



AFC

CABLE SYSTEMS INC.

PRODUCT CATALOG

Featuring

AFC's Color-Coded AC & MC Cable

MC TUFF® Lightweight Steel MC Cable

DataCom Cables

Lighting, Power & Appliance Whips

Temp-Lites™

Flexible & Liquidtight Conduits



Since 1927,
AFC Cable Systems

has been supplying quality electrical
products. Listening to the needs of our
customers, AFC developed flexible

conduits & cables for a variety of wiring applications.

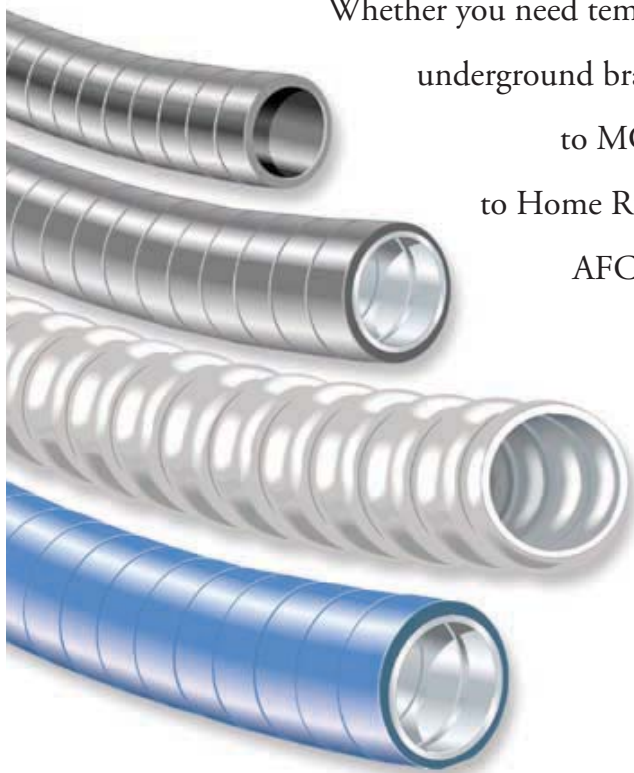
Whether you need temporary lighting or

underground branch circuits...from Super Neutral™ cable

to MC TUFF® Lightweight Steel,

to Home Run® cable to Amer-Tite® conduit,

AFC has a product to get the job done.

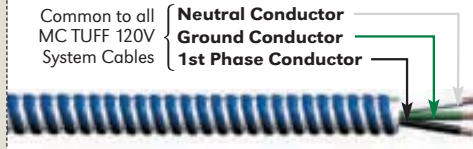


MC TUFF®

MC TUFF® IG

120V COLORS

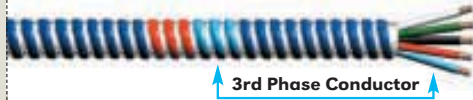
2 Conductor



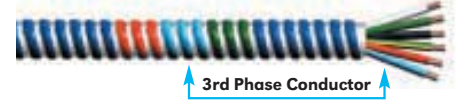
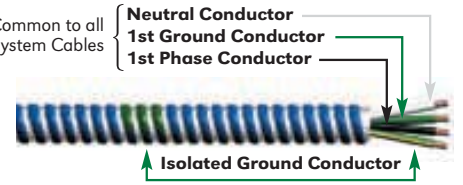
3 Conductor



4 Conductor

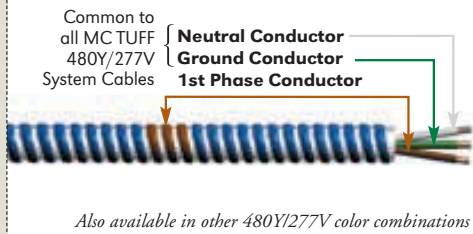


Common to all MC TUFF IG 120V System Cables



480Y/277V COLORS

2 Conductor



3 Conductor



4 Conductor



AFC'S COLOR-CODED ARMORED CABLE SYSTEM QUICK REFERENCE GUIDE

The Cable Color Code:

[Indicates the type of cable]



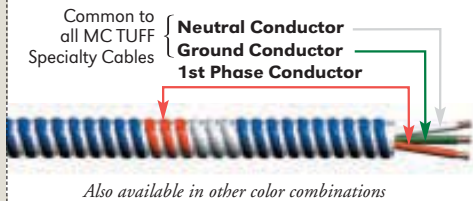
The Stripes Color Code:

- 1) The repeating striped pattern on the armor identifies the system voltage and phase conductors.*
- 2) No identification is made on the armor for the neutral or 1st ground.

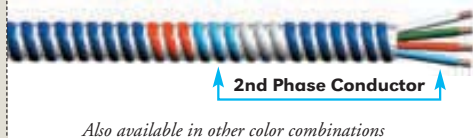
* Since most 120V cables have a black phase conductor, it is not color identified on the armor.

SPECIALTY COLORS

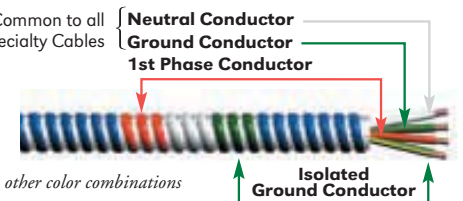
2 Conductor



3 Conductor



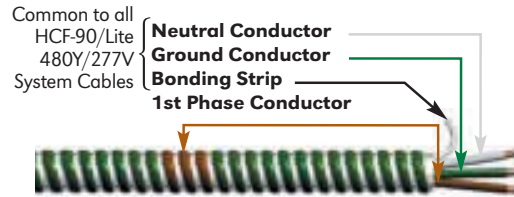
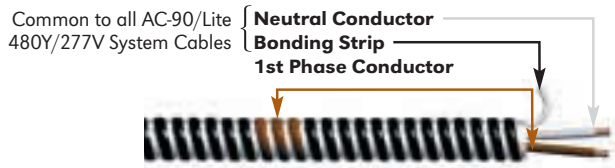
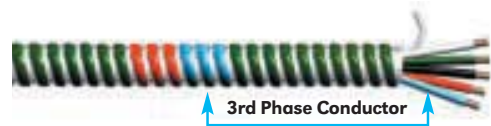
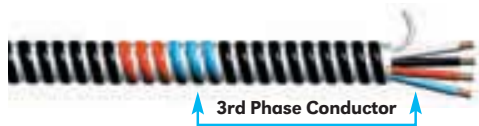
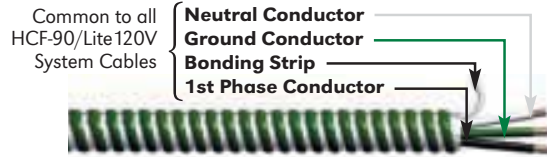
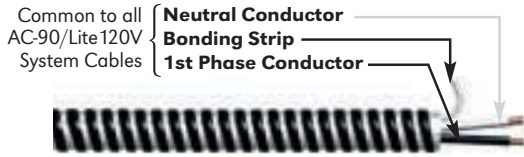
Common to all MC TUFF IG Specialty Cables



Also available in other color combinations

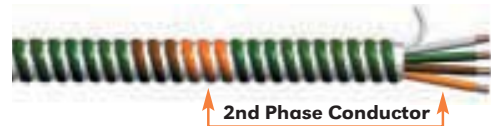
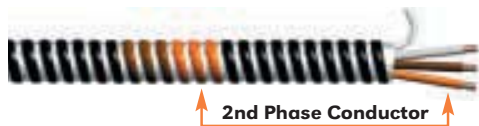
AC-90/Lite®

HCF-90/Lite®

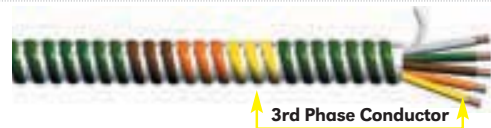


Also available in other 480Y/277V color combinations

Also available in other 480Y/277V color combinations

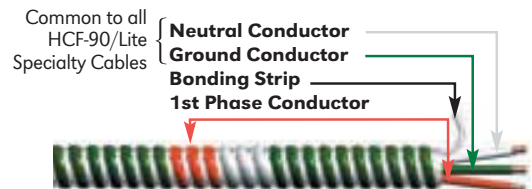


Also available in other 480Y/277V color combinations

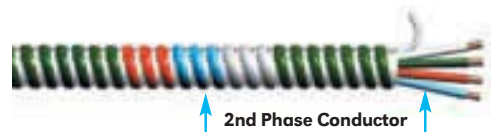


THE DIFFERENCE BETWEEN MC & AC CABLE

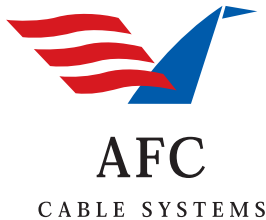
	Type AC	HCF Type AC	Type MC
UL	4	4	1569
NEC	320	320	330
Grounding Means	Armor/Bond Wire Combination	Armor/Bond Wire Combination + Green ground	One or more grounding conductors
Conductors	2-4 Circuit Cond. - 600V-THHN	2-4 Circuit Cond. - 600V-THHN + Ground	2 or more Circuit Cond. - 600V-THHN



Also available in other color combinations



Also available in other color combinations



MC & AC CABLES

From AFC

Save Time and Money with MC and AC Cables from AFC

MC and AC cables provide a fast and efficient way of wiring both new construction and remodeling work. Their flexible metal armor provides mechanical protection of the electrical conductors while enabling them to be bent around corners or fished through existing walls. The cables are pre-wired at the factory saving time and money and reducing the likelihood of conductor damage on the job site.

MC and AC Cables for Every Application

AFC is an innovator in the development of MC and AC cables. From Super Neutral Cable® specifically designed to minimize the dangerous effects of harmonics to Parking Deck/Lot Cable™ that can be direct buried in earth or concrete, AFC stocks the largest selection of MC and AC cables in the conductor sizes and color combinations you need.

Color-Coding Improves Safety and Efficiency

AFC's Color-Coded Armored Cable System gives you fast, reliable identification of cable type, voltage and number of conductors where you can see it, on the cable's armor. This unique color-coding system reduces picking errors in the warehouse, increases efficiency on the job site and improves safety through visual identification of 480Y/277 Volt cables.

AFC Cable Systems

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Cable & Flexible Conduit Applications Chart

Application(s)	NEC®	Type AC	Type MC	Type MOF	Flexible Conduits
Hospitals, Nursing Homes, Health Care Facilities	517.13****, 250.118	HCF-90, HCF-Lite	Fire Alarm/Control		
Places of Assembly*	518	HCF-90, HCF-Lite	MC, MC-Lite, MC TUFF, Fire Alarm/Control, Super Neutral, Home Run, MC/OF, MC TUFF IG		Flexible Metal
Fire Alarm Systems, Remote Control Circuits	760, 725.8(B)		Fire Alarm/Control		Flexible Metal
Under Computer Room Raised Floors, Business Equipment, Electronic Discharge Lighting	330, 645		Super Neutral, MC TUFF IG		Liquidtight, Flexible Metal
Direct Burial in Wet, Dry, Oily Areas**	330.10,***		Parking Deck/Lot		Liquidtight
Multi-conductor Runs, Commercial/Industrial/Utility	330		MC, MC-Lite, MC TUFF, Super Neutral, Home Run, MC TUFF IG, Parking Deck/Lot		Liquidtight, Flexible Metal
Robotics, Video Conferencing, Closed-Circuit TV, Factory Automation	770		MC/OF	MOF	Flexible Metal
Redundant Ground	250.118, 517.13, 645	HCF-90, HCF-Lite	MC TUFF IG		
Environmental Air-Handling Spaces	300.22(C), 760.71(D)****	AC-90, AC-Lite, HCF-90, HCF-Lite	MC, MC-Lite, MC TUFF, Fire Alarm/Control, Super Neutral, Home Run, MC/OF, MC TUFF IG	MOF	Flexible Metal
Branch Circuits in Hotels & Multi-family Dwellings	320, 330	AC-90, AC-Lite	MC, MC-Lite, MC TUFF		
Office Partition Furniture	605		Super Neutral, MC TUFF IG		Liquidtight, Flexible Metal
Parking Decks, Lots, Garages	330.10***		Parking Deck/Lot		
Air Conditioners, Factory Installations with Wet, Dirty, Oily Conditions	330, 350, 356		Parking Deck/Lot		Liquidtight
Lighting Whips, Motor Leads	320, 330, 348	AC-90, AC-Lite	MC, MC TUFF, MC-Lite		Flexible Metal

* Over 100 People

** Also hazardous locations up to Class 1, Div. 2

*** Also 230.43, 511.7, 513.7(A), 514.7, 515.7(A), 516.7(A)

**** Fire Alarm/Control Cable Only

***** HCF cables may not be used on emergency circuits in a health care setting.

NOTE: Local electrical codes may differ. Please consult appropriate authority.

THIS CHART HAS BEEN PREPARED AS A CONVENIENT REFERENCE TO SOME OF OUR PRODUCTS' MOST COMMON APPLICATIONS. FOR MORE DETAILED INFORMATION, REFER TO THE APPROPRIATE SECTION OF THIS BROCHURE AND THE NEC.®

Type MC Metal Clad Cables

Type MC Cables – Uses Permitted:

The uses permitted for MC cable are governed by NEC® Article 330 and any applicable local codes. Please refer to NEC® Article 330 and your local authority having jurisdiction for additional information.

- **Where not subject to physical damage; For services, feeders and branch circuits**
- **For power, lighting, control and signal circuits**
- **Indoors, exposed or concealed**
- **Outdoors or in wet locations where the armor has an overall outer, moisture resistant PVC jacket and the conductors are wet rated**
- **Direct buried or in concrete encasement where identified for such use (Parking Deck/Lot Cable™)**
- **Under raised floors, above suspended ceilings and in other environmental air-handling spaces per NEC 300.22(C)**
- **In places of assembly**
- **In cable tray or as open runs**
- **In locations classified as hazardous as permitted in NEC Articles 501, 502, 503, 504, and 505**
- **As aerial cable on a messenger**

Type MC Cables – Uses Not Permitted:

- **Where exposed to destructive corrosive conditions unless the metallic sheath is suitable for the conditions or is protected by material suitable for the conditions**

Type MC cables have 2 or more solid or stranded copper conductors in sizes 18 AWG and larger.

The construction of AFC's 600 Volt MC cable consists of copper circuit and grounding conductors covered with thermoplastic insulation, an overall polypropylene cable assembly tape and an outer galvanized steel or aluminum interlocked armor.

The armor of interlocked Type MC cable is not an equipment grounding means. Type MC cable requires a bare or green grounding conductor.

Type MC cable should be cut with an armored cable rotary cutter.

Rotary cutters have many advantages over other methods. Nicking and cutting of the conductors is eliminated and the cuts can be made quickly and safely.

In addition to our standard MC products, AFC offers lightweight steel MC TUFF® and MC in a variety of specialty configurations.

These configurations, specialty cables, are designed for applications such as fire alarm circuits, direct burial or modular office furniture.

This section describes the different varieties of MC cable offered by AFC.

For more information about the proper use and application of AC & MC cables, visit AFC University on the Internet at www.afcweb.com/afcu

NEC® is a registered trademark of the National Fire Protection Association



MC TUFF®

Lightweight Steel Metal Clad Cable

**High Strength, Lightweight Galvanized Steel Armor
Color-Coded Blue***



Features & Benefits

High strength, lightweight interlocking steel armor

Blue armor for easy identification

May be used with set-screw connectors U.L. listed for use with MC Cable

Superior EMI shielding vs. aluminum armor

U.L. classified for through-wall penetrations

Applications

Commercial, industrial, multi-residential branch circuits and feeder wiring-services for power, lighting, control and signal circuits – exposed or concealed – fished, surface mounted, embedded in plaster – environmental air-handling spaces – open or messenger supported aerial runs – dry locations – in hazardous locations to Class I & II Div. 2 and Class III, Div. 1 & 2 (as specified in NEC Articles 501, 502, 503) – places of assembly – applications requiring superior EMI shielding

Product Specifications

MC TUFF® Lightweight Steel Metal Clad Cable (120 Volt colors)

MC TUFF® Lightweight Steel Metal Clad Cable (480Y/277 Volt colors)

Refer to page:

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MC TUFF® IG

Lightweight Interlocking Steel Isolated Ground Cable

**High Strength, Lightweight Galvanized Steel Armor
Color-Coded Blue***



Features & Benefits

High strength, lightweight steel armor

Features 2 green grounds, 1 solid green, 1 with yellow stripe

Blue armor with additional green stripe for easy identification

Ideal where isolated, redundant or dedicated grounding is required

May be used with set-screw connectors U.L. listed for use with MC Cable

Superior EMI shielding vs. aluminum armor

U.L. classified for through-wall penetrations

Applications

Commercial, industrial, multi-residential branch circuits and feeder wiring approved for MC cable requiring isolated, redundant or dedicated grounding conductors – services for power, lighting, control and signal circuits – exposed or concealed – fished, surface mounted, embedded in plaster – environmental air-handling spaces – open or messenger supported aerial runs – dry locations – in hazardous locations to Class I & II Div. 2 and Class III, Div. 1 & 2 (as specified in NEC Articles 501, 502, 503) – places of assembly

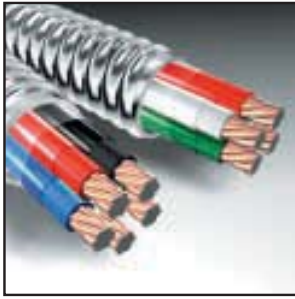
Product Specifications

MC TUFF® IG Isolated Ground Lightweight Steel Metal Clad Cable

Refer to page:

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* U.S. Patent #5,350,885, #5,468,914, #5,708,235, #5,557,071 & patent pending



Type MC Steel Metal Clad Cable (8 AWG-2 – 4/0 AWG-4)

Galvanized Steel Armor

Features & Benefits

Galvanized interlocking steel armor

May be used with set-screw connectors U.L. listed for use with MC Cable

Superior EMI shielding vs. aluminum armor

U.L. classified for through-wall penetrations

Applications

Commercial, industrial, multi-residential branch circuits and feeder wiring-services for power, lighting, control and signal circuits – exposed or concealed – fished, surface mounted, embedded in plaster – environmental air-handling spaces – open or messenger supported aerial runs – dry locations – in hazardous locations to Class I & II Div. 2 and Class III, Div. 1 & 2 (as specified in NEC Articles 501, 502, 503) – places of assembly – applications requiring superior EMI shielding

Product Specifications

Type MC Steel Metal Clad Cable (8 AWG-2 – 4/0 AWG-4)

Refer to page:

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MC-Lite[®] Metal Clad Cable

Aluminum Interlocking Armor

Features & Benefits

Aluminum armor

U.L. classified for through-wall penetrations

Applications

Commercial, industrial, multi-residential branch circuits and feeder wiring – services for power, lighting, control and signal circuits – exposed or concealed – fished, surface mounted, embedded in plaster – environmental air-handling spaces – open or messenger supported aerial runs – dry locations – in hazardous locations to Class I & II Div. 2 and Class III, Div. 1 & 2 (as specified in NEC Articles 501, 502, 503) – places of assembly

Product Specification

MC-Lite[®] Metal Clad Aluminum Cable (120V and 480Y/277V colors)

Refer to page:

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Fire Alarm/Control Cable[™]

Galvanized Interlocking Steel Armor Color Coded Red*

Features & Benefits

Easy to identify red armor

Fully plenum rated – FPLP

Dual rated Type MC

Available with twisted shielded pairs

May be used with set-screw connectors U.L. listed for use with MC Cable

Superior EMI shielding vs. aluminum armor

U.L. classified for through-wall penetrations

Applications

Fire alarm wiring or remote control hook-up connecting main fire alarm control panel with pull stations, smoke detectors and alarms – remote control circuits from magnetic motor starters, contactors, relays and signals – exposed, concealed, in cable trays, ducts, plenums or other environmental air-handling spaces – FPLP – in hazardous locations up to Class I & II, Div. 2 and Class III, Div. 1 & 2 (as specified in NEC Articles 501, 502, 503)

Product Specification

Fire Alarm/Control Cable[™]

Refer to page:

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Super Neutral Cable®

Galvanized Interlocking Steel or (optional) Aluminum Armor

Features & Benefits

Designed to minimize the effects of harmonic currents on the neutral conductors generated by non-linear loads

Features oversized neutral conductor or one neutral per phase

Cable designs and conductor color schemes compatible with most modular office furniture

U.L. classified for through-wall penetrations

Applications

Branch circuit and feeder wiring for computers, programmable controllers, electronic discharge lighting, office machines and other electronic equipment that introduce additive harmonic currents from non-linear switching loads – compatible with most modular office furniture – under raised floors, above suspended ceilings, in environmental air-handling spaces – applications requiring superior EMI shielding (steel armor only)

Product Specification

Super Neutral Cable®

Refer to page:

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Parking Deck/Lot Cable™ PVC Jacketed Metal Clad Cable

Galvanized Steel Armor with PVC Jacket

Features & Benefits

Galvanized steel armor with PVC jacket

U.L. Rated for direct burial in earth or concrete encasement

Sunlight and oil resistant

Direct plow-in capability

Applications

Branch circuit and feeder wiring for lighting, control and signal circuits in wet, dirty or oily locations – buried directly in earth or concrete – surface mounted or trenched – parking deck or parking lot applications – golf courses, ski mountains, docks, marinas, pumping stations and stadium lighting – continuous runs to outdoor or underground swimming pool motors, pumps and related equipment (per NEC 680) – fished, exposed or concealed, in cable trays – in direct sunlight and hazardous locations up to Class I & II, Div. 2 and Class III, Div. 1 & 2 (NEC Articles 501, 502, 503)

Product Specification

Parking Deck/Lot Cable™ PVC Jacketed Metal Clad Cable

Refer to page:

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Home Run Cable®

Galvanized Steel Armor

Features & Benefits

Versatile multi-conductor cable

Phase identified by color code with separate marking for circuit identification

U.L. classified for through-wall penetrations

Applications

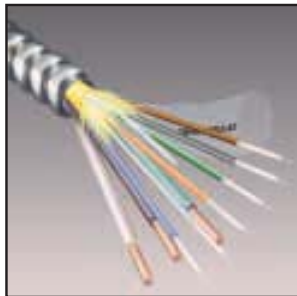
Multi-conductor runs from panel board to junction box for power, lighting, control and signal circuits – repetitive homeruns in multi-story hotels, dormitories, commercial office buildings and warehouse applications – conductors must be derated per NEC Table 310.15(B)(2)(a) – exposed or concealed, fished – in cable trays and environmental air-handling spaces

Product Specification

Home Run Cable®

Refer to page:

17



MC/OF® Composite Optical Fiber Cable

Galvanized Steel (Aluminum Armor optional)

Features & Benefits

One step installation for both power and optical fiber

Integrates voice, data, video & power

Can be custom made to meet specific needs

U.L. classified for through-wall penetrations

Applications†

Commercial, industrial power, signal, voice/data and video transmission – industrial robotics, video conferencing, medical imaging – Local Area Networks – cash register scanners – exposed or concealed – cable trays – under raised floors, above suspended ceilings, other environmental air-handling spaces.

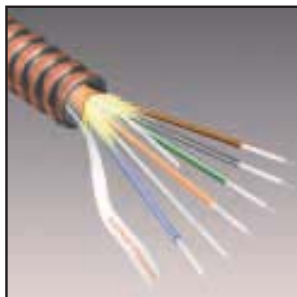
Available with PVC Jacket for outdoor/direct burial applications.

Product Specification

MC/OF® Type MC Cable with Optical Fiber

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MOF® Armored Fiber Optical Cable

Galvanized Steel Armor color-coded orange

Features & Benefits

One step installation of fiber optic cable and protective interlocking steel armor.

