ZION

Fire Alarm Cable

Good quality & Good service based on reasonable prices.

+ OEM customized production according to your requirements.
+ Standardized products and services according to our own brand.

DEAR BUSINESS PARTNERS,

ZION COMMUNICATION is a professional signal products and security system products provider. We believe on investing and building strong R&D capabilities for new technology and innovation.We have a strong R&D team and skilled workers, also with the advanced machines and modern factories which can provide our customers with outstanding quality, service. Our company keep on investing other factories and build up strong cooperation with other companies too to provide whole products and systems in signal field and security systems to satisfy customers orders inquire.

ZION COMMUNICATION 's management and international sales teams are committed to our customers' utmost satisfaction. Our experienced team experts strives to service every inquiry, quote, and order quickly and efficiently, meeting and often exceeding customers' expectations.

ZION COMMUNICATION is keep on developing in healthy and reasonable speed, and welcome to be partners of us.

Best wishes,

Michael Xsu

Factory
And
Production Equipment

Quality Control

Consistent quality is the key to develop long-term business relationship; therefore ZION COMMUNICATION valued consistent quality throughout every phase of manufacturing process.

From raw materials to final products, we perform intense quality checks to maintain our product quality.

Since quality is the buzz word today & each customer/consumer wants it in totality. Our quality policy & work philosophy stresses towards total customer satisfaction. We have well defined interdepartmental as well as intra Departmental Network Blocks where complete monitoring of job works is done. A well trained staff/Dedicated sales /Excelled production force all strive continuously delivering better services to the customer. An ISO-9002 certification is an affidavit to it which consolidates our verdict for quality.

6 Applications Field

more than
2,000 standard products

over
5 sales companies

Customer form
50 countries

1 Focus on customer needs

around
40 partners

300 employees

MAKING
QUALITY
A PRIORITY

Quality Control

A highlight of ZION COMMUNICATION is its emphasis on Quality Control, Quality Audit and Quality Assurance in the spheres of manufacturing activities and service, i.e. from RAW MATERIAL TO FINAL PRODUCTS to CUSTOMER SUPPORT SERVICES.

Electrolytic Copper & Aluminum ensures longer life for conductor. Bunching/twisting of ministrants as per international standards.
Proper annealing gives softness & flexibility.

Insulation -grade PVC stands high temperatures.
Higher DI-electric strength insulation used.
Weather proof sheathing/insulation material.
Grease/Oil resistant properties.
Voltage fluctuations don't affect.
Resistant to fire hazards.
Self fire-extinguishing & flame proof cables.
Rigid quality controls conforms to-specification.
Chemicals and microbiological attacks don't affect.
No damage due to severe bending while laying.
Immune to fluctuations in temperatures.
Fire Insurance approved.

Description Design

Cable with Copper / Aluminium Conductors PVC insulated colour coded cores laid extruded PVC inner sheathed overall PVC sheathed armored / unarmored cables.

Tests

Testing is a very important part of cable manufacture and all raw materials and finished cables must be thoroughly tested to ensure the quality of cables. ZION COMMUNICATION has a well equipped test fields and electrical, mechanical and chemical laboratories capable of carrying out all tests which are required as per relevant specifications. The most modern testing equipment is installed in these laboratories.
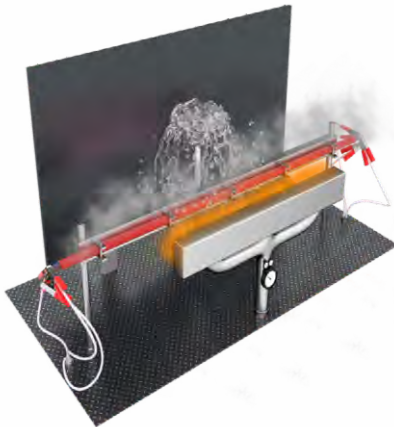
All the fire resistant test are carried out in ZION LAB

FIRE RESISTANCE (Cat. C)

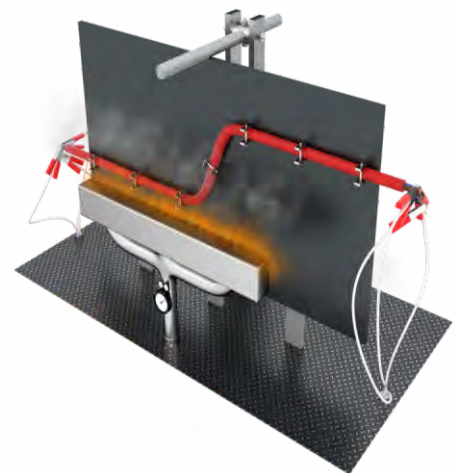The cable is exposed to fire at the 950°C for 180 minutes.

