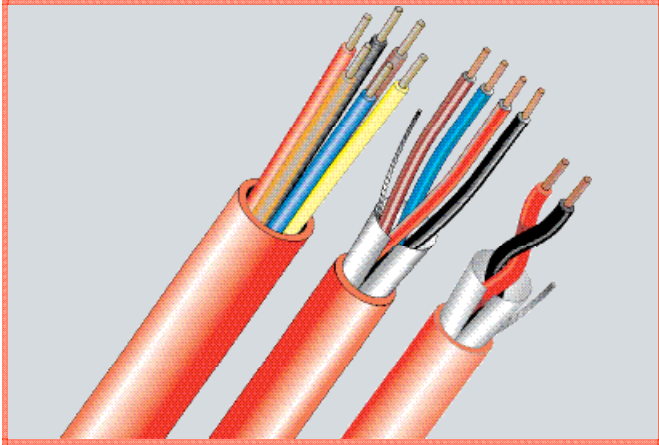


# Fire Alarm Cables

**WEST PENN WIRE**



**West Penn Wire** is one of the original and leading manufacturers of Fire Alarm cables in the world. Security and Alarm cables are a vital part of the building and construction industries. **West Penn Wire's** Security and Fire Alarm cables have been one of the most trusted names in the Security industry.

For more detailed information on our fire alarm cables, contact our Customer Service Department at **1-800-245-4964**, or e-mail us at: **sales@westpenn-wpw.com**. Information can also be found on our website: **www.westpenn-wpw.com**

## **CIRCUIT INTEGRITY FIRE ALARM CABLES**

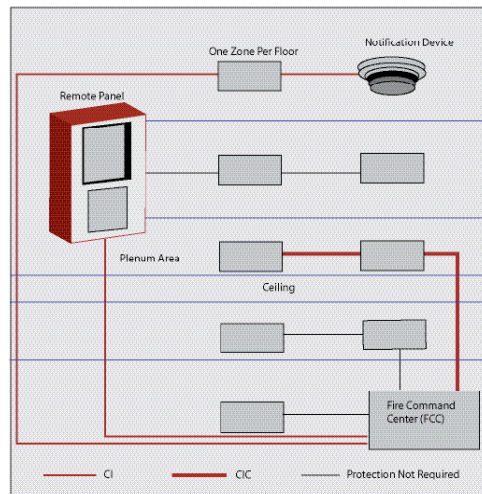
EVAC (Emergency Voice/Alarm Communication) systems are employed in large commercial buildings where in the event of a fire or other emergency messages will warn occupants of the emergency and, if necessary, guide the occupants out of the building in a timely and orderly way.

To do this, EVAC systems must remain operational longer than a total evacuation scenario or, as defined by code, for two hours.

### **CI vs. CIC Cables:**

CI cables have been tested to pass the 2 hour UL2196 Flame Test not in conduit. CI cables can not be deployed into conduit and pass the 2 hour flame test, therefore they are riser rated.

CIC cables have been tested to pass the 2 hour Flame Test in Conduit, therefore can be placed in a Plenum space. CIC cables cannot be deployed in a 2 hour application outside the conduit.



**Sales and Ordering: 800-245-4964**

# Fire Alarm Cables

## Circuit Integrity in Conduit/ Shielded (CIC) - Riser Rated



### Applications:

Indoor for:

- Circuit Integrity
- Fire Alarm Circuit Integrity
- Survivability
- Survivability from attack by fire

### Description:

- ASTM bare copper • Ceramifiable Silicon Rubber (CSR) Insulation • Twisted pair or cabled construction • Overall shield 100% coverage of aluminum polyester foil with TC drain wire • Overall FRPE Low-Smoke, Non-Halogen Jacket

### Rating:

- NEC Type FPLR
- (UL) Listed
- Meets 300V requirements as specified in the NEC - 105°C
- Flame Rating: UL1666, UL2196 - 2 Hour Flame Test ( in conduit only)

Standard spool size 1000ft.

