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

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: [Y] is the size of the cable in AWG or kcmil
[Z] is the size of the cable in mm²
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

<table>
<thead>
<tr>
<th>LIFELINE® Part Number</th>
<th>Conductor Size AWG / MCM</th>
<th>Nominal Core Diameter (in)</th>
<th>Nominal Armor Diameter (in)</th>
<th>Ampacity* 75°C Amps</th>
<th>Ampacity* 90°C Amps</th>
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* 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.