Variety of optical fiber types, including in-door plant, out-door plant (with an overall PVC jacket), and plenum cables

Can be custom made to meet application specific requirements

Applications

Replaces inner-duct or other raceways in a variety of applications. Commercial, industrial, institutional and total campus networks. LAN/WAN cabling needs. Wherever physical security is required for fiber optic cable runs.

For direct burial in earth or concrete with PVC Jacket and outdoor rated optical fiber.

Product Specification

MOF® Armored Fiber Optical Cable

Refer to page:

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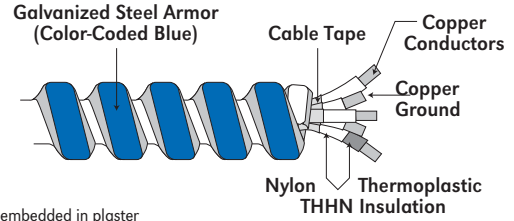
MC TUFF® Lightweight Steel Metal Clad Cable (120 Volt colors) Technical Specifications

Specification Description

Specification	MC-TUFF
Armor	Galvanized Interlocking Steel Strip (blue striped)
Conductors	Solid/Stranded Copper
Conductor Insulation	THHN (XHHW available by special order subject to lead time and minimum quantities)
Assembly Covering	Polypropylene Tape
Maximum Temperature Rating	90°C (dry)
Grounding	One grounding means - Insulated Green Grounding Conductor
Neutral Conductor	White
Maximum Voltage Rating	600V

References & Ratings

- U.L. 83, 1479, 1569, 1581, File Reference E80042
- NEC 230.43, 300.22(C), 392, 396, 330, 518, 520, 530, 645
- Federal Specification A-A-59544 (formerly J-C-30B)
- Meets all applicable OSHA and HUD Requirements
- May be surface mounted, fished and/or embedded in plaster
- Cable Tray installations per NEC
- U.L. Classified 1, 2 and 3-hour through-penetration Fire Wall
- Environmental Air-Handling Space installation



AFC's Color-Coded Armored Cable System

- Additional red stripe denotes 3 conductor cable
- Additional light blue and white stripes denote special 2 conductor cable
- Additional red and light blue stripes denote 4 conductor cable
- Additional red, light blue and white stripes denote special 3 conductor cable
- Additional red and white stripes denote special 2 conductor cable
- Additional black, light blue and white stripes denote special 3 conductor cable

Weights, Measurements and Packaging

Product Code	Coil	Reel	Trade Size	Grounding Conductor AWG	Length (feet)		Approx. Weight/1000 Feet (lbs.)	Armor Minimum O.D. (inches)
					Coil	Reel		
1701B42T00	1701B60T00		14-2 Solid	14	250'	1000'	117	0.470
1702B42T00	1702B60T00		14-3 Solid	14	250'	1000'	140	0.480
1703B42T00	1703B60T00		14-4 Solid	14	250'	1000'	164	0.510
1704B42T00	1704B60T00		12-2 Solid	12	250'	1000'	147	0.495
1705B42T00	1705B60T00		12-3 Solid	12	250'	1000'	186	0.530
1706B42T00	1706B60T00		12-4 Solid	12	250'	1000'	223	0.565
1758B42T00	1758B60T00		12-2 Stranded	12	250'	1000'	152	0.495
1759B42T00	1759B60T00		12-3 Stranded	12	250'	1000'	191	0.530
1760B42T00	1760B60T00		12-4 Stranded	12	250'	1000'	225	0.565
1707B32T00	—		10-2 Solid	10	125'	—	222	0.560
1708B32T00	—		10-3 Solid	10	125'	—	268	0.600
1709B32T00	—		10-4 Solid	10	125'	—	313	0.645
1707B42T00	1707B60T00		10-2 Solid	10	250'	1000'	222	0.560
1708B42T00	1708B60T00		10-3 Solid	10	250'	1000'	268	0.600
1709B42T00	1709B60T00		10-4 Solid	10	250'	1000'	313	0.645
1761B32T00	—		10-2 Stranded	10	125'	—	227	0.560
1762B32T00	—		10-3 Stranded	10	125'	—	269	0.600
1763B32T00	—		10-4 Stranded	10	125'	—	319	0.645
1761B42T00	1761B60T00		10-2 Stranded	10	250'	1000'	227	0.560
1762B42T00	1762B60T00		10-3 Stranded	10	250'	1000'	269	0.600
1763B42T00	1763B60T00		10-4 Stranded	10	250'	1000'	319	0.645
Specialty Colors								
1704B42T04	1704B60T04		12-2 Solid (red, white)	12	250'	1000'	147	0.495
1704B42T05	1704B60T05		12-2 Solid (blue, white)	12	250'	1000'	147	0.495
1705B42T04	1705B60T04		12-3 Solid (red, blue, white)	12	250'	1000'	147	0.495
1705B42T05	1705B60T05		12-3 Solid (black, blue, white)	12	250'	1000'	147	0.495
1707B42T04	1707B60T04		10-2 Solid (red, white)	10	250'	1000'	222	0.560
1707B42T05	1707B60T05		10-2 Solid (blue, white)	10	250'	1000'	222	0.560
1708B42T04	1708B60T04		10-3 Solid (red, blue, white)	10	250'	1000'	268	0.600
1708B42T05	1708B60T05		10-3 Solid (black, blue, white)	10	250'	1000'	268	0.600

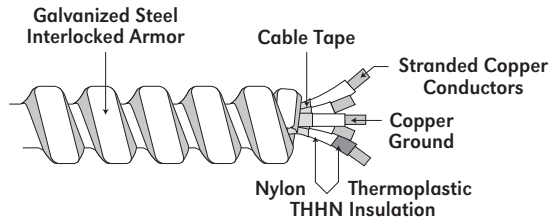
NOTE: All dimensions and weights are subject to normal manufacturing tolerances. **WARNING: DO NOT RE-IDENTIFY CONDUCTOR COLORS.**

SET SCREW CONNECTORS MAY BE USED WITH STEEL CABLES, SEE CONNECTOR CROSS-REFERENCE GUIDE PAGE 30 FOR DETAILS.

Type MC Steel Metal Clad Cable (8 AWG-2 – 4/0 AWG-4) Technical Specifications

Specification Description

Specification	MC
Armor	Galvanized Interlocking Steel Strip
Conductors	Stranded Copper
Conductor Insulation	THHN or XHHW*
Assembly Covering	Polypropylene Tape
Maximum Temperature Rating	90°C (dry)
Grounding	One grounding means – may be insulated or bare, see chart below
Neutral Conductor	White
Maximum Voltage Rating	600V



References & Ratings



- U.L. 83, 1479, 1569, 1581, File Reference E80042
- NEC 230.43, 300.22(C), 392, 396, 330, 518, 520, 530, 645
- Federal Specification A-A-59544 (formerly J-C-30B)
- Meets all applicable OSHA and HUD Requirements
- Cable Tray installations per NEC
- U.L. Classified 1, 2 and 3-hour through-penetration Fire Wall
- Environmental Air-Handling Space installation

Weights, Measurements and Packaging

Product Code Coil	Product Code Reel	Trade Size	Grounding Conductor AWG	Length (feet)		Approx. Weight/1000 Feet (lbs.)	Armor Minimum O.D. (inches)
				Coil	Reel		
Stock Items							
1715-40-00	1715-45-00	8-2 Stranded	10	200'	500'	329	0.635
1716-40-00	1716-45-00	8-3 Stranded	10	200'	500'	432	0.685
1717-32-00	1717-45-00	8-4 Stranded	10	125'	500'	511	0.835
1719-32-00	1719-45-00	6-2 Stranded	8	125'	500'	462	0.795
1720-32-00	1720-45-00	6-3 Stranded	8	125'	500'	594	0.855
1721-30-00	1721-45-00	6-4 Stranded	8	100'	500'	860	0.945
1724-30-00	1724-45-00	4-3 Stranded	8	100'	500'	985	1.035
1725-30-00	1725-45-00	4-4 Stranded	8	100'	500'	1195	1.135
1728-30-00	1728-45-00	3-3 Stranded	6	100'	500'	1070	1.025
1729-30-00	1729-45-00	3-4 Stranded	6	100'	500'	1260	1.120
1726-30-00	1726-45-00	2-3 Stranded	6	100'	500'	1340	1.180
1727-30-00	1727-45-00	2-4 Stranded	6	100'	500'	1640	1.295
1737-30-00	1737-45-00	1-3 Stranded	6	100'	500'	1530	1.185
1738-99-00	1738-99-00	1-4 Stranded	6	††	††	1930	1.350
1750-99-00	1750-99-00	1/0-3 Stranded (a)**	bare #6	††	††	1780	1.255
1751-99-00	1751-99-00	1/0-4 Stranded (b)**	bare #6	††	††	2220	1.390
1753-99-00	1753-99-00	2/0-3 Stranded (a)**	bare #6	††	††	2095	1.350
1754-99-00	1754-99-00	2/0-4 Stranded (b)**	bare #6	††	††	2650	1.520
1740-99-00	1740-99-00	3/0-3 Stranded (a)**	bare #4	††	††	2580	1.520
1741-99-00	1741-99-00	3/0-4 Stranded (b)**	bare #4	††	††	3245	1.690
1743-99-00	1743-99-00	4/0-3 Stranded (a)**	bare #4	††	††	3040	1.580
1744-99-00	1744-99-00	4/0-4 Stranded (b)**	bare #4	††	††	3855	1.770

* XHHW insulation and bare grounding conductor on sizes 1/0-3 and larger

** Conductor colors

(a) black, black with red stripe, black with blue stripe

(b) black, black with red stripe, black with blue stripe, black with orange stripe

NOTE: All dimensions and weights are subject to normal manufacturing tolerances.

†† Cut to order.



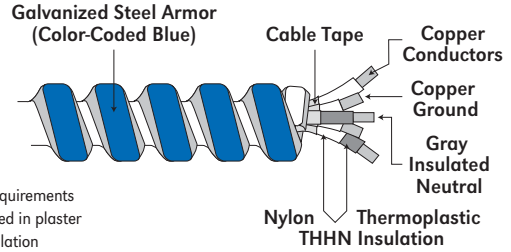
MC TUFF® Lightweight Steel Metal Clad Cable (480Y/277 Volt colors) Technical Specifications

Specification Description

Specification	MC TUFF
Armor	Galvanized Interlocking Steel Strip (blue striped)
Conductors	Solid or Stranded Copper
Conductor Insulation	THHN (XHHW available by special order subject to lead time and minimum quantities)
Assembly Covering	Polypropylene tape
Maximum Temperature Rating	90°C (dry)
Grounding	One grounding means - Insulated Green Grounding Conductor (additional insulated conductors optional)
Neutral Conductor	Gray
Maximum Voltage Rating	600V

References & Ratings

- U.L. 83, 1479, 1569, 1581, File Reference E80042
- NEC 230.43, 300.22(C), 392, 396, 330, 518, 520, 530, 645
- Cable Tray installations per NEC
- Federal Specification A-A-59544 (formerly J-C-30B)
- Meets all applicable OSHA and HUD requirements
- May be surfaced mounted and embedded in plaster
- Environmental Air-Handling Space installation
- U.L. Classified 1, 2 and 3-hour through-penetration Fire Wall



AFC's Color-Coded Armored Cable System

	Additional brown stripe denotes 2 conductor cable (brown conductor)		Additional orange and yellow stripes denote 3 conductor cable
	Additional orange stripe denotes 2 conductor cable (orange conductor)		Additional brown and yellow stripes denote 3 conductor cable
	Additional yellow stripe denotes 2 conductor cable (yellow conductor)		Additional brown and purple stripes denote 3 conductor cable
	Additional purple stripe denotes 2 conductor cable (purple conductor)		Additional brown, orange and yellow stripes denote 4 conductor cable
	Additional brown and orange stripes denote 3 conductor cable		Additional brown, yellow and purple stripes denote 4 conductor cable

Weights, Measurements and Packaging

Product Code	Coil	Reel	Trade Size	Grounding Conductor AWG	Length (feet)		Approx. Weight/ 1000 Feet (lbs.)	Armor Minimum O.D. (inches)
					Coil	Reel		
1704B42T01	1704B60T01		12-2 Solid (brown)	12	250'	1000'	147	0.495
1704B42T02	1704B60T02		12-2 Solid (orange)	12	250'	1000'	147	0.495
1704B42T03	1704B60T03		12-2 Solid (yellow)	12	250'	1000'	147	0.495
1704B42T07	1704B60T07		12-2 Solid (purple)	12	250'	1000'	147	0.495
1705B42T01	1705B60T01		12-3 Solid (brown, orange)	12	250'	1000'	186	0.530
1705B42T02	1705B60T02		12-3 Solid (orange, yellow)	12	250'	1000'	186	0.530
1705B42T03	1705B60T03		12-3 Solid (brown, yellow)	12	250'	1000'	186	0.530
1705B42T07	1705B60T07		12-3 Solid (brown, purple)	12	250'	1000'	186	0.530
1706B42T01	1706B60T01		12-4 Solid (brown, orange, yellow)	12	250'	1000'	223	0.565
1706B42T07	1706B60T07		12-4 Solid (brown, yellow, purple)	12	250'	1000'	223	0.565
1758B42T01	1758B60T01		12-2 Stranded (brown)	12	250'	1000'	152	0.495
1758B42T02	1758B60T02		12-2 Stranded (orange)	12	250'	1000'	152	0.495
1758B42T03	1758B60T03		12-2 Stranded (yellow)	12	250'	1000'	152	0.495
1759B42T01	1759B60T01		12-3 Stranded (brown, orange)	12	250'	1000'	191	0.530
1760B42T01	1760B60T01		12-4 Stranded (brown, orange, yellow)	12	250'	1000'	225	0.565
1707B42T01	1707B60T01		10-2 Solid (brown)	10	250'	1000'	222	0.560
1707B42T02	1707B60T02		10-2 Solid (orange)	10	250'	1000'	222	0.560
1707B42T03	1707B60T03		10-2 Solid (yellow)	10	250'	1000'	222	0.560
1707B42T07	1707B60T07		10-2 Solid (purple)	10	250'	1000'	222	0.560
1708B42T01	1708B60T01		10-3 Solid (brown, orange)	10	250'	1000'	268	0.600
1708B42T02	1708B60T02		10-3 Solid (orange, yellow)	10	250'	1000'	268	0.600
1708B42T03	1708B60T03		10-3 Solid (brown, yellow)	10	250'	1000'	268	0.600
1708B42T07	1708B60T07		10-3 Solid (brown, purple)	10	250'	1000'	268	0.600
1709B42T01	1709B60T01		10-4 Solid (brown, orange, yellow)	10	250'	1000'	313	0.645
1709B42T07	1709B60T07		10-4 Solid (brown, yellow, purple)	10	250'	1000'	313	0.645
1761B42T01	1761B60T01		10-2 Stranded (brown)	10	250'	1000'	227	0.560
1762B42T01	1762B60T01		10-3 Stranded (brown, orange)	10	250'	1000'	269	0.600
1763B42T01	1763B60T01		10-4 Stranded (brown, orange, yellow)	10	250'	1000'	319	0.645

NOTE: All dimensions and weights are subject to normal manufacturing tolerances. Other conductor colors available by special order. **WARNING: DO NOT RE-IDENTIFY CONDUCTOR COLORS.**

SET SCREW CONNECTORS MAY BE USED WITH STEEL CABLES, SEE CONNECTOR CROSS-REFERENCE GUIDE PAGE 30 FOR DETAILS.



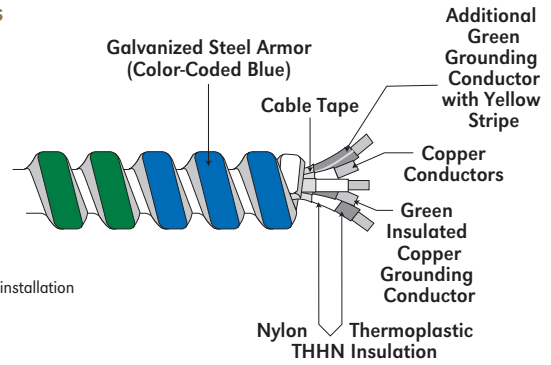
MC TUFF® IG Isolated Ground Lightweight Steel Metal Clad Cable Technical Specifications

Specification Description

Specification	MC TUFF IG
Armor	Galvanized Interlocking Steel* Strip (blue striped)
Conductors	Solid/Stranded Copper
Conductor Insulation	THHN (XHHW available by special order subject to lead time and minimum quantities)
Assembly Covering	Polypropylene Tape
Maximum Temperature Rating	90°C (dry)
Grounding	2 grounding means – 2 grounding conductors: one solid green, one green with yellow stripe
Neutral Conductor	White
Maximum Voltage Rating	600V

References & Ratings

- U.L. 83, 1479, 1569, 1581, File Reference E80042
- NEC 230.43, 250.118, 300.22(C), 392, 396, 330, 518, 520, 530, 645
- Cable Tray installations per NEC
- Federal Specification A-A-59544 (formerly J-C-30B)
- Meets all applicable OSHA and HUD Requirements
- U.L. Classified 1, 2 and 3-hour through-penetration Fire Wall
- Environmental Air-Handling Space installation



AFC's Color-Coded Armored Cable System

- Additional green stripe denotes 2 conductor cable with additional ground
- Additional red, white and green stripes denote special 3 conductor cable with additional ground
- Additional red and green stripes denote 3 conductor cable with additional ground
- Additional light blue, white and green stripes denote special 3 conductor cable with additional ground
- Additional red, light blue and green stripes denote 4 conductor cable with additional ground



Weights, Measurements and Packaging

Product Code	Coil	Reel	Trade Size	Grounding Conductors AWG	Length (feet)		Approx. Weight/1000 Feet (lbs.)	Armor Minimum O.D. (inches)
					Coil	Reel		
Stock Items								
1705B42T80	1705B60T80		12-2 Solid	12	250'	1000'	186	0.530
1706B42T80	1706B60T80		12-3 Solid	12	250'	1000'	223	0.565
1710B42T80	1710B60T80		12-4 Solid	12	250'	1000'	330	0.580
1759B42T80	1759B60T80		12-2 Stranded	12	250'	1000'	191	0.530
1708B42T80	1708B60T80		10-2 Solid	10	250'	1000'	268	0.600
1709B42T80	1709B60T80		10-3 Solid	10	250'	1000'	313	0.645
1711B42T80	1711B60T80		10-4 Solid	10	250'	1000'	391	0.670
Specialty Colors								
1705B42T84	1705B60T84		12-2 Solid (red, white)	12	250'	1000'	186	0.530
1705B42T85	1705B60T85		12-2 Solid (blue, white)	12	250'	1000'	186	0.530
1708B42T84	1708B60T84		10-2 Solid (red, white)	10	250'	1000'	268	0.600
1708B42T85	1708B60T85		10-2 Solid (blue, white)	10	250'	1000'	268	0.600

NOTE: All dimensions and weights are subject to normal manufacturing tolerances.
 * Aluminum available by special order and subject to lead times and minimum quantities.

WARNING: DO NOT RE-IDENTIFY CONDUCTOR COLORS.

SET SCREW CONNECTORS MAY BE USED WITH STEEL CABLES, SEE CONNECTOR CROSS-REFERENCE GUIDE PAGE 32 FOR DETAILS.

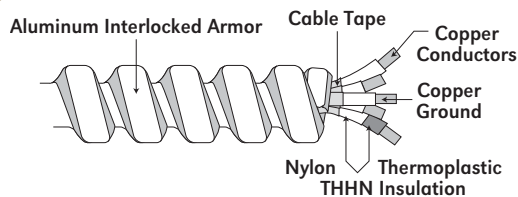
MC Lite[®] Metal Clad Aluminum Cable 120V and 480Y/277V Technical Specifications

Specification Description

Specification	MC Lite
Armor	Interlocking Aluminum Strip
Conductors	Solid/Stranded Copper
Conductor Insulation	THHN
Assembly Covering	Polypropylene Tape
Maximum Temperature Rating	90°C (dry)
Grounding	One grounding means - Insulated Green Grounding Conductor
Neutral Conductor	White for 120V circuits Gray for 480Y/277V circuits
Maximum Voltage Rating	600V

References & Ratings

- U.L. 83, 1479, 1569, 1581, File Reference E80042
- NEC 230.43, 300.22(C), 392, 396, 330, 518, 520, 530, 645
- Federal Specification A-A-59544 (formerly J-C-30B)
- Meets all applicable OSHA and HUD Requirements
- May be surface mounted, fished and/or embedded in plaster
- Cable Tray installations per NEC
- U.L. Classified 1, 2 and 3-hour through-penetration Fire Wall
- Environmental Air-Handling Space installation



Also available in 480Y/277V colors sizes 8-2 through 6-4. See chart below.

Weights, Measurements and Packaging

Product Code Coil	Reel	Trade Size	Grounding Conductor AWG	Length (feet)		Approx. Weight/1000 Feet (lbs.)	Armor Minimum O.D. (inches)
				Coil	Reel		
Stock Items							
120V							
Conductor Colors							
2101-42-00	2101-60-00	14-2 Solid	14	250'	1000'	90	0.470
2102-42-00	2102-60-00	14-3 Solid	14	250'	1000'	110	0.480
2103-42-00	2103-60-00	14-4 Solid	14	250'	1000'	130	0.510
2104C42-00	2104C60-00	12-2 Solid*	12	250'	1000'	120	0.495
2105C42-00	2105C60-00	12-3 Solid*	12	250'	1000'	150	0.530
2106-42-00	2106-60-00	12-4 Solid*	12	250'	1000'	180	0.565
2107-32-00	—	10-2 Solid	10	125'	—	170	0.560
2108-32-00	—	10-3 Solid	10	125'	—	215	0.600
2109-32-00	—	10-4 Solid	10	125'	—	260	0.645
2107-42-00	2107-60-00	10-2 Solid*	10	250'	1000'	170	0.560
2108-42-00	2108-60-00	10-3 Solid*	10	250'	1000'	215	0.600
2109-42-00	2109-60-00	10-4 Solid*	10	250'	1000'	260	0.645
2115-40-00	2115-45-00	8-2 Stranded	10	200'	500'	265	0.635
2116-40-00	2116-45-00	8-3 Stranded	10	200'	500'	335	0.685
2117-32-00	2117-45-00	8-4 Stranded	10	125'	500'	415	0.835
2119-32-00	2119-45-00	6-2 Stranded	8	125'	500'	370	0.795
2120-32-00	2120-45-00	6-3 Stranded	8	125'	500'	480	0.855
2121-30-00	2121-45-00	6-4 Stranded	8	100'	500'	595	0.945
2124-30-00	2124-45-00	4-3 Stranded	8	100'	500'	690	1.035
2125-30-00	2125-45-00	4-4 Stranded	8	100'	500'	870	1.135
2128-30-00	2128-45-00	3-3 Stranded	6	100'	500'	815	1.025
2129-30-00	2129-45-00	3-4 Stranded	6	100'	500'	1025	1.120
2126-30-00	2126-45-00	2-3 Stranded	6	100'	500'	1000	1.180
2127-30-00	2127-45-00	2-4 Stranded	6	100'	500'	1260	1.295
2137-30-00	2137-45-00	1-3 Stranded	6	100'	500'	1195	1.185
480Y/277V							
Conductor Colors							
2115-40-01	2115-45-01	8-2 Stranded (brown)	10	200'	500'	329	0.635
2116-40-01	2116-45-01	8-3 Stranded (brown, orange)	10	200'	500'	432	0.685
2117-32-01	2117-45-01	8-4 Stranded (brown, orange, yellow)	10	125'	500'	511	0.835
2119-32-01	2119-45-01	6-2 Stranded (brown)	8	125'	500'	462	0.795
2120-32-01	2120-45-01	6-3 Stranded (brown, orange)	8	125'	500'	594	0.855
2121-30-01	2121-45-01	6-4 Stranded (brown, orange, yellow)	8	100'	500'	595	0.945

NOTE: All dimensions and weights are subject to normal manufacturing tolerances. Other conductor colors available by special order.
* Stranded conductors available by special order.