Catalog No.	No. of Cond.	Conductor Type & Nom. D.C.R	Insulation Type & Thickness	Shielding & % Coverage	Jacket Type & Thickness	Nom. O.D.	NEC Type	Nom. Capacitance	Jacket Color
			Inches	% Coverage	Inches	Inches			
5200FZ	2	16 AWG 7x24 4.0 Ω/Mft	CSR .035	Al. Foil 100%	FRPE .056	.37	FPLR	22pf/ft*	Red
5220FZ	2	16 AWG Solid 4.0 Ω/Mft	CSR .035	Al. Foil 100%	FRPE .056	.36	FPLR	20pf/ft*	Red
5222FZ	4	16 AWG Solid 4.0 Ω/Mft	CSR .035	Al. Foil 100%	FRPE .056	.41	FPLR	16pf/ft*	Red
5100FZ	2	14 AWG 7x22 2.5 Ω/Mft	CSR .035	Al. Foil 100%	FRPE .056	.41	FPLR	26pf/ft*	Red
5120FZ	2	14 AWG Solid 2.5 Ω/Mft	CSR .035	Al. Foil 100%	FRPE .056	.38	FPLR	23pf/ft*	Red
5000FZ	2	12 AWG 7x20 1.6 Ω/Mft	CSR .035	Al. Foil 100%	FRPE .056	.44	FPLR	27pf/ft*	Red

\* Capacitance between conductors.

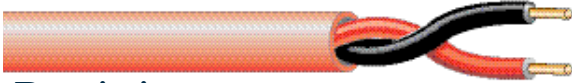
Color Code	
All Cables	Black, Red- 4 or more are Black and numbered
	<b>JACKET: Red</b>

### Special Notes:

- CSR- Ceramifiable Silicon Rubber
- FRPE- Flame Retardant Polyethylene

# Fire Alarm Cables

**WEST PENN WIRE**



## Circuit Integrity in Conduit/ Unshielded Riser Rated - (CIC)

### Description:

- ASTM bare copper • Ceramifiable Silicon Rubber (CSR) Insulation • Twisted pair or cabled construction
- Overall FRPE Low-Smoke, Non-Halogen Jacket

### Rating:

- NEC Type FPLR
- (UL) Listed
- Meets 300V requirements as specified in the NEC - 105°C
- Flame Rating: UL 1666, UL2196 - Two Hour Flame Test ( in conduit only)

### Applications:

#### Indoor for:

- Circuit Integrity
- Fire Alarm Circuit Integrity
- Survivability
- Survivability from attack by fire

Standard spool size 1000ft.

Catalog No.	No. of Cond.	Conductor Type & Nom. D.C.R	Insulation Type & Thickness Inches	Shielding	Jacket Type & Thickness Inches	Nom. O.D. Inches	NEC Type	Nom. Capacitance	Jacket Color
5200UZ	2	16 AWG 7x24 4.0 Ω/Mft	CSR .035	None	FRPE .056	.37	<b>FPLR</b>	16pf/ft*	Red
5220UZ	2	16 AWG Solid 4.0 Ω/Mft	CSR .035	None	FRPE .056	.35	<b>FPLR</b>	15pf/ft*	Red
5100UZ	2	14 AWG 7x22 2.5 Ω/Mft	CSR .035	None	FRPE .056	.40	<b>FPLR</b>	18pf/ft*	Red
5120UZ	2	14 AWG Solid 2.5 Ω/Mft	CSR .035	None	FRPE .056	.38	<b>FPLR</b>	17pf/ft*	Red

\* Capacitance between conductors.

### Special Notes:

- CSR- Ceramifiable Silicon Rubber
- FRPE- Flame Retardant Polyethylene

Color Code	
All Cables	Black, <b>Red</b>
	<b>JACKET: Red</b>

# Fire Alarm Cables

## Circuit Integrity/ Shielded (CI) - Riser Rated



### Applications:

Indoor for:

- Circuit Integrity
- Fire Alarm Circuit Integrity
- Survivability
- Survivability from attack by fire

### Description:

- ASTM bare copper • Ceramifiable Silicon Rubber (CSR) Insulation • Twisted pair or cabled construction
- Overall shield 100% coverage of aluminum polyester foil with TC drain wire • Overall FRPE Low-Smoke, Non Halogen Jacket

### Rating:

- NEC Type FPLR-CI
- (UL) Listed
- Meets 300V requirements as specified in the NEC - 105°C
- Flame Rating: UL1666, UL2196 - 2 Hour Flame Test

Standard spool size 1000ft.

