



**FRLS or FRFH**  
***FIRE ALARM CABLE***  
***FOR RUSSIA***  
***CATALOG***

# 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

**ZION**  
Communication  
HELLOSIGNAL®





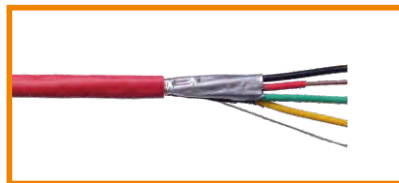
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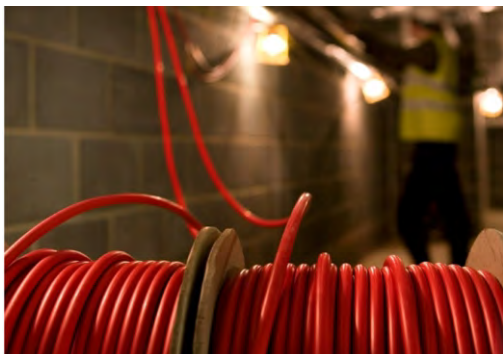
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**ALWAYS  
A PERFECT  
CONNECTION**





# Factory And Production Equipment

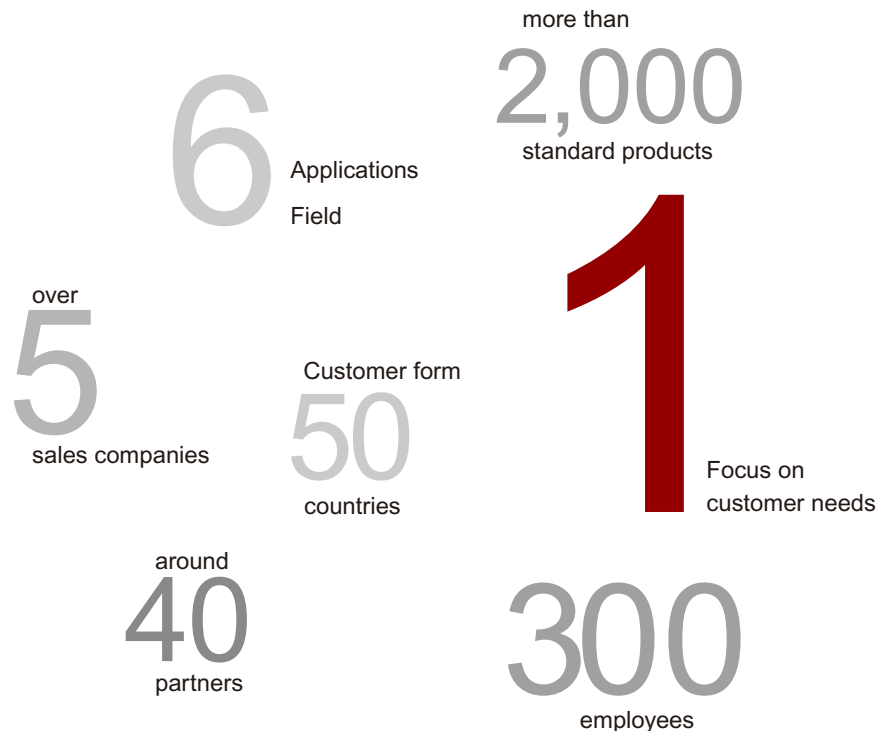


## Quality Control

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.





## 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.





## 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.

## Key Features

These products are solid conductor or multi conductor cables that come in a shielded and unshielded version. The variations are PVC, Plenum, shielded and unshielded which automatically puts this cable in at least 4 types of different applications. Standard ways of asking for it would be fire alarm cable, shielded fire alarm cable, FPLR cable and FPLP cable which stated for Riser and Plenum.

## 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.**





## FIRE ALARM CABLE

### FRLS or FRFH

- ZION PH fire resistant cables are manufactured within the specific requirement of fire resistant cable standards.
- The fire resistant cable assures reliable circuit integrity to keep emergency evacuation systems operational even whilst the cable is burning.
- ZION fire resistant cables can be used for fire alarm systems, power supply or control of equipment that needs to function during a fire such as **Warning**, **Emergency lighting**, **Evacuation** and **Monitor** systems.
- The place of usage is intelligent or semi-intelligent buildings where dense human population or valuable goods are found.
- These can be **Hospitals**, **Cinemas**, **Theatres**, **Schools**, **Shopping centers**, **Airports**, **Factories**, **Hotels** etc.
- ZION products have **low smoke density** , are **halogen free** and they don't emit poisonous gases.



