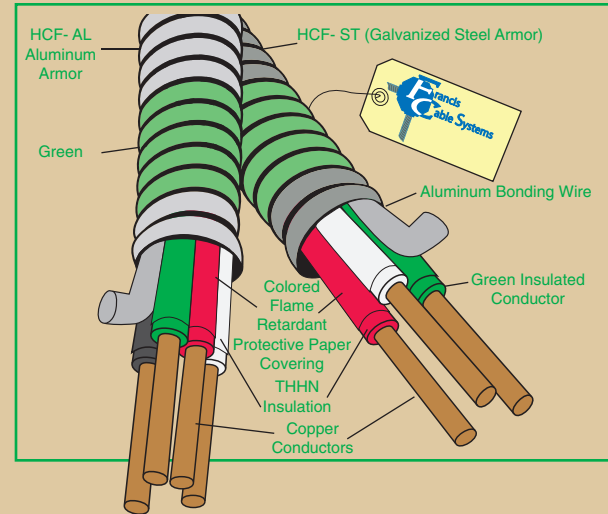



Francis Cable Systems Health Care Facilities Cable - MC-HCF-AG

Health Care Facilities Cable MCAG manufactured by Francis Cables Systems meets the most stringent fire and safety standards for hospitals, nursing homes, and other health care facilities. The National Electrical Code (NEC), Underwriters Laboratories and other standards require specific safeguards in patient care areas and other settings where safety is critical. Contractors who recognize quality recommend Francis Cable Systems' Health Care Facilities Cable MCAG for situations where only the finest wiring systems are demanded.



Francis Cables Systems Health Care Facilities MC-HCF-AG cables are manufactured with the “Mark of Excellence”™

Applications: Type MC cable shall be permitted as follows:

- UL listed and labeled (Type MC - Standard #1569) 
- Suitable for applications requiring branch and feeder circuits for non-essential, general purpose electrical systems when in accordance with 2008 NEC 517.30 (C)(3). Acceptable in facilities such as hospitals, nursing homes, dental offices, and other types of medical facilities including outpatient facilities.
- Permitted use for services, feeders, and branch circuits in industrial, commercial, and multi-residential buildings
- Acceptable for power, lighting, control, and signal circuits
- Allowable in concealed or exposed systems
- Permitted in dry locations and embedded in plaster finish on brick or other masonry except in damp or wet locations
- Utilized for environmental air-handling spaces (NEC 300.22)(C)
- Allowable in assembly occupancies (NEC 518.4)
- Allowable installations in approved raceways and cable trays (NEC 392)
- Suitable for raised floors for IT equipment (NEC 645.5)
- Permitted in Class I Div. 2, Class II Div.2, and Class III Div.1 Hazardous Locations
- Listed for use in UL 1, 2, and 3 Hour Through-Penetration Firestop Systems
- Suitable for type MC1-A fittings

Health Care Facilities Cable - MCHCF-AG by Francis Cables Systems...

- Combine the fire safety advantages of metal-encased wiring with the ease of installation and cost savings of a cable system.
- Are made with either galvanized steel or heavy gauge aluminum interlocked armor which protects color-coded circuit conductors that are individually wrapped with flame retardent colored protective paper, a seperate aluminum bonding wire, in constant contact with the sheathing, and green insulated grounding conductor.



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Health Care Facilities Cable MC-HCF-AG Weights and Measurements

Type MC HCF-AG (ArmorGround™) Copper Conductor Steel Aluminum Armor 600V

Conductors			Green THHN Copper Ground (AWG)	Outside Diameter over Armor (in)	Total Weight of Type MC- Copper Conductor (lbs/1000 ft) (Steel/Aluminum)	Allowable Ampacity (Amps)*			Standard Packaging (ft)	
AWG/No.	Type	Ground				60°C	75°C	90°C	Coil	Reel
12/2	Solid	10 Solid AL	12	0.515	170/118	20	20	20	250'	1000'
12/3	Solid	10 Solid AL	12	0.570	200/144	20	20	20	250'	1000'
12/4	Solid	10 Solid AL	12	0.594	232/175	20	20	20	250'	1000'
10/2	Solid	8 Solid AL	10	0.620	234/171	30	30	30	250'	1000'
10/3	Solid	8 Solid AL	10	0.671	280/212	30	30	30	250'	1000'
10/4	Solid	8 Solid AL	10	0.700	327/254	30	30	30	250'	1000'

Note: Available in strand by request. Ampacities are based on Table 310.15(B)(16) of the NEC.
 *Ampacities shown are for general use as specified by the NEC, Section 310.15.
 For equipment 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 AWG through 1 AWG conductor.
 75°C when terminated to equipment for circuits rated over 100 amperes or marked for conductors larger than 1 AWG.
 90°C for ampacity derating purposes.
 When the neutral is considered current-carrying conductor, the ampacity of 4/C cables shall be reduced by a factor of 0.80 per NEC 310.15(B)(2)(a).
 The above data is approximate and subject to normal manufacturing tolerances.

Type HCF-ArmorGround™ Multi-Neutral Copper Conductor Aluminum Armor - THHN/THWN-2 600V

Phase Conductors AWG/No.	Conductor Type	Neutral Conductor AWG/No.	Ground Conductor AWG/No.	Aluminum Bond Wire	Overall Diameter (in)	Approximate Net Weight (lbs/1000 ft)	Standard Packaging (ft)	
							Coil	Reel
12/3	Solid	12/3	12/1	10 Solid	0.660	250	200'	1000'
10/3	Solid	10/3	10/1	8 Solid	0.787	395	200'	1000'