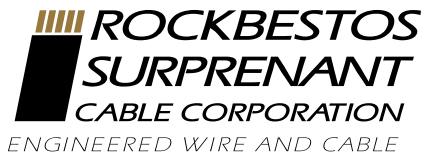


Introducing For The Canadian Fire Alarm Market



VITALink® CI
2-Hour Fire Rated
Fire Alarm Cable

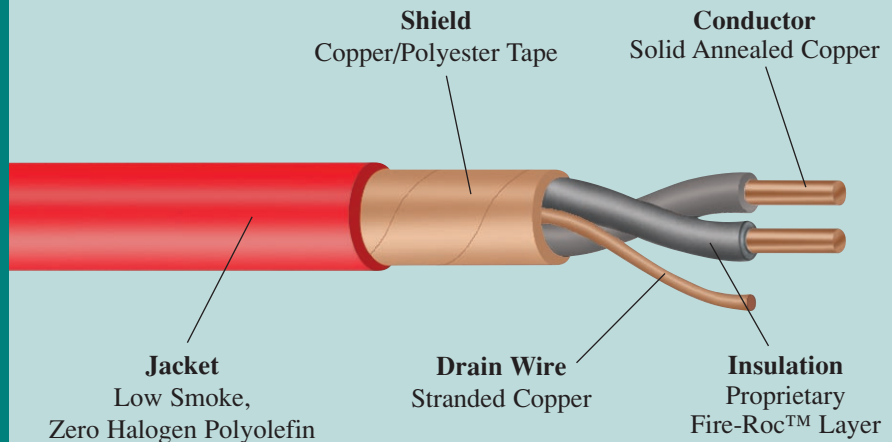


VITALink® CI Circuit Integrity Cable

CSA Type FAS 90, FT4
 File No: 014444 0 000
 Shielded Fire Alarm Cable

ULC-S139-00
 2 Hour Fire Resistant Cable
 File CR 2810

Spec. VL-104



Scope

VITALink® CI is a ULC listed fire resistant cable intended for use as fire alarm wiring when survivability is of the utmost concern. It has established a minimum 2-hour fire resistant rating by passing the applicable requirements of ULC-S139-00, "Standard Method of Fire Test for Evaluation of Integrity of Electrical Cables".

These cables when installed per the relevant sections of the National Building Code of Canada and the Canadian Electrical Code are permitted as a means of providing 2-hour survivability to your circuits. This "survivability" characteristic makes the cable ideal for any circuit where continued operation may enhance the ability to save lives or property.

VITALink® CI Shielded Circuit Integrity Cable

Product Code	Number Of Conductors	AWG Size	Insulation Thickness (Mils)	Jacket Thickness (Mils)	Cable Diameter (MM)	Approximate Weight (Lbs/KM)	Nominal Cable Lay (MM)
F21-2162	2	16	35	40	8.64	193	94
F21-1142*	2	14	35	40	9.14	246	102
F21-1122*	2	12	35	50	10.67	348	112

* UL Approved, ULC Pending

ISO 9001/QS 9000 REGISTERED



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Product Specification Sheet No. VL-104

(Rev. 2 Dated 12-1-00)

Scope

This specification covers shielded fire alarm signal cable designed for service at a maximum continuous operating temperature of 90C. Cables are rated 300 volt and are ULC listed as 2 hour fire resistant cable meeting the applicable requirements of ULC-S139-00 "Standard Method of Fire Test for Evaluation of Integrity of Electrical Cables". Cables are also CSA listed as Type FAS90 and FT4. Cable are intended to provide 2-hour circuit survivability when installed within steel conduit or suspended on steel supports spaced at 1525 mm or less. Installations shall be in accordance with the National Building Code of Canada and the Canadian Electrical Code.

General Construction

All cables have thermoset elastomeric insulated conductors, twisted together to form a pair wrapped with a copper/polyester tape shield and drain wire covered with a low smoke, zero halogen polyolefin jacket.

Conductors

Conductors are solid bare annealed copper per ASTM B-3. Conductor sizes range from 16 to 12 AWG.

Insulation

All conductors are insulated with a 35 mil layer of proprietary thermoset Fire-Roc elastomer.

Circuit Identification

Circuit identification is accomplished by means of printed color designations. (1-Black & 2-Red)

Shielded Assembly

Two insulated conductors are twisted together along with a flexible stranded bare copper drain wire. This assembly is helically wrapped with a laminated copper / polyester foil tape in continuous contact with the drain wire.

Jacket

The shielded cable core is covered with an extruded layer of red flame retardant, low smoke, zero halogen polyolefin.

Cable Identification

All cables have a printed outer jacket containing cable identification, pertinent ULC information and sequential footage markers.

ULC Listing

Cables are ULC listed as 2 Hour Fire Resistant Cable per ULC-S139-00

CSA Listing

Cables are listed as CSA Type FAS 90 and FT-4

Product Code	Number Of Conductors	AWG Size	Maximum Capacitance (pf/ft)		Nominal Capacitance (pf/ft)	
			C/S ¹	C/C ²	C/S ¹	C/C ²
F21-2162	2	16	61	33	55	30
F21-1142*	2	14	72	40	65	36
F21-1122*	2	12	87	47	79	43

1) C/S is the capacitance measured from one conductor to the shield with the other conductor connected to the shield at 1000 Hz and 20°C.

2) C/C is the capacitance measured from conductor to conductor at 1000 Hz and 20°C. This is also approximately equal to the mutual capacitance.

* UL Approved, ULC Pending

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