FIRE AND WATER RESISTANCE (Cat. W)

The cable is exposed for 15 minutes to flame at 650°C and for additional 15 minutes to fire and water spray.

FIRE RESISTANCE WITH MECHANICAL SHOCKS (Cat. Z)

The cable is mounted on a vertical panel and shocked with a steel bar for 15 minutes while submitted to the action of a flame.
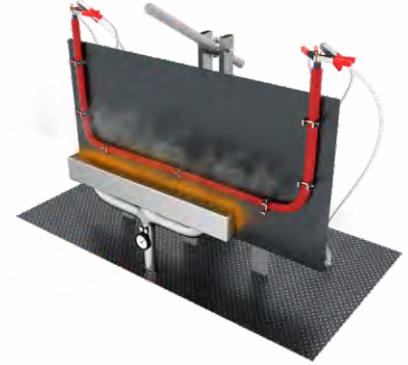
FIRE RESISTANT TEST

All the fire resistant test are carried out in ZION LAB

FIRE RESISTANCE (EN 50200 PH 15-30-60-90-120)

This test is carried out to verify the circuit integrity of cables exposed to fire at 830°C and mechanical shocks.

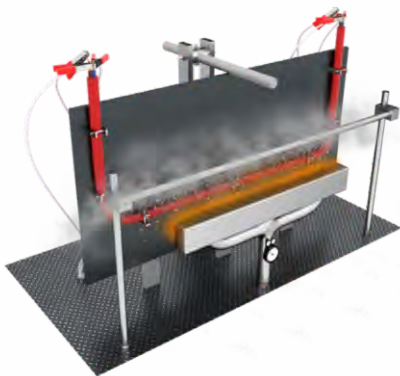|	CLASSIFICATION
EN 50200 PH 15	Flame exposure for 15 min
EN 50200 PH 30	Flame exposure for 30 min
EN 50200 PH 60	Flame exposure for 60 min
EN 50200 PH 90	Flame exposure for 90 min
EN 50200 PH 120	Flame exposure for 120 min

FIRE RESISTANCE BS EN 50200 annex E

This test is carried out to verify circuit integrity during a fire. The cable is exposed to a flame at 830°C and mechanical shocks for 15 minutes and additional 15 minutes to flame, mechanical shocks and water spray.

FIRE RESISTANT TEST

All the fire resistant test are carried out in ZION LAB

FIRE RESISTANCE (BS 8434-2)

This test is carried out to verify circuit integrity during a fire. The cable is exposed to a flame at 930°C and mechanical shocks for 60 minutes and additional 60 minutes to flame, mechanical shocks and water spray.
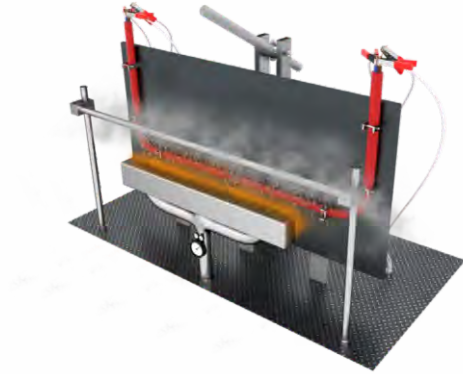
FIRE RESISTANCE (IEC 60331-21, CEI 20-36)

This test is carried out to verify circuit integrity even during a fire. A sample of cable is held on a flame at about 750°C for a period of minimum 90 min, under rated voltage.

