



Lifeline® RC90 LSZH: Two-Hour Fire-Resistive Single Conductor Cables – ULC-S139

Fire-Resistive Cable for Survivability in a Fire



Applications

Lifeline® RC90 LSZH fire-resistive single conductor cables were designed to meet and have successfully passed the two-hour fire rating certification test per ULC-S139, *Standard for Fire Test for Circuit Integrity of Fire-Resistive Power, Instrumentation, Control, and Data Cables*.

Lifeline® RC90 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® RC90 LSZH Single Conductor 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.



RoHS
COMPLIANT

Specifications and Ratings

- Listed to CSA 22.2 No. 123, *Canadian Standard for Metal Sheathed Cables*, as the following type:
 - Type RC90 600 Volt, Rated 90°C and -40°C
 - For Wet Locations
 - For Cable Tray Use IEEE 1202/ FT4 Rated, ST1 Limited Smoke
 - Sunlight Resistance
 - Direct Burial
- Classified to ULC-S139, *Standard for Fire Test for Circuit Integrity of Fire-Resistive Power, Instrumentation, Control, and Data Cables*, for two-hours installations
- Electrical Circuit Integrity System (FHIT7) 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 CEC Rule 10-618 and 10-804

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

JACKET: Thermoplastic Flame Resistant LSZH Jacket

IDENTIFICATION:

Lifeline® RC90 Jacketed Cables are marked as follows:
 DRAKA MA P/N [#####] [Y] / [Z] LIFELINE (UL) E66840T
 RC90 600V 90C WET LOCS FOR CT USE IEEE 1202/FT4 ST1 -40C
 SUN RES DIR BUR (UL) R19359 FRR 2HR ULC S139 ELECTRIC
 CIRCUIT INTEGRITY SYSTEM FHIT7 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

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Lifeline® RC90 LSZH Single Conductor Power Cable

LIFELINE® Part Number	Conductor Size AWG / MCM	Nominal Core Diameter (in)	Nominal Armor Diameter (in)	Nominal Jacket Diameter (in)	Ampacity* 75°C Amps	Ampacity* 90°C Amps
LMCJ011/0-C	1/0	0.65	0.91	1.01	230	260
LMCJ012/0-C	2/0	0.69	0.97	1.07	265	300
LMCJ013/0-C	3/0	0.74	1.08	1.18	310	350
LMCJ014/0-C	4/0	0.80	1.18	1.28	360	405
LMCJ01250-C	250	0.87	1.26	1.36	405	455
LMCJ01350-C	350	0.98	1.35	1.45	505	570
LMCJ01400-C	400	1.03	1.40	1.50	545	615
LMCJ01500-C	500	1.11	1.58	1.70	620	700
LMCJ01600-C	600	1.22	1.79	1.91	690	780
LMCJ01750-C	750	1.32	1.79	1.91	785	885

*Ampacities are based on Table 1 of the Canadian Electrical Code, Part I (C22.1-18) for single conductors based on an ambient temperature of 30°C

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

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