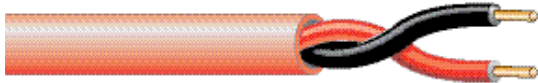
Catalog No.	No. of Cond.	Conductor Type & Nom. D.C.R	Insulation Type & Thickness	Shielding & % Coverage	Jacket Type & Thickness	Nom. O.D. Inches	NEC Type	Nom. Capacitance	Jacket Color
			Inches	% Coverage	Inches				
5320FM	2	18 AWG Solid 5.9 Ω/Mft	CSR .034	Al. Foil 100%	FRPE .045	.31	FPLR-CI	27pf/ft*	Red
5322FM	4	18 AWG Solid 5.9 Ω/Mft	CSR .034	Al. Foil 100%	FRPE .045	.36	FPLR-CI	27pf/ft*	Red
5300FM	2	18 AWG 7x26 5.9 Ω/Mft	CSR .034	Al. Foil 100%	FRPE .045	.32	FPLR-CI	27pf/ft*	Red
5302FM	4	18 AWG 7x26 5.9 Ω/Mft	CSR .034	Al. Foil 100%	FRPE .045	.37	FPLR-CI	27pf/ft*	Red
5220FM	2	16 AWG Solid 4.0 Ω/Mft	CSR .034	Al. Foil 100%	FRPE .045	.33	FPLR-CI	31pf/ft*	Red
5222FM	4	16 AWG Solid 4.0 Ω/Mft	CSR .034	Al. Foil 100%	FRPE .045	.38	FPLR-CI	31pf/ft*	Red
5200FM	2	16 AWG 7x24 4.0 Ω/Mft	CSR .034	Al. Foil 100%	FRPE .045	.35	FPLR-CI	31pf/ft*	Red
5120FM	2	14 AWG Solid 2.5 Ω/Mft	CSR .034	Al. Foil 100%	FRPE .045	.36	FPLR-CI	33pf/ft*	Red
5122FM	4	14 AWG Solid 2.5 Ω/Mft	CSR .034	Al. Foil 100%	FRPE .045	.41	FPLR-CI	33pf/ft*	Red
5100FM	2	14 AWG 7x22 2.5 Ω/Mft	CSR .034	Al. Foil 100%	FRPE .045	.38	FPLR-CI	33pf/ft*	Red
5020FM	2	12 AWG Solid 1.6 Ω/Mft	CSR .034	Al. Foil 100%	FRPE .045	.39	FPLR-CI	37pf/ft*	Red
5022FM	4	12 AWG Solid 1.6 Ω/Mft	CSR .034	Al. Foil 100%	FRPE .045	.46	FPLR-CI	37pf/ft*	Red

Notes: Color Code Pg. 60

\* Capacitance between conductors.

# Fire Alarm Cables

**WEST PENN WIRE**



## Circuit Integrity / Unshielded Riser Rated - (CI)

### Description:

- ASTM bare copper • Ceramifiable Silicon Rubber (CSR) Insulation • Twisted pair or cabled construction
- Overall FRPE Low-Smoke, Non-Halogen Jacket

### Rating:

- NEC Type FPLR-CI
- (UL) Listed
- Meets 300V requirements as specified in the NEC - 105°C
- Flame Rating: UL 1666, UL2196- Two Hour Flame Test

Standard spool size 1000ft.

### Applications:

Indoor for:

- Circuit Integrity
- Fire Alarm Circuit Integrity
- Survivability
- Survivability from attack by fire

Catalog No.	No. of Cond.	Conductor Type & Nom. D.C.R	Insulation Type & Thickness Inches	Shielding	Jacket Type & Thickness Inches	Nom. O.D. Inches	NEC Type	Nom. Capacitance	Jacket Color
5320UM	2	18 AWG Solid 5.9 Ω/Mft	CSR .034	None	FRPE .045	.31	FPLR-CI	17pf/ft*	Red
5322UM	4	18 AWG Solid 5.9 Ω/Mft	CSR .034	None	FRPE .045	.35	FPLR-CI	17pf/ft*	Red
5220UM	2	16 AWG Solid 4.0 Ω/Mft	CSR .034	None	FRPE .045	.33	FPLR-CI	19pf/ft*	Red
5222UM	4	16 AWG Solid 4.0 Ω/Mft	CSR .034	None	FRPE .045	.38	FPLR-CI	19pf/ft*	Red
5120UM	2	14 AWG Solid 2.5 Ω/Mft	CSR .034	None	FRPE .045	.36	FPLR-CI	21pf/ft*	Red
5122UM	4	14 AWG Solid 2.5 Ω/Mft	CSR .034	None	FRPE .045	.41	FPLR-CI	21pf/ft*	Red
5020UM	2	12 AWG Solid 1.6 Ω/Mft	CSR .034	None	FRPE .045	.39	FPLR-CI	23pf/ft*	Red
5022UM	4	12 AWG Solid 1.6 Ω/Mft	CSR .034	None	FRPE .045	.45	FPLR-CI	23pf/ft*	Red

\* Capacitance between conductors.

### Special Notes:

- CSR- Ceramifiable Silicon Rubber
- FRPE- Flame Retardant Polyethylene

Color Code	
All Cables	Black, Red- 4 or more are Black and numbered
	<b>JACKET: Red</b>