



***FIRE ALARM CABLE
ZION COMMUNICATION
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,

A handwritten signature in black ink that reads "Michael". The signature is fluid and cursive, with a long vertical line extending downwards from the end of the name.

Michael Xsu



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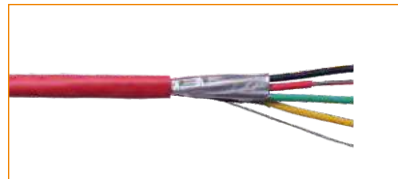
Fire Alarm Cable Description 3



Fire Alarm Cables – UL 5



FIRE ALARM CABLE – PH 30 & PH 120 18



FIRE ALARM CABLE – FRLS or FRFH 22



Packing 25





Factory And Production Equipment



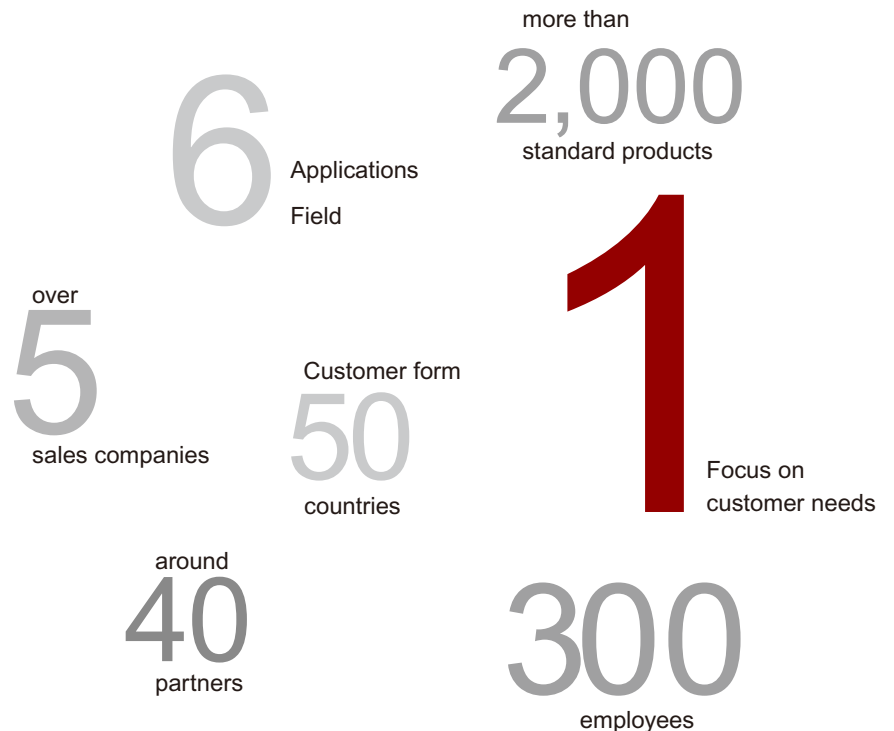
Quality Control

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.**





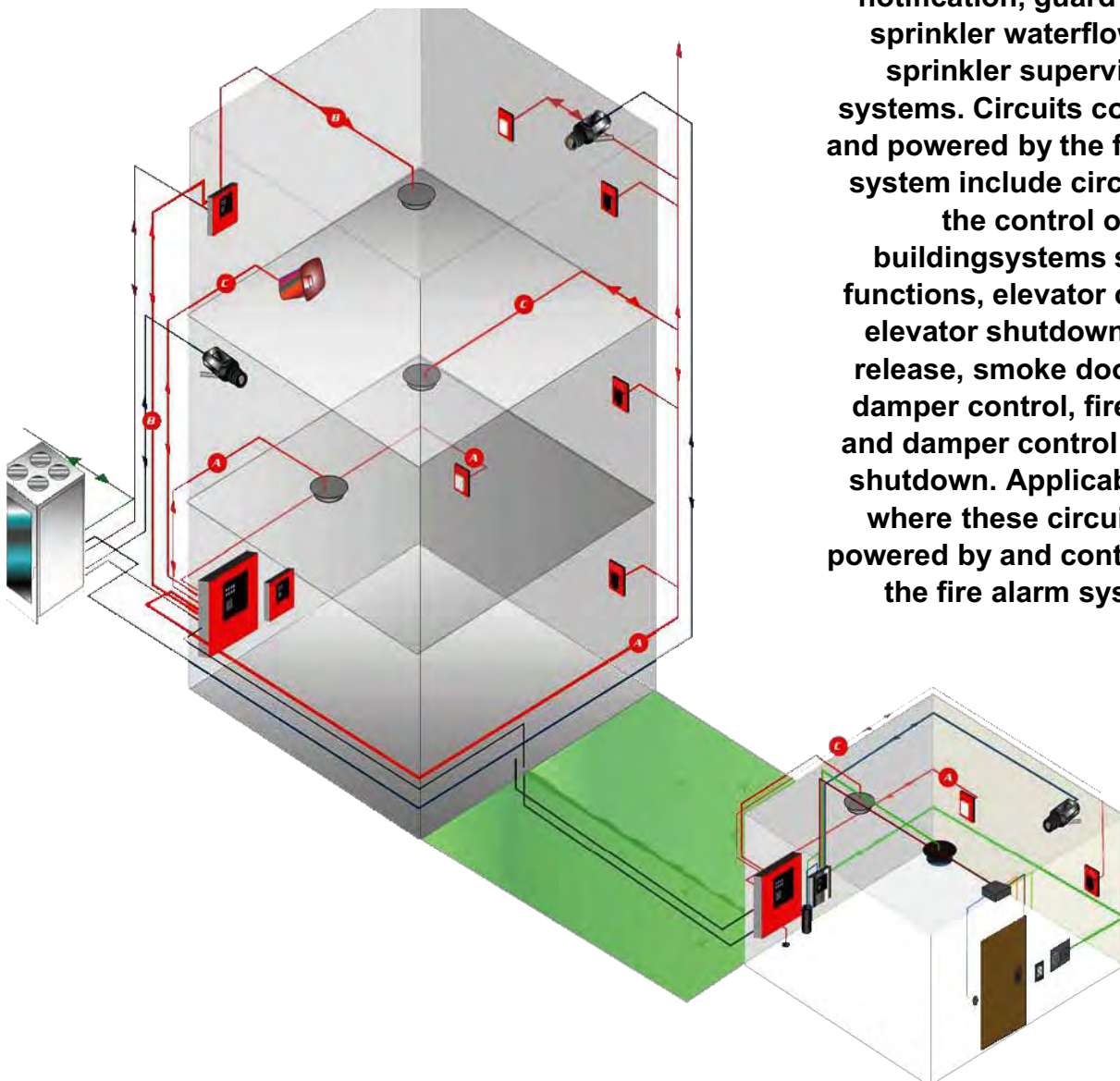
Our Fire Alarm Cables are manufactured in a wide variety of gauge sizes, shielding configurations and jacketing materials including plenum, riser and general purpose.

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 760:

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.



Fire Alarm Cables – Unshielded

Construction:

	Non-Plenum	Plenum	Direct Burial
Conductors	Bare Copper		
Insulation	PP/PE	Low-Smoke PVC	SRPVC
	Conductor Color Code Chart 4		
Jacket	PVC	Low-Smoke PVC	PVC
Colors	Red, White		Black



Features:

Sunlight Resistant (Except Plenum)

Popular Packaging:

Pull Box 500', 1000'

Reel 500', 1000'

Consult factory for other packaging options