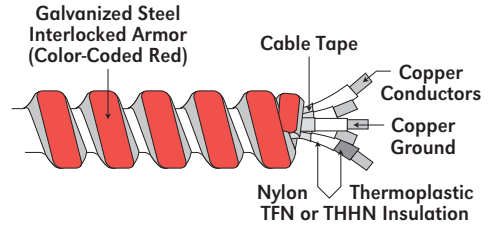
Fire Alarm/Control Cable™ - FPLP - Fully Plenum Rated Technical Specifications

Specification Description

Specification	Fire Alarm/Control Cable
Armor	Galvanized Interlocking Steel Strip (red-striped)
Conductors	Solid Copper
Conductor Insulation	TFN and/or THHN
Assembly	Polyester Assembly Tape; Twisted Shielded: Laminated Aluminum/Mylar® Shield with Tinned Copper drain wire
Maximum Temperature Rating	FPLP: 105°C (dry) MC: 90°C (dry)
Grounding	One or more grounding conductors may be bare or insulated green, see chart below
Neutral Conductor	White
Maximum Voltage Rating	300V (FPLP) 600V (MC)

References & Ratings

- U.L. 66, 83, 1424, 1479, 1569, 1581, File Reference E80042
- NEC 300.22(C), 392, 330, 430.2, 518, 530, 645, 725, 760, 760.71(D)
- Federal Specification A-A-59544 (formerly J-C-30B)
- Cable Tray installations per NEC
- 1, 2 and 3-hour through-penetration Fire Wall Rated
- NFPA 262 (formerly U.L. 910) Plenum Rated - Type FPLP



For the electrical properties of Red Fire Alarm/Control Cable and twists per foot information, see page 14.

Weights, Measurements and Packaging

Product Code	Product Code				Trade Size	Grounding Conductor AWG	Approx. Weight/ 1000 Feet (lbs.)	Armor Minimum O.D. (inches)
	250' Coil	500' Reel	750' Reel	1000' Reel				
Solid TFN								
1801R42-00	1801R45-00	1801R47-00	1801R60-00	18-2 Solid	18 bare	115	0.410	
1803R42-00	1803R45-00	1803R47-00	1803R60-00	18-4 Solid	18 bare	130	0.430	
1805R42-00	1805R45-00	1805R47-00	1805R60-00	18-6 Solid	18 bare	170	0.490	
1807R42-00	1807R45-00	1807R47-00	—	18-8 Solid	18 bare	190	0.510	
1810R42-00	1810R45-00	1810R47-00	1810R60-00	16-2 Solid	16 bare	130	0.420	
1813R42-00	1813R45-00	1813R47-00	1813R60-00	16-4 Solid	16 bare	155	0.440	
1815R42-00	1815R45-00	1815R47-00	1815R60-00	16-6 Solid	16 bare	205	0.510	
1817R42-00	1817R45-00	1817R47-00	—	16-8 Solid	16 bare	230	0.520	
Solid THHN								
1834R42-00	1834R45-00	1834R47-00	1834R60-00	14-2 Solid	14 green	175	0.470	
1837R42-00	1837R45-00	1837R47-00	1837R60-00	14-4 Solid	14 green	230	0.510	
1823R42-00	1823R45-00	—	—	14-6 Solid	14 green	250	0.520	
1824R42-00	1824R45-00	—	—	14-8 Solid	14 green	325	0.585	
1835R42-00	1835R45-00	1835R47-00	1835R60-00	12-2 Solid	12 green	215	0.495	
1840R42-00	1840R45-00	—	—	12-4 Solid	12 green	295	0.565	
Twisted Shielded Pairs								
1850R42-00	1850R45-00	1850R47-00	1850R60-00	18-2 Solid (1 pair)	18 tinned [†]	120	0.420	
1827R42-00	1827R45-00	1827R47-00	1827R60-00	18-2 Solid (1 pair) & 14-2 Solid (1 pair)	14 tinned [†]	290	0.640	
1860R42-00	1860R45-00	1860R47-00	1860R60-00	16-2 Solid (1 pair)	16 tinned [†]	135	0.430	
1843R42-00	1843R45-00	1843R47-00	1843R60-00	16-4 Solid (2 pair)	16 tinned [†]	160	0.450	
1895R42-06	1895R45-06	1895R47-06	1895R60-06	16-2 (1 pair) Solid & add. green ground	16 green	190	0.500	
4901R42-00	4901R45-00	4901R47-00	4901R60-00	16-2 Solid (1 pair) & 12-2 Solid (unshielded)*	12 green	280	0.585	
1828R42-00	1828R45-00	1828R47-00	1828R60-00	14-2 Solid (1 pair)	14 green	170	0.470	
1881R42-00	1881R45-00	—	—	14-4 Solid (2 pair)	(2) 16 tinned [†]	—	—	
Specialty Colors								
1834R42-05	1834R45-05	1834R47-05	1834R60-05	14-2 Solid (blue, white)	14 green	175	0.470	
1834R42-06	1834R45-06	1834R47-06	1834R60-06	14-2 Solid (black, red)	14 green	175	0.470	
1834R42-23	1834R45-23	1834R47-23	1834R60-23	14-2 Solid (orange, yellow)	14 green	175	0.470	
1834R42-44	1834R45-44	1834R47-44	1834R60-44	14-2 Solid (gray, gray*)	14 green	175	0.470	
1837R42-05	1837R45-05	1837R47-05	1837R60-05	14-4 Solid (blue, blue*; white, white*)	14 green	230	0.510	
1837R42-06	1837R45-06	1837R47-06	1837R60-06	14-4 Solid (black, black*; red, red*)	14 green	230	0.510	

NOTE: All dimensions and weights are subject to normal manufacturing tolerances.

* with silver stripe

† Tinned copper drain/grounding conductor.

• 16-2 black/white, 12-2 black/red

Stocking Sizes Color Codes:

Conductors	120 Volt Colors
2	black, white,
4	black, white, red, blue
6	black, white, red, blue, yellow, orange
8	black, white, red, blue, yellow, orange, brown, purple

Fire Alarm/Control Cable™ Technical Charts

Electrical Properties (ohms to neutral per 1000 feet)

Conductor Size AWG	XL, Reactance ¹	Rac, Resistance, 75°C ²	Z, Effective ³ Impedance
18	.047	7.77	6.24
16	.043	4.89	3.93
14	.042	3.07	2.48
12	.040	1.93	1.57

¹ In Steel Armor

² To correct for 90°C, multiply by 1.048

³ Effective Impedance is defined as $R \cos(\Theta) + X \sin(\Theta)$ where Θ is the power factor angle of the circuit. Effective impedance values shown in the table above are valid at 80% power factor.

Mutual Capacitance (pico farads per foot)

Conductor Size AWG	Twisted Pair ¹	Twisted Shielded Pair ²
18	30.0	47.3
16	33.5	54.8
14	36.3	60.7
12	38.8	66.4

¹ Between conductors

² Between one conductor and the other conductor(s) plus the shield

Inductance (L) to neutral, per 1000 feet is typically 0.0002mH for sizes 18 AWG through 250 kcmil

$$[*L = 0.1404 \log_{10}(\text{GMD}/\text{GMR}) \times 10^{-3} \text{ Henrys to neutral per 1000 feet}]$$

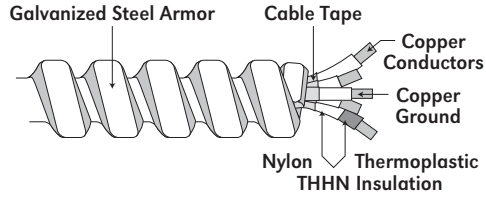
Twists per Foot

Size	Total Number of Conductors Including Ground	Conductor Diameter	Length of Lay	Twists per Foot
18	3	0.08	2.8	4.3
18	4	0.08	3.2	3.8
18	5	0.08	3.3	3.7
16	3	0.09	3.2	3.8
16	4	0.09	3.6	3.3
16	5	0.09	3.7	3.3
14	3	0.105	3.7	3.3
14	4	0.105	4.2	2.9
14	5	0.105	4.3	2.8
12	3	0.125	4.4	2.7
12	4	0.125	5.0	2.4
12	5	0.125	5.1	2.4

Super Neutral Cable® - Type MC Neutral per Phase or Oversized Neutral Technical Specifications

Specification Description

Specification	Super Neutral Cable
Armor	Galvanized Interlocking Steel* Strip
Conductors	Solid/Stranded Copper
Conductor Insulation	THHN
Assembly Covering	Polypropylene Tape
Maximum Temperature Rating	90°C (dry)
Grounding	One or more grounding conductors insulated green, see chart below
Neutral Conductors	Neutral per phase or oversized neutral configurations, white/white with phase stripe
Maximum Voltage Rating	600V



References & Ratings

- U.L. 83, 1479, 1569, 1581, File Reference E80042
- NEC 230.43, 300.22(C), 392, 396.10(A), 330, 645
- Federal Specification A-A-59544 (formerly J-C-30B)
- Cable Tray installations per NEC
- U.L. Classified 1, 2 and 3-hour through-penetration Fire Wall
- Conductors must be derated per NEC Table 310.15(B)(2)(a)

Weights, Measurements and Packaging

250' Coil	Product Code			Phase Conductor AWG	Neutral Conductor AWG	Grounding Conductor AWG	Approx. Weight/1000 Feet (lbs.)	Armor Minimum O.D. (inches)
	500' Reel	750' Reel	1000' Reel					
Oversize Neutral Design								
2908-42-00	2908-45-00	2908-47-00	2908-60-00	12-1 Solid(a)	10-1(f)	12-1(k)	220	0.510
2909-42-00	2909-45-00	2909-47-00	2909-60-00	12-2 Solid(b)	10-1(f)	12-1(k)	260	0.540
2910-42-00	2910-45-00	2910-47-00	2910-60-00	12-3 Solid(c)	10-1(f)	12-1(k)	315	0.580
2907-42-00	2907-45-00	2907-47-00	2907-60-00	12-3 Solid(c)	10-1(f)	12-2(l)	345	0.590
2905-42-00	2905-45-00	2905-47-00	2905-60-00	12-3 Solid(c)	8-1(f)	12-1(k)	345	0.595
2918-42-00	2918-45-00	2918-47-00	2918-60-00	12-4 Solid(e)	10-2(g)	12-2(l)	435	0.660
2913-42-00	2913-45-00	2913-47-00	2913-60-00	10-3 Solid(c)	6-1(f)	10-1(k)	485	0.720
2970-42-00	2970-45-00	2970-47-00	2970-60-00	10-4 Solid(e)	8-2(g)	10-2(l)	628	0.800
Neutral Per Phase Design								
2916-42-00	2916-45-00	2916-47-00	2916-60-00	12-2 Solid(b)	12-2(h)	12-2(l)	335	0.580
2911-42-00	2911-45-00	2911-47-00	2911-60-00	12-3 Solid(c)	12-3(i)	12-2(l)	385	0.620
2960-42-00	2960-45-00	2960-47-00	2960-60-00	12-4 Solid(d)	12-3(j)	12-2(l)	420	0.659
2965-42-00	2965-45-00	2965-47-00	2965-60-00	10-2 Solid(b)	10-2(h)	10-2(l)	450	0.670
2912-42-00	2912-45-00	2912-47-00	2912-60-00	10-3 Solid(c)	10-3(i)	10-2(l)	545	0.720

NOTE: All dimensions and weights are subject to normal manufacturing tolerances.
 * Aluminum available by special order and subject to lead times and minimum quantities.

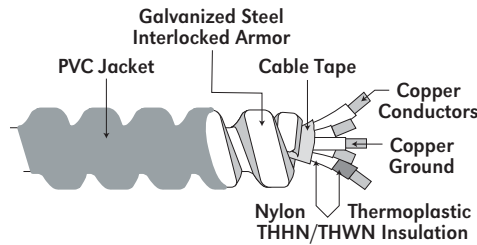
Super Neutral Cables are also available with application-specific combinations of circuit, neutral and grounding conductors.

- (a) black
- (b) black/red
- (c) black/red/blue
- (d) black/red/pink/tan
- (e) black/red/blue/pink
- (f) white
- (g) white/white with black stripe
- (h) white with black stripe/white with red stripe
- (i) white with black stripe/white with red stripe/white with blue stripe
- (j) white/white with pink stripe/white with tan stripe
- (k) green
- (l) green/green with yellow stripe

Parking Deck/Lot Cable™ PVC Jacketed Metal Clad Cable - Type MC Technical Specifications

Specification Description

Specification	Parking Deck/Lot Cable
Armor & Jacket	Galvanized Interlocking Steel Strip with gray PVC jacket. Other jacket colors available by special order
Conductors	Solid/Stranded Copper
Conductor Insulation	THHN/THWN**
Assembly Covering	Polypropylene Tape
Maximum Temperature Rating	90°C (dry); 75°C (wet)
Grounding	Insulated Green Grounding Conductor (additional insulated/bare conductors optional)
Neutral Conductors	White for 120V circuits Gray for 480Y/277V circuits
Maximum Voltage Rating	600V



References & Ratings



- U.L. 66, 83, 1479, 1569, 1581, File Reference E80042
- NEC 230.43, 300.5, 392, 396.10(A), 330, 501, 502, 503, 511.7, 513.7(A), 514.7, 515.7(A), 516.7(A), 680.21(A)
- Federal Specification A-A-59544 (formerly J-C-30B)
- Passes 210,000 BTU Vertical Tray Flame Test
- U.L. Cable Tray rated and Canadian FT4
- U.L. listed for DIRECT BURIAL in earth or concrete
- U.L. listed Sunlight Resistant
- U.L. listed Oil Resistant II
- Hazardous locations up to Class I & II, Div. 2 and Class III, Div. 1 & 2 (NEC Articles 501, 502, 503)

Weights, Measurements and Packaging

Product Code Coil	Reel	Trade Size	Grounding Conductor AWG	Length (feet)		Approx. Weight/1000 Feet (lbs.)	Armor/Jacket Minimum O.D. (inches)
				Coil	Reel		
Stock Items							
120 Volt							
2304-42-00	2304-60-00	12-2 Solid	12	250'	1000'	280	0.495/0.605
2305-42-00	2305-60-00	12-3 Solid	12	250'	1000'	320	0.530/0.640
2306-42-00	2306-60-00	12-4 Solid	12	250'	1000'	370	0.565/0.675
2307-42-00	2307-60-00	10-2 Solid	10	250'	1000'	355	0.560/0.670
2308-42-00	2308-60-00	10-3 Solid	10	250'	1000'	415	0.600/0.710
2309-42-00	2309-60-00	10-4 Solid	10	250'	1000'	480	0.645/0.755
2316-99-00	2316-99-00	8-3 Stranded††	10	—	—	560	0.685/0.795
2320-99-00	2320-99-00	6-3 Stranded††	8	—	—	805	0.855/0.965
480Y/277 Volt							
2304-42-01	2304-60-01	12-2 Solid (brown)	12	250'	1000'	280	0.495/0.605
2305-42-01	2305-60-01	12-3 Solid (brown, orange)	12	250'	1000'	320	0.530/0.640
2306-42-01	2306-60-01	12-4 Solid (brown, orange, yellow)	12	250'	1000'	370	0.565/0.675
2307-42-01	2307-60-01	10-2 Solid (brown)	10	250'	1000'	355	0.560/0.670
2308-42-01	2308-60-01	10-3 Solid (brown, orange)	10	250'	1000'	415	0.600/0.710
2309-42-01	2309-60-01	10-4 Solid (brown, orange, yellow)	10	250'	1000'	480	0.645/0.755
Non-Stock Items							
2315-40-00	2315-45-00	8-2 Stranded	10	200'	500'	525	0.635/0.745
2317-32-00	2317-45-00	8-4 Stranded	10	125'	500'	730	0.835/0.945
2319-32-00	2319-45-00	6-2 Stranded	8	125'	500'	670	0.795/0.905
2321-30-00	2321-45-00	6-4 Stranded	8	100'	500'	955	0.945/1.055
2324-30-00	2324-45-00	4-3 Stranded	8	100'	500'	1100	1.035/1.145
2325-30-00	2325-45-00	4-4 Stranded	8	100'	500'	1305	1.135/1.245
2328-30-00	2328-45-00	3-3 Stranded	6	100'	500'	1180	1.025/1.130
2329-30-00	2329-45-00	3-4 Stranded	6	100'	500'	1380	1.120/1.125
2326-30-00	2326-45-00	2-3 Stranded	6	100'	500'	1470	1.180/1.290
2327-30-00	2327-45-00	2-4 Stranded	6	100'	500'	1765	1.295/1.405
2337-30-00	2337-45-00	1-3 Stranded	6	100'	500'	1655	1.185/1.295
2338-30-00	2338-45-00	1-4 Stranded	6	100'	500'	2030	1.325/1.435
2350-24-00	2350-45-00	1/0 - 3 Stranded	6 bare	50'	500'	1980	1.255/1.365

Note: All dimensions and weights subject to normal manufacturing tolerances.

†† Cut to length.

Non-stock items require lead time and minimum quantity

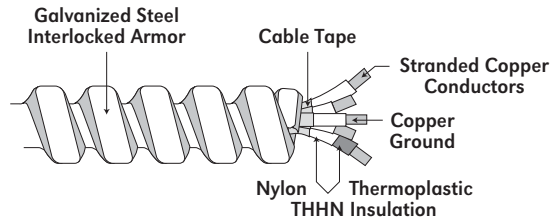
** XHHW available by special order subject to lead time and minimum quantity. Dimensions and weights will vary slightly from corresponding THHN/THWN specifications.

Home Run Cable® - Type MC

Technical Specifications

Specification Description

Specification	Home Run Cable
Armor	Galvanized Interlocking Steel* Strip
Conductors	Solid Copper
Conductor Insulation	THHN
Assembly Covering	Polypropylene Tape
Maximum Temperature Rating	90°C (dry)
Grounding	One grounding means – Insulated Green Grounding Conductor (additional grounding conductors optional**)
Maximum Voltage Rating	600V



References & Ratings

- U.L. 83, 1479, 1569, 1581, File Reference E80042
- NEC 230.43, 300.22(C), 392, 396, 330, 645
- Federal Specification A-A-59544 (formerly J-C-30B)
- Cable Tray installations per NEC
- U.L. Classified 1, 2 and 3-hour through-penetration Fire Wall
- Environmental Air-Handling Space installation
- Conductors must be derated per NEC Table 310.15(B)(2)(a)



Weights, Measurements and Packaging

Product Code Reel	Trade Size	Grounding Conductor AWG	Length (feet) Reel	Approx. Weight/1000 Feet (lbs.)	Armor Minimum O.D. (inches)
Stock Items					
1901-45-00	12-6 Solid	12	500'	345	0.580
1901-60-00	12-6 Solid	12	1000'	345	0.580
1902-45-00	12-8 Solid	12	500'	430	0.660
1902-60-00	12-8 Solid	12	1000'	430	0.660
1911-45-00	10-6 Solid	10	500'	485	0.670
1911-60-00	10-6 Solid	10	1000'	485	0.670
1905-45-00	10-8 Solid	10	500'	600	0.765
1905-60-00	10-8 Solid	10	1000'	600	0.765
1927-99-00	10-12 Solid	10	††	805	0.890
1928-99-00	10-16 Solid	10	††	995	0.980
Non-stock Items					
1903-45-00	12-12 Solid	12	500'	565	0.755
1904-45-00	12-16 Solid	12	500'	695	0.830

Note: All dimensions and weights subject to normal manufacturing tolerances.
 Non-stock items require lead time and minimum quantity.
 * Aluminum available by special order and subject to lead times and minimum quantities.
 ** Special order, subject to lead times and minimum quantities.
 †† Cut to order.

Stocking Sizes Color Codes:

Conductors 120 Volt Colors

6	black, black/silver, red, red/silver, white, white/silver
8	black, black/silver, red, red/silver, blue, blue/silver, white, white/silver
12	3 black, 3 red, 3 blue, 3 white; each color numbered 1-3
16	4 black, 4 red, 4 blue, 4 white; each color numbered 1-4
24	6 black, 6 red, 6 blue, 6 white; each color numbered 1-6

Type AC Armored Cables

Type AC Cables – Uses Permitted:

The uses permitted for AC cable are governed by NEC Article 320 and any applicable local codes. Please refer to NEC Article 320 and your local authority having jurisdiction for additional information.

- Where not subject to physical damage for branch circuits and feeders in both exposed and concealed work and in cable trays where identified for such use
- In dry locations and embedded in plaster finish on brick or other masonry, except in damp or wet locations
- Run or fished in the air voids of masonry block or tile walls where the walls are not exposed or subject to excessive moisture or dampness
- Under raised floors, above suspended ceilings and in other environmental air handling spaces per NEC 300.22(C)

Type AC Cables – Uses Not Permitted:

According to NEC Article 320.12, AC cable can not be installed in the following locations:

- In theaters and similar locations, except as provided in NEC Article 518, Places of Assembly
- In motion picture studios
- In locations classified as hazardous
- Where exposed to corrosive fumes or vapors
- On cranes or hoists
- In storage battery rooms
- In hoistways or on elevators, except as provided in NEC Section 620.21
- In commercial garages where prohibited in 511.4 and 511.7

AFC manufactures two varieties of armored (Type AC) cables, standard AC cable and HCF, Health Care Facilities Cable.

AC Cable: Type AC cable consists of 2 to 4 copper conductors in sizes 14 gauge to 1 AWG inside an interlocked metal armor of steel or aluminum construction.

A 16 AWG aluminum bonding wire is inside of, and in physical contact with, the metal armor providing a low-impedance fault-return path required for the operation of overcurrent protection devices. The bonding wire is unique to Type AC cable and allows the outer metal armor in conjunction with the bonding wire to be used as the equipment ground.

It is important to note that the bare bond wire is not an equipment grounding conductor. It is the bond wire that, in combination with the interlocked metal armor, provides a low impedance equipment grounding path. AFC color codes its standard AC cable black for easy identification.

HCF Health Care Facilities Cable: HCF is constructed in the same manner as standard AC cable with the addition of a green grounding conductor. This additional ground allows HCF to be used in patient care areas of health care facilities (other than hazardous locations or emergency circuits in a health care setting) including hospitals, nursing homes, dental offices and medical centers per NEC 517.13. The bond wire/armor combination provides the cable's equipment ground while the insulated green grounding conductor provides a redundant or isolated ground. AFC color codes its HCF cable green for easy identification.

Type AC cable should be cut with an armored cable rotary cutter. Rotary cutters have many advantages over other methods. Nicking and cutting of the conductors is eliminated and the cuts can be made quickly and safely.

