

### SPECIFICATIONS

UL2196 CERTIFIED / UL 1424 LISTED. FHIT SYSTEM No. 28A

CSA 208 / FT I

LOW SMOKE, ZERO HALOGEN

Unshielded - 16AWG - 14AWG; 2-conductor; Circuit integrity in Conduit (CIC)

NEC Type FPL; for use in protective electrical system (EMT)

California State Fire Marshals: LISTING No. 7162-2173:0100



**DuraLife FPL® - Fire Resistive Alarm Cables**

#### CERTIFICATION LISTINGS:

**16AWG** solid OFHC; 2-conductor vertical straight-through w/ couplings in EMT conduit; 72" max. support spacing

**16AWG** solid OFHC; 2-conductor horizontal straight-through w/ couplings in EMT conduit; 60" max. support spacing

**16AWG** solid OFHC; 2-conductor horizontal straight-through w/ pull box in 3/4" EMT conduit; 60" max. support spacing

**16AWG** solid OFHC; 2-conductor horizontal w/ mechanical splice in 3/4" EMT conduit; 60" max. support spacing

**14AWG** 7-strand OFHC; 2-conductor vertical straight-through w/couplings in EMT conduit; 72" max. support spacing

**14AWG** 7-strand OFHC; 2-conductor horizontal straight-through w/ couplings in EMT conduit; 60" max. support spacing

**14AWG** 7-strand OFHC; 2-conductor horizontal straight-through w/pull box in EMT conduit; 60" max. support spacing

**14AWG** 7-strand OFHC; 2-conductor horizontal w/ mechanical splice in 3/4" EMT conduit; 60" max. support spacing

**14AWG** solid OFHC; 2-conductor vertical straight-through w/ couplings in EMT conduit; 72" max. support spacing

**14AWG** solid OFHC; 2-conductor horizontal straight-through w/ couplings in EMT conduit; 60" max. support spacing

**14AWG** solid OFHC; 2-conductor horizontal straight-through w/ couplings in EMT conduit; 60" max. support spacing

**14AWG** solid OFHC; 2-conductor horizontal w/ mechanical splice in 3/4" EMT conduit; 60" max. support spacing

#### HARDWARE SYSTEM CERTIFIED:

EMT Conduit--- Wheatland \*, Tube FasTrak Plus

EMT Couplings--- Raco or Halex

Compression Fittings--- Cooper Crouse-Hinds

NEMA 1 Splice Enclosure/Pull Box--- Cooper B-Line (Pull box size up to 12x12x4)

Set-screw Fittings--- Hubbell

Copper Off-Set Fixed Lug Connector with 1/4-20 set-screw--- Penn-Union

Lubricant - Polywater J

#### COMPLIANCE:

\* Certified assemblies, no substitute of any kind can be made

UL 1424 Listed FPL for Power-Limited Fire Alarm Circuits; 300V/90°C classified

UL Certified to UL 2196 2-hour fire rating in FHIT System 28A.

Meets National Fire Protection Code (NFPA 70 & 72) fire alarm survivability circuit requirements

#### APPLICATION:

Fire alarm circuit integrity (NEC Article 760), and emergency systems (NEC Articles 700 and 517).

Suitable for 2-hr. certified fire-resistive applications in EMT conduit.\*

Fire certified for Power-Limited system use at 72V phase-to-phase utilization voltage.

Meets fire alarm survivability circuit requirements in the National Fire Protection Code (NFPA 72).



www.radix-wire.com

# DuraLife FPL®

## 2-Hour Rated FIRE RESISTIVE ALARM CI CABLES

### CONSTRUCTION:

Oxygen-free bare copper (OFBC) conductors, solid and stranded; proprietary ceramifiable silicone rubber insulation; color-code black and red insulation on leads,  
 Low smoke- zero halogen FRPE outer jacket. Black jacket color available at an additional charge.  
 Patent Pending.

### PACKAGING:

Available on 1,000 ft., 2,000 ft. and 5,000 ft. standard length reels, smaller reels available from distributors.

RADIX WIRE-II DURALIFE™ E241484 2C 16AWG FPL 90C / (UL) CLASSIFIED FIRE RESISTIVE CABLE FOR USE IN ELECTRICAL CIRCUIT INTEGRITY SYSTEMS- SYSTEM 28A/ SEE UL FIRE RESISTANCE DIRECTORY R21213 CSA LL13427 FA S90 300V FT1- (MONTH/YEAR)

RADIX P/N	#COND	AWG	NOMINAL INSUL THICKNESS (INCH)	NOMINAL JACKET THICKNESS (INCH)	NOMINAL O.D. (INCH)	MIN. -MAX. SPEC. RANGE	NET WEIGHT (LBS PER MFT)	COPPER LBS/MFT	NOMINAL CAPACITANCE (pF/FT)	CHARACTERISTIC IMPEDANCE @1MHz (OHMS)
CI16A0102	2	16 SOLID	.032"	.035"	0.292	0.272"-0.312"	55.41	15.6	15.3	110.9

RADIX WIRE-II DURALIFE™ E241484 2C 14AWG FPL 90C / (UL) CLASSIFIED FIRE RESISTIVE CABLE FOR USE IN ELECTRICAL CIRCUIT INTEGRITY SYSTEMS- SYSTEM 28A/SEE UL FIRE RESISTANCE DIRECTORY R21213 CSA LL13427 FA S90 300V FT1- (MONTH/YEAR)

RADIX P/N	#COND	AWG	NOMINAL INSUL THICKNESS (INCH)	NOMINAL INSUL THICKNESS (INCH)	NOMINAL O.D. (INCH)	MIN. -MAX. SPEC. RANGE	NET WEIGHT (LBS PER MFT)	COPPER LBS/MFT	NOMINAL CAPACITANCE	CHARACTERISTIC IMPEDANCE @1MHz (OHMS)
CI14A0702	2	14/7	.032"	.035"	0.332"	0.312"-0.352"	61.1	25.1	17.3	99.4
CI14A0102	2	14 SOLID	.032"	.035"	0.326"	0.322"-0.334"	59.01	25.62		

### Certifications & EMT Fill Listings

Certifications	16 AWG	14 AWG
Solid Conductor	✓	✓
7-Strand Conductor	-	✓
Single-Cable EMT Horizontal	3/4" - 2" Wheatland	3/4" - 2" Wheatland
Single-Cable EMT Vertical	1/2" to 2" Wheatland	1/2" to 2" Wheatland
Multi-Cable EMT Vertical	3/4" to 2" Wheatland	3/4" to 2" Wheatland
Fill Rates	16 AWG	14 AWG
1/2" EMT Vertical	1 Cable	1 Cable
3/4" EMT Horizontal	1 Cable	Up to 2 Cables
1" EMT Horizontal	Up to 2 Cables	Up to 2 Cables
3/4" - 1" EMT Vertical	Up to 4 Cables	Up to 3 Cables
1 1/4" EMT Vertical & Horizontal	Up to 4 Cables	Up to 3 Cables
1 1/2" EMT Vertical & Horizontal	Up to 6 Cables	Up to 4 Cables
2" EMT Vertical & Horizontal	Up to 10 Cables	Up to 8 Cables

Note - 16awg and 14awg cables may be installed within the same raceway when not exceeding the number of cables associated with the 14awg installation.

All dimensions listed above are nominal

Compliance: UL Listed File No. E241484. Fire Directory R21213

Information included in this catalog is intended as a guideline only. For applications that require tight tolerances, please contact the Radix factory for dimensional verification. Information herein is believed to be accurate as of publication date; however, if an error exists it is unintentional and Radix Wire is not responsible for any claim traceable to such error.



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