22 AWG – UNSHIELDED

#CODE	#COND	STR/ SOL	DC Resistance (OHMS)	NOM. CAP. (PF/FT)	NOM. O.D. (in/mm)	AVG. WT.PER MFT (LBS)
GENERALPURPOSE– FPL LISTED						
7110001	4	SOL	17.0	15	0.118/3.00	15
7110002	6	SOL	17.0	15	0.144/3.66	19
7110003	8	SOL	17.0	15	0.155/3.94	24
7110004	10	SOL	17.5	15	0.182/4.62	31
7110005	12	SOL	17.0	15	0.188/4.78	37
RISERATED – FPLR, CL2R, C(UL), FT4 LISTED						
7110021	4	SOL	17.0	15	0.118/3.00	15
GENERALPURPOSE– FPL LISTED						
7110201	4	STR			0.137/3.50	
7110202	6	STR			0.163/4.16	
7110203	8	STR			0.171/4.34	
7110204	10	STR			0.197/5.02	
7110205	12	STR			0.204/5.18	
RISERATED – FPLR, CL2R, C(UL), FT4 LISTED						
7110221	4	STR			0.134/3.40	

Insulation Color

Number	Description
4	Blk, Red, Ylw, Grn
6	Blk, Red, Ylw, Grn, Brn, Blu
8	Blk, Red, Ylw, Grn, Brn, Blu, Ppl, Pnk
10	Blk, Red, Ylw, Grn, Brn, Blu, Ppl, Pnk, Tan, Org
12	Blk, Red, Ylw, Grn, Brn, Blu, Ppl, Pnk, Tan, Org, Blk\Wht, Red\Wht



Fire Alarm Cables – Unshielded (continued)

18 AWG – UNSHIELDED

#CODE	#COND	STR/ SOL	DC Resistance (OHMS)	NOM. CAP. (PF/FT)	NOM. O.D. (in/mm)	AVG. WT.PER MFT (LBS)
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GENERALPURPOSE– FPL LISTED

7110006	2	SOL	6.50	20	0.134/3.40	17
7110007	4	SOL	6.50	20	0.170/4.32	29
7110008	6	SOL	6.32	20	0.192/4.87	41
7110009	8	SOL	6.50	20	0.208/5.28	52
7110010	10	SOL	6.50	20	0.244/6.20	68