For more information about the proper use and application of AC & MC cables, visit AFC University on the Internet at www.afcweb.com/afcu



AC-90® & AC-Lite® Armored Cable

Galvanized Steel or Aluminum Armor Color-Coded Black* †

Features & Benefits

- Interlocking galvanized steel or aluminum strip
- Easy to identify black armor
- Integral bond wire/armor equipment ground fault path
- U.L. classified for through-wall penetrations

Applications

Commercial, industrial, multi-residential branch circuits and feeder wiring – services for power, lighting, control and signal circuits – exposed or concealed – surface mounted, embedded in plaster finish on brick or other masonry (except wet or damp locations) – fished or run in air voids of masonry block or tile walls – under raised floors, above suspended ceilings and in other environmental air-handling spaces

Product Specifications

AC-90 Steel Armored Cable (120 Volt colors)	Refer to page: 20
AC-90 Steel Armored Cable (480Y/277 Volt colors)	21
AC-Lite Aluminum Armored Cable (120 Volt colors)	22
AC-Lite Aluminum Armored Cable (480Y/277 Volt colors)	23



HCF-90® & HCF-Lite® Health Care Facilities Cable

Galvanized Steel or Aluminum Armor Color-Coded Green* †

Features & Benefits

- Interlocking galvanized steel or aluminum strip
- Easy to identify green armor
- Full size green grounding conductor plus armor/bond wire combination provides redundant ground or isolated grounding capability
- U.L. classified for through-wall penetrations

Applications

Branch circuits and feeders in areas of patient care in hospitals, nursing homes, outpatient facilities, dental offices, clinics and medical centers (other than hazardous anesthetizing locations) – data processing systems – places of assembly – under raised floors, above suspended ceilings and in other environmental air-handling spaces – exposed or concealed, surface mounted or fished – any application approved for AC cable requiring an isolated or redundant ground

Product Specifications

HCF-90 Steel Health Care Facilities Cable (120 Volt colors)	Refer to page: 24
HCF-90 Steel Health Care Facilities Cable (480Y/277 Volt colors)	25
HCF-Lite Aluminum Health Care Facilities Cable (120 Volt colors)	26
HCF-Lite Aluminum Health Care Facilities Cable (480Y/277 Volt colors)	27

* U.S. Patent #5,350,885, #5,468,914, #5,708,235, #5,557,071 & patent pending

† sizes 14-2 to 10-4, see Technical Specifications for details

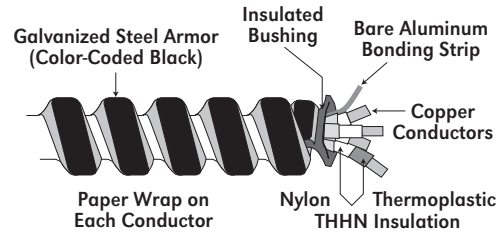
AC-90® Steel Armored Cable (120 Volt colors) Technical Specifications

Specification Description

Specification	AC-90
Armor	Galvanized Interlocking Steel Strip (black striped†)
Conductors	Solid/Stranded Copper
Conductor Insulation	THHN
Conductor Insulation Covering	Paper Wrap
Maximum Temperature Rating	90°C (dry)
Grounding	16AWG integral Bond Wire/Armor combination
Neutral Conductor	White
Maximum Voltage Rating	600V

References & Ratings

- U.L. 4, 83, 1479, 1581, File Reference E7330
- NEC 250.118, 300.22(C), 392, 320, 645
- Federal Specification A-A-59544 (formerly J.C-30B)
- Meets all applicable OSHA and HUD Requirements
- Cable Tray installations per NEC
- U.L. Classified 1, 2 and 3-hour through-penetration Fire Wall
- Environmental Air-Handling Space installation



AFC's Color-Coded Armored Cable System

- Additional red stripe denotes 3 conductor cable
- ■ Additional red and light blue stripes denote 4 conductor cable

AFC's Color-Coded Armored Cable System available on 14-2 through 10-4

Weights, Measurements and Packaging

Product Code		Trade Size	Length (feet)		Approx. Weight/1000 Feet (lbs.)	Armor Minimum O.D. (inches)
Coil	Reel		Coil	Reel		
1401N42-00	1401N60-00	14-2 Solid	250'	1000'	180	0.433
1402N42-00	1402N60-00	14-3 Solid	250'	1000'	200	0.453
1403N42-00	1403N60-00	14-4 Solid	250'	1000'	250	0.486
1404N42-00	1404N60-00	12-2 Solid	250'	1000'	210	0.467
1405N42-00	1405N60-00	12-3 Solid	250'	1000'	245	0.489
1406N42-00	1406N60-00	12-4 Solid	250'	1000'	290	0.520
1407N32-00	1407N60-00	10-2 Solid	125'	1000'	250	0.476
1407-42-00	—	10-2 Solid	250'	—	250	0.476
1408N32-00	1408N60-00	10-3 Solid	125'	1000'	295	0.500
1408-42-00	—	10-3 Solid	250'	—	250	0.476
1409N32-00	1409N60-00	10-4 Solid	125'	1000'	380	0.541
1409-42-00	—	10-4 Solid	250'	—	250	0.476
1415-40-00	1415-45-00	8-2 Stranded	200'	500'	345	0.604
1416-40-00	1416-45-00	8-3 Stranded	200'	500'	420	0.637
1417-32-00	1417-45-00	8-4 Stranded	125'	500'	515	0.695
1419-32-00	1419-45-00	6-2 Stranded	125'	500'	445	0.700
1420-32-00	1420-45-00	6-3 Stranded	125'	500'	560	0.739
1421-30-00	1421-45-00	6-4 Stranded	100'	500'	685	0.807
1424-30-00	1424-45-00	4-3 Stranded	100'	500'	800	0.885
1425-30-00	1425-45-00	4-4 Stranded	100'	500'	995	0.971
1428-30-00	1428-45-00	3-3 Stranded	100'	500'	940	0.990
1429-30-00	1429-45-00	3-4 Stranded	100'	500'	1180	1.085
1426-30-00	1426-45-00	2-3 Stranded	100'	500'	1095	1.014
1427-30-00	1427-45-00	2-4 Stranded	100'	500'	1380	1.115

NOTE: All dimensions and weights are subject to normal manufacturing tolerances.

WARNING: DO NOT RE-IDENTIFY CONDUCTOR COLORS.

See page 55 for bond wire termination details.

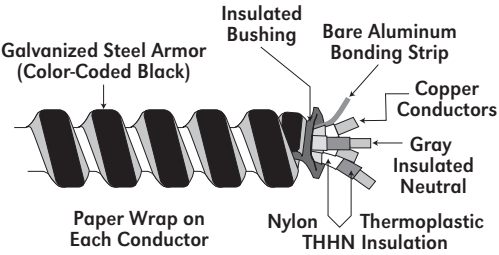
AC-90[®] Steel Armored Cable (480Y/277 Volt colors) Technical Specifications

Specification Description

Specification	AC-90
Armor	Galvanized Interlocking Steel Strip (black striped)
Conductors	Solid Copper
Conductor Insulation	THHN
Conductor Insulation Covering	Paper Wrap
Maximum Temperature Rating	90°C (dry)
Grounding	16AWG integral Bond Wire/Armor combination
Neutral Conductor	Gray
Maximum Voltage Rating	600V

References & Ratings

- U.L. 4, 83, 1479, 1581, File Reference E7330
- NEC 250.118, 300.22(C), 392, 320, 645
- Federal Specification A-A-59544 (formerly J-C-30B)
- Meets all applicable OSHA and HUD Requirements
- Cable Tray installations per NEC
- U.L. Classified 1, 2 and 3-hour through-penetration Fire Wall
- Environmental Air-Handling Space installation



AFC's Color-Coded Armored Cable System

- Additional brown stripe denotes 2 conductor cable (brown conductor)
- Additional orange stripe denotes 2 conductor cable (orange conductor)
- Additional yellow stripe denotes 2 conductor cable (yellow conductor)
- Additional brown and orange stripes denote 3 conductor cable
- Additional brown and yellow stripes denote 3 conductor cable
- Additional brown, orange and yellow stripes denote 4 conductor cable

Weights, Measurements and Packaging

Product Code		Trade Size	Length (feet)		Approx. Weight/1000 Feet (lbs.)	Armor Minimum O.D. (inches)
Coil	Reel		Coil	Reel		
1404N42-01	1404N60-01	12-2 Solid (brown)	250'	1000'	210	0.467
1404N42-02	1404N60-02	12-2 Solid (orange)	250'	1000'	210	0.467
1404N42-03	1404N60-03	12-2 Solid (yellow)	250'	1000'	210	0.467
1405N42-01	1405N60-01	12-3 Solid (brown, orange)	250'	1000'	245	0.489
1405N42-02	1405N60-02	12-3 Solid (orange, yellow)	250'	1000'	245	0.489
1405N42-03	1405N60-03	12-3 Solid (brown, yellow)	250'	1000'	245	0.489
1406N42-01	1406N60-01	12-4 Solid (brown, orange, yellow)	250'	1000'	290	0.520
1407N32-01	1407N60-01	10-2 Solid (brown)	125'	1000'	250	0.476
1408N32-01	1408N60-01	10-3 Solid (brown, orange)	125'	1000'	295	0.500
1409N32-01	1409N60-01	10-4 Solid (brown, orange, yellow)	125'	1000'	380	0.541

NOTE: All dimensions and weights are subject to normal manufacturing tolerances. Other conductor colors available by special order.

WARNING: DO NOT RE-IDENTIFY CONDUCTOR COLORS.

See page 55 for bond wire termination details.

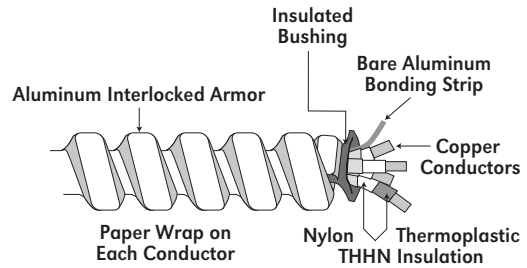
AC-Lite® Aluminum Armored Cable (120 Volt colors) Technical Specifications

Specification Description

Specification	AC-Lite
Armor	Interlocking Aluminum Strip
Conductors	Solid/Stranded Copper
Conductor Insulation	THHN
Conductor Insulation Covering	Paper Wrap
Maximum Temperature Rating	90°C (dry)
Grounding	16AWG integral Bond Wire/Armor combination
Neutral Conductor	White
Maximum Voltage Rating	600V

References & Ratings

- U.L. 4, 83, 1479, 1581, File Reference E7330
- NEC 250.118, 300.22(C), 392, 320, 645
- Federal Specification A-A-59544 (formerly J-C-30B)
- Meets all applicable OSHA and HUD Requirements
- Cable Tray installations per NEC
- U.L. Classified 1, 2 and 3-hour through-penetration Fire Wall
- Environmental Air-Handling Space installation



Weights, Measurements and Packaging

Product Code		Trade Size	Length (feet)		Approx. Weight/1000 Feet (lbs.)	Armor Minimum O.D. (inches)
Coil	Reel		Coil	Reel		
2701-42-00	2701-60-00	14-2 Solid	250'	1000'	80	0.433
2702-42-00	2702-60-00	14-3 Solid	250'	1000'	100	0.453
2703-42-00	2703-60-00	14-4 Solid	250'	1000'	120	0.486
2704-42-00	2704-60-00	12-2 Solid	250'	1000'	100	0.467
2705-42-00	2705-60-00	12-3 Solid	250'	1000'	130	0.489
2706-42-00	2706-60-00	12-4 Solid	250'	1000'	155	0.520
2707-32-00	2707-60-00	10-2 Solid	125'	1000'	135	0.476
2708-32-00	2708-60-00	10-3 Solid	125'	1000'	180	0.500
2709-32-00	2709-60-00	10-4 Solid	125'	1000'	225	0.541
2707-42-00	—	10-2 Solid	250'	—	135	0.476
2708-42-00	—	10-3 Solid	250'	—	180	0.500
2709-42-00	—	10-4 Solid	250'	—	225	0.541
2715-40-00	2715-45-00	8-2 Stranded	200'	500'	210	0.604
2716-40-00	2716-45-00	8-3 Stranded	200'	500'	275	0.637
2717-32-00	2717-45-00	8-4 Stranded	125'	500'	355	0.695
2719-32-00	2719-45-00	6-2 Stranded	125'	500'	260	0.700
2720-32-00	2720-45-00	6-3 Stranded	125'	500'	395	0.739
2721-30-00	2721-45-00	6-4 Stranded	100'	500'	500	0.807
2724-30-00	2724-45-00	4-3 Stranded	100'	500'	590	0.885
2725-30-00	2725-45-00	4-4 Stranded	100'	500'	760	0.971
2728-30-00	2728-45-00	3-3 Stranded	100'	500'	720	0.990
2729-30-00	2729-45-00	3-4 Stranded	100'	500'	930	1.085
2726-30-00	2726-45-00	2-3 Stranded	100'	500'	885	1.014
2727-30-00	2727-45-00	2-4 Stranded	100'	500'	1150	1.115

NOTE: All dimensions and weights are subject to normal manufacturing tolerances. Other conductor colors available by special order. Not to be used with set screw type fittings or on DC circuits.

See page 55 for bond wire termination details.

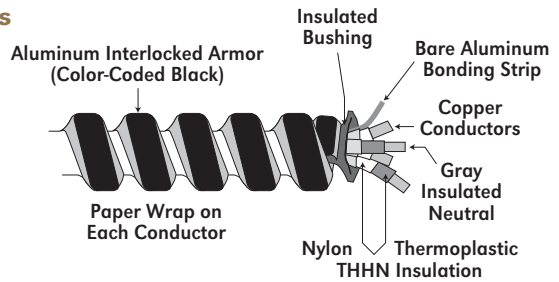
AC-Lite® Aluminum Armored Cable (480Y/277 Volt colors) Technical Specifications

Specification Description

Specification	AC-Lite
Armor	Interlocking Aluminum Strip (black striped)
Conductors	Solid Copper
Conductor Insulation	THHN
Conductor Insulation Covering	Paper Wrap
Maximum Temperature Rating	90°C (dry)
Grounding	16AWG integral Bond Wire/Armor combination
Neutral Conductor	Gray
Maximum Voltage Rating	600V

References & Ratings

- U.L. 4, 83, 1479, 1581, File Reference E7330
- NEC 250.118, 300.22(C), 392, 320, 645
- Federal Specification A-A-59544 (formerly J-C-30B)
- Meets all applicable OSHA and HUD Requirements
- Cable Tray installations per NEC
- U.L. Classified 1, 2 and 3-hour through-penetration Fire Wall
- Environmental Air-Handling Space installation



AFC's Color-Coded Armored Cable System

- Additional brown stripe denotes 2 conductor cable (brown conductor)
- Additional orange stripe denotes 2 conductor cable (orange conductor)
- Additional yellow stripe denotes 2 conductor cable (yellow conductor)
- Additional brown and orange stripes denote 3 conductor cable
- Additional brown, orange and yellow stripes denote 4 conductor cable

Weights, Measurements and Packaging

Product Code		Trade Size	Length (feet)		Approx. Weight/1000 Feet (lbs.)	Armor Minimum O.D. (inches)
Coil	Reel		Coil	Reel		
2704N42-01	2704N60-01	12-2 Solid (brown)	250'	1000'	100	0.467
2704N42-02	2704N60-02	12-2 Solid (orange)	250'	1000'	100	0.467
2704N42-03	2704N60-03	12-2 Solid (yellow)	250'	1000'	100	0.467
2705N42-01	2705N60-01	12-3 Solid (brown, orange)	250'	1000'	130	0.489
2706N42-01	2706N60-01	12-4 Solid (brown, orange, yellow)	250'	1000'	155	0.520

NOTE: All dimensions and weights are subject to normal manufacturing tolerances. Other conductor colors available by special order. Not to be used with set screw type fittings or on DC circuits.

WARNING: DO NOT RE-IDENTIFY CONDUCTOR COLORS.

See page 55 for bond wire termination details.

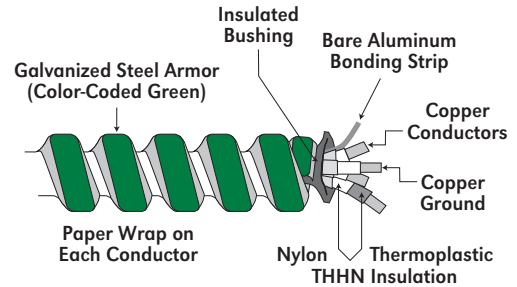
HCF-90[®] Steel Health Care Facilities Cable (120 Volt colors) Technical Specifications

Specification Description

Specification	HCF-90
Armor	Galvanized Interlocking Steel Strip (green striped)
Conductors	Solid Copper
Conductor Insulation	THHN
Conductor Insulation Covering	Paper Wrap
Maximum Temperature Rating	90°C (dry)
Grounding	16AWG integral Bond Wire/Armor combination plus insulated green grounding conductor (2 grounding means)
Neutral Conductor	White
Maximum Voltage Rating	600V

References & Ratings

- U.L. 4, 83, 1479, 1581, File Reference E7330
- NEC 250.118, 300.22(C), 392, 320, 517.13, 518, 645
- Federal Specification A-A-59544 (formerly J-C-30B)
- Meets all applicable OSHA and HUD Requirements
- Cable Tray installations per NEC
- U.L. Classified 1, 2 and 3-hour through-penetration Fire Wall
- Environmental Air-Handling Space installation



AFC's Color-Coded Armored Cable System

- Additional red stripe denotes 3 conductor cable
- Additional red and white stripes denote special 2 conductor cable
- Additional red and light blue stripes denote 4 conductor cable
- Additional light blue and white stripes denote special 2 conductor cable

Weights, Measurements and Packaging

Product Code	Coil	Reel	Trade Size	Grounding Conductor AWG	Length (feet)		Approx. Weight/1000 Feet (lbs.)	Armor Minimum O.D. (inches)
					Coil	Reel		
Stock Items								
1501G42-00		1501G60-00	14-2 Solid	14	250'	1000'	190	0.453
1502G42-00		1502G60-00	14-3 Solid	14	250'	1000'	220	0.486
1503G42-00		1503G60-00	14-4 Solid	14	250'	1000'	250	0.522
1504G42-00		1504G60-00	12-2 Solid	12	250'	1000'	220	0.489
1505G42-00		1505G60-00	12-3 Solid	12	250'	1000'	260	0.520
1506G42-00		1506G60-00	12-4 Solid	12	250'	1000'	300	0.545
1507G32-00		1507G60-00	10-2 Solid	10	125'	1000'	290	0.500
1508G32-00		1508G60-00	10-3 Solid	10	125'	1000'	345	0.541
1509G32-00		1509G60-00	10-4 Solid	10	125'	1000'	405	0.587
1507G42-00		—	10-2 Solid	10	250'	—	290	0.500
1508G42-00		—	10-3 Solid	10	250'	—	345	0.541
1509G42-00		—	10-4 Solid	10	250'	—	405	0.587
Specialty Colors								
1504G42-04		1504G60-04	12-2 Solid (red, white)	12	250'	1000'	220	0.489
1504G42-05		1504G60-05	12-2 Solid (blue, white)	12	250'	1000'	220	0.489

NOTE: All dimensions and weights are subject to normal manufacturing tolerances.
Sizes 8 gauge and larger available by special order and subject to lead time and minimum quantities.

WARNING: DO NOT RE-IDENTIFY CONDUCTOR COLORS.

HCF cables may not be used on emergency circuits in a health care setting.

See page 55 for bond wire termination details.

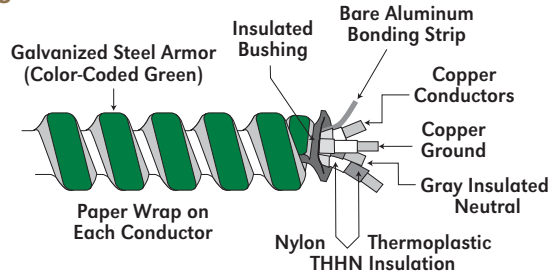
HCF-90[®] Steel Health Care Facilities Cable (480Y/277 Volt colors) Technical Specifications

Specification Description

Specification	HCF-90
Armor	Galvanized Interlocking Steel Strip (green striped)
Conductors	Solid Copper
Conductor Insulation	THHN
Conductor Insulation Covering	Paper Wrap
Maximum Temperature Rating	90°C (dry)
Grounding	16AWG integral Bond Wire/Armor combination plus insulated green grounding conductor (2 grounding means)
Neutral Conductor	Gray
Maximum Voltage Rating	600V

References & Ratings

- U.L. 4, 83, 1479, 1581, File Reference E7330
- NEC 250.118, 300.22(C), 392, 320, 517.13, 518, 645
- Federal Specification A-A-59544 (formerly J-C-30B)
- Meets all applicable OSHA and HUD Requirements
- Cable Tray installations per NEC
- U.L. Classified 1, 2 and 3-hour through-penetration Fire Wall
- Environmental Air-Handling Space installation



AFC's Color-Coded Armored Cable System

- Additional brown stripe denotes 2 conductor cable (brown conductor)
- Additional orange stripe denotes 2 conductor cable (orange conductor)
- Additional yellow stripe denotes 2 conductor cable (yellow conductor)
- Additional brown and orange stripes denote 3 conductor cable
- Additional brown, orange and yellow stripes denote 4 conductor cable

Weights, Measurements and Packaging

Product Code		Trade Size	Grounding Conductor AWG	Length (feet)		Approx. Weight/1000 Feet (lbs.)	Armor Minimum O.D. (inches)
Coil	Reel			Coil	Reel		
1504G42-01	1504G60-01	12-2 Solid (brown)	12	250'	1000'	220	0.489
1504G42-02	1504G60-02	12-2 Solid (orange)	12	250'	1000'	220	0.489
1504G42-03	1504G60-03	12-2 Solid (yellow)	12	250'	1000'	220	0.489
1505G42-01	1505G60-01	12-3 Solid (brown, orange)	12	250'	1000'	260	0.520
1506G42-01	1506G60-01	12-4 Solid (brown, orange, yellow)	12	250'	1000'	300	0.545

NOTE: All dimensions and weights are subject to normal manufacturing tolerances. Other conductor colors available by special order.

WARNING: DO NOT RE-IDENTIFY CONDUCTOR COLORS.

HCF cables may not be used on emergency circuits in a health care setting.

See page 55 for bond wire termination details.

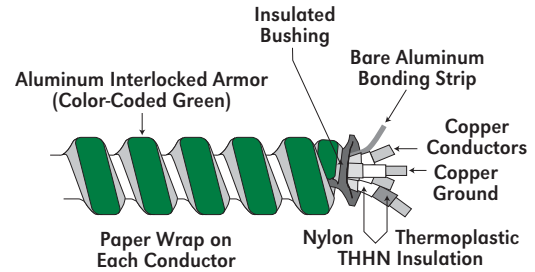
HCF-Lite® Aluminum Health Care Facilities Cable (120 Volt colors) Technical Specifications

Specification Description

Specification	HCF-Lite
Armor	Aluminum Interlocking Strip (green striped)
Conductors	Solid/Stranded Copper
Conductor Insulation	THHN
Conductor Insulation Covering	Paper Wrap
Maximum Temperature Rating	90°C (dry)
Grounding	16AWG integral Bond Wire/Armor combination plus insulated green grounding conductor (2 grounding means)
Neutral Conductor	White
Maximum Voltage Rating	600V

References & Ratings

- U.L. 4, 83, 1479, 1581, File Reference E7330
- NEC 250.118, 300.22(C), 392, 320, 517.13, 518, 645
- Federal Specification A-A-59544 (formerly J-C-30B)
- Meets all applicable OSHA and HUD Requirements
- Cable Tray installations per NEC
- U.L. Classified 1, 2 and 3-hour through-penetration Fire Wall
- Environmental Air-Handling Space installation



AFC's Color-Coded Armored Cable System

- Additional red stripe denotes 3 conductor cable
- Additional red and light blue stripes denote 4 conductor cable
- Additional red and white stripes denote special 2 conductor cable
- Additional light blue and white stripes denote special 2 conductor cable
- Additional red, light blue and white stripes denote special 3 conductor cable
- Additional black, light blue and white stripes denote special 3 conductor cable

Weights, Measurements and Packaging

Product Code		Trade Size	Grounding Conductor AWG	Length (feet)		Approx. Weight/1000 Feet (lbs.)	Armor Minimum O.D. (inches)
Coil	Reel			Coil	Reel		
Stock Items							
2801G42-00	2801G60-00	14-2 Solid	14	250'	1000'	100	0.453
2802G42-00	2802G60-00	14-3 Solid	14	250'	1000'	120	0.486
2803G42-00	2803G60-00	14-4 Solid	14	250'	1000'	140	0.522
2804G42-00	2804G60-00	12-2 Solid	12	250'	1000'	130	0.489
2805G42-00	2805G60-00	12-3 Solid	12	250'	1000'	155	0.520
2806G42-00	2806G60-00	12-4 Solid	12	250'	1000'	185	0.545
2858G42-00	2858G60-00	12-2 Stranded	12	250'	1000'	130	0.489
2859G42-00	2859G60-00	12-3 Stranded	12	250'	1000'	155	0.520
2860G42-00	2860G60-00	12-4 Stranded	12	250'	1000'	185	0.545
2807G32-00	—	10-2 Solid	10	125'	—	180	0.500
2808G32-00	—	10-3 Solid	10	125'	—	225	0.541
2809G32-00	—	10-4 Solid	10	125'	—	275	0.587
2807G42-00	2807G60-00	10-2 Solid	10	250'	1000'	180	0.500
2808G42-00	2808G60-00	10-3 Solid	10	250'	1000'	225	0.541
2809G42-00	2809G60-00	10-4 Solid	10	250'	1000'	275	0.587
Specialty Colors							
2804G42-04	2804G60-04	12-2 Solid (red, white)	12	250'	1000'	130	0.489
2804G42-05	2804G60-05	12-2 Solid (blue, white)	12	250'	1000'	130	0.489
2805G42-04	2805G60-04	12-3 Solid (red, blue, white)	12	250'	1000'	155	0.520
2805G42-05	2805G60-05	12-3 Solid (black, blue, white)	12	250'	1000'	155	0.520

NOTE: All dimensions and weights are subject to normal manufacturing tolerances.
Not to be used with set screw type fittings or on DC circuits.
Sizes 8 gauge and larger available by special order and subject to lead time and minimum quantities.

