

Duraclad Type MC - Lightweight Steel Armor

Duraclad® Type MC

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.



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One Southwire Drive, Carrollton, GA 30119, USA

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CONDUCTOR SIZE AND COLORS	GROUNDING SIZE AND COLOR	STOCK NUMBER		WEIGHT (LBS/1000')	OVERALL DIAMETER (INCHES)
		COIL (250')	REEL (1000')		
SOLID CONDUCTOR COLORS 120/208V					
14-2 SOLID (BLACK/WHITE)	14 SOLID (GREEN)	55-17-15-01	55-17-15-02	115	.447
14-3 SOLID (BLACK/WHITE/RED)	14 SOLID (GREEN)	55-17-28-01	55-17-28-02	138	.464
14-4 SOLID (BLACK/WHITE/RED/BLUE)	14 SOLID (GREEN)	55-17-33-01	55-17-33-02	154	.502
12-2 SOLID (BLACK/WHITE)	12 SOLID (GREEN)	55-17-16-01	55-17-16-02	142	.475
12-3 SOLID (BLACK/WHITE/RED)	12 SOLID (GREEN)	55-17-29-01	55-17-29-02	172	.513
12-4 SOLID (BLACK/WHITE/RED/BLUE)	12 SOLID (GREEN)	55-17-34-01	55-17-34-02	201	.547
10-2 SOLID (BLACK/WHITE)	10 SOLID (GREEN)	55-17-17-01	55-17-17-02	197	.550
10-3 SOLID (BLACK/WHITE/RED)	10 SOLID (GREEN)	55-17-30-01	55-17-30-02	240	.588
10-4 SOLID (BLACK/WHITE/RED/BLUE)	10 SOLID (GREEN)	55-17-35-01	55-17-35-02	284	.631
STRANDED CONDUCTOR COLORS 120/208V					
12-2 STRANDED (BLACK/WHITE)	12 STRANDED (GREEN)	55-64-36-01	55-64-36-02	157	.495
12-3 STRANDED (BLACK/WHITE/RED)	12 STRANDED (GREEN)	55-36-32-01	55-36-32-02	187	.527
10-2 STRANDED (BLACK/WHITE)	10 STRANDED (GREEN)		55-39-67-02	213	.566
10-4 STRANDED (BLACK/WHITE/RED/BLUE)	10 STRANDED (GREEN)		56-10-24-02	307	.653
SOLID CONDUCTOR COLORS 277/480V					
12-2 SOLID (BROWN/GRAY)	12 SOLID (GREEN)	55-17-74-01		142	.475
12-2 SOLID (ORANGE/GRAY)	12 SOLID (GREEN)	55-32-42-02	55-32-42-03	142	.475
12-3 SOLID (BROWN/YELLOW/GRAY)	12 SOLID (GREEN)	55-32-51-02	55-32-51-03	172	.513
12-4 SOLID (BROWN/ORANGE/YELLOW/GRAY)	12 SOLID (GREEN)	55-32-44-02	55-32-44-03	201	.547
10-2 SOLID (ORANGE/GRAY)	10 SOLID (GREEN)	55-17-83-01	55-17-83-02	197	.550
10-2 SOLID (YELLOW/GRAY)	10 SOLID (GREEN)	55-17-82-01	55-17-82-02	197	.550
10-2 SOLID (BROWN/GRAY)	10 SOLID (GREEN)	55-32-50-02	55-32-50-03	197	.550
10-3 SOLID (BROWN/ORANGE/GRAY)	10 SOLID (GREEN)	55-32-52-02	55-32-52-01	240	.588
10-3 SOLID (BROWN/YELLOW/GRAY)	10 SOLID (GREEN)	55-17-87-01	55-17-87-02	240	.588
10-4 SOLID (BROWN/ORANGE/YELLOW/GRAY)	10 SOLID (GREEN)	55-32-45-02	55-32-45-01	284	.631
For allowable ampacities, refer to NEC 310.15. Also available with stranded conductors.					

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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.

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.			

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.



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COPPER			
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