RISERRATED– FPLR, CL2R, C(UL), FT4 LISTED

7110022	2	SOL	6.50	19	0.138/3.50	17
7110023	4	SOL	6.50	19	0.174/4.42	34
7110024	6	SOL	6.50	19	0.187/4.75	44
7110025	10	SOL	6.50	19	0.244/6.20	67

PLENUMRATED– FPLP, CL2P, C(UL), FT6 LISTED

7110041	2	SOL	6.50	24	0.134/3.40	19
7110042	4	SOL	6.50	24	0.156/3.96	32
7110043	6	SOL	6.50	24	0.192/4.87	45

GENERALPURPOSE– FPL LISTED

7110206	2	STR	6.50	19	0.260/6.60	37
7110207	4	STR	6.50	19	0.295/4.49	59
7110208	6	STR	6.50	19	0.345/8.76	76
7110209	8	STR	6.50	19	0.375/9.52	95
7110210	10	STR	6.50	19	0.260/6.60	

RISERRATED– FPLR, CL2R, C(UL), FT4 LISTED

7110222	2	STR			0.138/3.85	
7110223	4	STR			0.174/4.82	
7110224	6	STR			0.187/4.97	
7110225	10	STR			0.244/6.60	

PLENUMRATED– FPLP, CL2P, C(UL), FT6 LISTED

7110241	2	STR			0.134/3.85	
7110242	4	STR			0.156/4.40	
7110243	6	STR			0.192/5.28	

Insulation Color

Number	Description
2	Blk,Red
4	Blk,Red,Ylw,Grn
6	Blk,Red,Ylw,Grn,Brn,Blu
8	Blk,Red,Ylw,Grn,Brn,Blu,Ppl,Pnk
10	Blk,Red,Ylw,Grn,Brn,Blu,Ppl,Pnk,Tan,Org



Fire Alarm Cables – Unshielded (continued)

Construction:

	Non-Plenum	Plenum	Direct Burial
Conductors	Bare Copper		
Insulation	PP/PVC	Low-Smoke PVC	SRPVC
	Conductor Color Code Chart 4		
Jacket	PVC	Low-Smoke PVC	PVC
Colors	Red, White		Black



Features:

Sunlight Resistant (Except Plenum)

Popular Packaging:

Pull Box 500', 1000'

Reel 500', 1000'

Consult factory for other packaging options

16 AWG – UNSHIELDED

#CODE	#COND	STR/ SOL	DC Resistance (OHMS)	NOM. CAP. (PF/FT)	NOM. O.D. (in/mm)	AVG. WT.PER MFT (LBS)
GENERALPURPOSE– FPL LISTED						
7110011	2	SOL	4.15	20	0.157/4.01	24
7110012	4	SOL	4.15	20	0.180/4.57	43
RISERRATED – FPLR, CL2R, C(UL), FT4 LISTED						
7110026	2	SOL	4.919	20	0.155/3.94	24
7110027	4	SOL	4.15	20	0.184/4.67	43
PLENUMRATED – FPLP, CL2P, C(UL), FT6 LISTED						
7110044	2	SOL	4.19	27	0.154/3.91	26
7110045	4	SOL	4.05	27	0.180/4.57	47
GENERALPURPOSE– FPL LISTED						
7110211	2	STR			0.173/4.41	
7110212	4	STR			0.195/4.97	
RISERRATED – FPLR, CL2R, C(UL), FT4 LISTED						
7110226	2	STR			0.171/4.34	
7110227	4	STR			0.200/5.07	
PLENUMRATED – FPLP, CL2P, C(UL), FT6 LISTED						
7110244	2	STR			0.170/4.31	
7110245	4	STR			0.195/4.97	

Insulation Color

Number	Description
2	Blk,Red
4	Blk,Red,Ylw,Grn



Fire Alarm Cables – Unshielded (continued)

14 AWG – UNSHIELDED

#CODE	#COND	STR/ SOL	DC Resistance (OHMS)	NOM. CAP. (PF/FT)	NOM. O.D. (in/mm)	AVG. WT.PER MFT (LBS)
GENERALPURPOSE– FPL LISTED						
7110013	2	SOL	2.60	22	0.200/5.08	35
7110014	4	SOL	2.60	22	0.214/5.44	64
RISERRATED– FPLR, CL2R, C(UL), FT4 LISTED						
7110028	2	SOL	2.54	22	0.202/5.13	37
7110029	4	SOL	2.54	22	0.236/5.99	65
PLENUMRATED– FPLP, CL2P, C(UL), FT6 LISTED						
7110046	2	SOL	2.50	27	0.180/4.57	38
7110047	4	SOL	2.50	27	0.246/6.25	68
GENERALPURPOSE– FPL LISTED						
7110213	2	STR			0.216/5.48	
7110214	4	STR			0.230/5.84	
RISERRATED– FPLR, CL2R, C(UL), FT4 LISTED						
7110228	2	STR			0.218/5.53	
7110229	4	STR			0.251/6.39	
PLENUMRATED– FPLP, CL2P, C(UL), FT6 LISTED						
7110246	2	STR			0.195/4.97	
7110247	4	STR			0.262/6.65	

