

Safe-T-Line Cables

3-hour Fire Rated Cables

Belden offers a full line of BS 6387 and LPCB approved Fire-resistive, 3-hour Rated New Generation Circuit Integrity (CI) cables.

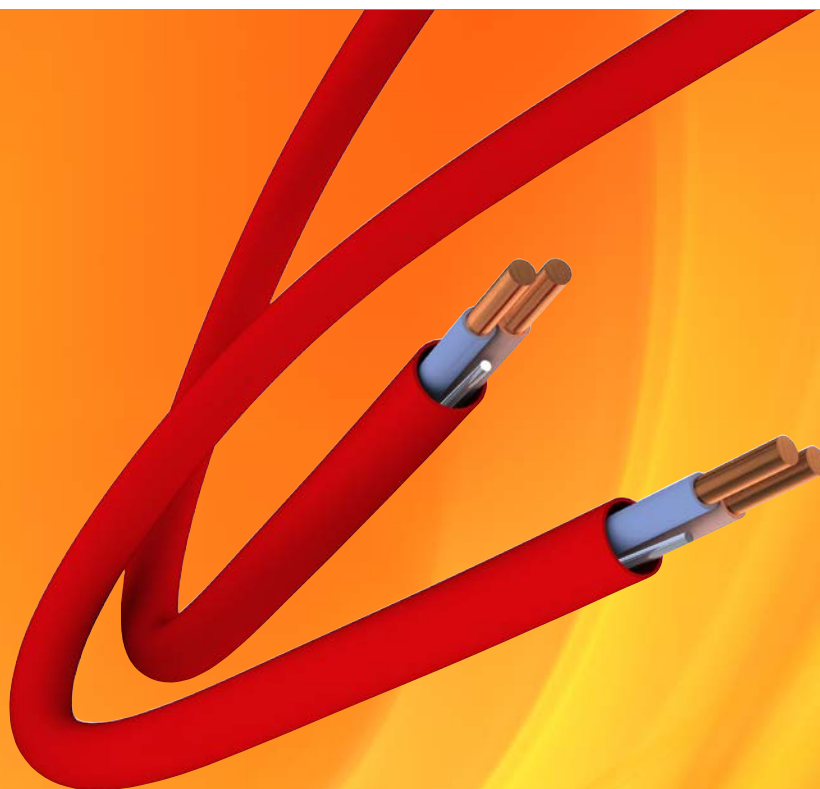
+ **The most economical choice** of only three options **to meet the 3-hour circuit integrity code** requirements from life-saving Emergency Voice-Alarm Communications (EVAC) systems (beside very expensive structural/architectural 3-hour chase and the use of mineral insulated cables)

+ **Easier to Terminate and Install:** Belden Fire-resistive Safe-T-Line cables are manufactured with a **user friendly**, aluminium-polyester Beldfoil shielding tape, instead of the copper tapes making Belden's CI cable the most easily terminated cable of its kind

+ **A large variety** of industrial 3-hour rated, shipboard 2-hour rated and LPCB approved CI cables to meet your individual needs

Key Features

- Safe-T-Line CI cables meet the most stringent circuit integrity requirements on the market: BS 6387 CWZ
 - C: resistance to fire at a temperature of 950 °C for 3 hours
 - W: resistance to fire with water-spray for 15 minutes at 650 °C
 - Z: resistance to fire with mechanical shock for 15 minutes at 950 °C
- LPCB approved
- Resistance to fire for unprotected small cables used in emergency circuits for 2 hours as per EN 50200
- Riser rated FPLR cables as per UL 1666
- Low smoke, halogen free cables with operating temperature of up to 105 °C, suitable for applications where temperature ranges are variable



Belden 3-hour Rated Safe-T-Line CI cables ensure continued operation of a building's EVAC systems in event of fire. ABS-approved CI cables are suitable for shipboard applications or handling controlled shutdown situations in industrial environments.

**Be certain.
Belden.**

LPCB Approved CI Cables


Belden Safe-T-Range covers easy-strip LPCB approved cables tailored for the European market.

The range comes in variants of 2, 3 and 4 conductors, for both 1.5 mm² to 2.5 mm² and is manufactured in Europe.

Safe-T-Line Cable

Circuit Integrity (CI) Fire Alarm

Flame Retardant, Low Smoke, Zero Halogen Jacket, LPCB Approved

Description	Part No.	No. of Cond.	Stranding	Standard Lengths		Standard Unit Weight		Insulation Thickness		Nominal OD		Nominal Capacitance		Nominal DC Resistance Ω/km.
				Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	pF/Ft.	pF/m	
Shielded Multi-conductor • Silicone Rubber (BS7655 E12) Insulation • Red or White Low Smoke Zero Halogen Jacket														
1.5 mm²														
BS 6387 CWZ EN 50200 PH120 IEC 60332-3-24 IEC 60332-3-25	79001FS	2	solid	1640	500	87	39.5	0.03	0.7	0.31	7.85	21	70	12
	79003FS	3	solid	1640	500	104	47	0.03	0.7	0.35	8.8	21	70	12
	79005FS	4	solid	1640	500	144	65.5	0.03	0.7	0.37	9.45	23	75	12
2.5 mm²														
	79002FS	2	solid	1640	500	133	60.5	0.03	0.8	0.36	9.2	24	80	7
	79004FS	3	solid	1640	500	192	87	0.03	0.8	0.38	9.7	24	80	7
	79006FS	4	solid	1640	500	223	101	0.03	0.8	0.46	11.7	26	85	7

Industrial 3-hour Rated CI Cables


Belden Type PLTC shielded multi-conductor cables are for industrial use, to be employed in controlled shutdown or emergency situations in circuitry that pertains to mission-critical industrial processes.