All the fire resistant test are carried out in ZION LAB

FLAME PROPAGATION TEST ON A SINGLE CABLE (IEC 60332-1)

A 60 cm long sample of cable is vertically fixed with two clamps inside a small cabin, open on the front. The cable is subjected to the action of a flame produced by a calibrated Bunsen burner.
The application time of the flame is according to the cable diameter (60-480 seconds).
At the end of the test the burnt portion of cable must not be 50 mm close to the higher clamp.

FLAME PROPAGATION TEST ON A SINGLE CABLE (IEC 60332-1)
FIRE PROPAGATION TEST ON BUNCHED CABLES (IEC 60332-3)

Samples of cables 3,5 m long in quantities required by standard are installed on a ladder inside a metallic cabinet.
They are subjected to the action of a flame at 750°C for a specific time (20 or 40 minutes).
Cables must not burn for more than 2,5 m.

Description

ZION COMMUNICATION supplies a wide range of fire alarm cables which are for use with fire monitoring,fire detection, power-limited fire alarm systems, smoke detectors, signaling, audio circuits, control circuits, fire protective circuits and security systems.All HANGZHOU ZION COMMUNICATION CO.,LTD fire alarm cables comply with International standards within the industry. If you do not find the product you need then we offer the option of a special custom design cable.Here you can choose between different constructions,jacket colours or other materials etc.

Applications

Hotels , Airports , Offices , Theatres and cinemas , Schools , Hospitals . Museums , Skyscrapers , Shopping centres , Undergrounds and tunnels , Railways stations , Computer centres , Alarm systems , Traffic control systems , Fire fighting systems .

CLOSE TO
CUSTOMERS.

Our Fire Alarm Cables are manufactured in a wide variety of gauge sizes, shielding configurations and jacketing materials including plenum, riser and general purpose.
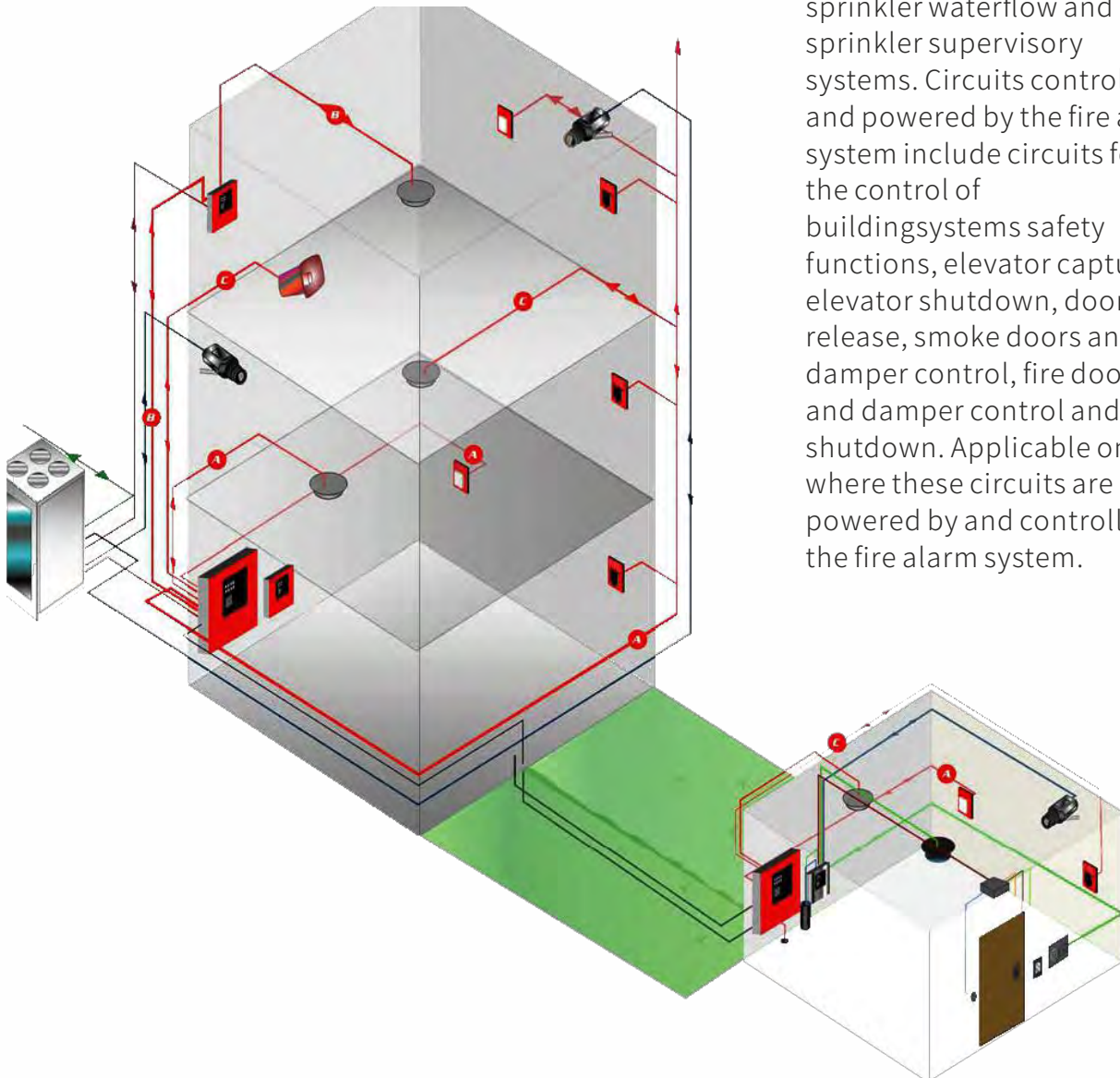
Features:

- Countdown or sequential footage markings
- New labeling system on boxes
- Color coded boxes
- Zone and room markings

Fire Power Limited Cable:

Type FPL, FPLR, FPLP

Article

The scope of this article covers the installation of wiring and equipment of fire alarm systems including all circuits controlled and powered by the fire alarm system. These include fire detection and alarm notification, guard' s tour, sprinkler waterflow and sprinkler supervisory systems. Circuits controlled and powered by the fire alarm system include circuits for the control of buildingsystems safety functions, elevator capture, elevator shutdown, door release, smoke doors and damper control, fire doors and damper control and fan shutdown. Applicable only where these circuits are powered by and controlled by the fire alarm system.

Item No.	Item Name
7110601	UL FPL2x1.0mm2
7110602	UL FPL2x1.5mm2
7110603	UL FPL2x2.5mm2
7110604	UL FPL3x1.0mm2
7110605	UL FPL3x1.5mm2
7110606	UL FPL3x2.5mm2
7110607	UL FPL4x1.0mm2
7110608	UL FPL4x1.5mm2
7110609	UL FPL4x2.5mm2
7110621	UL FPLR2x1.0mm2
7110622	UL FPLR2x1.5mm2
7110623	UL FPLR2x2.5mm2
7110624	UL FPLR3x1.0mm2
7110625	UL FPLR3x1.5mm2
7110626	UL FPLR3x2.5mm2
7110627	UL FPLR4x1.0mm2
7110628	UL FPLR4x1.5mm2
7110629	UL FPLR4x2.5mm2

CONSTRUCTION

Conductors:
Plain annealed copper wire, Solid

Insulation:
FPL-PVC FPLR-PVC

Shield:
Aluminum/Mylar with Solid Tinned-Copper

Outher Sheath:
FPL-PVC, FPLR-PVC

Outer Sheath:
Red

STANDARD REFERENCES

- UL 1424
- NEC Article 760
- NEC Article 725
- UL 1666
- ASTM D 1329
- NF C 32-020
- IRAM IAP
- EN 50266-2
- IEC 60332-1
- IEC 60332-3

IDENTIFICATION OF CORES

2 cores:
4 cores:
6 cores:

POPULAR PACKAGING:

100M/Roll,
200M/Wooden Spool,
500M/Wooden Spool

Fire Resistant Cables

Item No.	Item Name
7110401	BS EN 50200 PH30 2x1.0mm2
7110402	BS EN 50200 PH30 2x1.5mm2
7110403	BS EN 50200 PH30 2x2.5mm2
7110404	BS EN 50200 PH30 3x1.0mm2
7110405	BS EN 50200 PH30 3x1.5mm2
7110406	BS EN 50200 PH30 3x2.5mm2
7110407	BS EN 50200 PH30 4x1.0mm2
7110408	BS EN 50200 PH30 4x1.5mm2
7110409	BS EN 50200 PH30 4x2.5mm2
7110451	BS EN 50200 PH120 2x1.0mm2
7110452	BS EN 50200 PH120 2x1.5mm2
7110453	BS EN 50200 PH120 2x2.5mm2
7110454	BS EN 50200 PH120 3x1.0mm2
7110455	BS EN 50200 PH120 3x1.5mm2
7110456	BS EN 50200 PH120 3x2.5mm2
7110457	BS EN 50200 PH120 4x1.0mm2
7110458	BS EN 50200 PH120 4x1.5mm2
7110459	BS EN 50200 PH120 4x2.5mm2