12 AWG – UNSHIELDED

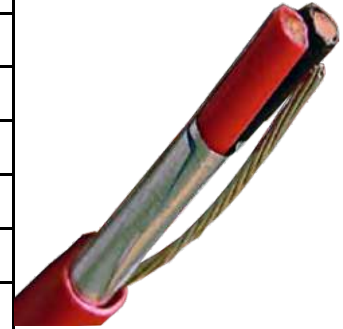
#CODE	#COND	STR/ SOL	DC Resistance (OHMS)	NOM. CAP. (PF/FT)	NOM. O.D. (in/mm)	AVG. WT.PER MFT (LBS)
GENERALPURPOSE– FPL LISTED						
7110015	2	SOL	1.60	22	0.242/6.15	52
RISERRATED– FPLR, CL2R, C(UL), FT4 LISTED						
7110030	2	SOL	2.54	22	0.232/5.89	55
PLENUMRATED– FPLP, CL2P, C(UL), FT6 LISTED						
7110048	2	SOL	1.60	30	0.246/6.25	55
GENERALPURPOSE– FPL LISTED						
7110215	2	STR			0.258/6.55	
RISERRATED– FPLR, CL2R, C(UL), FT4 LISTED						
7110230	2	STR			0.247/6.29	
PLENUMRATED– FPLP, CL2P, C(UL), FT6 LISTED						
7110248	2	STR			0.262/6.65	



Fire Alarm Cables – Overall Shielded

Construction:

	Non-Plenum	Plenum
Conductors	Bare Copper	
Shielded	Al/Mylar with Drain Wire	
Insulation	PP/PVC	Low-Smoke PVC
	Conductor Color Code Chart 4	
Jacket	PVC	Low-Smoke PVC
Colors	Red, White	



Features:

Sunlight Resistant (Except Plenum)

Popular Packaging:

Pull Box 500', 1000'

Reel 500', 1000'

Consult factory for other packaging options

22 AWG – SHIELDED

#CODE	#COND	STR/ SOL	DC Resistance (OHMS)	NOM. CAP. (PF/FT)	NOM. O.D. (in/mm)	AVG. WT.PER MFT (LBS)
GENERALPURPOSE– FPL LISTED						
7110101	4	SOL	17.0	31	0.124/3.15	17
RISERATED – FPLR, CL2R, C(UL), FT4 LISTED						
7110121	4	SOL	17.5	31	0.126/3.20	16
PLENUMRATED – FPLP, CL2P, C(UL), FT6 LISTED						
7110141	4	SOL	17.0	53	0.126/3.20	18
GENERALPURPOSE– FPL LISTED						
7110301	4	STR			0.136/3.45	
RISERATED – FPLR, CL2R, C(UL), FT4 LISTED						
7110321	4	STR			0.142/3.60	
PLENUMRATED – FPLP, CL2P, C(UL), FT6 LISTED						
7110341	4	STR			0.142/3.60	

Insulation Color

Number	Description
4	Blk,Red,Ylw,Grn



Fire Alarm Cables – Overall Shielded (continued)

18 AWG – SHIELDED

#CODE	#COND	STR/ SOL	DC Resistance (OHMS)	NOM. CAP. (PF/FT)	NOM. O.D. (in/mm)	AVG. WT.PER MFT (LBS)
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GENERALPURPOSE– FPL LISTED

7110102	2	SOL	6.50	42	0.138/3.51	20
7110103	4	SOL	6.50	42	0.160/4.06	31
7110104	6	SOL	6.50	42	0.196/4.99	50
7110105	8	SOL	6.50	42	0.212/5.38	57

RISERATED – FPLR, CL2R, C(UL), FT4 LISTED

7110122	2	SOL	6.50	42	0.138/3.51	21
7110123	4	SOL	6.50	42	0.163/4.14	32
7110124	6	SOL	6.50	42	0.196/4.99	46
7110125	8	SOL	6.50	42	0.212/5.38	56

PLENUMRATED – FPLP, CL2P, C(UL), FT6 LISTED

7110142	2	SOL	6.50	68	0.140/3.57	22
7110143	4	SOL	6.50	68	0.168/4.27	35
7110144	6	SOL	6.50	68	0.196/4.99	50

GENERALPURPOSE– FPL LISTED

7110302	2	STR			0.154/3.91	
7110303	4	STR			0.175/4.46	
7110304	6	STR			0.212/5.39	
7110305	8	STR			0.227/5.78	

RISERATED – FPLR, CL2R, C(UL), FT4 LISTED

7110322	2	STR			0.154/3.91	
7110323	4	STR			0.179/4.54	
7110324	6	STR			0.212/5.39	
7110325	8	STR			0.227/5.78	

PLENUMRATED – FPLP, CL2P, C(UL), FT6 LISTED

7110342	2	STR			0.156/3.97	
7110343	4	STR			0.184/4.67	
7110344	6	STR			0.212/5.39	

Insulation Color

Number	Description
2	Blk,Red
4	Blk,Red,Ylw,Grn
6	Blk,Red,Ylw,Grn,Brn,Blu
8	Blk,Red,Ylw,Grn,Brn,Blu,Ppl,Pnk