WARNING: DO NOT RE-IDENTIFY CONDUCTOR COLORS.

HCF cables may not be used on emergency circuits in a health care setting.

See page 55 for bond wire termination details.

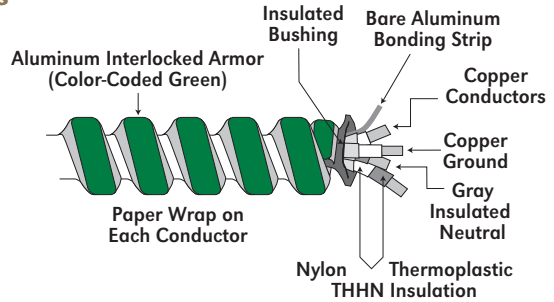
HCF-Lite[®] Aluminum Health Care Facilities Cable (480Y/277 Volt colors) Technical Specifications

Specification Description

Specification	HCF-Lite
Armor	Aluminum Interlocking Strip (green striped)
Conductors	Solid Copper
Conductor Insulation	THHN
Conductor Insulation Covering	Paper Wrap
Maximum Temperature Rating	90°C (dry)
Grounding	16 AWG integral Bond Wire/Armor combination plus insulated green grounding conductor (2 grounding means)
Neutral Conductor	Gray
Maximum Voltage Rating	600V

References & Ratings

- U.L. 4, 83, 1479, 1581, File Reference E7330
- NEC 250.118, 300.22(C), 392, 320, 517.13, 518, 645
- Federal Specification A-A-59544 (formerly J-C-30B)
- Meets all applicable OSHA and HUD Requirements
- Cable Tray installations per NEC
- U.L. Classified 1, 2 and 3-hour through-penetration Fire Wall
- Environmental Air-Handling Space installation



AFC's Color-Coded Armored Cable System

- Additional brown stripe denotes 2 conductor cable (brown conductor)
- Additional orange stripe denotes 2 conductor cable (orange conductor)
- Additional yellow stripe denotes 2 conductor cable (yellow conductor)
- Additional brown and orange stripes denote 3 conductor cable
- Additional brown, orange and yellow stripes denote 4 conductor cable

Weights, Measurements and Packaging

Product Code		Trade Size	Grounding Conductor AWG	Length (feet)		Approx. Weight/1000 Feet (lbs.)	Armor Minimum O.D. (inches)
Coil	Reel			Coil	Reel		
2804G42-01	2804G60-01	12-2 Solid (brown)	12	250'	1000'	130	0.489
2804G42-02	2804G60-02	12-2 Solid (orange)	12	250'	1000'	130	0.489
2804G42-03	2804G60-03	12-2 Solid (yellow)	12	250'	1000'	130	0.489
2805G42-01	2805G60-01	12-3 Solid (brown, orange)	12	250'	1000'	155	0.5201
2806G42-01	2806G60-01	12-4 Solid (brown, orange, yellow)	12	250'	1000'	185	0.545

NOTE: All dimensions and weights are subject to normal manufacturing tolerances. Other conductor colors available by special order. Not to be used with set screw type fittings or on DC circuits.

WARNING: DO NOT RE-IDENTIFY CONDUCTOR COLORS.

HCF cables may not be used on emergency circuits in a health care setting.

See page 55 for bond wire termination details.

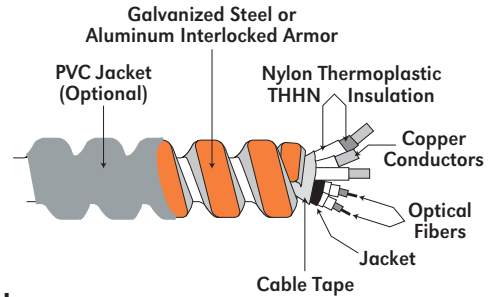
MC/OF[®] Type MC Cable with Optical Fiber Technical Specifications

Specification Description

Specification	MC/OF Cable
Armor	Galvanized Interlocking Steel or Aluminum Interlocking Strip with (optional) PVC jacket
Conductors	Solid/Stranded Copper; OFN/OFNP/etc. Optical Fibers
Conductor Insulation	TFN or THHN
Assembly Covering	Polypropylene Tape
Maximum Temperature Rating	90°C (dry)
Grounding	Insulated Green Grounding Conductor (additional insulated conductors available)
Maximum Voltage Rating	600V

References & Ratings

- U.L. 66, 83, 1569, 1581, 1651, File Reference E80042
- NEC 230.43, 300.22(C), 392, 396, 330, 517, 518, 530, 645, 725, 770
- Federal Specification A-A-59544 (formerly J-C-30B)
- Cable Tray installations per NEC
- Environmental Air-Handling Space installation (without PVC Jacket)
- **U.L. listed for DIRECT BURIAL in earth or concrete with PVC jacket and outdoor rated optical fiber**
- U.L. listed sunlight resistant with PVC jacket
- U.L. listed Oil Resistant II with PVC jacket



Weights, Measurements and Packaging

Product Code	Phase Conductor AWG	Trade Size	# of Optical Fibers	Fiber Size (microns)	Optical Fiber Core O.D. (inches)	Optical Fiber Core Weight/1000 Feet (lbs)	Armor Minimum O.D. (inches)	Armor/Jacket Minimum O.D. (inches)
*	18-2 Solid**	18	2	62.5	0.264	27	0.605	235/120
*	16-2 Solid**	16	2	62.5	0.264	27	0.620	250/130
*	14-2 Solid**	14	2	62.5	0.264	27	0.630	275/150
*	12-2 Solid**	12	2	62.5	0.264	27	0.650	305/175
*	10-2 Solid**	10	2	62.5	0.264	27	0.685	365/225
*	18-2 Solid**	18	4	62.5	0.288	32	0.630	250/125
*	16-2 Solid**	16	4	62.5	0.288	32	0.640	265/140
*	14-2 Solid**	14	4	62.5	0.288	32	0.655	290/155
*	12-2 Solid**	12	4	62.5	0.288	32	0.675	320/185
*	10-2 Solid**	10	4	62.5	0.288	32	0.705	375/230
*	18-2 Solid***	18	2	62.5	0.264	12	0.535	185/90
*	16-2 Solid***	16	2	62.5	0.264	12	0.545	200/100
*	14-2 Solid***	14	2	62.5	0.264	12	0.560	220/120
*	12-2 Solid***	12	2	62.5	0.264	12	0.580	260/150
*	10-2 Solid***	10	2	62.5	0.264	12	0.610	315/195
*	18-2 Solid***	18	4	62.5	0.288	14	0.545	200/95
*	16-2 Solid***	16	4	62.5	0.288	14	0.555	215/105
*	14-2 Solid***	14	4	62.5	0.288	14	0.570	240/125
*	12-2 Solid***	12	4	62.5	0.288	14	0.590	270/150
*	10-2 Solid***	10	4	62.5	0.288	14	0.620	325/200

NOTE: All dimensions and weights subject to normal manufacturing tolerances. Other MC/OF Cable sizes, configurations and modes are available to meet specific applications.

* Non-stock item requiring lead time and minimum quantity.

** Loose Buffered Tube Design

*** Tight Buffered Tube Design

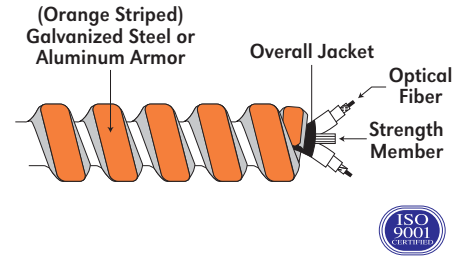
MOF[®] Armored Fiber Optical Cable Technical Specifications

Specification Description

Specification	Optical Fiber Cable
Armor	Galvanized Interlocking Steel Strip (orange stripe)
Optical Fiber Core Component (before armoring)	One or more single or multi mode Loose tube or buffer tube, Graded or step index OFNP
Optical Fiber Cable (after armoring)	OFCP

References & Ratings

- U.L. 1651, File Reference E160997
- NEC 770
- NFPA 262, or U.L. 1666, or U.L. 1581
- U.L. listed
- **U.L. listed for DIRECT BURIAL in earth or concrete with PVC jacket and outdoor rated optical fiber**



Weights, Measurements and Packaging

Fiber Count Prefix	Product Code	Diameter Over Core (inches)	Diameter Over Armor Feet	Reel Length Per 1,000'	Approx. Weight
62.5/125 Multimode Tight Buffer					
2	1002	0.19	0.45	^	136
4	1004	0.20	0.45	^	139
6	1006	0.20	0.45	^	141
12	1012	0.25	0.49	^	165
24	1024	0.32	0.56	^	209
8.3/125 Singlemode Tight Buffer					
6	1066	0.20	0.45	^	141
12	1054	0.25	.490	^	165

Other fiber counts and specifications are available; subject to lead times and minimum run quantities.
^ Lengths as available. Cut to order with cutting charge.

Connector Cross-Reference Guide

MC TUFF Lightweight (MC) Steel Armor

Trade Size	Armor Min. O.D. (in.)	AFC	Adalet/ PLM	Arlington	Bridgeport	Madison	OZ-Gedney	Regal	T&B
14-2	0.470	AFC-50, 52	AC6	845, 845R	570-DC, 570-MC	MAFC-50, 52	PK-75	6620, 6231	2492
14-3	0.480	AFC-50, 52	AC6	845, 845R	570-DC, 570-MC	MAFC-50, 52	PK-75	6620, 6231	2492
14-4	0.510	AFC-50, 52	AC6	845, 845R	570-DC, 570-MC	MAFC-50, 52	PK-75	6620, 6231, 653	—
12-2	0.495	AFC-50, 52	AC6	845, 845R	570-DC, 570-MC	MAFC-50, 52	PK-75	6620, 6231, 653	2492
12-3	0.530	AFC-50, 52	AC6	845, 845R	570-DC, 570-MC	MAFC-50, 52	PK-75	6620, 6231, 653	—
12-4	0.565	AFC-50	AC6	845, 845R	570-DC, 570-MC	MAFC-50	PK-75	6620, 6231	—
10-2	0.560	AFC-50	AC6	845, 845R	570-DC, 570-MC	MAFC-50	PK-75	6620, 6231	—
10-3	0.600	AFC-50, 5075	AC6	845, 845R	575-MC	MAFC-50	PK-75	6620	—
10-4	0.645	AFC-75, 5075	AC8	L15A	575-MC	MAFC-75	PK-751	6620	—
8-2	0.635	AFC-75, 5075	AC6	L15A	561-DC2	MAFC-75	PK-751	—	—
8-3	0.685	AFC-75, 5075	AC8	L17A	561-DC2	MAFC-75	PK-751	6232	—
8-4	0.835	AFC-75, 5075	AC8	L17A	561-DC2	MAFC-75	PK-101	—	—
6-2	0.795	AFC-75	AC8	L17A	561-DC2	MAFC-75	PK-101	—	—
6-3	0.855	AFC-75	AC10	L17A	561-DC2	MAFC-75	PK-101	—	—

Arlington 845 & 845R set screw style

MC Metal Clad Cable (MC) Steel or MC-Lite Aluminum Armor

Trade Size	Armor Min. O.D. (in.)	AFC	Adalet/ PLM	Bridgeport	Madison	Neer	OZ-Gedney	Regal	T&B
14-2	0.470	AFC-50, 52	AC6	570-DC, 570-MC	MAFC-50, 52	C-510, TA-38	PK-75	6620, 6231	2492†
14-3	0.480	AFC-50, 52	AC6	570-DC, 570-MC	MAFC-50, 52	C-510, TA-38	PK-75	6620, 6231	2492†
14-4	0.510	AFC-50, 52	AC6	570-DC, 570-MC	MAFC-50, 52	C-510, TA-38	PK-75	6620, 6231, 653†	—
12-2	0.495	AFC-50, 52	AC6	570-DC, 570-MC	MAFC-50, 52	C-510, TA-38	PK-75	6620, 6231	2492†
12-3	0.530	AFC-50, 52	AC6	570-DC, 570-MC	MAFC-50, 52	C-510, TA-38	PK-75	6620, 6231, 653†	—
12-4	0.565	AFC-50	AC6	570-DC, 575-MC	MAFC-50	C-510†, TA-38†	PK-75	6620, 6231	—
10-2	0.560	AFC-50	AC6	570-DC, 575-MC	MAFC-50	C-510†, TA-38†	PK-75	6620, 6231	—
10-3	0.600	AFC-50, 5075	AC6	575-MC	MAFC-50	—	PK-75	6620	—
10-4	0.645	AFC-75, 5075	AC8	575-MC	MAFC-75	—	PK-751	—	—
8-2	0.635	AFC-75, 5075	AC6	561-DC2	MAFC-75	—	PK-751	—	—
8-3	0.685	AFC-75, 5075	AC8	561-DC2	MAFC-75	—	PK-751	6232†	—
8-4	0.835	AFC-75, 5075†	AC8	561-DC2	MAFC-75	—	PK-101	—	—
6-2	0.795	AFC-75	AC8	561-DC2	MAFC-75	—	PK-101	—	—
6-3	0.855	AFC-75	AC10	561-DC2	MAFC-75	—	PK-101	—	—
6-4	0.945	—	AC10	683-DC2	—	—	PK-125	—	—
4-2	0.945	—	AC10	683-DC2	—	—	PK-125	—	—
4-3	1.035	—	AC10	683-DC2	—	—	PK-125	—	—
4-4	1.135	—	AC12	684-DC2	—	—	PK-125	—	—
2-2	1.075	—	AC12	684-DC2	—	—	PK-125	—	—
2-3	1.180	—	AC12	684-DC2	—	—	PK-125	—	—
2-4	1.295	—	AC14	685-DC2	—	—	PK-125	—	—
1-3	1.185	—	AC12	684-DC2	—	—	PK-125	—	—
1-4	1.325	—	AC14	685-DC2	—	—	PK-150	—	—
1/0-3	1.255	—	AC14	685-DC2	—	—	PK-125	—	—
1/0-4	1.390	—	AC14	685-DC2	—	—	PK-150	—	—
2/0-3	1.350	—	AC14	685-DC2	—	—	PK-150	—	—
2/0-4	1.520	—	AC16	685-DC2	—	—	PK-200	—	—
3/0-3	1.520	—	AC16	685-DC2	—	—	PK-200	—	—
3/0-4	1.690	—	AC18	—	—	—	PK-200	—	—
4/0-3	1.580	—	AC16	—	—	—	PK-200	—	—
4/0-4	1.770	—	AC18	686-DC2	—	—	PK-200	—	—

† Steel Armor only.

The connector cross-reference guide is provided as a service to our customers. The information contained herein is based on manufacturer published literature. Consult appropriate manufacturer for more information.

MC/OF Composite Optical Fiber Cable (MC) Steel or Aluminum Armor

Call for connector information

SUPER NEUTRAL Super Neutral Cable (MC) Steel or Aluminum Armor

Product Code	Phase Conductors Size/No.	Neutral Conductors Size/No.	Grounding Conductors Size/No.	Armor Min. O.D. (in.)	AFC	Adalet/PLM	Madison	OZ-Gedney	Regal
2916	12-2	12-2	12-2	0.580	AFC-75	AC6	MAFC-75	PK-75	6231
2911	12-3	12-3	12-2	0.620	AFC-75	AC6	MAFC-75	PK-751	—
2960	12-4	12-3	12-2	0.659	AFC-75	AC8	MAFC-75	PK-751	6232†
2965	10-2	10-2	10-2	0.670	AFC-75	AC8	MAFC-75	PK-751	6232†
2912	10-3	10-3	10-2	0.720	AFC-75, 5075	AC8	MAFC-75	PK-751	—
Oversize Neutral Design									
2908	12-1	10-1	12-1	0.510	AFC-50	AC6	MAFC-50	PK-75	6231, 653†
2909	12-2	10-1	12-1	0.540	AFC-50	AC6	MAFC-50	PK-75	6231, 653†
2910	12-3	10-1	12-1	0.580	AFC-75	AC6	MAFC-75	PK-75	6231
2907	12-3	10-1	12-2	0.590	AFC-75	AC6	MAFC-75	PK-75	6231
2905	12-3	8-1	12-1	0.595	AFC-75	AC6	MAFC-75	PK-75	6231
2920	12-4	10-2	12-1	0.640	AFC-75	AC8	MAFC-75	PK-751	—
2918	12-4	10-2	12-2	0.660	AFC-75	AC8	MAFC-75	PK-751	6232†
2913	10-3	6-1	10-1	0.720	AFC-75, 5075	AC8	MAFC-75	PK-751	—
2970	10-4	8-2	10-2	0.800	AFC-75	AC8	MAFC-75	PK-101	6232††

† Steel armor only

†† Aluminum only

HOMERUN Home Run Cable (MC) Steel or Aluminum Armor

Trade Size	Armor Min. O.D. (in.)	AFC	Adalet/PLM	Bridgeport	Madison	OZ-Gedney
12-6	0.580	AFC-75	AC6	560-DC2	MAFC-75	PK-75
12-8	0.660	AFC-75	AC8	561-DC2	MAFC-75	PK-751
12-12	0.755	—	AC8	561-DC2	—	PK-751
12-16	0.830	—	AC8	561-DC2	—	PK-101
10-6	0.670	—	AC8	561-DC2	—	PK-751
10-8	0.765	—	AC8	561-DC2	—	PK-751
10-12	0.890	—	AC10	683-DC2	—	PK-101
10-16	0.980	—	AC10	683-DC2	—	PK-101

PARKING DECK/LOT CABLE Jacketed Metal Clad Cable (MC) (Non-Hazardous Locations)

Trade Size	Min. O.D. (in.) Armor	Jacket	Adalet/ PLM	AFC**	Appleton	Killark [◆]	OZ-Gedney	Per-Fit
12-2	0.495	0.605	JAG-065-05	AFC-50	TMC-5076	MCRA-050	PG-66-05A	WT-056-050
12-3	0.530	0.640	JAG-065-05	AFC-50	TMC-5076	MCRA-050	PG-66-05A	WT-056-050
12-4	0.565	0.675	JAG-075-05	AFC-50	TMC-5076	MCRA-050	PG-78-05A	WT-062-050
10-2	0.560	0.670	JAG-075-05	AFC-50	TMC-5076	MCRA-050	PG-78-05A	WT-062-050
10-3	0.600	0.710	JAG-075-05	AFC-75, 5075	TMC-5076	MCRA-050	PG-78-05A	WT-062-050
10-4	0.645	0.755	JAG-085-05	AFC-75, 5075	TMC-5076	MCRA-050	PG-78-05A	WT-069-075
8-2	0.635	0.745	JAG-085-05	AFC-75, 5075	TMC-5076	MCRA-050	PG-78-05A	WT-069-075
8-3	0.685	0.795	JAG-085-05	AFC-75, 5075	TMC-5099	MCRA-075	PG-89-05A	WT-069-075
8-4	0.835	0.945	JAG-099-07	AFC-75	TMC-5099	MCRA-075	PG-98-05A	WT-090-075
6-2	0.795	0.905	JAG-095-05	AFC-75	TMC-5099	MCRA-075	PG-98-05A	WT-083-075
6-3	0.855	0.965	JAG-099-07	—	TMC-5099	MCRA-075	PG-98-05A	WT-090-075
6-4	1.035	1.145	JAG-121-10	—	TMC-75121	MCRA-100	PG-121-07A	WT-111-100
4-3	.945	1.055	JAG-113-07	—	TMC-75121	MCRA-100	PG-107-10A	WT-097-100
4-4	1.135	1.245	JAG-138-10	—	TMC-100138	MCRA-100	PG-138-10A	WT-118-100
2-3	1.180	1.290	JAG-138-10	—	TMC-100138	MCRA-125	PG-138-10A	WT-125-125
2-4	1.295	1.405	JAG-156-12	—	TMC-125163	MCRA-125	PG-163-12A	WT-132-125
1-3	1.185	1.295	JAG-138-10	—	TMC-100138	MCRA-125	PG-138-12A	WT-125-125
1-4	1.325	1.435	JAG-156-12	—	TMC-125163	MCRA-125	PG-163-12A	WT-139-125
1/0-3	1.255	1.365	JAG-156-12	—	TMC-100138	MCRA-125	PG-163-12A	WT-132-125

** Dry only: Concrete tight when taped – not for direct burial ◆ Killark MCRA connectors meet various hazardous locations. Contact manufacturer for details.

