Specification A-A59544 (formerly J-C-30B)
- FT4/IEEE 1202 (70,000 Btu/hr)
- 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 Copper Riser MC™ is constructed with Type THHN/THWN-2 conductors and a bare equipment grounding conductor. A binder tape is wrapped over the conductors and an integral polymeric binder jacket is applied under armor for continuous conductor support. Aluminum interlocking armor is applied snuggly over the assembly. An optional overall PVC Jacket can be applied over the armor.

FEATURES

- Ideal for use in vertical high rise applications
- Available with THHN or XHHW conductors
- Available in custom constructions and lengths
- Polymeric binder jacket over the conductors provides continuous conductor support
- Available with Southwire pulling heads and on stacked reels.
- Compatible with any fittings and clamps rated for use with standard Type MC.

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COPPER RISER MC™ CABLE TYPE MC CU FEEDER THHN/THWN-2 CONDUCTORS

CONDUCTOR SIZE AND COLORS	GROUNDING SIZE AND COLOR	STOCK NUMBER	WEIGHT (LBS/1000')	OVERALL DIAMETER (INCHES)
1-3C CU THHN (BLACK/RED/WHITE)	1 COPPER (BARE)	58-77-07-99	1653	1.693
1-4 CU THHN (BLACK/RED/BLUE/WHITE)	3 COPPER (BARE)	58-77-05-99	1902	1.818
3/0-3 CU THHN (BLACK/RED/WHITE)	3/0 COPPER (BARE)	58-77-06-99	2836	1.939
3/0-4 CU THHN (BLACK/RED/BLUE/WHITE)	2 COPPER (GREEN)	64-36-45-99	3186	2.089
4/0-4 CU THHN (BLACK/RED/BLUE/WHITE)	4/0 COPPER (BARE)	58-77-10-99	4262	2.318
250-3 CU THHN (BLACK/RED/WHITE)	4 COPPER (BARE)	64-35-66-99	3329	2.067
400-4 CU THHN (BROWN/ORANGE/YELLOW/GRAY)	4/0 COPPER (GREEN)	59-80-48-99	7028	2.853
600-4 CU THHN (BLACK/RED/BLUE/WHITE)	2 COPPER (BARE)	58-67-33-99	9192	3.04
600-4 CU THHN (BLACK/RED/BLUE/WHITE)	3/0 COPPER (GREEN)	64-36-48-99	9567	3.04
750-3 CU THHN (BROWN/ORANGE/YELLOW)	1/0 COPPER (BARE)	59-77-79-99	8739	3.0

* Available with oversize grounding conductors and other constructions upon request.
** For allowable ampacities, refer to NEC 310.15

COPPER RISER MC™ CABLE TYPE MC CU FEEDER PVC JACKETED THHN/THWN-2 CONDUCTORS

UL LISTED

1/0 AWG through 750 kcmil Copper THHN/THWN-2 Insulated Singles. Bare Copper Grounding Conductor. UL Listed. 600 Volts. Binder Jacket for Continuous Conductor Support. 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.
- Riser Cable, vertical applications
- Branch, feeder and service power distribution in commercial, industrial, institutional, and multiresidential buildings.
- Power, lighting, control, and signal circuits.
- Fished or embedded in plaster.
- Concealed or exposed installations.
- 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).

STANDARDS & REFERENCES

Southwire Copper Riser MC™ PVC Jacket Cable meets or exceeds the requirements of:

- UL 83
- UL 1569
- UL 1685
- ICEA S-95-658 (NEMA WC70)
- Federal Specification A-A59544 (formerly J-C-30B)
- FT4/IEEE 1202 (70,000 Btu/hr)
- 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 Copper Riser MC™ with PVC Jacket is constructed with Type THHN/THWN-2 conductors and a bare equipment grounding conductor. A binder tape is wrapped over the conductors and an integral polymeric binder jacket is applied under armor for continuous conductor support. Aluminum interlocking armor is applied snuggly over the assembly. A black flame retardant sunlight resistant PVC jacket is applied over the armor.

FEATURES

- Ideal for use in vertical high rise applications
- Available with THHN or XHHW conductors
- Available in custom constructions and lengths
- Polymeric binder jacket over the conductors provides continuous conductor support
- Available with Southwire pulling heads and on stacked reels.
- Compatible with any fittings and clamps rated for use with standard Type MC.