Fire Alarm Cables – Overall Shielded (continued)

16 AWG – SHIELDED

#CODE	#COND	STR/ SOL	DC Resistance (OHMS)	NOM. CAP. (PF/FT)	NOM. O.D. (in/mm)	AVG. WT.PER MFT (LBS)
GENERALPURPOSE– FPL LISTED						
7110106	2	SOL	4.10	46	0.158/4.01	29
7110107	4	SOL	4.10	46	0.186/4.72	49
RISERATED – FPLR, CL2R, C(UL), FT4 LISTED						
7110126	2	SOL	4.10	46	0.166/4.22	31
7110127	4	SOL	4.10	46	0.195/4.95	49
PLENUMRATED – FPLP, CL2P, C(UL), FT6 LISTED						
7110145	2	SOL	4.05	77	0.175/4.45	35
7110146	4	SOL	4.05	77	0.202/5.13	52
GENERALPURPOSE– FPL LISTED						
7110306	2	STR			0.174/4.41	
7110307	4	STR			0.201/5.12	
RISERATED – FPLR, CL2R, C(UL), FT4 LISTED						
7110326	2	STR			0.182/4.62	
7110327	4	STR			0.211/5.35	
PLENUMRATED – FPLP, CL2P, C(UL), FT6 LISTED						
7110345	2	STR			0.191/4.85	
7110346	4	STR			0.211/5.37	

Insulation Color

Number	Description
2	Blk, Red
4	Blk, Red, Ylw, Grn



**CLOSE TO
THE MARKET**



Fire Alarm Cables – Overall Shielded (continued)

14 AWG – SHIELDED

#CODE	#COND	STR/ SOL	DC Resistance (OHMS)	NOM. CAP. (PF/FT)	NOM. O.D. (in/mm)	AVG. WT.PER MFT (LBS)
GENERALPURPOSE– FPL LISTED						
7110108	2	SOL	2.54	52	0.200/5.33	40
7110109	4	SOL	2.54	52	0.214/5.59	67
RISERRATED– FPLR, CL2R, C(UL), FT4 LISTED						
7110128	2	SOL	2.54	52	0.202/5.21	42
7110129	4	SOL	2.54	52	0.236/6.10	72
PLENUMRATED– FPLP, CL2P, C(UL), FT6 LISTED						
7110147	2	SOL	2.50	86	0.180/5.28	44
7110148	4	SOL	2.50	86	0.246/6.86	75
GENERALPURPOSE– FPL LISTED						
7110308	2	STR			0.216/5.73	
7110309	4	STR			0.230/5.99	
RISERRATED– FPLR, CL2R, C(UL), FT4 LISTED						
7110328	2	STR			0.218/5.61	
7110329	4	STR			0.251/6.50	
PLENUMRATED– FPLP, CL2P, C(UL), FT6 LISTED						
7110347	2	STR			0.195/5.68	
7110348	4	STR			0.262/7.26	

12 AWG – UNSHIELDED

#CODE	#COND	STR/ SOL	DC Resistance (OHMS)	NOM. CAP. (PF/FT)	NOM. O.D. (in/mm)	AVG. WT.PER MFT (LBS)
GENERALPURPOSE– FPL LISTED						
7110110	2	SOL	1.60	56	0.242/6.10	59
RISERRATED– FPLR, CL2R, C(UL), FT4 LISTED						
7110130	2	SOL	1.65	56	0.232/5.54	60
PLENUMRATED– FPLP, CL2P, C(UL), FT6 LISTED						
7110149	2	SOL	1.60	96	0.246/6.22	63
GENERALPURPOSE– FPL LISTED						
7110310	2	STR			0.258/6.50	
RISERRATED– FPLR, CL2R, C(UL), FT4 LISTED						
7110330	2	STR			0.247/5.94	
PLENUMRATED– FPLP, CL2P, C(UL), FT6 LISTED						
7110349	2	STR			0.262/6.62	



Fire Alarm Cables – Zipcord

Construction:

- Solid Bare Copper Conductors
- PVC Insulation
- Parallel Zip Construction
- Jacket Colors: Red, White

Features:

- Sunlight Resistant
- One Conductor Ribbed for Polarity

Popular Packaging:

- Pull Box 500', 1000'
- Reel 500', 1000'
- Consult factory for other packaging options