CONSTRUCTION

Conductors:
Plain annealed copper wire

Insulation:
Fire resistant silicone rubber

Shield:
PET Tape/Aluminum Foil for PH30
Fiber Glass Tape/Aluminum Foil for PH120
Coverage 100 % (Overlapping 20%)
With Tinned Copper to BS 6360 Solid 0.80mm

Outer Sheath:
FR-LSZH (Red or White)

STANDARD REFERENCES

- EN 50200:2015
- EN 61034-2:2005+A1:2013
- EN 60754-1:2014

IDENTIFICATION OF CORES

2 cores:
3 cores:
4 cores:

POPULAR PACKAGING:

100M/Roll,
200M/Wooden Spool,
500M/Wooden Spool

Item No.	Item Name
7110501	BS 6387 PH30 2x1.0mm2
7110502	BS 6387 PH30 2x1.5mm2
7110503	BS 6387 PH30 2x2.5mm2
7110504	BS 6387 PH30 3x1.0mm2
7110505	BS 6387 PH30 3x1.5mm2
7110506	BS 6387 PH30 3x2.5mm2
7110507	BS 6387 PH30 4x1.0mm2
7110508	BS 6387 PH30 4x1.5mm2
7110509	BS 6387 PH30 4x2.5mm2
7110551	BS 6387 PH120 2x1.0mm2
7110552	BS 6387 PH120 2x1.5mm2
7110553	BS 6387 PH120 2x2.5mm2
7110554	BS 6387 PH120 3x1.0mm2
7110555	BS 6387 PH120 3x1.5mm2
7110556	BS 6387 PH120 3x2.5mm2
7110557	BS 6387 PH120 4x1.0mm2
7110558	BS 6387 PH120 4x1.5mm2
7110559	BS 6387 PH120 4x2.5mm2

CONSTRUCTION

Conductors:
Plain annealed copper wire

Insulation:
Special mix silicon rubber

Shield:
PET Tape/Aluminum Foil for PH30
Fiber Glass Tape/Aluminum Foil for PH120
Coverage 100 % (Overlapping 20%)
With Tinned Copper to BS 6360 Solid 0.80mm

Outer Sheath:
FR-LSZH (Red or White)

STANDARD REFERENCES

- BS 6387:2013 Cat. C-W-Z
- IEC 60754-1:2014
- BS EN 61034-2:2005
- EN 50200:2015 (Class PH30/PH120)

IDENTIFICATION OF CORES

2 cores: ●●
3 cores: ●●●
4 cores: ●●●●

POPULAR PACKAGING:

100M/Roll,
200M/Wooden Spool,
500M/Wooden Spool

Length : 100M, 200M, 300M, 500M or as customer need

Manner : Roll, Plastic Spool, Wooden Spool, Carton, Pallet.

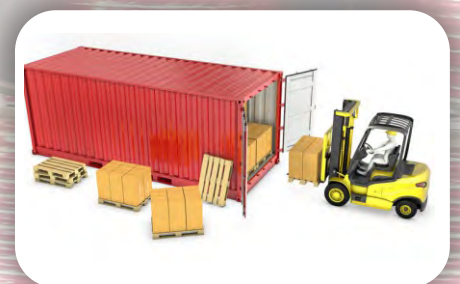## Quality

Professional

Safety

GLOBAL MARKET

For more information
please visit us at:
www.zion-communication.com

China - Head office

EMAIL : luke@zion-communication.com
MOBILE: +86 15868179479
ADD : NO.68, HuaQiao Road, JinCheng Street, LinAn,
ZheJiang, China 311300