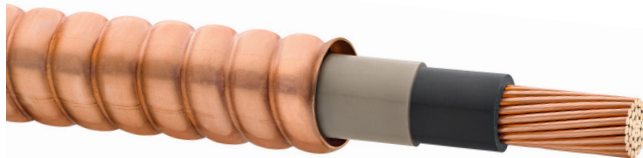




Lifeline® MC: Two-Hour Fire-Resistive Single Conductor Cables – UL 2196

Fire-Resistive Cable for Survivability in a Fire



Applications

Lifeline® MC fire-resistive single conductor cables were designed to meet and have successfully passed the two-hour fire rating certification test per UL 2196, *Standard for Tests for Fire-Resistive Cables*.

Lifeline® MC Single Conductor Cables can be used in the following applications to provide survivability during a fire:

- Tall Buildings
- Emergency Feeder Cables
- Stairwell Pressurization
- Elevators / OEO
- Emergency lighting for roadway and transit tunnels when cables include optional LSZH jacket over armor
- Fire Pumps
- Ventilating Fans
- Exit Lighting

Lifeline® MC Single Conductor Cables are preferred over Mineral Insulated (MI) cables, concrete encasement or the construction of fire rated assemblies based on the facts that Lifeline® MC Cables are less costly and easier to install for many applications.

Fire-resistive cables are required per NFPA 70/NEC, Articles 517, 695, 700, 708, 728 and 760 as well as NFPA 72 and NFPA 101.

Specifications and Ratings

- Listed to UL 1569, *Metal Clad Cables*, as the following type:
- Type MC 600 Volt, Rated 90°C
- For Wet Locations
- For Cable Tray Use IEEE 1202/ FT4 Rated, ST1 Limited Smoke
- Classified to UL 2196, *Standard for Tests for Fire-Resistive Cables*, for two-hours installations
- Electrical Circuit Integrity System (FHIT) No. 50 of the UL Fire Resistance Directory
- NFPA 70, NFPA 101 compliant
- Corrugated Copper Armor meets Equipment Grounding Conductor requirements of NEC Table 250.122

Design Parameters

CONDUCTOR: Bare stranded copper, 1/0 AWG through 750 kcmil

INSULATION: Ceramifiable Silicone Zero Halogen (LSZH)

INNER BINDER JACKET: Ceramifiable Silicone Zero Halogen (LSZH)

ARMOR: Continuously Welded and Corrugated Copper

IDENTIFICATION:

Lifeline® MC Unjacketed Cables are marked as follows:
 DRAKA MA P/N [#####] [Y] / [Z] LIFELINE (UL) E66840T
 MC-ST1 600V 90C WET LOCS FOR CT USE IEEE 1202/FT4 ST1
 (UL) R19359 FRR 2HR UL 2196 ELECTRIC CIRCUIT INTEGRITY
 SYSTEM FHIT#50 600V UTILIZATION (MONTH/YEAR)
 (SEQUENTIAL FOOTAGE)

Notes: [#] is cable part number

[Y] is the size of the cable in AWG or kcmil

[Z] is the size of the cable in mm²



**RoHS
 COMPLIANT**

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Lifeline® MC: Two-Hour Fire-Resistive Single Conductor Cables – UL 2196

Fire-Resistive Cable for Survivability in a Fire

Lifeline® MC Single Conductor Power Cable

LIFELINE® Part Number	Conductor Size AWG / MCM	Nominal Core Diameter (in)	Nominal Armor Diameter (in)	Ampacity* 75°C Amps	Ampacity* 90°C Amps
LMC011/0	1/0	0.65	0.91	206	235
LMC012/0	2/0	0.69	0.97	239	271
LMC013/0	3/0	0.74	1.08	276	315
LMC014/0	4/0	0.80	1.18	324	368
LMC01250	250	0.87	1.26	361	411
LMC01350	350	0.98	1.35	448	510
LMC01400	400	1.03	1.40	485	553
LMC01500	500	1.11	1.58	560	638
LMC01600	600	1.22	1.79	624	711
LMC01750	750	1.32	1.79	720	785

* Ampacities are based on Table 310.15(B)(20) of the National Electric Code (NEC) NFPA 70-2017 for not more than three single insulated conductors; corrected to 30°C ambient based on Table 310.15(B)(2)(b)

The above dimensions are approximate and subject to normal manufacturing tolerances. Information subject to change

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