#CODE	#COND	STR/ SOL	DC Resistance (OHMS)	NOM. CAP. (PF/FT)	NOM. O.D. (mm)	AVG. WT.PER MFT (LBS)
RISERATED – FPLR, CL2R, C(UL), FT4 LISTED						
7110031	18AWG 2C	SOL	6.50	17	2.24 × 4.99	18
7110032	16AWG 2C	SOL	4.05	17	2.39 × 5.08	26
7110033	14AWG 2C	SOL	2.54	17	2.72 × 5.59	37
RISERATED – FPLR, CL2R, C(UL), FT4 LISTED						
7110231	18AWG 2C	STR			2.44 × 5.39	
7110232	16AWG 2C	STR			2.59 × 5.48	
7110233	14AWG 2C	STR			2.92 × 5.99	





Fire Alarm Cables – Unshielded Mid. Capacitance

Construction:

- Solid Bare Copper Conductors
- Polypropylene Insulation
- PVC Jacket
- Conductor Color Code Chart 4
- Jacket Colors: Red

Features:

- Sunlight Resistant

Popular Packaging:

- Pull Box 500', 1000'
- Reel 500', 1000'
- Consult factory for other packaging options



#CODE	#COND	STR/ SOL	DC Resistance (OHMS)	NOM. CAP. (PF/FT)	NOM. O.D. (in/mm)	AVG. WT.PER MFT (LBS)
RISERATED – FPLR, CL2R, C(UL), FT4 LISTED						
7110034	18AWG 2C	SOL	6.25	15	0.144/3.66	19
7110035	16AWG 2C	SOL	4.07	17	0.170/4.32	26

RISERATED – FPLR, CL2R, C(UL), FT4 LISTED

7110234	18AWG 2C	STR			0.160/4.06	
7110235	16AWG 2C	STR			0.186/4.72	

Fire Alarm Cables – Shielded Mid. Capacitance

Construction:

- Solid Bare Copper Conductors
- Aluminum/Mylar Overall Shield with Drain Wire
- Polypropylene Insulation
- PVC Jacket
- Conductor Color Code Chart 4
- Jacket Colors: Red

Features:

- Sunlight Resistant

Popular Packaging:

- Pull Box 500', 1000'
- Reel 500', 1000'
- Consult factory for other packaging options



#CODE	#COND	STR/ SOL	DC Resistance (OHMS)	NOM. CAP. (PF/FT)	NOM. O.D. (in/mm)	AVG. WT.PER MFT (LBS)
RISERATED – FPLR, CL2R, C(UL), FT4 LISTED						
7110131	18AWG 2C	SOL	6.32	34	0.148/3.76	21
7110132	16AWG 2C	SOL	4.07	38	0.187/4.75	32

RISERATED – FPLR, CL2R, C(UL), FT4 LISTED

7110331	18AWG 2C	STR			0.164/4.16	
7110332	16AWG 2C	STR			0.203/5.15	



ZION FPLR TYPE-POWER LIMITED FIRE ALARMCABLE

- The UL listed FPLR type shielded power limited fire alarm riser cable from Norden is suitable to be used in vertical runs in signaling & fire alarm system. It works in high temperature levels. This cable is constructed with FR-PVC insulation and outer jacket with aluminum and PE tape shielding that meets UL 1666 specifications. This cable complies with VW - 1 Flame Test requirements in ANSI/UL 1581.
- Tested as per ANSI/UL 1666 for flame propagation height of electrical and optical - Fibre Cables Installed Vertically in Shafts.



Standard:

ANSI/UL 1424, Cables for Power-Limited Fire-Alarm Circuits

All these cables comply to:

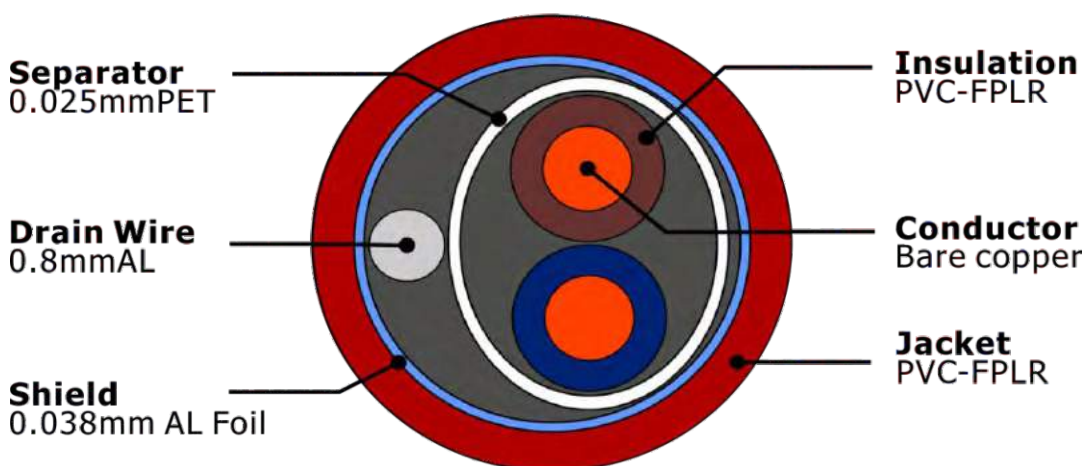
Application of insulation	BS 7629-1-2008
Inner Conductor Diameter	BS EN 60228
Insulation Type	BS 50363-5
Corrosive and Acid Gas Emission	BS EN 50267-2-1
Flame Propagation(bunched cable)	IEC332-3/TS EN50266
Flame Propagation(single cable)	IEC332-1/TS EN60332-1-2
Sheath	BS 7656-6-1/LTS 3

