



Radix™

STAYING CONNECTED
TWO HOURS... AFFORDABLY.

CIRCUIT INTEGRITY IN CONDUIT



The Sign of Affordable Integrity

THE Radix™ X-IT CIC CABLE

- For evacuation in fire conditions when signal is required for a minimum of 2 hours
- 2 hour flame tested per UL 2196 for fire-resistive cables
- Installations per UL FHIT – Fire Resistive Directory System #28
- ½” EMT conduit or larger
- Type FPL – Power Limited Fire Alarm Cable – per UL 1424
- Type NPLF – Non-Power Limited Fire Alarm Cable – per UL 1425
- 18 AWG and larger constructions with multi conductors
- Shielded and unshielded constructions
- Meets 760 of the National Electric Code for Fire Alarm Circuit Integrity Cable
- National Fire Alarm Code – NFPA 72 for survivability
- Available in bulk reels with > 1500 ft. lengths

Copper Conductor

Ceramifiable
Silicone

Mica Tape

Copper Foil Shield

Low Smoke Zero
Halogen Jacket

Look to Radix X-IT fire alarm cable that comes to you from the company with over 60 years of high temperature wire history.

THE Radix X-IT CIC CABLE WORKS WITH...



THE Radix X-IT CIC CABLE

UL Standard 2196 Circuit Integrity Two-Hour Flame Test

Circuit Integrity in Conduit (CIC) and their installment requirements are imperative in ensuring safe egress. Radix CIC cables are installed per FHIT system #28 instructions. The Electrical Circuit Protective System of the UL Fire Resistance Directory defines all of the components used in the cabling system, as well as installation requirements. To be in accordance with the Electrical Circuit Protective System, the CIC cables have been tested and passed the 2 hour flame test.

Radix CIC cables feature a ceramifiable insulation and flame-retardant, low smoke and zero halogen polyolefin jackets to ensure their 2 hour compliance ratings.

Most CIC cables are offered in solid, stranded, shielded or unshielded in assorted AWG sizes listed in the product tables.

Radix X-IT CIC cable is designed in compliance to the following:

- Article 760 of the National Electrical Code for Fire Alarm
- NFPA 72 provides requirements for integrating fire alarm systems with other building systems for at least 2 hours.
- UL Standard 1424 – Cable for Power Limited Fire Alarm Circuits
- UL Standard 1425 – Cable for Non-Power Limited Fire Alarm Circuits

Part No.	Awg. Size	# Cond.	CABLE OD - inches	WIRE OD - mm	Wgt - lbs 1000 ft.	Wgt - kg per km	Maximum Conductor Resistance per M ft.	Maximum Conductor Resistance per m.	Nominal Capacitance (pF/ft) Conductor-Conductor	Nominal Capacitance (pF/m) Conductor-Conductor
SHIELDED										
CI18A0102-SD00	18-Solid	2	0.30	7.85	51.93	77.28	6.60	21.65	20.70	67.91
CI16A0102-SD00	16-Solid	2	0.32	8.20	61.25	91.15	4.10	13.45	24.20	79.40
CI14A0702-SD00	14-Stranded	2	0.38	9.65	79.91	118.92	2.70	8.85	30.90	101.38
UNSHIELDED										
CI18A0102-0000	18-Solid	2	0.30	7.75	46.03	68.50	6.60	21.65	16.00	52.49
CI16A0102-0000	16-Solid	2	0.31	8.10	54.89	81.68	4.10	13.45	17.80	58.40
CI14A0702-0000	14-Stranded	2	0.37	9.58	72.29	107.58	2.70	8.85	19.80	64.96

www.radix-wire.com

The Life Safety Code® of the National Fire Protection Association requires that Emergency Voice/Alarm Communication (EVAC) systems are in place where there is danger to life from fire, including smoke, fumes, or panic. In the event of a fire or other emergency, the purpose of the EVAC system is for egress of occupants out of the building or to a safe area by providing either live or recorded voice instructions. In order for all occupants to safely evacuate the building, the EVAC system must be fully operational for two hours, according to code. To meet fire alarm code and survivability requirements, the Circuit Integrity cables must connect to the Fire Command Center.



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