FIRE ALARM Fire Alarm Control Cable (MC)

Trade Size	Armor Min. O.D. (in.)	AFC	Adalet/ PLM	Bridgeport	Madison	Neer	OZ-Gedney	Regal	T&B
18-2	0.410	—	AC6	560-DC2	—	C-510	—	—	2492†
18-4	0.430	—	AC6	560-DC2	—	C-510	PK-75	—	2492†
18-6	0.490	AFC-50	AC6	560-DC2	MAFC-50	C-510	PK-75	6620	2492†
18-8	0.510	AFC-50	AC6	560-DC2	MAFC-50	C-510	PK-75	6620	2492†
16-2	0.420	AFC-50	AC6	560-DC2	MAFC-50	C-510	PK-75	6620	2492†
16-4	0.440	AFC-50	AC6	560-DC2	MAFC-50	C-510	PK-75	—	2492†
16-6	0.510	AFC-50	AC6	560-DC2	MAFC-50	C-510	PK-75	6620, 6231, 653†	2492†
16-8	0.520	AFC-50	AC6	560-DC2	MAFC-50	C-510	PK-75	6620, 6231, 653†	2492†
14-2	0.470	AFC-50	AC6	560-DC2	MAFC-50	C-510	PK-75	6620, 6231	2492†
14-4	0.510	AFC-50	AC6	560-DC2	MAFC-50	C-510	PK-75	6620, 6231	2492†
14-6	0.520	AFC-50	AC6	560-DC2	MAFC-50	C-510	PK-75	6620, 6231, 653†	2492†
14-8	0.585	AFC-75	AC6	560-DC2	MAFC-75	C-510†	PK-75	6620, 6231, 653†	—
12-2	0.495	AFC-50	AC6	560-DC2	MAFC-50	C-510	PK-75	6620, 6231	2492†
12-4	0.565	AFC-50	AC6	560-DC2	MAFC-50	C-510†	PK-75	6620, 6231	—
18-2*	0.420	AFC-50	AC6	560-DC2	MAFC-50	C-510	PK-75	—	—
16-2*	0.430	AFC-50	AC6	560-DC2	MAFC-50	C-510	PK-75	—	—
16-4**	0.450	AFC-50	AC6	560-DC2	MAFC-50	C-510	PK-75	6231	2492†
14-2*	0.470	AFC-50	AC6	560-DC2	MAFC-50	C-510	PK-75	6620, 6231	2492†
18-2†14-2**	0.640	AFC-75	AC6	561-DC2	MAFC-75	—	PK-751	—	—

* One twisted shielded pair ** Two twisted shielded pairs † Steel Armor only

MC TUFF IG Isolated Ground Cable (MC) Steel

Trade Size	Armor Min. O.D. (in.)	AFC	Adalet/ PLM	Arlington	Bridgeport	Madison	OZ-Gedney/ Neer	Regal
12-2	0.530	AFC-50	AC6	8402	570-DC, 570-MC	MAFC-50	PK-75/C-510	6620, 6231, 653
12-3	0.565	AFC-50	AC6	8400	570-DC, 570-MC	MAFC-50	PK-75/C-510	6620, 6231
12-4	0.580	AFC-50	AC6	8400	570-DC, 570-MC	MAFC-50	PK-75/C-510	6620, 6231
10-2	0.600	AFC-50	AC6	8402	570-DC, 570-MC	MAFC-50	PK-75/GCI	6620
10-3	0.645	AFC-75, 5075	AC8	8402	577-MC	MAFC-75	PK-751/GCI	—
10-4	0.670	AFC-75, 5075	AC8	8402	577-MC	MAFC-75	PK-751/GCI	6232†

Arlington 845 & 845R set screw style

† Steel Armor only

AC Armored Cable (AC) Steel or Aluminum Armor

Trade Size	Armor Min. O.D. (in.)	AFC	Appleton	Bridgeport	Madison	Neer	OZ-Gedney	Regal	T&B
14-2	0.433	AFC-50, 52	7315V	565-DC2	MAFC-50, 52	C-510, TA-38	C-1Z†, C-15L	6231†	300TB
14-3	0.453	AFC-50, 52	7315V	565-DC2	MAFC-50, 52	C-510, TA-38	C-1Z†, C-15L	6231, 6620	300TB
14-4	0.486	—	7315V	565-DC2	—	C-510, TA-38	C-1Z†, C-15L	6231, 6620	300TB
12-2	0.467	AFC-50, 52	7315V	565-DC2	MAFC-50, 52	C-510, TA-38	C-1Z†, C-15L	6231, 6620	300TB
12-3	0.489	AFC-50, 52	7315V	565-DC2	MAFC-50, 52	C-510, TA-38	C-1Z†, C-15L	6231, 6620	300TB
12-4	0.520	AFC-50, 52	7315V	565-DC2	MAFC-50, 52	C-510, TA-38	C-1Z†, C-15L	6231, 6620	300TB
10-2	0.476	AFC-50, 52	7315V	565-DC2	MAFC-50, 52	C-510, TA-38	C-1Z†, C-15L	6231, 6620	300TB
10-3	0.500	AFC-50	7315V	565-DC2	MAFC-50	C-510, TA-38	C-1Z†, C-15L	6231, 6620	300TB
10-4	0.541	AFC-75, 5075	7315V	635-DC2	MAFC-75	C-510, TA-38	C-1Z†, C-15L	6231	300TB
8-2*	0.604	AFC-75	7315V	635-DC2	MAFC-75	—	C-1Z†, C-15L	—	300TB
8-3*	0.637	AFC-75, 5075	7287V	635-DC2	MAFC-75	—	KC-50	—	300TB
8-4*	0.695	AFC-75, 5075	7287V	653-DC2	MAFC-75	—	KC-50	6232†	—
6-2*	0.700	AFC-75	7287V	653-DC2	MAFC-75	—	KC-50	6232†	—
6-3*	0.739	AFC-75, 5075†	7287V	653-DC2	MAFC-75	—	KC-50	—	302
6-4*	0.807	—	7287V	653-DC2	—	—	KC-50	6232††	302
4-2*	0.836	—	7287V	653-DC2	—	—	KC-50	—	302
4-3*	0.885	—	7287V	653-DC2	—	—	KC-50	—	302
4-4*	0.970	—	7289V	—	—	—	KC-75	—	304
2-3*	1.014	—	7289V	—	—	—	KC-75	—	304
2-4*	1.115	—	7289V	—	—	—	KC-100	—	—

HCF Health Care Facilities Cable (AC) Steel or Aluminum Armor

Trade Size	Armor Min. O.D. (in.)	AFC	Appleton	Bridgeport	Madison	Neer	OZ-Gedney	Regal	T&B
14-2	0.453	AFC-50, 52	7315V	560-DC2†, 565-DC2	MAFC-50, 52	C-510, TA-38	C-1Z†	6231, 6620	300TB
14-3	0.486	AFC-50, 52	7315V	560-DC2†, 565-DC2	MAFC-50, 52	C-510, TA-38	C-1Z†	6231, 6620	300TB
14-4	0.522	—	7315V	560-DC2†, 565-DC2	—	C-510, TA-38	C-1Z†	6231, 6620	300TB
12-2	0.489	AFC-50, 52	7315V	560-DC2†, 565-DC2	MAFC-50, 52	C-510, TA-38	C-1Z†	6231, 6620	300TB
12-3	0.520	AFC-50, 52	7315V	560-DC2†, 565-DC2	MAFC-50, 52	C-510, TA-38	C-1Z†	6231, 6620	300TB
12-4	0.545	AFC-50†	7315V	560-DC2†, 635-DC2	MAFC-50†	C-510, TA-38	C-1Z†	6231, 6620	300TB
10-2	0.500	AFC-50†, 52	7315V	560-DC2†, 565-DC2	MAFC-50†, 52	C-510, TA-38	C-1Z†	6231, 6620	300TB
10-3	0.541	AFC-50, 52	7315V	560-DC2†, 635-DC2	MAFC-50, 52	C-510, TA-38	C-1Z†	6231, 6620	300TB
10-4	0.587	AFC-75, 5075	7315V	560-DC2†, 635-DC2	MAFC-75	—	C-1Z†	6231	300TB

† Steel Armor only †† Aluminum only
 * Stranded conductors

The connector cross-reference guide is provided as a service to our customers. The information contained herein is based on manufacturer published literature. Consult appropriate manufacturer for more information.

Comparison of AC & MC Cables

	Armored Cable Type AC (ACTHH)	HCF-90® Type AC (ACTHH)	Metal Clad Cable Type MC	Metal Clad Cable Type MC/IG®
U.L. Mfg. Standard	U.L. 4	U.L. 4	U.L. 1569	U.L. 1569
NEC References	Article 320, 645	Articles 320, 517, 518, 645	Articles 330, 518, 645	Articles 330, 518, 645
Conductors	Copper	Copper	Copper	Copper
Conductor Insulation	THHN 90° C	THHN 90° C	THHN 90° C	THHN 90° C
Voltage Rating	600V	600V	600V	600V
Conductor Covering	Paper wrap on each	Paper wrap on each	Polypropylene assembly tape overall	Polypropylene assembly tape overall
No. of Conductors	2-4 Circuit conductors	2-4 Circuit conductors plus ground	One or more with grounding conductor	One or more with two grounding conductors
Sizes Manufactured	14 AWG - 1 AWG	14 AWG - 1 AWG	18 AWG - 250 KCMIL	12 AWG & 10 AWG
Armor	Interlocked steel or aluminum	Interlocked steel or aluminum	Interlocked steel or aluminum	Interlocked steel
Insulated Bushings	Required	Required	Optional	Optional
Cable Tray Rated	Yes	Yes	Yes	Yes
Fire Wall Rated	Yes; 1, 2 and 3 hour rated for through penetrations	Yes; 1, 2 and 3 hour rated for through penetrations	Yes; 1, 2 and 3 hour rated for through penetrations	Yes; 1, 2 and 3 hour rated for through penetrations
Min. Bend Radius	5 times cable O.D.	5 times cable O.D.	7 times cable O.D.	7 times cable O.D.
Identification Method	Indent on armor	Indent on armor	Marker tape under armor or indent on armor	Marker tape under armor or indent on armor
Grounding Means	Combined armor/bond wire = 1 equipment	Combined armor/bond wire plus green grounding conductor = 2 grounding means	One green insulated or bare copper grounding conductor	Two insulated grounding conductors; green; green/yellow conductor
Environmental Air Ceilings	Yes; 300.22 (C)	Yes; 300.22 (C)	Yes; 300.22 (C)	Yes; 300.22 (C)
Applications	Branch circuits and feeders in both exposed and concealed work; embedded in plaster finish on brick or other masonry (except damp or wet locations); fished or run in air voids of masonry block or tile walls.	Branch circuits and feeders in hospitals, nursing homes and medical centers (areas of patient care); where redundancy of grounding is required; where an isolated or dedicated ground is required (e.g., computer power circuits).	Branch circuits, feeders and service for power, lighting, control, and signal circuits. Exposed or concealed, in any approved raceway. As open runs of cable or aerial cable on a messenger. In hazardous conditions as permitted in NEC Articles 501, 502, and 503.	Branch circuits, feeders and service for power, lighting, control, and signal circuits. Exposed or concealed, in any approved raceway. As open runs of cable or aerial cable on a messenger. In hazardous conditions as permitted in NEC Articles 501, 502, and 503.

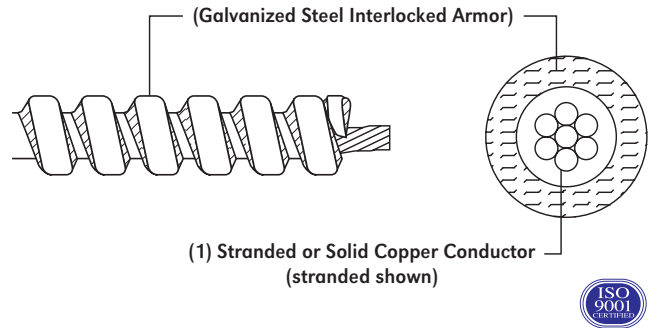
Bare Armored Ground Cable Technical Specifications

Specification Description

Specification	Bare Armored Ground
Armor	Galvanized interlocked steel
Conductors	Solid 8 AWG and 6 AWG 7 Strand 4 AWG

References & Ratings

- U.L. 467 E82631
- NEC 250.118



Weights, Measurements and Packaging

Product Code		Trade Size	Length (feet)		Approx. Weight/1000 Feet (lbs.)	Armor Minimum O.D. (inches)
Coil	Reel		Coil	Reel		
1301-42-00	1301-60-00	8-1 Solid	250'	1000'	136	tba
1302-42-00	1302-60-00	6-1 Solid	250'	1000'	168	tba
1303-42-00	1303-45-00	4-1 Stranded	250'	500'	241	tba

NOTE: All dimensions and weights are subject to normal manufacturing tolerances

AFC
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TEMP-LITES™



LIGHTING,
POWER &
APPLIANCE
WHIPS

AFC Lighting, Power & Appliance Whips – Metallic

Specification Description

Specification Whips

Conduit	Galvanized Type FMC Steel Flexible Metal Conduit
Conductors	THHN 14AWG and Larger 18 & 16AWG TFN/TFN
Maximum Temperature Rating	90°C (dry)
Grounding	NEC 250.118(6) many styles with green grounding conductor
Maximum Voltage Rating	600V

Galvanized Steel Flexible Metal Conduit

Solid Conductors

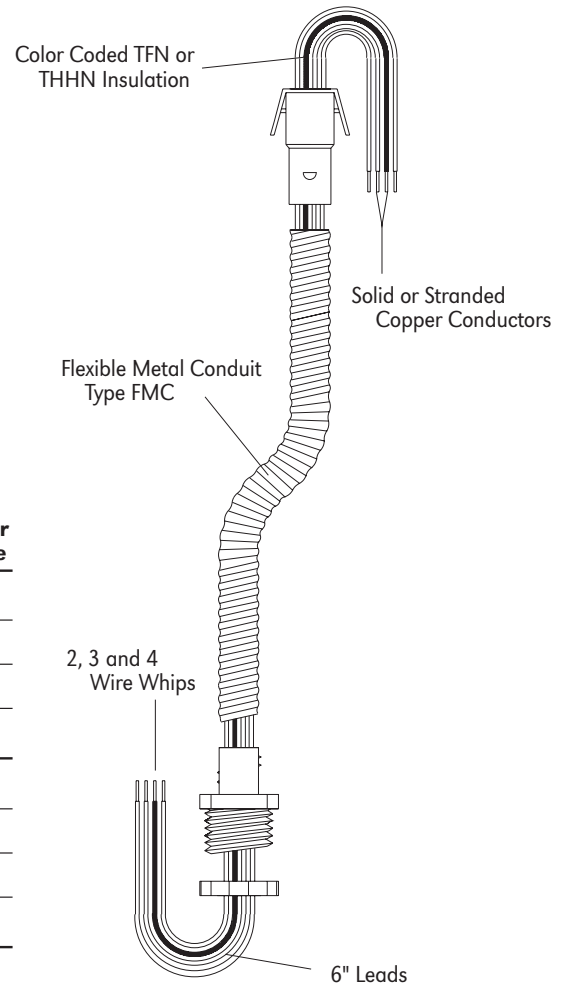
Description	Part Number	Units Per Package
3/8 F x 6	18-2	4521-21 30
	18-2	4521-30 100
	16-2	4511-21 30
	16-2	4511-30 100
	14-2	4501-21 30
	14-2	4501-30 100
	12-2	4578-21 30
	12-2	4578-30 100
3/8 F x 6	18-3	4522-21 30
	18-3	4522-30 100
	16-3	4512-21 30
	16-3	4512-30 100
	14-3	4502-21 30
	14-3	4502-30 100
	12-3	4579-21 30
	12-3	4579-30 100
3/8 F x 6	18-4	4523-21 30
	18-4	4523-30 100
	16-4	4513-21 30
	16-4	4513-30 100
	14-4	4503-21 30
	14-4	4503-30 100
	12-4	4580-21 30
	12-4	4580-30 100
1/2 F x 6	14-2	4701-15 15
	14-2	4701-24 50
	12-2	4704-15 15
	12-2	4704-24 50
1/2 F x 6	14-3	4702-15 15
	14-3	4702-24 50
	12-3	4705-15 15
	12-3	4705-24 50
1/2 F x 6	14-4	4703-15 15
	14-4	4703-24 50
	12-4	4706-15 15
	12-4	4706-24 50

Stranded Conductors

Description	Part Number	Units Per Package
3/8 F x 6	18-2	4621-21 30
	18-2	4621-30 100
	16-2	4611-21 30
	16-2	4611-30 100
	14-2	4601-21 30
	14-2	4601-30 100
	12-2	4678-21 30
	12-2	4678-30 100
3/8 F x 6	18-3	4622-21 30
	18-3	4622-30 100
	16-3	4612-21 30
	16-3	4612-30 100
	14-3	4602-21 30
	14-3	4602-30 100
	12-3	4679-21 30
	12-3	4679-30 100
3/8 F x 6	18-4	4623-21 30
	18-4	4623-30 100
	16-4	4613-21 30
	16-4	4613-30 100
	14-4	4603-21 30
	14-4	4603-30 100
	12-4	4680-21 30
	12-4	4680-30 100
1/2 F x 6	14-2	4801-15 15
	14-2	4801-24 50
	12-2	4804-15 15
	12-2	4804-24 50
1/2 F x 6	14-3	4802-15 15
	14-3	4802-24 50
	12-3	4805-15 15
	12-3	4805-24 50
1/2 F x 6	14-4	4803-15 15
	14-4	4803-24 50
	12-4	4806-15 15
	12-4	4806-24 50

References & Ratings

- U.L. File Reference E96572
- NEC 410, 430, 440, 250, 348



Whips come with standard 120V color THHN conductors but are also available with 277V colors if specified on order.

3/8" whips have screw in die cast connectors on the 18AWG, 16AWG & 14AWG and set screw die cast for the 12AWG. 1/2" whips have screw in die cast connectors.

2 conductor is black, white.

3 conductor is black, white, green.

4 conductor is black, white, red, green.

All whips are available in barrels and cartons.

AFC Lighting, Power & Appliance Whips – Non-metallic

Specification Description

Specification Whips

Conduit	Type LFNC, Non-metallic Liquidtight
Conductors	THHN/THWN 8 & 10 AWG
Maximum Temperature Rating	90°C (dry) 75°C (wet)
Grounding	NEC 250.118
Maximum Voltage Rating	600V

References & Ratings

- U.L. File Reference E96572
- NEC 410, 430, 440, 250, 356



Non-metallic Liquidtight Whips Standard Configurations

Product Code	Size	Length	No. of Cond.	AWG (cond. size)	Put Up
8014	1/2"	4'	3	10	10 per box
8015	1/2"	6'	3	10	10 per box
8016	3/4"	4'	3	8	10 per box
8017	3/4"	6'	3	8	8 per box
8021	1/2"	4'	3	10	20 bulk
8022	1/2"	6'	3	10	15 bulk
8023	3/4"	4'	3	8	10 bulk
8024	3/4"	6'	3	8	10 bulk

Whips come with Black, Red, Green THHN/THWN conductors.

Other conductor colors available by special request.

All whips come with one straight non-metallic liquidtight connector and one 90° angle non-metallic liquidtight connector.

AFC TEMP-LITES™

Description

Each carton contains a 100-foot light string with 10 sockets for lamps. The clip-on outer cage comes pre-assembled, making installation quick and easy. This durable cage is designed to be shock resistant and its flip-open design ensures easy lamping. Each lamp holder is supplied with a hanger and will accommodate up to a 150 watt lamp.

Features

- Factory assembled – ready to install
- Lightweight and reusable
- Fast installation
- Available in U.L. listed and economy styles



References and Ratings (#7101 only)

- U.L. 1088
- U.L. File E178404

U.L. listed Temp-Lites

Standard Configuration

Catalog Number	Description	Length
7101	U.L. listed 14 AWG, 600V 2 conductor Outdoor/weather resistant Easy to install clip-on cage	100'/10 Lights

Economy Temp-Lites – Non-U.L.

Standard Configuration

Catalog Number	Description	Length
7131	14 AWG, 600V 2 conductor twisted black/white One piece molded socket with built-in hanging support Easy to install clip-on cage	100'/10 Lights

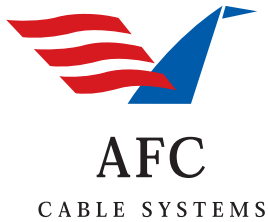
U.L. listed model meets OSHA requirements.

Custom options and configurations are available by special order – contact the factory for details.

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FLEXIBLE
CONDUITS



FLEXIBLE CONDUITS

From AFC

AFC Flexible Metal Conduits and Liquidtight Conduits

These cost-effective wiring solutions combine the mechanical protection of rigid conduit with the benefits of a flexible armor. And because they're flexible, no pipe benders are ever needed. That saves you time, labor and money on every job.

Quality AFC Products for more than 70 years

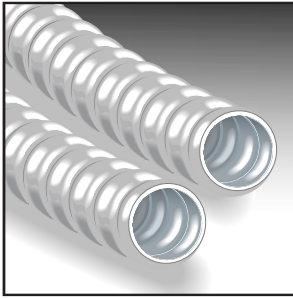
Every flexible conduit and cable is manufactured to the stringent quality requirements of ISO 9001. In addition, each of our products meets or exceeds all applicable electrical requirements as established by the National Electrical Code (NEC).

AFC offers a wide range of state-of-the-art products for almost every wiring job. From flexible metal conduit to non-metallic liquidtight...from standard AC and MC cables to specialty fire alarm and fiber optic cables...AFC is the source for all of your wiring needs.

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AFC Full & Reduced Wall Flexible Conduits

Galvanized Steel or Aluminum

Features & Benefits

High-grade galvanized steel or aluminum alloy strip of uniform gauge for an excellent combination of strength and durability

Interlocking design formed from continuous metal strip for integrity and flexibility

Reduced Wall Conduits 40% lighter (steel) or 66% lighter (aluminum) than heavy-gauge steel

Interior surface allows easy wire fishing

Galvanized steel for superior corrosion resistance

U.L. conduits with 2-hour (aluminum) and 3-hour (steel) through-penetration

Fire Wall classification

Applications

Motor lead enclosures; tap connections to lighting whips; manufactured wiring systems; lighting system wired fixture sections; in hoistways; exposed, concealed or in an approved raceway; open or messenger supported aerial runs and environmental air-handling spaces

Product Specifications

Full Wall Steel Flexible Conduit

Reduced Wall Steel Flexible Conduit

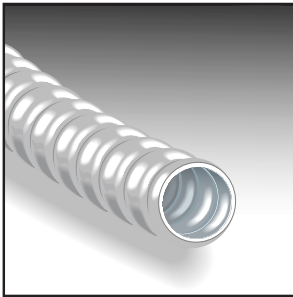
Reduced Wall Aluminum Flexible Conduit

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AFC Extra Flexible Conduits

Galvanized Steel

Features & Benefits

High-grade galvanized steel or aluminum alloy strip of uniform gauge for an excellent combination of strength and durability

Interlocking design formed from continuous metal strip for integrity and flexibility

Reduced Wall Conduits 40% lighter (steel) or 66% lighter (aluminum) than heavy-gauge steel

Interior surface allows easy wire fishing

Galvanized steel for superior corrosion resistance

Applications

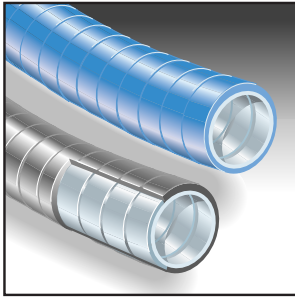
General purpose applications; a variety of OEM applications; installations in close quarters requiring extra flexibility.

Product Specifications

Extra Flexible Conduit

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Amer-Tite® Liquidtight Flexible Metal Conduits

Galvanized Steel Core

Features & Benefits

Highly flexible crush and corrosion-resistant hot-dipped galvanized steel cores

Resistance to liquids, dirt, grease, and many other environmental hazards

Availability in U.L., and JIC versions

Strong and durable PVC jacket

Smooth interior for easy wire pulling

Availability of flexible metal conduits in a variety of configurations to meet most applications including:

General Purpose (Type GP/UL)

Computer Room (Type BLUE/UL)

Applications

Air conditioners, blowers, conveyors, cranes, lubrication equipment, machine tools, rolling equipment and many other industrial/commercial applications—exposed or concealed—use with all standard liquidtight fittings—other colors available upon request.

Product Specifications

Amer-Tite® Liquidtight Flexible Metal Conduit (TYPE GP)

Amer-Tite® Liquidtight Flexible Metal Conduit (Type BLUE)

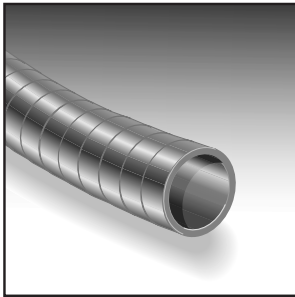
Amer-Tite® Liquidtight Flexible Metal Conduit (TYPE GP-VF)

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Amer-Tite® Liquidtight Flexible Non-Metallic Conduits

Features & Benefits

Highly flexible crush resistant, resistance to liquids, dirt, grease, and many other environmental hazards

Strong and durable PVC

Smooth interior for easy wire pulling

Availability of flexible non-metallic conduits to meet many applications:

NEC Type LFNC-B

U.L. Type FNM-C-B

Applications

Under raised computer room floors, pools, air conditioners, computer power distribution, machine tools, blowers, and many other industrial and commercial applications — locations requiring non-conductive conduit — exposed or concealed — for use indoors or out.