UL File No

E491510

SECTIONVIEW

FPLR





ZION FPLR TYPE-POWER LIMITED FIRE ALARMCABLE

Cable Construction

Conductor Solid Bare Copper	Outer Jacket FR - PVC	Drain Wire 1/0.8 AL	Temperature Range -35°C to +105°C
Insulation FR - PVC	Jacket Colour Red	Jacket Thickness 0.85 mm	
Insulation Colour 2 Core: Brown/Blue	Shielding PET+AL/PET	Nylon Rip Cord 150D	

Physical Characteristics

No. of Codes	No. of Cores/Cross-Section(mm ²)	Cable diameter (mm)	Insulation diameter mm (+/- 0.08)	Jacket diameter (mm)
7110601	2×1.0	1.13	2.2	6.2
7110602	2×1.5	1.36	2.4	6.8
7110603	2×2.5	1.76	2.8	7.6
7110604	3×1.0	1.13	2.2	6.4
7110605	3×1.5	1.36	2.4	7.0
7110606	3×2.5	1.76	2.8	7.8
7110607	4×1.0	1.13	2.2	6.9
7110608	4×1.5	1.36	2.4	7.6
7110609	4×2.5	1.76	2.8	8.5
7110610	5×1.5	1.36	2.4	8.5
7110611	7×1.5	1.36	2.4	9.6

