



Lifeline® MC LSZH: Two-Hour Fire Resistive Cables

Fire Resistive Cable for Survivability in a Fire



Applications

Lifeline® MC LSZH fire resistive 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 LSZH 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 economical options for several 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 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
 - Sunlight Resistance
 - Direct Burial
 - 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, NFPA 130, NFPA 502 compliant
 - Corrugated Copper Armor meets Equipment Grounding Conductor requirements of NEC Table 250.122

Design Parameters

CONDUCTORS: Bare stranded copper, 14 AWG through 600 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:

Lifeline® MC Jacketed Cables are marked as follows: DRAKA MA P/N [#####] [X]/C [Y] LIFELINE (UL) E66840T MC 600V 90C WET LOCS FOR CT USE IEEE 1202/FT4 ST1 SUN RES DIR BUR (UL) R19359 FRR 2HR UL 2196 ELECTRIC CIRCUIT INTEGRITY SYSTEM FHIT#50 480V UTILIZATION (MONTH/YEAR) (SEQUENTIAL FOOTAGE)

Notes: [#] is cable part number

[X] is the number of conductors

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



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Lifeline® MC LSZH: Two-Hour Fire Resistive Cables

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Lifeline® MC LSZH Power Cable

LIFELINE® Part Number	Conductor Size AWC /MCM	Number of Cond	Nominal Core Diameter (in)	Nominal Armor Diameter (in)	Nominal Jacket Diameter (in)	Ampacity* 90°C Amps
LMCJ05014	14	5	0.66	0.97	1.07	25**
LMCJ02012	12	2	0.56	0.85	0.95	30**
LMCJ03012	12	3	0.59	0.91	1.01	30**
LMCJ04012	12	4	0.64	0.97	1.07	30**
LMCJ05012	12	5	0.70	0.97	1.07	30**
LMCJ02010	10	2	0.61	0.85	0.95	40**
LMCJ03010	10	3	0.64	0.97	1.07	40**
LMCJ04010	10	4	0.70	0.97	1.07	40**
LMCJ05010	10	5	0.77	1.08	1.18	40**
LMCJ02008	8	2	0.70	0.97	1.07	55
LMCJ03008	8	3	0.75	1.08	1.18	55
LMCJ04008	8	4	0.82	1.18	1.28	55
LMCJ05008	8	5	0.90	1.26	1.36	55
LMCJ02006	6	2	0.78	1.08	1.18	75
LMCJ03006	6	3	0.83	1.18	1.28	75
LMCJ04006	6	4	0.91	1.26	1.36	75
LMCJ05006	6	5	1.00	1.35	1.45	75
LMCJ03004	4	3	0.95	1.35	1.45	95
LMCJ04004	4	4	1.04	1.35	1.45	95
LMCJ05004	4	5	1.15	1.58	1.70	95
LMCJ03003	3	3	1.00	1.35	1.45	115
LMCJ04003	3	4	1.11	1.40	1.50	115
LMCJ03002	2	3	1.07	1.40	1.50	130
LMCJ04002	2	4	1.18	1.58	1.70	130
LMCJ03001	1	3	1.24	1.73	1.85	145
LMCJ04001	1	4	1.37	1.73	1.85	145
LMCJ031/0	1/0	3	1.33	1.73	1.85	170
LMCJ041/0	1/0	4	1.47	1.85	1.97	170
LMCJ032/0	2/0	3	1.41	1.85	1.97	195
LMCJ042/0	2/0	4	1.56	1.97	2.09	195
LMCJ033/0	3/0	3	1.52	1.97	2.09	225
LMCJ043/0	3/0	4	1.69	2.15	2.27	225
LMCJ034/0	4/0	3	1.64	2.15	2.27	260
LMCJ044/0	4/0	4	1.82	2.28	2.43	260
LMCJ03250	250	3	1.81	2.28	2.43	290
LMCJ04250	250	4	2.00	2.52	2.67	290
LMCJ03350	350	3	2.04	2.52	2.67	350
LMCJ04350	350	4	2.26	2.72	2.87	350
LMCJ03400	400	3	2.13	2.72	2.87	380
LMCJ04400	400	4	2.37	2.83	2.98	380
LMCJ03500	500	3	2.31	2.83	2.98	430
LMCJ04500	500	4	2.57	3.11	3.28	430
LMCJ03600	600	3	2.54	3.11	3.28	475
LMCJ04600	600	4	2.83	3.41	3.58	475

*Ampacities are based on Table 310.15(B)(16) of the National Electrical Code (NEC) (NFPA 70-2017) for 3 current carrying conductors at 30°C ambient.

**Small overcurrent protection limitations per NEC Article 240.4(D): (3) 14AWG – 15amps, (5) 12AWG – 20amps, (7) 10AWG – 30amps

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

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