Product Specifications

Amer-Tite® Liquidtight Flexible Non-Metallic Conduit (Type LFNC)

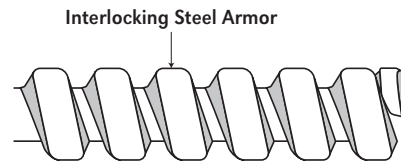
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Full Wall Steel Flexible Conduit Technical Specifications

Specification Description

Product Code	Description	Construction	Listing
54XX	Full Wall Flexible Conduit	Steel	U.L., CSA



References & Ratings

- U.L. 1, U.L. 1479, File Reference E11831, CSA Certified File LL15035
- Federal Specification WW-C-566C, (now superseded by U.L. 1)
- NEC 250.118(6), 300.22(C), 348, 430.123, 501.4(B)(2), 645.5
- Cable Tray installations per NEC
- Environmental Air-Handling space installation
- U.L. Classified 1, 2 and 3-hour through-penetration Fire Wall

Weights, Measurements and Packaging

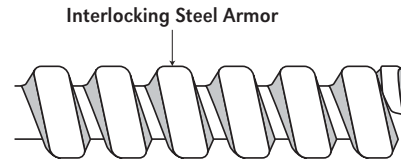
Product Code	Trade Size (inches)	Trade Size (mm)	Coil Length (feet)	Reel Length (feet)	Internal Diameter (min/max) inches	External Diameter (min/max) inches	Approx. Weight 100 feet (pounds)	Bend Radius (inches)
5401-30-00	3/8	10	100'	—	0.375/0.393	0.560/0.610	25	2
5401-42-00	3/8	10	250'	—	0.375/0.393	0.560/0.610	25	2
5401-45-00	3/8	10	—	500'	0.375/0.393	0.560/0.610	25	2
5401-60-00	3/8	10	—	1000'	0.375/0.393	0.560/0.610	25	2
5402-30-00	1/2	16	100'	—	0.625/0.645	0.860/0.920	47	3
5402-45-00	1/2	16	—	500'	0.625/0.645	0.860/0.920	47	3
5402-60-00	1/2	16	—	1000'	0.625/0.645	0.860/0.920	47	3
5403-30-00	3/4	21	100'	—	0.812/0.835	1.045/1.105	60	4
5403-45-00	3/4	21	—	500'	0.812/0.835	1.045/1.105	60	4
5404-24-00	1	26	50'	—	1.000/1.040	1.300/1.380	102	5
5405-24-00	1¼	32	50'	—	1.250/1.300	1.550/1.630	125	6¼

NOTE: All dimensions and weights are subject to normal manufacturing tolerances

Reduced Wall Steel Flexible Conduit Technical Specifications

Specification Description

Product Code	Description	Construction	Listing
55XX	Reduced Wall Flexible Conduit	Steel	U.L., CSA*



*3/8 size only

U.L. listed conduit requires grounding conductor per NEC 250.118(6)



References & Ratings

- U.L. 1, U.L. 1479, File Reference E11831
- Federal Specification WW-C-566C, (now superseded by U.L. 1)
- NEC 250.118(6), 300.22(C), 348, 430.123, 501.4(B)(2), 645.5
- Cable Tray installations per NEC
- Environmental Air-Handling space installation
- U.L. Classified 1, 2 and 3-hour through-penetration Fire Wall

Weights, Measurements and Packaging

Product Code	Trade Size (inches)	Trade Size (mm)	Coil Length (feet)	Reel Length (feet)	Internal Diameter (min/max) inches	External Diameter (min/max) inches	Approx. Weight 100 feet (pounds)	Bend Radius (inches)
5501-22-00 ⁺	3/8	12	25'	—	0.375/0.393	0.560/0.610	18	2
5501-24-00 ⁺	3/8	12	50'	—	0.375/0.393	0.560/0.610	18	2
5501-30-00 ⁺	3/8	12	100'	—	0.375/0.393	0.560/0.610	18	2
5501-42-00 ⁺	3/8	12	250'	—	0.375/0.393	0.560/0.610	18	2
5501-45-00 ⁺	3/8	12	—	500'	0.375/0.393	0.560/0.610	18	2
5501-60-00 ⁺	3/8	12	—	1000'	0.375/0.393	0.560/0.610	18	2
5502-22-00	1/2	16	25'	—	0.625/0.645	0.860/0.920	28	3
5502-24-00	1/2	16	50'	—	0.625/0.645	0.860/0.920	28	3
5502-30-00	1/2	16	100'	—	0.625/0.645	0.860/0.920	28	3
5502-45-00	1/2	16	—	500'	0.625/0.645	0.860/0.920	28	3
5502-60-00	1/2	16	—	1000'	0.625/0.645	0.860/0.920	28	3
5503-22-00	3/4	21	25'	—	0.812/0.835	1.045/1.105	33	4
5503-24-00	3/4	21	50'	—	0.812/0.835	1.045/1.105	33	4
5503-30-00	3/4	21	100'	—	0.812/0.835	1.045/1.105	33	4
5503-45-00	3/4	21	—	500'	0.812/0.835	1.045/1.105	33	4
5503-60-00	3/4	21	—	1000'	0.812/0.835	1.045/1.105	33	4
5504-24-00	1	27	50'	—	1.000/1.040	1.300/1.380	52	5
5504-80-00	1	27	—	300'	1.000/1.040	1.300/1.380	52	5
5505-24-00	1¼	35	50'	—	1.250/1.300	1.550/1.630	65	6¼
5505-40-00	1¼	35	—	200'	1.250/1.300	1.550/1.630	65	6¼
5506-22-00	1½	41	25'	—	1.500/1.575	1.850/1.950	80	7½
5507-22-00	2	53	25'	—	2.000/2.080	2.350/2.450	100	10
5508-22-00	2½	63	25'	—	2.500/—	2.860/3.060	150	12½
5509-22-00	3	78	25'	—	3.000/—	3.360/3.560	190	15
5510-22-00	3½	91	25'	—	3.500/—	3.860/4.060	220	17½
5511-22-00	4	103	25'	—	4.000/—	4.360/4.560	270	20

NOTE: All dimensions and weights are subject to normal manufacturing tolerances

⁺CSA Certified

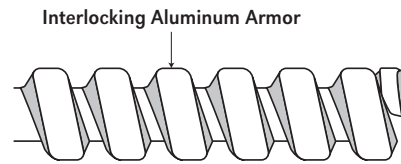
Reduced Wall Aluminum Flexible Conduit Technical Specifications

Specification Description

Product Code	Description	Construction	Listing
56XX	Reduced Wall Flexible Conduit	Aluminum	U.L., CSA*

*3/8 size only

SEE NEC 250.118(6) FOR GROUNDING REQUIREMENTS



References & Ratings

- U.L. 1, U.L. 1479, File Reference E11831
- Federal Specification WW-C-566C, (now superseded by U.L. 1)
- NEC 250.118(6), 300.22(C), 348, 430.123, 501.4(B)(2), 645.5
- Cable Tray installations per NEC
- Environmental Air-Handling space installation
- U.L. Classified 1, 2 and 3-hour through-penetration Fire Wall

Weights, Measurements and Packaging

Product Code	Trade Size (inches)	Trade Size (mm)	Coil Length (feet)	Reel Length (feet)	Internal Diameter (min/max) inches	External Diameter (min/max) inches	Approx. Weight 100 feet (pounds)	Bend Radius (inches)
5601-22-00 ⁺	3/8	12	25'	—	0.375/0.393	0.560/0.610	7	2
5601-24-00 ⁺	3/8	12	50'	—	0.375/0.393	0.560/0.610	7	2
5601-30-00 ⁺	3/8	12	100'	—	0.375/0.393	0.560/0.610	7	2
5601-42-00 ⁺	3/8	12	250'	—	0.375/0.393	0.560/0.610	7	2
5601-45-00	3/8	12	—	500'	0.375/0.393	0.560/0.610	7	2
5601-60-00	3/8	12	—	1000'	0.375/0.393	0.560/0.610	7	2
5602-22-00	1/2	16	25'	—	0.625/0.645	0.860/0.920	12	3
5602-24-00	1/2	16	50'	—	0.625/0.645	0.860/0.920	12	3
5602-30-00	1/2	16	100'	—	0.625/0.645	0.860/0.920	12	3
5602-45-00	1/2	16	—	500'	0.625/0.645	0.860/0.920	12	3
5602-60-00	1/2	16	—	1000'	0.625/0.645	0.860/0.920	12	3
5603-22-00	3/4	21	25'	—	0.812/0.835	1.045/1.105	15	4
5603-24-00	3/4	21	50'	—	0.812/0.835	1.045/1.105	15	4
5603-30-00	3/4	21	100'	—	0.812/0.835	1.045/1.105	15	4
5603-45-00	3/4	21	—	500'	0.812/0.835	1.045/1.105	15	4
5603-60-00	3/4	21	—	1000'	0.812/0.835	1.045/1.105	15	4
5604-24-00	1	27	50'	—	1.000/1.040	1.300/1.380	28	5
5604-80-00	1	27	—	300'	1.000/1.040	1.300/1.380	28	5
5605-24-00	1¼	35	50'	—	1.250/1.300	1.550/1.630	35	6¼
5605-40-00	1¼	35	—	200'	1.250/1.300	1.550/1.630	35	6¼
5606-22-00	1½	41	25'	—	1.500/1.575	1.850/1.950	40	7½
5607-22-00	2	53	25'	—	2.000/2.080	2.350/2.450	75	10
5608-22-00	2½	63	25'	—	2.500/—	2.860/3.060	90	12½
5609-22-00	3	78	25'	—	3.000/—	3.360/3.560	110	15
5610-22-00	3½	91	25'	—	3.500/—	3.860/4.060	125	17½
5611-22-00	4	103	25'	—	4.000/—	4.360/4.560	140	20

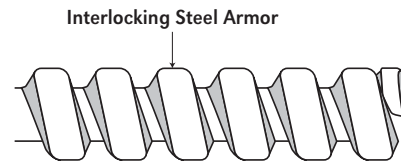
NOTE: All dimensions and weights are subject to normal manufacturing tolerances

⁺CSA Certified

Extra Flexible Conduit Technical Specifications

Specification Description

Product Code	Description	Construction	Listing
52XX	Extra Flexible Conduit	Steel	Non-U.L.



Weights, Measurements and Packaging

Product Code	Trade Size (inches)	Trade Size (mm)	Coil Length (feet)	Reel Length (feet)	Internal Diameter (min/max) inches	External Diameter (min/max) inches	Approx. Weight 100 feet (pounds)	Bend Radius (inches)
5201-30-00	3/8	12	100'	—	0.375/0.393	0.560/0.610	8	2
5201-42-00	3/8	12	250'	—	0.375/0.393	0.560/0.610	8	2
5201-45-00	3/8	12	—	500'	0.375/0.393	0.560/0.610	8	2
5201-60-00	3/8	12	—	1000'	0.375/0.393	0.560/0.610	8	2
5203-30-00	1/2	16	100'	—	0.625/0.645	0.860/0.920	15	3
5203-45-00	1/2	16	—	500'	0.625/0.645	0.860/0.920	15	3
5203-60-00	1/2	16	—	1000'	0.625/0.645	0.860/0.920	15	3
5204-30-00	3/4	21	100'	—	0.812/0.835	1.045/1.105	18	4
5204-45-00	3/4	21	—	500'	0.812/0.835	1.045/1.105	18	4
5204-60-00	3/4	21	—	1000'	0.812/0.835	1.045/1.105	18	4
5205-24-00	1	27	50'	—	1.000/1.040	1.300/1.380	28	5
5205-80-00	1	27	—	300'	1.000/1.040	1.300/1.380	28	5
5206-24-00	1¼	35	50'	—	1.250/1.300	1.550/1.630	52	6¼
5206-40-00	1¼	35	—	200'	1.250/1.300	1.550/1.630	52	6¼
5207-22-00	1½	41	25'	—	1.500/1.575	1.850/1.950	69	7½
5208-22-00	2	53	25'	—	2.000/2.080	2.350/2.450	86	10
5209-22-00	2½	63	25'	—	2.500/—	2.860/3.060	98	12½
5210-22-00	3	78	25'	—	3.000/—	3.360/3.560	139	15
5211-22-00	3½	91	25'	—	3.500/—	3.860/4.060	156	17½
5212-22-00	4	103	25'	—	4.000/—	4.360/4.560	187	20

NOTE: All dimensions and weights are subject to normal manufacturing tolerances

Amer-Tite® Liquidtight Flexible Metal Conduit (TYPE GP) Technical Specifications

Specification Description

Type/ Product Code	Description	Temperature Range	Listing
GP-U.L./62XX	General Purpose	-20°C to +60°C	U.L.



Applications

Designed for a variety of general purpose installations where flexibility and protection from moisture are necessary. Sunlight resistant jacket can be used indoors or out. U.L. listed as **OIL RESISTANT** to +60°C.

References & Ratings

- U.L. 360, File Reference E26540, CSA Certified File LL51593
- NEC 250.118(7), 350, 390.15, 501.4(B)(2), 502.4(A)(1)(e), 503.3(A)(2), 511.7(A)(1), 645.5(D)(2), 680.21, 680.42, 695.6(E), 695.14(E)
- Canadian Electrical Code (CEC) Part I Clause 12-1300
- U.L. approved for use in direct burial applications including concrete and earth burial (Sizes 3/8" through 4")
- U.L. copper bonding strip 3/8" - 1 1/4"
- U.L. listed conduit in sizes 1 1/2" and larger requires grounding conductor per NEC 250.118(7)
- May be installed under raised computer room floors per NEC 645.5(D)

Weights, Measurements and Packaging

Product Code	Trade Size (inches)	Trade Size (mm)	Coil Length (feet)	Reel Length (feet)	Internal Diameter (min/max) inches	External Diameter (inches)		Approx. Weight/100 feet (pounds)	Bend Radius (inches)
						Over Conduit (min/max)	Over Jacket (min/max)		
6201-30-00	3/8	12	100'	—	0.484/0.504	0.594/0.614	0.690/0.710	30	2
6201-45-00	3/8	12	—	500'	0.484/0.504	0.594/0.614	0.690/0.710	30	2
6201-60-00	3/8	12	—	1000'	0.484/0.504	0.594/0.614	0.690/0.710	30	2
6201-65-00	3/8	12	—	2500'	0.484/0.504	0.594/0.614	0.690/0.710	30	2
6202-30-00	1/2	16	100'	—	0.622/0.642	0.732/0.765	0.820/0.840	35	3.25
6202-45-00	1/2	16	—	500'	0.622/0.642	0.732/0.765	0.820/0.840	35	3.25
6202-60-00	1/2	16	—	1000'	0.622/0.642	0.732/0.765	0.820/0.840	35	3.25
6202-68-00	1/2	16	—	3500'	0.622/0.642	0.732/0.765	0.820/0.840	35	3.25
6203-30-00	3/4	21	100'	—	0.820/0.840	0.930/0.960	1.030/1.050	45	4.25
6203-45-00	3/4	21	—	500'	0.820/0.840	0.930/0.960	1.030/1.050	45	4.25
6203-60-00	3/4	21	—	1000'	0.820/0.840	0.930/0.960	1.030/1.050	45	4.25
6203-66-00	3/4	21	—	2000'	0.820/0.840	0.930/0.960	1.030/1.050	45	4.25
6204-30-00	1	27	100'	—	1.041/1.066	1.201/1.226	1.290/1.315	80	6.5
6204-80-00	1	27	—	300'	1.041/1.066	1.201/1.226	1.290/1.315	80	6.5
6204-64-00	1	27	—	1250'	1.041/1.066	1.201/1.226	1.290/1.315	80	6.5
6205-24-00	1 1/4	35	50'	—	1.380/1.410	1.540/1.570	1.630/1.660	110	8
6205-40-00	1 1/4	35	—	200'	1.380/1.410	1.540/1.570	1.630/1.660	110	8
6205-47-00	1 1/4	35	—	750'	1.380/1.410	1.540/1.570	1.630/1.660	110	8
6206-24-00	1 1/2	41	50'	—	1.575/1.600	1.735/1.770	1.865/1.900	135	9
6206-35-00	1 1/2	41	—	150'	1.575/1.600	1.735/1.770	1.865/1.900	135	9
6206-62-00	1 1/2	41	—	600'	1.575/1.600	1.735/1.770	1.865/1.900	135	9
6207-24-00	2	53	50'	—	2.020/2.045	2.180/2.215	2.340/2.375	170	11.12
6207-30-00	2	53	—	100'	2.020/2.045	2.180/2.215	2.340/2.375	170	11.12
6207-80-00	2	53	—	300'	2.020/2.045	2.180/2.215	2.340/2.375	170	11.12
6208-22-00	2 1/2	63	25'	—	2.480/2.505	2.640/2.675	2.840/2.875	220	14.62
6208-30-00	2 1/2	63	—	100'	2.480/2.505	2.640/2.675	2.840/2.875	220	14.62
6209-22-00	3	78	25'	—	3.070/3.100	3.295/3.335	3.460/3.500	280	17.5
6209-30-00	3	78	—	100'	3.070/3.100	3.295/3.335	3.460/3.500	280	17.5
6220-22-00	3 1/2	91	25'	—	3.500/3.540	3.720/3.789	3.960/4.000	350	20
6220-30-00	3 1/2	91	—	100'	3.500/3.540	3.720/3.789	3.960/4.000	350	20
6210-22-00	4	103	25'	—	4.000/4.040	4.220/4.280	4.460/4.500	425	24
6210-30-00	4	103	—	100'	4.000/4.040	4.220/4.280	4.460/4.500	425	24

Also available in Black, call for details.

NOTE: All dimensions and weights are subject to normal manufacturing tolerances.

Amer-Tite® Liquidtight Flexible Metal Conduit (Type BLUE) Technical Specifications

Specification Description

Type/ Product Code	Description	Temperature Range	Listing
BLUE/64XX	Computer Rooms	-20°C to +60°C	U.L.



Applications

Designed for a variety of general purpose installations where flexibility and protection from moisture are necessary.

References & Ratings

- U.L. 360, U.L. 1479, File Reference E26540
- CSA LL51593
- NEC 250.118(7), 350, 390.15, 501.4(B)(2), 502.4(A)(1)(e), 503.3(A)(2), 511.7(A)(1), 645.5(D)(2), 680.21, 680.42, 695.6(E), 695.14(E)
- Canadian Electrical Code (CEC) Part I Clause 12-1300
- May be installed under raised computer room floors per NEC 645.5(D)
- U.L. copper bonding strip 3/8" - 1/4"
- U.L. approved for use in direct burial applications including concrete and earth burial (Sizes 3/8" through 4")
- U.L. listed conduit in sizes 1 1/2" and larger requires grounding conductor per NEC 250.118(7)

Weights, Measurements and Packaging

Product Code	Trade Size (inches)	Trade Size (mm)	Coil Length (feet)	Reel Length (feet)	Internal Diameter (min/max) inches	External Diameter (inches)		Approx. Weight/ 100 feet (pounds)	Bend Radius (inches)
						Over Conduit (min/max)	Over Jacket (min/max)		
6411-30-00	1/2	16	100'	—	0.622/0.642	0.732/0.765	0.820/0.840	35	3.25
6411-45-00	1/2	16	—	500'	0.622/0.642	0.732/0.765	0.820/0.840	35	3.25
6411-60-00	1/2	16	—	1000'	0.622/0.642	0.732/0.765	0.820/0.840	35	3.25
6411-68-00	1/2	16	—	3500'	0.622/0.642	0.732/0.765	0.820/0.840	35	3.25
6412-30-00	3/4	21	100'	—	0.820/0.840	0.930/0.960	1.030/1.050	45	4.25
6412-45-00	3/4	21	—	500'	0.820/0.840	0.930/0.960	1.030/1.050	45	4.25
6412-60-00	3/4	21	—	1000'	0.820/0.840	0.930/0.960	1.030/1.050	45	4.25
6413-30-00	1	27	100'	—	1.041/1.066	1.201/1.226	1.290/1.315	80	6.5
6414-24-00	1 1/4	35	50'	—	1.380/1.410	1.540/1.570	1.630/1.660	110	8
6414-40-00	1 1/4	35	200'	—	1.380/1.410	1.540/1.570	1.630/1.660	110	8

NOTE: All dimensions and weights are subject to normal manufacturing tolerances.

Amer-Tite® Liquidtight Flexible Metal Conduit (TYPE GP-VF) Technical Specifications

Specification Description

Type/ Product Code	Description	Temperature Range	Listing
GP-VF/61XX	General Purpose	-20°C to +60°C	Non-U.L.



Applications

Designed for a variety of general purpose installations where flexibility and protection from moisture are necessary.

Conduit requires installation of a grounding conductor in all sizes.

Weights, Measurements and Packaging

Product Code	Trade Size (inches)	Trade Size (mm)	Coil Length (feet)	Reel Length (feet)	Internal Diameter (min/max) inches	External Diameter (inches)		Approx. Weight/ 100 feet (pounds)	Bend Radius (inches)
						Over Conduit (min/max)	Over Jacket (min/max)		
6101-30-00	3/8	12	100'	—	0.484/0.504	0.594/0.614	0.690/0.710	23	2
6101-45-00	3/8	12	—	500'	0.484/0.504	0.594/0.614	0.690/0.710	23	2
6101-60-00	3/8	12	—	1000'	0.484/0.504	0.594/0.614	0.690/0.710	23	2
6101-65-00	3/8	12	—	2500'	0.484/0.504	0.594/0.614	0.690/0.710	23	2
6102-30-00	1/2	16	100'	—	0.622/0.642	0.732/0.765	0.820/0.840	27	3.25
6102-45-00	1/2	16	—	500'	0.622/0.642	0.732/0.765	0.820/0.840	27	3.25
6102-60-00	1/2	16	—	1000'	0.622/0.642	0.732/0.765	0.820/0.840	27	3.25
6102-68-00	1/2	16	—	3500'	0.622/0.642	0.732/0.765	0.820/0.840	27	3.25
6103-30-00	3/4	21	100'	—	0.820/0.840	0.930/0.960	1.030/1.050	32	4.25
6103-45-00	3/4	21	—	500'	0.820/0.840	0.930/0.960	1.030/1.050	32	4.25
6103-60-00	3/4	21	—	1000'	0.820/0.840	0.930/0.960	1.030/1.050	32	4.25
6103-66-00	3/4	21	—	2000'	0.820/0.840	0.930/0.960	1.030/1.050	32	4.25
6104-30-00	1	27	100'	—	1.041/1.066	1.201/1.226	1.290/1.315	45	6.5
6104-80-00	1	27	—	300'	1.041/1.066	1.201/1.226	1.290/1.315	45	6.5
6104-64-00	1	27	—	1250'	1.041/1.066	1.201/1.226	1.290/1.315	45	6.5
6105-24-00	1¼	35	50'	—	1.380/1.410	1.540/1.570	1.630/1.660	70	8
6105-40-00	1¼	35	—	200'	1.380/1.410	1.540/1.570	1.630/1.660	70	8
6105-47-00	1¼	35	—	750'	1.380/1.410	1.540/1.570	1.630/1.660	70	8
6106-24-00	1½	41	50'	—	1.575/1.600	1.735/1.770	1.865/1.900	112	9
6106-35-00	1½	41	—	150'	1.575/1.600	1.735/1.770	1.865/1.900	112	9
6106-62-00	1½	41	—	600'	1.575/1.600	1.735/1.770	1.865/1.900	112	9
6107-24-00	2	53	50'	—	2.020/2.045	2.180/2.215	2.340/2.375	160	11.12
6107-30-00	2	53	—	100'	2.020/2.045	2.180/2.215	2.340/2.375	160	11.12
6107-80-00	2	53	—	300'	2.020/2.045	2.180/2.215	2.340/2.375	160	11.12
6108-22-00	2½	63	25'	—	2.480/2.505	2.640/2.675	2.840/2.875	194	14.62
6108-30-00	2½	63	—	100'	2.480/2.505	2.640/2.675	2.840/2.875	194	14.62
6109-22-00	3	78	25'	—	3.070/3.100	3.295/3.335	3.460/3.500	260	17.5
6109-30-00	3	78	—	100'	3.070/3.100	3.295/3.335	3.460/3.500	260	17.5
6120-22-00	3½	91	25'	—	3.500/3.540	3.720/3.789	3.960/4.000	350	20
6120-30-00	3½	91	—	100'	3.500/3.540	3.720/3.789	3.960/4.000	350	20
6110-22-00	4	103	25'	—	4.000/4.040	4.220/4.280	4.460/4.500	400	24
6110-30-00	4	103	—	100'	4.000/4.040	4.220/4.280	4.460/4.500	400	24

NOTE: All dimensions and weights are subject to normal manufacturing tolerances.