Belden Part Nos. 5240FRE and 5201FRE are for installation in risers or Power Limited Trays.

Safe-T-Line Cable

PLTC 3-hour Fire Rated/Industrial Control Shutdown Cable


Flame Retardant, Low Smoke, Zero Halogen Jacket, Riser-Rated

Description	Part No.	No. of Cond.	Stranding	Standard Lengths		Standard Unit Weight		Insulation Thickness		Nominal OD		Nominal Capacitance		Nominal DC Resistance Ω/Mft.
				Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	pF/Ft.	pF/m	
Shielded Multi-conductor • Thermoset Elastomer Insulation • Beldfoil Shield • Sunlight Resistant • Red Polyolefin Jacket														
16 AWG														
NEC: PLTC, FPLR BS 6387 CWZ EN 50200 PH120	5240FRE	2	7 x 24	500	152.4	55	25	0.034	0.86	0.35	8.4	31	102	4.0
				2500	762.0	185	84	0.034	0.86	0.35	8.9	31	102	4.0
	5201FRE	3	7 x 24	500	152.4	88	40	0.034	0.86	0.37	9.7	31	102	4.0
				2500	762.0	230	105	0.034	0.86	0.37	9.4	31	102	4.0

Safe-T-Line Cable

Circuit Integrity (CI) Fire Alarm





Flame Retardant, Low Smoke, Zero Halogen Jacket, Riser-Rated; FPLR

Description	Part No.	No. of Cond.	Stranding	Standard Lengths		Standard Unit Weight		Insulation Thickness		Nominal OD		Nominal Capacitance		Nominal DC Resistance Ω/Mft.
				Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	pF/Ft.	pF/m	
Unshielded Multi-conductor • Thermoset Elastomer Insulation • Red Polyolefin Jacket														
18 AWG														
NEC: FPLR BS 6387 CWZ EN 50200 PH120 	5320UME	2	solid	1000	304.8	40	18	0.034	0.86	0.31	7.9	17	56	5.9
	5322UME	4	solid	1000	304.8	65	30	0.034	0.86	0.35	8.9	17	56	5.9
	5324UME	6	solid	1000	304.8	95	43	0.034	0.86	0.42	10.7	17	56	5.9
	5326UME	8	solid	1000	304.8	120	55	0.034	0.86	0.45	11.4	17	56	5.9
16 AWG														
	5220UME	2	solid	1000	304.8	49	22	0.034	0.86	0.33	8.4	19	62	4.0
	5222UME	4	solid	1000	304.8	81	37	0.034	0.86	0.38	9.7	19	62	4.0
14 AWG														
	5120UME	2	solid	1000	304.8	71	32	0.034	0.86	0.36	9.1	21	69	2.5
	5122UME	4	solid	1000	304.8	121	55	0.034	0.86	0.41	10.4	21	69	2.5
12 AWG														
	5020UME	2	solid	1000	304.8	100	45	0.034	0.86	0.39	10	23	75	1.6
	5022UME	4	solid	1000	304.8	168	76	0.034	0.86	0.45	11.4	23	75	1.6