#### All these cables comply to:

BS 7629-1:2008

BS EN 61034-2:2005

BS EN 50267-2-1:1999

IEC 60754-1-99

IEC 60754-2-99

IEC 60331-23-2003

IEC 61034-2-2005

IEC 60331-21:1999

IEC 60332-22-2005

### Cable Construction

	КПС нг(A)	КПСЭ нг(A)
<b>Conductor</b>	Bare copper class 1	
<b>Insulation</b>	Fire resistant silicone rubber	
<b>Insulation Color</b>	2 Core: Blue/Brown	
	4 Core: Blue/Brown/Black/Grey	
<b>Shield 1</b>	None	PET
<b>Drain Wire</b>	None	0.80 mm Tinned Copper
<b>Shield 2</b>	None	AL/PET
<b>Jacket</b>	FRLS or FRFH(PVC)	
<b>Jacket Color</b>	Red ( RAL 3000) or Orange	





## FIRE ALARM CABLE

### Electrical & Mechanical Characteristics

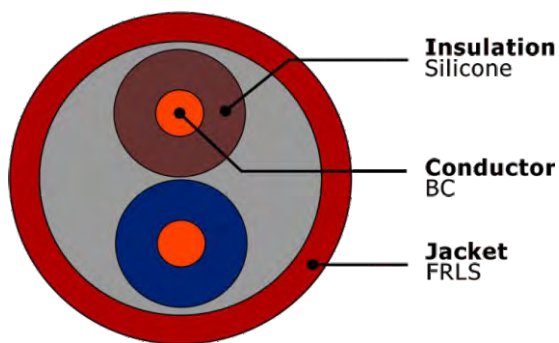
Characteristic	Value
Min. Insulation Resistant	200 MΩ/km
Max. Operating Voltage	300/500 V
Test Voltage	1000 V
Temperature Rating	.-15°C to + 90°C
Min. Bend Radius	8 × D

### КПС нг(A) Physical Information

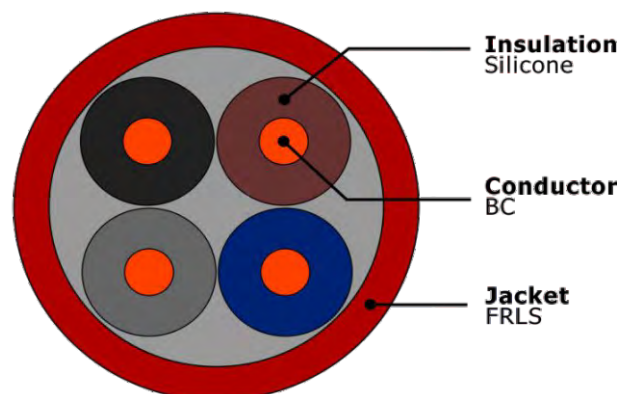
Code	Nom. Cond. Cross-Sect.(mm <sup>2</sup> )	Conductor Size (no./mm)	Insulation/ Thickness(mm)	Cable Diameter mm (±5 %)	Level of twisting
7110501	2×0.22	BC 1/0.5	Silicone/0.45	3.90	38.00
7110502	2×0.5	BC 1/0.78	Silicone/0.53	4.80	58.00
7110503	2×0.75	BC 1/0.96	Silicone/0.64	5.70	74.80
7110504	2×1.0	BC 1/1.13	Silicone/0.58	6.10	74.80
7110505	2×1.5	BC 1/1.38	Silicone/0.71	6.70	74.80
7110506	2×2.5	BC 1/1.78	Silicone/0.82	8.30	75.80
7110507	4×0.22	BC 1/0.5	Silicone/0.45	4.50	37.96/45.98
7110508	4×0.5	BC 1/0.78	Silicone/0.53	5.60	58/62.99
7110509	4×0.75	BC 1/0.96	Silicone/0.64	6.60	74.83/84.27
7110510	4×1.0	BC 1/1.13	Silicone/0.58	7.10	74.83/84.27
7110511	4×1.5	BC 1/1.38	Silicone/0.71	7.80	74.83/84.27
7110512	4×2.5	BC 1/1.78	Silicone/0.82	13.00	75.83/84.27