Amer-Tite® Liquidtight Flexible Non-Metallic Conduit (Type LFNC) Technical Specifications

Specification Description

Type/ Product Code	Description	Temperature Range	Listing
LFNC/ 60XX	Non-Metallic	-20°C to +80°C	U.L., CSA



Applications

Designed for a variety of general purpose installations where flexibility and protection from moisture are necessary. Non-metallic conduit is sunlight resistant, lightweight and non-conductive. For use indoors or out. U.L. listed for concrete encasement and direct burial.

References & Ratings

- U.L. 1660 E123464
- CSA C22.2 No. 227.2 File 69271
- NEC 356, 390.15, 501.4(B)(2), 502.4(A)(1)(e), 503.3(A)(2), 511.7(A)(1), 620.21, 645.5(D)(2), 680.21, 680.23, 680.25, 680.27, 680.42, 695.6(E), 695.14(E)
- Canadian Electrical Code (CEC) Part I Clause 12-1300
- U.L. approved for use in direct burial applications

Weights, Measurements and Packaging

Product Code	Trade Size (inches)	Trade Size (mm)	Minimum Wall Thickness	Coil Length (feet)	Reel Length (feet)	Inside Diameter inch min/max	Outside Diameter inch min/max	Weight/100 feet (pounds)	Bend Radius (inches)
6001-30-00	3/8	12	0.095	100'	—	0.484/0.504	0.690/0.710	13	2
6001-60-00	3/8	12	0.095	—	1000'	0.484/0.504	0.690/0.710	13	2
6002-30-00	1/2	16	0.090	100'	—	0.622/0.642	0.820/0.840	14.5	3.25
6002-60-00	1/2	16	0.090	—	1000'	0.622/0.642	0.820/0.840	14.5	3.25
6003-30-00	3/4	21	0.095	100'	—	0.820/0.840	1.030/1.050	16.5	4.25
6003-46-00	3/4	21	0.095	—	700'	0.820/0.840	1.030/1.050	16.5	4.25
6004-30-00	1	27	0.100	100'	—	1.041/1.066	1.290/1.315	26	6.5
6004-45-00	1	27	0.100	—	500'	1.041/1.066	1.290/1.315	26	6.5
6005-24-00	1¼	35	0.105	50'	—	1.380/1.410	1.630/1.660	34	8
6006-24-00	1½	41	0.125	50'	—	1.575/1.600	1.865/1.900	45	9
6007-24-00	2	53	0.125	50'	—	2.020/2.045	2.340/2.375	62	11.1

NOTE: All dimensions and weights are subject to normal manufacturing tolerances

Flexible Conduit Connector Cross-Reference Guide

Flexible Conduits Full Wall, Reduced Wall, and Type EF Steel/Aluminum Flexible Conduits

Trade Size	Internal Dia. inch (min/max)	External Dia. inch (min/max)	AFC	Arlington	Bridgeport	Electroline/Steel City	OZ – Gedney	Neer	Regal	T&B
5/16	0.312/0.327	0.470/0.510	–	–	–	–	–	–	–	252
3/8	0.375/0.393	0.560/0.610	AFC-50,52**	L42	403-DC2	L42/XC-269	C-5	SC-38	730	–
1/2	0.625/0.645	0.860/0.920	AFC-75**, 5075†	L421	407-DC2	L42-1/XC-270	C-8	SC-50	731	302
3/4	0.812/0.835	1.045/1.105	–	L422	408-DC2	L42-2/XC-272	24-34	SC-75	732	304
1	1.000/1.040	1.300/1.380	–	L423	410-DC2	L42-3/XC-273	24-100	SC-100	733	306
1¼	1.250/1.300	1.550/1.630	–	L424	412-DC2	L42-4/XC-274	24-125	SC-125	734	308
1½	1.500/1.575	1.850/1.950	–	L425	414-DC2	L42-5/XC-275	24-150	SC-150	735	310
2	2.000/2.080	2.350/2.450	–	L426	416-DC2	L42-6/XC-276	24-200	SC-200	736	312
2½	2.5	2.860/3.060	–	L427	417-DC2	L42-7/XC-277	24-250	SC-250	737	314
3	3	3.360/3.560	–	L428	418-DC2	L42-8/XC-278	24-300	SC-300	738	316
3½	3.5	3.860/4.060	–	L429	419-DC2	L42-9/XC-278A	KC-350	SC-350	739	–
4	4	4.360/4.560	–	L4210	420-DC2	L42-10/XC-2710	KC-400	SC-400	740	–

Flexible Conduits Amer-Tite® Liquidtight Flexible Metal Conduits

Trade Size	Internal Dia. inch (min/max)	External Dia.		AFC	Arlington	Bridgeport	Madison	OZ – Gedney	Neer	Regal	T&B
		Over Conduit inch (min/max)	Over Jacket inch (min/max)								
3/8	0.484/0.504	0.594/0.614	0.690/0.710	LS38	LT38	429-LT2	MSTR-38	4Q-38	LMM-01	5800	5231
1/2	0.622/0.642	0.732/0.765	0.820/0.840	LS50	LT50	430-LT2	MSTR-50	4Q-50	LMM-11	5801	5232
3/4	0.820/0.840	0.930/0.960	1.030/1.050	LS75	LT75	431-LT2	MSTR-75	4Q-75	LMM-21	5802	5233
1	1.041/1.066	1.201/1.226	1.290/1.315	LS100	LT100	432-LT2	MSTR-100	4Q-100	LMM-31	5803	5234
1¼	1.380/1.410	1.540/1.570	1.630/1.660	LS125	LT125	433-LT2	MSTR-125	4Q-125	LMM-41	5804	5235
1½	1.575/1.600	1.735/1.770	1.865/1.900	LS150	LT150	434-LT2	MSTR-150	4Q-150	LMM-51	5805	5236
2	2.020/2.045	2.180/2.215	2.340/2.375	LS200	LT200	435-LT2	MSTR-200	4Q-200	LMM-61	5806	5237
2½	2.480/2.505	2.640/2.675	2.840/2.875	LS250	LT250	436-LT2	MSTR-250-B	4Q-250	LMM-71	–	5238
3	3.070/3.100	3.295/3.335	3.460/3.500	LS300	LT300	437-LT2	MSTR-300-B	4Q-300	LMM-81	–	5239
3½	3.500/3.540	3.720/3.789	3.960/4.000	LS350	LT350	438-LT2	MSTR-350-B	4Q-350	LMM-85	–	LT-209*
4	4.000/4.040	4.220/4.280	4.460/4.500	LS400	LT400	439-LT2	MSTR-400-B	4Q-400	LMM-91	–	5240

Flexible Conduits Amer-Tite® Liquidtight Flexible Non-Metallic Conduits

Trade Size	Internal Dia. inch (min/max)	External Dia. inch (min/max)	AFC	Arlington	Bridgeport	Madison	OZ – Gedney	Neer	Regal	T&B
3/8	0.484/0.504	0.690/0.710	0901-22-00	NMLT38	429-NMLT	NMLQ-1038	4Q-38P	LMM-01	–	LT38P
1/2	0.622/0.642	0.820/0.840	0902-22-00	NMLT50	430-NMLT	NMLQ-1050	4Q-50P	LMM-11	–	LT50P
3/4	0.820/0.840	1.030/1.050	0903-10-00	NMLT75	431-NMLT	NMLQ-1075	4Q-75P	LMM-21	–	LT75P
1	1.041/1.066	1.290/1.315	0904-05-00	NMLT100	432-NMLT	NMLQ-1100	4Q-100P	LMM-31	–	LT100P
1¼	1.380/1.410	1.630/1.660	0905-05-00	NMLT125	433-NMLT	NMLQ-1125	4Q-125P	LMM-41	–	LT125P
1½	1.575/1.600	1.865/1.900	0906-02-00	NMLT150	434-NMLT	NMLQ-1150	4Q-150P	LMM-51	–	LT150P
2	2.020/2.045	2.340/2.375	0907-02-00	NMLT200	435-NMLT	NMLQ-1200	4Q-200P	LMM-61	–	LT200P

* Denotes manufactured by Steel City

** For RW Flexible Metal Conduit

† For RW Flexible Metal Conduit in steel only

The connector cross-reference guide is provided as a service to our customers.

The information contained herein is based on manufacturer published literature.

Consult appropriate manufacturer for more information.

Installation Instructions for AC & MC Cables

Armored cable (Type AC) and Metal Clad cable (Type MC) provide a fast and efficient way of wiring both new construction and remodeling work. Their flexible metal armor provides mechanical protection of the electrical conductors while enabling them to bend around corners. The cables are pre-wired at the factory eliminating the need to pull conductors into a raceway, which in turn greatly reduces the possibility of conductor damage during pulling.

The National Electrical Code has accepted AC and MC cables for decades, with statistics showing that they have an excellent fire safety record.

Because AC & MC cable can be fished for long distances, it is quick and easy to install. It's own weight can carry it between partitions and it can be run without concern for its contact with pipes or other obstructions.

Wire pullers, fish ropes or tapes, dispensers and lubricants are eliminated. AC & MC cable does the job in less space, with fewer bending restrictions and less cutting and connecting than most other wiring products.

Armored cable (Type AC) and Metal Clad cable (Type MC) have a flexible metal armor of similar outward appearance, but that is where the similarity ends. There are major differences in construction and uses permitted.

Armored (Type AC) Cable Construction

As described by the National Electrical Code NEC® 2002 Article 320, armored cable Type AC is a "fabricated assembly of insulated conductors in a flexible metallic enclosure."

Type AC cable is manufactured to UL Standard 4. It consists of 2 to 4 copper conductors in sizes 14 AWG to 1 AWG inside an interlocked metal armor of steel or aluminum construction. Type AC cable can have no more than four insulated conductors plus a grounding conductor (for a total of 5 conductors only) and cannot be manufactured larger than 1 AWG per UL 4.

A 16 AWG aluminum bonding wire is inside of, and in physical contact with, the metal armor providing a low-impedance fault-return path required for the operation of overcurrent protection devices. The bonding wire is unique to AC cable and allows the outer metal armor in conjunction with the bonding wire to be used as an equipment ground.

It is important to remember that the bare bond wire is not an equipment grounding conductor. It is the bond wire that, in combination with the interlocked metal armor, provides a low impedance equipment grounding path.

Each of the copper conductors is covered with a thermoplastic insulation (THHN with a 90°C rating) and are individually wrapped in a moisture resistant, fire retardant paper.

According to NEC Article 320.40, an insulated (anti-short) bushing is required when installing Type AC cable. It is installed at the time of termination and designed to protect the conductors from damage. AFC provides bushings in bags packaged with the cable.

Metal Clad (Type MC) Cable Construction

As described by NEC Article 330, Metal Clad Type MC cable is a "factory assembly of one or more insulated circuit conductors with or without optical fiber members enclosed in an armor of interlocking metal tape or a smooth or corrugated metallic sheath."

Type MC cable is manufactured to UL Standard 1569. MC cables may have 1 or more solid or stranded conductors in sizes 18 AWG and larger. The number of conductors allowed in an MC cable is not restricted by UL. The conductors may be of copper, aluminum or copper-clad aluminum.

The metal armor may be a smooth tube, a corrugated tube, or an interlocked metal armor. AFC Cable Systems manufactures MC cable with interlocked metal armor and copper conductors.

The make-up of AFC's 600 Volt interlocked armor MC cable consists of:

- Copper circuit and grounding conductors covered with thermoplastic insulation
- An overall polypropylene cable assembly tape
- An outer galvanized steel or aluminum interlocked armor

Unlike Type AC cable, the armor of interlocked Type MC cable is not an equipment grounding means and Type MC cable requires a bare or green grounding conductor.

Let's review the major differences between AC and MC cables.

	TYPE AC CABLE	TYPE MC CABLE
NUMBER OF CONDUCTORS	Limited to a maximum of 4 conductors plus a grounding conductor.	Not limited to the number of conductors.
SIZE OF CONDUCTORS	14 AWG to 1 AWG	18 AWG or larger
GROUNDING	Contains a 16 AWG bond wire in constant contact with the metal armor allowing the armor and bond wire combination to be used as an equipment ground.	Does not contain a bonding wire and the armor is not an equipment ground, but supplements the internal grounding conductor equaling one grounding path.
CONDUCTOR WRAPPING	Individual conductors are wrapped in a moisture resistant, fire retardant paper.	Individual conductors are not wrapped in paper but do have an overall polypropylene assembly tape.

Along with these differences in construction, there are also differences in the uses permitted for these cables as discussed previously.

AFC's HCF-90® and HCF-Lite® Health Care Facilities Cable

This additional ground allows HCF to be used in patient care areas of health care facilities (other than hazardous locations) including hospitals, nursing homes, dental offices, outpatient facilities and medical centers per NEC 517.13.

The separate green grounding conductor satisfies the requirement of Article 517 that:

“In an area used for patient care, the grounding terminals of all receptacles and all noncurrent-carrying conductive surfaces of fixed electric equipment likely to become energized that are subject to personal contact, operating at over 100 Volts, shall be grounded by an insulated copper conductor.”

The armor and bonding strip combination satisfies the requirement that:

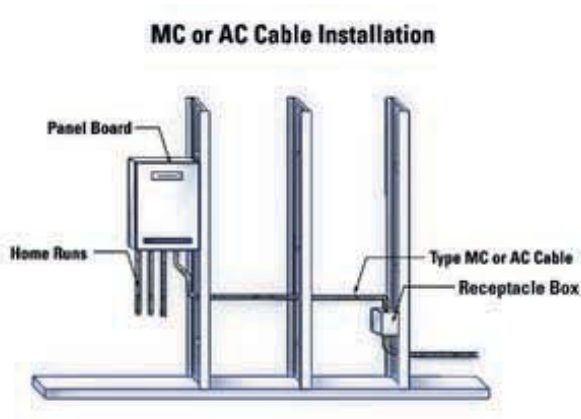
“...all branch circuits serving patient care areas shall be provided with a ground path for fault current by installation in a metal raceway system or cable assembly. The metal raceway system, or cable armor or sheath assembly, shall itself qualify as an equipment grounding return path in accordance with Section 250.118.”

(NOTE: HCF cables may not be used on emergency circuits in a health care setting, NEC 517.30)

Installing AC & MC Cable

Type AC & MC cable is installed after the rough-in phase of locating and setting all boxes and enclosures. Rough-in occurs when all the interior and exterior walls are framed but before the sheet rock is installed.

The first step in the rough-in phase is to determine the number of home run circuits and from where the wiring will originate. Once this is done, time should be taken to determine the best and shortest routes for each cable run. Long runs of spider web type routing not only require more cable but increase voltage drop. This is very important to consider when locating boxes for receptacles, lights and switches. If long runs are required, oversizing the circuit conductors is recommended to limit voltage drop.



AC & MC cable is available on reels and in coils. If using a reel, simply draw the cable from the end of the reel. If using a coil, draw the cable from the center of the coil to prevent kinking.



A coil of MC cable

Bridging Cable Across Open Spaces

In general, AC and MC cable must hug the surface it is wired over. The NEC prohibits bridging across open spaces with the following five exceptions:

- 1) When the cable is fished.
- 2) When flexibility is required a box may be installed near a motor or appliance using a short piece of free AC cable up to 24 inches long, between the box and motor or appliance.
- 3) Lengths of not more than 6 feet from the last point of support for connections within an accessible ceiling to lighting fixtures or equipment.
- 4) Where installed in cable trays.
- 5a) For **Type AC** cable in other than vertical runs through holes or notches in framing members where distance between members does not exceed 4½ feet and is securely fastened in place by an approved means within 12 inches of each box, cabinet, conduit body or other cable termination.
- 5b) For **Type MC** cable in other than vertical runs through holes or notches in framing members where the distance between members does not exceed 6 feet. Cables containing four or fewer conductors sized no larger than AWG 10 must be secured within 12 inches of each box, cabinet, fitting or other cable termination.

Bending Radius

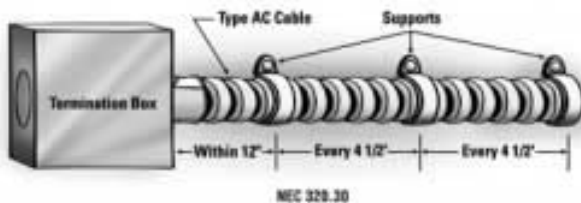
Care should be taken not to exceed the bending radius of the cables when routing around corners. According to NEC Article 320.24, for AC cable, the radius of the curve of the inner edge of any bend shall not be less than 5 times the diameter of the cable. NEC Article 330.24(B) states that for MC Cable, the radius shall not be less than 7 times the external diameter of the cable.



Supporting AC & MC Cables

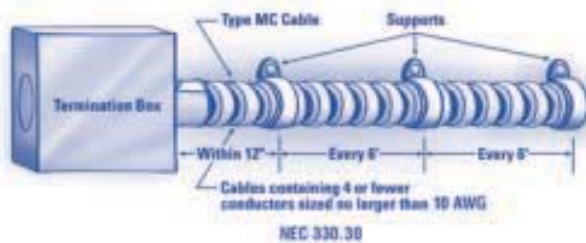
All cable runs must be continuous from outlet to outlet. According to NEC Article 320.30, AC cable must be supported and secured at intervals of 4½ feet or less (unless routed through a framing member) and within 12 inches of every termination.

Supporting Type AC Cable



According to NEC Article 330.30, MC cable must be supported and secured at intervals of 6 feet or less (unless routed through a framing member) and cables containing four or fewer conductors sized no larger than 10 AWG must be secured within 12 inches of every termination.

Supporting Type MC Cable



As noted, AC and MC cable support requirements are waived when the cable is fished. This is a major advantage of AC and MC cable in remodeling work over other wiring products that cannot be fished.

AC and MC cable may also be installed in cable tray, per NEC Article 392. Cable is only required to be secured in this installation for vertical runs.

Terminating AC & MC Cables

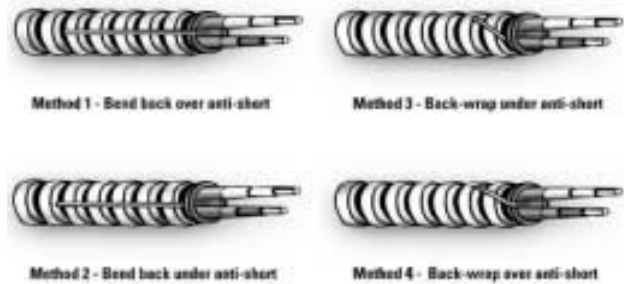
When terminating or splicing at a junction, outlet or switch box, cut the cable so that 6 inches of free conductor is left for connections or splices. Use an approved connector and insure a proper bond by firmly tightening the connectors to both the box and the cable. Please note: set screw connectors cannot be used with aluminum armor Type AC cable.



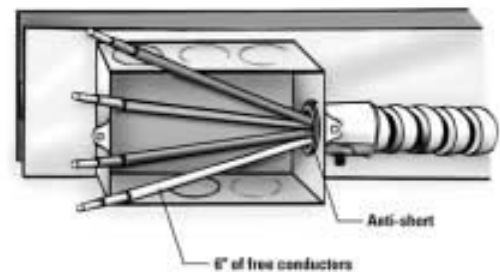
To terminate an AC cable, insert an anti-short bushing and bend back the exposed length of bonding wire. The bonding wire can be bent back before or after the bushing is inserted. There are several techniques used for this procedure as pictured on this page.

Insert the cable into the connector and secure the connector into the box. Be sure that the anti-short bushing is plainly visible in the connector for easy inspection. The same procedure is followed for MC cable with the exception that there is no bonding wire. Although anti-short bushings are only required by the NEC for AC cable, most manufacturers recommend their use with MC cable.

Preparing AC Cable for Termination



Terminating AC & MC Cables



MC cable installed in a box with 6 inches of free conductors left for connections or splices.



SINCE 1926

AFC

CABLE SYSTEMS

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Subject:

Material Safety Data Sheets (MSDS)
AFC Cable Products











An official notice from OSHA confirms that the electrical products (cables, conduits, fittings, modular wiring, etc.) manufactured by AFC come under the classification of "Articles" under the Hazard Communication Standard. By definition, an article is defined as a product that does not "release or otherwise result in exposure to hazardous chemicals under normal conditions of use." Consequently, the electrical products manufactured by AFC do not require Material Safety Data Sheets.

The lubricants used in the manufacturing of conduits and cables are also covered by OSHA as non-hazardous and are primarily vegetable based materials.

Please contact us if you have any additional questions.

AFC's COLOR-CODED ARMORED CABLE SYSTEM

COLOR CODE CHART

ARMOR COLOR						
	Blue = MC TUFF		Red = Fire Alarm/Control Cable			
	Black = AC Cable		Orange = MOF Cable			
	Green = HCF Cable					
IDENTIFIER STRIPES						
# CONDUCTORS	MC TUFF	MC TUFF IG	AC	HCF		
<p>> Since all AFC cables have a ground and a neutral, no identification will be made for the neutral or 1st ground on the armor.</p> <p>> Since most 120V cables have a black phase conductor, it will not be color identified on the armor.</p>						
120V COLORS	2	✓		✓	✓	No additional ID stripes
	3	✓		✓	✓	
	4	✓		✓	✓	
	2		✓			 Green indicates 2nd ground
	3		✓			 Green indicates 2nd ground
	4		✓			 Green indicates 2nd ground
	480Y/277V COLORS	2	✓		✓	✓
		✓		✓	✓	
		✓		✓	✓	
		✓				
3		✓		✓	✓	} 3 conductor available in these colors
		✓		✓		
		✓		✓		
		✓				
4		✓		✓	✓	} 4 conductor available in these colors
		✓				
SPECIALTY COLORS	2	✓		✓		} 2 conductor available in these colors Green indicates 2nd ground
		✓		✓		
		✓				
	3	✓		✓		} 3 conductor available in these colors
		✓		✓		
		✓				

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*Electrical &
Metal Products*

For more information about the proper use and application
of MC & AC cables, visit AFC University on the Internet at

www.afcweb.com/afcu

Inspection and Acceptance Statement

Orders are accepted based upon inspection and acceptance at the factory. After the products have been tested in accordance with all relevant UL standards, approved and released for shipment, any claims are limited to those covered by our standard warranty.

The information provided in the applications and references & ratings sections of this catalog is not intended to provide all relevant information for the use and installation of our products. Please consult the NEC and any applicable local codes before installation. If you have any questions about the proper use of our products, please call AFC Technical Services at 1-800-757-6996.