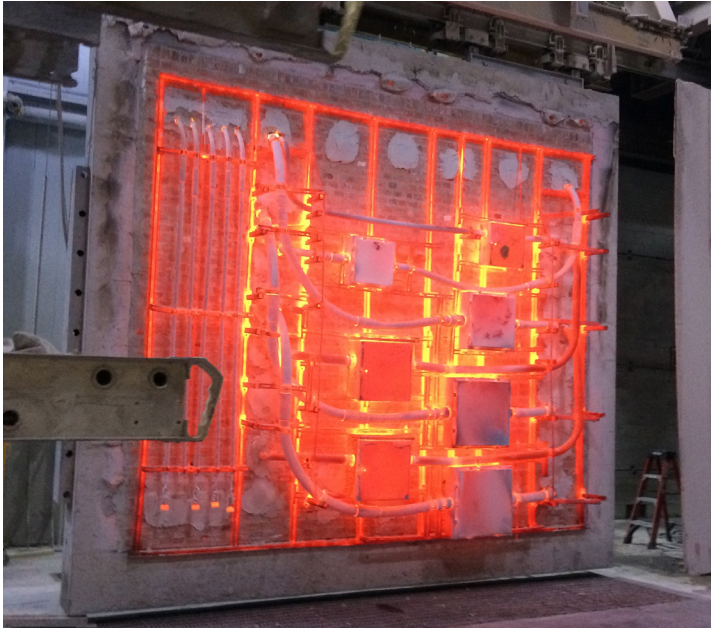


# Lifeline® RC90 Two-Hour Fire Resistive Cables



ULC-S139 Certified Fire Resistive Cable for Survivability in a Fire



Lifeline® fire-resistive cables have successfully passed the two hour fire rating certification test per ULC-S139 - Standard for Tests for Fire Resistive Cables.

The cables are two-hour fire rated for horizontal and vertical applications and represent the best and most cost effective solution over Mineral Insulated (MI) cables, concrete encasement, or the construction of fire rated assemblies for Fire Pumps, Emergency Feeders, Ventilating Fans, Exit Lighting, and Elevator cabling.

Fire resistive cables are required per National Building Code of Canada Articles 3.2.6 and 3.2.7.10, NFPA 130 and NFPA 502.

Prysmian offers a Metal Clad solution that is stocked at partner locations throughout Canada.

## Specifications & Ratings

### RC90

- Classified to ULC-S139, Standard for Tests for Fire-Resistive cables, for two-hours and one-hour in horizontal (H) and vertical (V) installations.
- Electrical Circuit Integrity System (FHIT7) No. 51 and 51A of the UL Fire Resistance Directory.
- Listed to CSA C22.2 No. 123 Metal Sheathed Cables, Type RC90 600 Volt, Rated 90°C
- IEEE 1202 / FT4 Rated
- ST1 Limited Smoke
- NFPA 130, NFPA 502, NBC Articles 3.2.6 and 3.2.7.10
- Corrugated Copper Armor meets Equipment Bonding Conductor requirements of CEC Rule 10-610

## Applications

- Healthcare Facilities
- High-Rise / Commercial / Public Buildings
- Educational Institutions / Dormitories
- Auditoriums / Stadiums / Museums
- Transit Tunnel
- Transit Stations
- Roadway Tunnels

**Tell Us About Your Project**  
Let us help you plan and execute your  
Fire Rated project.



**Scan to download documentation**

[na.prysmian.com/lifeline](http://na.prysmian.com/lifeline)  
[na.lifeline@prysmian.com](mailto:na.lifeline@prysmian.com)

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## Regulators & Regulations

### National Fire Protection Agency (NFPA)

The NFPA is the world's leading advocate of fire prevention and an authoritative source on public safety.

### National Building Code of Canada

The Code requires emergency and critical circuits to utilize fire resistive cables or structures to ensure continued operation for a specified time under fire conditions.

### Authority Having Jurisdiction (AHJ)

The AHJ is the person or office charged with enforcing the Life Safety Code. In many regions the AHJ are the provincial/territorial fire marshals who have local inspectors work on their behalf. For some occupancies, there is more than one AHJ.

If you're unsure who the AHJ is, contact your provincial/territorial Fire Marshal. Note that each AHJ's approval must be secured before proceeding.

## What the Code Says

**National Building Code of Canada** requires fire protection methods for life safety and emergency circuits in healthcare facilities, tall buildings, educational institutions, and more generally for buildings with high occupancy.

**Articles 3.2.6 and 3.2.7.10**, within , covers the installation of fire-resistive cables and other system components used for survivability of critical circuits. All fire-resistive cables and components are to be tested and listed as a complete system to ULC-S139 (Standard for Tests of Fire Resistive Cables).

**NFPA 130** (Fixed Guideway for Transit and Passenger Railway Systems) requires one-hour rating for life safety and emergency circuits in stations and tunnels. These circuits include Emergency Lighting, Emergency Communication and Emergency Power for Ventilation.

**NFPA 502** (Road Tunnels, Bridges, and Other Limited Access Highways) requires two-hour rating for life safety and emergency circuits in roadway tunnels, including ancillary areas.

## Frequently Asked Questions

### What is a fire-resistive cable system?

It is a system comprised of fire-resistive cables and components, including conduit, pull boxes, connectors and other critical components, that have been tested and listed as a complete system per ULC-S139. The individual components of each system are listed on FHIT7 documents and are brand specific and cannot be mixed and/or interchanged among other qualified systems.

### What is an FHIT document?

It is a document released by UL and it lists all the required components and necessary instructions to achieve the designated fire rating. Note that only systems that have passed the rigorous ULC-S139 testing will be listed as an Electrical Circuit Integrity System FHIT7 on UL's online directory. Lifeline's FHIT7 documents are FHIT7.51 and 51A for RC90 cables.

### Can I install other types of cables in the same system or circuit as Lifeline® cables?

No, adding cables and components outside of those specifically listed in the FHIT7 document is not allowed and would put the system at risk of losing its fire rating - this includes cables and components from other FHIT7 documents. The reason is to avoid any unpredictable effects that have not been tested together with the entire system.

### What are the benefits of Lifeline® over alternative methods?

Our cables are the preferred choice when it comes to circuit integrity because they are easy to install and require no special tools or training, which translate into less labor and more cost savings. Available in stock nationwide.



**Prysmian**

4 Tesseneer Drive, Highland Heights, KY 41076  
na.prysmian.com  
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