### Section View

КПС нг(A) 2C Unshielded Cable



КПС нг(A) 4C Unshielded Cable







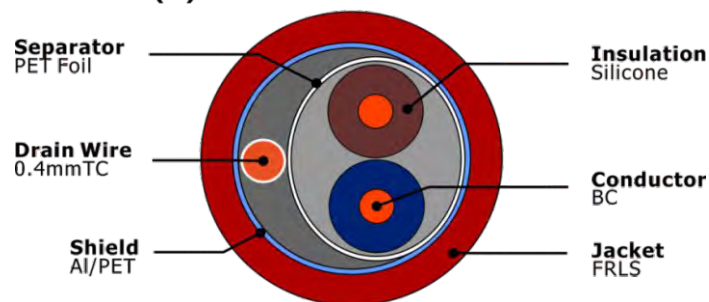
## FIRE RESISTANT CABLE

### КПСЭ нр(A) Physical Information

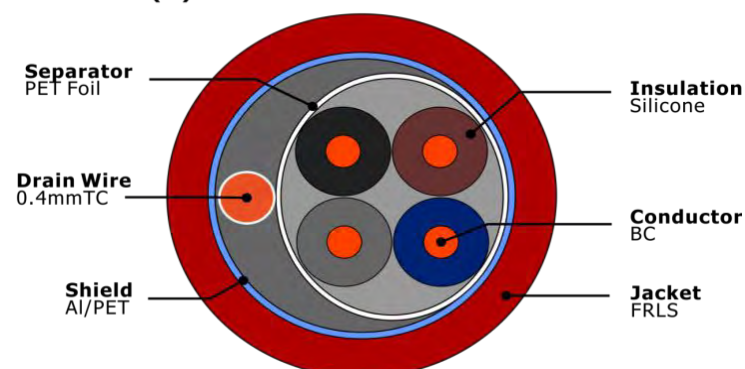
Code	Type (mm <sup>2</sup> )	Conductor Size (no./mm)	Insulation/ Thickness(mm)	Shielded1/ Drian Wire/ Shielded2	Cable Diameter mm (±5 %)	Level of twisting
7110541	2×0.22	BC 1/0.5	Silicone/0.45	PET/TC/AL-Foil	4.10	38.00
7110542	2×0.5	BC 1/0.78	Silicone/0.53	PET/TC/AL-Foil	5.00	58.00
7110543	2×0.75	BC 1/0.96	Silicone/0.64	PET/TC/AL-Foil	5.90	74.80
7110544	2×1.0	BC 1/1.13	Silicone/0.58	PET/TC/AL-Foil	6.30	74.80
7110545	2×1.5	BC 1/1.38	Silicone/0.71	PET/TC/AL-Foil	6.90	74.80
7110546	2×2.5	BC 1/1.78	Silicone/0.82	PET/TC/AL-Foil	8.40	75.80
7110547	4×0.22	BC 1/0.5	Silicone/0.45	PET/TC/AL-Foil	4.80	37.96/45.98
7110548	4×0.5	BC 1/0.78	Silicone/0.53	PET/TC/AL-Foil	5.85	58/62.99
7110549	4×0.75	BC 1/0.96	Silicone/0.64	PET/TC/AL-Foil	6.85	74.83/84.27
7110550	4×1.0	BC 1/1.13	Silicone/0.58	PET/TC/AL-Foil	7.30	74.83/84.27
7110551	4×1.5	BC 1/1.38	Silicone/0.71	PET/TC/AL-Foil	8.00	74.83/84.27
7110552	4×2.5	BC 1/1.78	Silicone/0.82	PET/TC/AL-Foil	13.50	75.83/84.27

### Section View

#### КПСЭ нр(A) 2C shielded Cable



#### КПСЭ нр(A) 4C shielded Cable





# Packing

Packing :

Length : 100M, 200M, 300M,305M,500M,1000M or as customer need

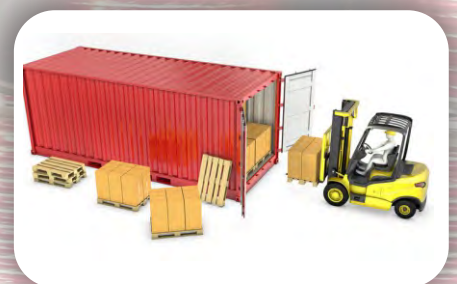
Manner : Reel with PET, Plastic Spool, Wooden Spool, carton, pull box, pallet.



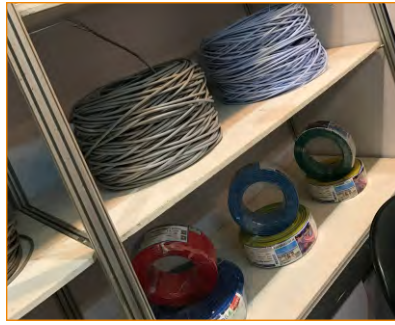
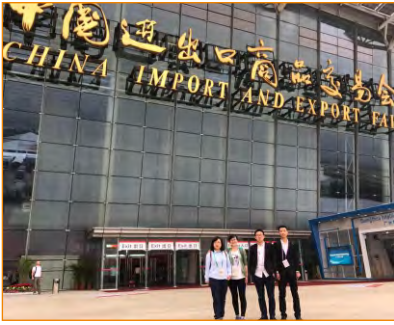
## Quality

## Professional

## Safety







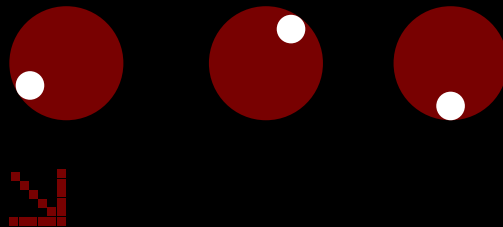
## HANGZHOU ZION COMMUNICATION CO.,LTD

*Focus on customer needs,  
provide competitive signal transmission products and services,  
continue to create maximum value for customers!*

**ZION COMMUNICATION**  
*To be the primary provider of the products and services  
in the field of signal transmission all over the world!*



For more information, please visit us at:  
[www.zion-communication.com](http://www.zion-communication.com)



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