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COPPER RISER MC™ CABLE TYPE MC CU FEEDER PVC JACKETED THHN/THWN-2 CONDUCTORS

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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COPPER RISER MC™ CABLE TYPE MC CU FEEDER THHN/THWN-2 CONDUCTORS

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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EZ-QUICK™ MODULAR CABLE ASSEMBLY TYPE MC WITH COPPER THHN/THWN-2 CONDUCTORS

UL LISTED

14 AWG through 10 AWG THHN/THWN Insulated Singles. Green Insulated Ground. UL Listed. 600 Volts. Rated VW-1. Lightweight Aluminum Interlocked Armor. Includes UL Listed Fittings and Prepared Cable Ends.

APPLICATIONS

Southwire EZ-QUICK™ Modular Cable Assemblies are 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 EZ-QUICK™ Modular Cable Assemblies meet or exceed 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 10 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 cable assembly. Metal Clad Cable is cut to length and ends are prepared for installation.

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
- Pre-cut lengths eliminate on-site preparation and save installation and clean up time.
- Pre-stripped conductors increase jobsite safety
- UL Listed snap-in fittings applied to each end
- 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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EZ-QUICK™ MODULAR CABLE ASSEMBLY TYPE MC WITH COPPER THHN/THWN-2 CONDUCTORS

NEC TABLE 310.15(B)(16)- ALLOWABLE AMPACITY FOR 600V CONDUCTORS

SIZE AWG OR KCMIL	TEMPERATURE RATING OF CONDUCTOR		
	60°C (140°F) TYPES: TW, UF	75°C (167°F) TYPES: RHW, THHW, THW, THWN, XHHW, USE, ZW	90°C (194°F) 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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LITE-WHIP® PRE-ASSEMBLED STEEL FLEX 6' FIXTURE WHIPS

UL LISTED

Interlocked Steel Armor with Factory Installed Conductors. Factory Installed Lock-nut or Snap-in Fittings. 600 Volts. Sizes 18 and 16 AWG Copper TFN or TFFN Conductors. Sizes 14 and 12 AWG Copper THHN/THWN Conductors. Green Insulated Copper Grounding Conductor.

FEATURES & APPLICATIONS

- Complete assembly delivered from the factory ready to install. Includes 6" wire leads at each end and Lock-nut or Snap-in Fittings for easy and hassle-free hook-ups.
- Convenient labor- and material-saving assemblies.
- Convenient packaging is quick and easy to handle.
- Commonly used for connecting fluorescent lay-in fixtures and incandescent fixtures for suspended and accessible ceilings.

STANDARDS & REFERENCES

Lite-Whip® is UL Listed under the Wiring Assemblies (QQYZ) category.

CONSTRUCTION

Lite-Whip® is constructed with a continuously interlocked steel armor, solid or stranded THHN/THWN, solid TFN or stranded TFFN conductors, and approved Lock-nut or Snap-in fittings.

PART NUMBER	WIRE SIZE # OF COND./ SIZE	CONDUCTOR STRANDING	CARTON PACKAGE QUANTITY / WEIGHT	BARREL PACKAGE QUANTITY / WEIGHT
Lock-nut Fittings with Solid THHN/THWN or TFN Conductors				
LWL183	3 x #18 AWG	Solid	30 Units / 23 lbs	100 Units / 80 lbs
LWL184	4 x #18 AWG	Solid	30 Units / 24 lbs	100 Units / 84 lbs
LWL143	3 x #14 AWG	Solid	30 Units / 25 lbs	100 Units / 85 lbs
LWL144	4 x #14 AWG	Solid	30 Units / 26 lbs	100 Units / 90 lbs
LWL123	3 x #12 AWG	Solid	30 Units / 30 lbs	100 Units / 95 lbs
Snap-in Fittings with Solid THHN/THWN or TFN Conductors				
LWS183	3 x #18 AWG	Solid	30 Units / 23 lbs	100 Units / 80 lbs
LWS184	4 x #18 AWG	Solid	30 Units / 24 lbs	100 Units / 84 lbs
LWS143	3 x #14 AWG	Solid	30 Units / 25 lbs	100 Units / 85 lbs
LWS144	4 x #14 AWG	Solid	30 Units / 26 lbs	100 Units / 90 lbs
LWS123	3 x #12 AWG	Solid	30 Units / 30 lbs	100 Units / 95 lbs
Snap-in Fittings with Stranded THHN/THWN or TFFN Conductors				
LWS183S	3 x #18 AWG	Stranded	30 Units / 23 lbs	100 Units / 80 lbs
LWS184S	4 x #18 AWG	Stranded	30 Units / 24 lbs	100 Units / 84 lbs
LWS143S	3 x #14 AWG	Stranded	30 Units / 25 lbs	100 Units / 85 lbs
LWS144S	4 x #14 AWG	Stranded	30 Units / 26 lbs	100 Units / 90 lbs
LWS123S	3 x #12 AWG	Stranded	30 Units / 30 lbs	100 Units / 95 lbs

