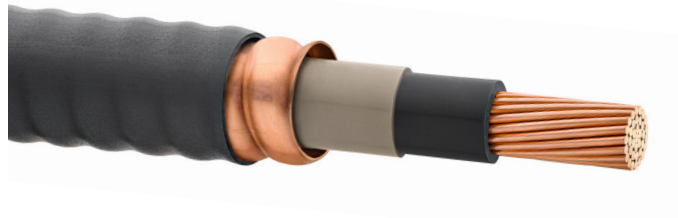


Lifeline® MC LSZH: One-Hour and Two-Hour Fire Resistive Single Conductor Cables – UL 2196



Fire Resistive Cable for Survivability in a Fire



APPLICATIONS

Lifeline® MC LSZH fire-resistive single conductor cables were designed to meet and have successfully passed one-hour and two-hour fire rating certification tests per UL 2196, *Standard for Tests for Fire-Resistive Cables* and are classified in Electrical Circuit Integrity Systems (FHIT) No. 50 and No. 50A.

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

- Emergency Feeder Cables
- Ventilating Fans
- Exit Lighting
- Emergency lighting and ventilation for roadway and transit tunnels

Lifeline® MC LSZH Cables are preferred over Mineral Insulated (MI) cables, concrete encasement or the construction of fire rated assemblies based on the facts that Lifeline® MC LSZH Cables are less costly and easier to install for many life safety fire resistive applications in roadway and tunnel environments with a LSZH jacket to protect against corrosion.

Fire resistive cables are required per NFPA 70, Articles 517, 695, 700, 708, 728 and 760 as well as NFPA 72, NFPA 101, NFPA 130 and NFPA 502.



RoHS
COMPLIANT

SPECIFICATIONS & 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
- Sunlight Resistance
- Direct Burial
- Classified to UL 2196, Standard for Tests for Fire-Resistive Cables, with one-hour and two-hour Fire Resistive Rating (FRR)
- Electrical Circuit Integrity System (FHIT) No. 50 of the UL Fire Resistance Directory with 2-hour FRR at 480 volts utilization covers cable constructions in table below and optional taped splice.
- Electrical Circuit Integrity System (FHIT) No. 50A of the UL Fire Resistance Directory with 1-hour FRR at 480 volts utilization, covers cable constructions in the table below and optional ceramic stand-off splice for conductor sizes up to 350MCM.
- NFPA 70, NFPA 72, NFPA 101, NFPA 130, NFPA 502 compliant
- Corrugated Copper Armor meets Equipment Grounding Conductor requirements of NEC Table 250.122

DESIGN PARAMETERS

CONDUCTORS: 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

JACKET: Thermoplastic Flame Resistant LSZH Jacket

IDENTIFICATION:

ORIGIN USA PRYSMIAN MA P/N [#####] [X]AWG [Y] mm²
LIFELINE® (UL) MC 600V 90C WET LOCS FOR CT USE IEEE 1202/FT4
ST1 SUN RES DIR BUR (UL) 2196 FRR 2HR FHIT 50¹ 480V UTILIZATION
FRR 1HR or FHIT 50A² 480V UTILIZATION (MONTH/YEAR) ((mm)/[yr])
(SEQUENTIAL FOOTAGE)

Notes: [#] is cable part number

[X] is cable size in AWG or kcmil

[Y] is cable size in mm²

¹ FRR 2HR FHIT#50 includes taped splice for cables with conductor sizes 1/0AWG to 750MCM

² FRR 1HR FHIT#50A applies ceramic stand-off splice for cables with 1/0AWG to 350MCM conductors

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Fire Resistive Cable for Survivability in a Fire

LIFELINE® Part Number	Conductor Size AWG /MCM	Number of Conductors	Nominal Core Diameter (in)	Nominal Armor Diameter (in)	Nominal Jacket Diameter (in)	Ampacity* 75°C Amps	Ampacity* 90°C Amps
LMCJ011/0	1/0AWG	1	0.65	0.90	1.00	230	260
LMCJ012/0	2/0AWG	1	0.69	0.96	1.06	265	300
LMCJ013/0	3/0AWG	1	0.74	1.08	1.18	310	350
LMCJ014/0	4/0AWG	1	0.80	1.20	1.30	360	405
LMCJ01250	250MCM	1	0.87	1.27	1.37	405	455
LMCJ01300	300MCM	1	0.93	1.27	1.37	445	500
LMCJ01350	350MCM	1	0.98	1.35	1.45	505	570
LMCJ01400	400MCM	1	1.03	1.40	1.50	545	615
LMCJ01500	500MCM	1	1.11	1.57	1.69	620	700
LMCJ01600	600MCM	1	1.22	1.77	1.89	690	780
LMCJ01750	750MCM	1	1.32	1.77	1.89	785	885

* Ampacities are based on Table 310.17 of the National Electric Code (NEC) NFPA 70-2023 for single insulated conductors in free air at 30°C

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