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

GREEN INSULATED THHN COPPER GROUNDING CONDUCTOR

COPPER TYPE THHN CIRCUIT CONDUCTORS

SPECIAL MARKINGS ON THE GROUNDED CIRCUIT (NEUTRAL) CONDUCTOR

EQUIPMENT GROUNDING CONDUCTOR = COMBINED INTERLOCKED ARMOR AND FULL-SIZED BARE ALUMINUM GROUNDING/ BONDING CONDUCTOR

LIGHTWEIGHT GREEN ALUMINUM INTERLOCKED ARMOR

"All Purpose" HCF MC$^{AP®}$ Cable with Green Armor for Identification

Green Lightweight Aluminum Interlocked Armor • 600 Volt

Copper THHN Insulated Conductors and Green Insulated Grounding Conductor

Full-sized Aluminum Equipment Grounding/ Bonding Conductor

Sizes 12 AWG and 10 AWG

UL Listed

Rated VW-1

APPLICATIONS **Suitable for use as follows:**

- Branch-circuit wiring for general purpose, non-essential electrical systems in patient care areas of hospitals, medical, and other types of health care facilities. Such areas include nursing homes, dental offices, and outpatient facilities
- Use in hazardous anesthetizing areas and essential electrical system circuits are prohibited, except where permitted per 2005 NEC 517.30(C)(3)(3)
- Applications requiring redundant, dedicated or isolated grounding paths
- Environmental air-handling spaces per NEC 300.22(C); Dry locations; 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)
- Multiple neutral and multi-circuit cables totaling more than 4 current-carrying conductors are now possible

STANDARDS & REFERENCES

Southwire® Type MC Cable fully meets the applicable requirements of UL 1569 Standard for Metal-Clad Cables, NFPA 70 NEC, UL 83 Standard, UL 1063 Standard, Federal Specification A-A59544 (formerly J-C-30B), and IEEE 1202 (70,000 BTU/hr) Vertical Cable Tray Flame Test. Southwire Type MC Cable is listed for use in UL 1, 2, and 3 Hour Through-Penetration Firestop Systems.

CONSTRUCTION

HCF MC$^{AP®}$ Type MC Cable is constructed with soft-drawn copper Type THHN circuit conductors rated 90°C dry. It is available in sizes 12 – 10 AWG. It is manufactured with redundant grounding paths; an armor assembly comprised of interlocked armor and an 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 of the binder tape covering and has the same lay as the insulated conductors. Green Aluminum interlocked armor is snugly wrapped around the conductor assembly. The aluminum metal sheath (armor) and bare aluminum conductor, which are in intimate contact throughout the entire length of the cable, form an assembly, which is the equipment grounding conductor for the cable. To insure proper cable termination, refer to the installation instructions provided with every reel and coil.

Southwire® OEM Division

UL LISTED

MADE IN USA

MC CABLE

WEIGHTS, MEASUREMENTS AND PACKAGING

CONDUCTOR SIZE (AWG)/ # OF PHASE CONDUCTORS	CONDUCTOR TYPE*	GROUNDING/ BONDING CONDUCTOR	GREEN THHN COPPER GROUND (AWG)	OVERALL DIAMETER (inches)	WEIGHT (lbs/1000 ft)	AMPACITY (AMPS)**			STANDARD PACKAGE	
						60°C	75°C	90°C	COIL (feet)	REEL (feet)
12 / 2	Solid	10 solid AL	12	0.445	110	20	20	20	250	1000
12 / 3	Solid	10 solid AL	12	0.480	134	20	20	20	250	1000
12 / 4	Solid	10 solid AL	12	0.515	180	20	20	20	250	1000
10 / 2	Solid	8 solid AL	10	0.520	162	30	30	30	250	1000
10 / 3	Solid	8 solid AL	10	0.565	202	30	30	30	250	1000
10 / 4	Solid	8 solid AL	10	0.670	266	30	30	30	250	1000

500 Note: Ampacities are based on Table 310.16 of the NEC, 2005 Edition.
*Circuit sizes 12 AWG and 10 AWG also available as stranded conductors.
**Allowable ampacities shown are for general use as specified by the National Electrical Code, 2005 Edition, Section 310.15.
If the equipment is marked for use at higher temperatures, the conductor ampacity shall be limited to the following per NEC 110.14(C).
60°C - When terminated to equipment for circuits rated 100 amperes or less or marked for size 14 through 1 AWG conductors.
75°C - When terminated to equipment for circuits rated over 100 amperes or marked for conductors larger than size 1 AWG.
90°C - For ampacity derating purposes.
Per NEC 310.15(B)(2)(a), the ampacity of 4/C cables shall be reduced by a factor of 0.80 when the neutral is considered a current-carrying conductor.

# OF CONDUCTORS	COLOR SEQUENCE — COLOR CODING
2	black, white
3	black, white, red
4	black, white, red, blue
Grounding Conductor	green

Other special colors are available subject to economic order quantity. Custom cable constructions available for homeruns, multiple or oversized neutrals and isolated grounds. Subject to economic order quantity.

# OF CONDUCTORS	COLOR SEQUENCE — COLOR CODING 277/480Y
2	brown, grey
2	orange, grey
2	yellow, grey
2	purple, grey
3	brown, yellow, grey
3	brown, orange, grey
4	brown, orange, yellow, grey
4	brown, yellow, purple, grey
Grounding Conductor	green

FEATURES

- Redundant ground paths for Patient Care Areas in Health Care Facilities per NEC 517.13(a) & (b)
- Installation instructions provided with every reel and coil
- Simplified armored product application and installation
- Reduces installation costs up to 50% over pipe and wire
- Increase labor savings as compared to HCF Type AC Cable
- 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 HCF Type AC Cable and is equivalent to a green insulated copper grounding conductor
- Easy to identify lightweight 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

FULL ENGINEERING SPECIFICATIONS AVAILABLE AT WWW.SOUTHWIRE.COM/COMMERCIALPRODUCTSPECS

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