# OF CONDUCTORS	COLOR SEQUENCE	Color Coding 120/208Y
2		Black, White
3		Black, White, Red
Grounding Conductor		Green

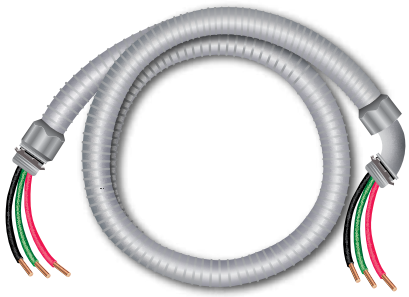
*Optional 277/480Y Volt Colors are available subject to economic quality.

# OF CONDUCTORS	COLOR SEQUENCE	Color Coding 277/480Y High Voltage
2		Brown, Grey
2		Orange, Grey
2		Yellow, Grey
2		Purple, Pink
3		Brown, Yellow, Grey
3		Brown, Orange, Grey
4		Brown, Orange, Yellow, Grey
4		Brown, Yellow, Purple, Pink

ONLINE CERTIFICATIONS & TOOLS

- UL Online Certification Directory (www.ul.com)
- UL Online Product Guide Info - Wiring Assemblies (QQYZ) (www.ul.com)

ULTRA-WHIP® PRE-ASSEMBLED NON-METALLIC HOOK-UP WHIPS



600 Volt. Stranded Copper THHN/THWN Insulated Singles. Green Insulated Copper Grounding Conductor.
Highly Flexible Non-metallic Conduit with Factory Installed Conductors. Liquidtight Flexible Non-metallic Conduit Type B (LFNC-B) Fittings. Intended for 208/240/480 Volt Single Phase Circuits.

FEATURES & APPLICATIONS

- Complete assembly delivered from the factory ready to install. Includes 12" wire leads at each end and LFNC-B Fittings for easy and hassle-free hook-ups.
- Resistant to rust, cracks, and separation.
- Non-metallic raceway is non-conducting.
- Commonly used for connecting air conditioners, pumps, motors, compressors, swimming pool equipment and similar equipment.

STANDARDS & REFERENCES

Ultra-Whip® meets or exceeds the following:

- UL Listed (QQYZ) category
- NEC Article 356
- UL 1660
- CSA C22.2 No 227.2

The fittings meet

- UL 514B
- CSA C22.2 No.18
- NEMA FB-1

CONSTRUCTION

Ultra-Whip® is a non-metallic conduit constructed with two different PVC materials that are extruded to form a highly flexible product designed especially for electrical applications. A rigid material forms the stiff helical spring, which is completely encapsulated by a second flexible compound. Stranded Copper THHN/THWN conductors and UL Listed LFNC-B Fittings are installed at the factory. 12" wire leads with 1/2" of stripped insulation are left exposed at each end for hassle-free hook-ups.

ONLINE CERTIFICATIONS & TOOLS

- UL Online Certifications Directory (www.ul.com)
- CSA Online Certifications Directory (www.csa.ca)
- UL Guide Information - Wiring Assemblies (QQYZ)
- CSA Product Information - Conduit-Flexible Nonmetallic, Liquidtight Conduit (1813-01)

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ULTRA-WHIP® PRE-ASSEMBLED NON-METALLIC HOOK-UP WHIPS

STOCK #	WIRE SIZE # OF COND./ SIZE	TRADE SIZE (INCHES)	CONDUIT LENGTH (FEET)	AMPS	MASTER CARTON QUANTITY (# OF PIECES)	MASTER CARTON WEIGHT (LBS)
R124	3/#10 AWG	0.5	4	30	6	12
R126	3/#10 AWG	0.5	6	30	6	13
R344	2/#8 AWG, 1/#10 AWG Ground	0.75	4	40	6	14
R347	2/#8 AWG, 1/#10 AWG Ground	0.75	6	40	6	15

# OF CONDUCTORS	COLOR SEQUENCE	Color Coding 120/208Y
2		Black, Red
Grounding Conductor		Green

*Optional 277/480Y Volt Colors are available subject to economic quality.

# OF CONDUCTORS	COLOR SEQUENCE	Color Coding 277/480Y High Voltage
2		Brown, Grey
2		Orange, Grey
2		Yellow, Grey
2		Purple, Pink
3		Brown, Yellow, Grey
3		Brown, Orange, Grey
4		Brown, Orange, Yellow, Grey
4		Brown, Yellow, Purple, Pink

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