Safe-T-Line Cable

Circuit Integrity (CI) Fire Alarm

Flame Retardant, Low Smoke, Zero Halogen Jacket, Riser-Rated; FPLR

Description	Part No.	No. of Cond.	Stranding	Standard Lengths		Standard Unit Weight		Insulation Thickness		Nominal OD		Nominal Capacitance		Nominal DC Resistance Ω/Mft.
				Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	pF/Ft.	pF/m	
Shielded Multi-conductor • Thermoset Elastomer Insulation • Beldfoil Shield • Red Polyolefin Jacket														
18 AWG														
NEC: FPLR BS 6387 CWZ EN 50200 PH120 	5320FME	2	solid	1000	304.8	45	20	0.034	0.86	0.31	7.9	27	89	6.5
	5322FME	4	solid	1000	304.8	70	32	0.034	0.86	0.35	8.9	27	89	6.5
	5324FME	6	solid	1000	304.8	100	45	0.034	0.86	0.42	10.7	27	89	6.5
	5326FME	8	solid	1000	304.8	125	57	0.034	0.86	0.45	11.4	27	89	6.5
NEC: FPLR BS 6387 CWZ EN 50200 PH120 	5300FME	2	7 x 26	1000	304.8	47	21	0.034	0.86	0.32	8.1	27	89	6.6
	5302FME	4	7 x 26	1000	304.8	72	33	0.034	0.86	0.36	9.1	27	89	6.6
	5304FME	6	7 x 26	1000	304.8	104	47	0.034	0.86	0.44	11.2	27	89	6.6
	5306FME	8	7 x 26	1000	304.8	130	59	0.034	0.86	0.48	12.2	27	89	6.6
16 AWG														
NEC: FPLR BS 6387 CWZ EN 50200 PH120 	5220FME	2	solid	1000	304.8	55	25	0.034	0.86	0.33	8.4	31	102	4.0
	5222FME	4	solid	1000	304.8	88	40	0.034	0.86	0.38	9.7	31	102	4.0
NEC: FPLR BS 6387 CWZ EN 50200 PH120 	5200FME	2	7 x 24	1000	304.8	58	26	0.034	0.86	0.35	8.9	31	102	4.0
	5202FME	4	7 x 24	1000	304.8	93	42	0.034	0.86	0.40	10.2	31	102	4.0

Notes: All 2-conductor versions are color-coded black and red; 4 or more conductor versions are all black and numbered.
 Available through 8 conductors by special order. Contact Belden distribution.
 FLPR cables available with SUN-RES and PLTC rating by special order.

Safe-T-Line Cable





Circuit Integrity (CI) Fire Alarm

Flame Retardant, Low Smoke, Zero Halogen Jacket, Riser-Rated; FPLR





Description	Part No.	No. of Cond.	Stranding	Standard Lengths		Standard Unit Weight		Insulation Thickness		Nominal OD		Nominal Capacitance		Nominal DC Resistance Ω /Mft.
				Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	pF/Ft.	pF/m	

Shielded Multi-conductor • Thermoset Elastomer Insulation • Beldfoil Shield • Red Polyolefin Jacket

14 AWG

NEC: FPLR BS 6387 CWZ EN 50200 PH120 	5120FME	2	solid	1000	304.8	81	37	0.034	0.86	0.36	9.1	33	108	2.5	
	5122FME	4	solid	1000	304.8	131	60	0.034	0.86	0.41	10.4	33	108	2.5	
	NEC: FPLR BS 6387 CWZ EN 50200 PH120 	5100FME	2	7 x 22	1000	304.8	83	38	0.034	0.86	0.38	9.7	33	108	2.6
		5102FME	4	7 x 22	1000	304.8	133	60	0.034	0.86	0.44	11.2	33	108	2.6
															

12 AWG

NEC: FPLR BS 6387 CWZ EN 50200 PH120 	5020FME	2	solid	1000	304.8	114	52	0.034	0.86	0.39	10	37	121	1.6	
	5022FME	4	solid	1000	304.8	182	83	0.034	0.86	0.45	11.4	37	121	1.6	
	NEC: FPLR BS 6387 CWZ EN 50200 PH120 	5000FME	2	7 x 20	1000	304.8	116	53	0.034	0.86	0.42	10.7	40	131	1.6
		5002FME	4	7 x 20	1000	304.8	185	84	0.034	0.86	0.48	12.1	40	131	1.6
															

Notes: All 2-conductor versions are color-coded black and red; 4 or more conductor versions are all black and numbered. Available through 8 conductors by special order. Contact Belden distribution. FPLR cables available with SUN-RES and PLTC rating by special order.

Shipboard 2-hour Rated CI Cables

Belden also offers ABS-type approved products (Part Nos. 1320SB and 1321SB) with type approved Low Smoke, Zero Halogen properties for use in demanding marine applications.

ABS (the American Bureau of Shipping) is the leading international classification society devoted to promoting the security of marine-related life and property. With ABS-type approval, no additional special approvals or insurance company exceptions are required for Belden cable system installations.

Safe-T-Line Cable

ABS Type Approved 2-hour Fire Rated Shipboard Cable

Flame Retardant, Low Smoke, Zero Halogen Jacket; FPLR, CMG-LS, FT4, IEC

Description	Part No.	No. of Cond.	Stranding	Standard Lengths		Standard Unit Weight		Insulation Thickness		Nominal OD		Nominal Capacitance		Nominal DC Resistance Ω /Mft.
				Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	pF/Ft.	pF/m	

Shielded Multi-conductor • Thermoset Elastomer Insulation • Beldfoil Shield • Sunlight Resistant • Red Polyolefin Jacket


18 AWG Solid Bare Copper

NEC: FPLR IEC 60331-23 	1320SB	1	16/2	1000	304.8	55	25	0.034	0.86	0.33	8.4	31	102	4.0
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ABS Model Certificate No. 06-HS184641F-PDA

16 AWG Solid Bare Copper

NEC: FPLR IEC 60331-23 	1321SB	1	16/2	1000	304.8	55	25	0.034	0.86	0.33	8.4	31	102	4.0
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ABS Model Certificate No. 06-HS184641F-PDA

* Capacitance between conductors. For other ABS Type Approved LSZH cables, see NP236.

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