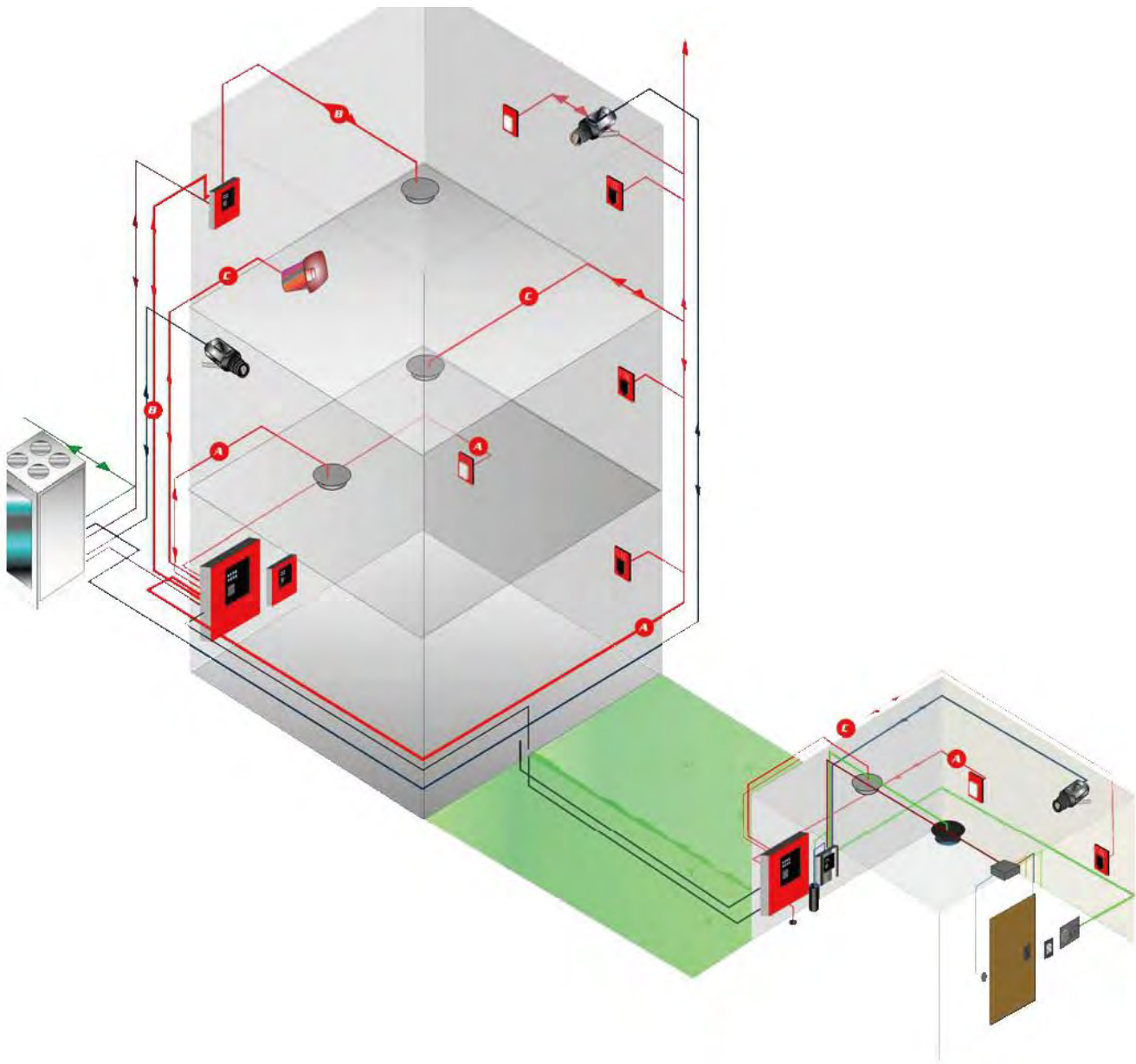
Application





ZION FPLR TYPE-POWER LIMITED FIRE ALARMCABLE

Application Scenarios





FIRE ALARMCABLEPH 30 & PH 120

SILICONEINSULATION

- 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.



Flame Tests:

BS 4066 part 1 & 3, EN 50266-2-4, IEC 60332-3-24, IEC/EN 60332-1

Insulation Integrity:

BS 6387 CWZ, EN 50200 PH30, IEC 60331

Smoke Density:

BS 7622, IEC/EN 61034, HD 606

Corrosive Gas Measurement:

BS EN 50267-2-2, IEC 60754-2

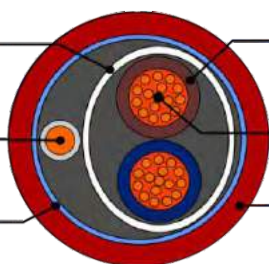
Section View

Ph30 2C

Separator
0.025mmPET

Drain Wire
0.8mmTC

Shield
0.038 mmAl/PET



Insulation
2.2mm Silicone

Conductor
BC

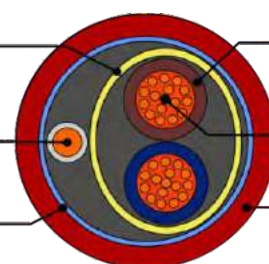
Jacket
LSZH (Red)

Ph120 2C

Separator
0.025mmFibre

Drain Wire
0.8mmTC

Shield
0.038 mmAl/PET



Insulation
2.2mm Silicone

Conductor
BC

Jacket
LSZH (Red)



FIRE ALARMCABLEPH 30 & PH 120

Cable Construction

Conductor	Plain annealed copper wire, class 1,2 or 5 according to EN60228. IEC/EN228, BS 6360, VDE 0295, HD 383
Insulation	Fire resistant silicone rubber 2 Core: Blue/Brown
Insulation Color	3 Core: Blue/Black/Grey 4 Core: Blue/Brown/Black/Grey
Shield	Aluminum laminated Polyester Tape Coverage 100 % (Overlapping 20%)
Drain Wire	Tinned Copper to BS 6360 Solid 0.80mm
Jacket	LSZH, Halogen Free Flame Retardant to EN 50290-2, BS 7655 LTS1/LTS3
Jacket Color	Red (RAL 3000) or White

Electrical & Mechanical Characteristics

Characteristic	Value			
	1.0 mm ²	1.5 mm ²	2.5 mm ²	4.0 mm ²
Max. Conductor Resistant at 20°C Class1,2(Ω/km)	18.0	12.0	7.4	4.6
Max. Conductor Resistant at 20°C Class5 (Ω/km)	19.5	13.3	8.0	4.95
Min. Insulation Resistant at 0°C (MΩxkm)	200	200	200	200
Operating Voltage	300/500 V			
Test Voltage	2000 V			
Temperature Rating (Fixed)	-30°C to + 90°C			
Temperature Rating (Flexing)	-5°C to + 60°C			
Min. Bend Radius (Fixed)	8 × D			
Min. Bend Radius (Flexing)	15 × D			



FIRE ALARMCABLEPH 30 & PH 120

PH 30 Physical Information

Code	Nom. Cond.Cross-Sect.(mm ²)	Conductor Size (no./mm)	Drain Wire Size (no./mm)	Cable Diameter mm (±5 %)	Weight (Kg/km)
7110401	2×1.0	30/0.2	1/0.80	6.1	
7110402	2×1.5	30/0.25	1/0.80	7.5	
7110403	2×2.5	49/0.25	1/0.80	8.5	
7110404	2×4.0	56/0.3	1/0.80	9.6	
7110405	2×6.0	85/0.3	1/0.80	11.5	
7110406	3×1.0	30/0.2	1/0.80	6.5	
7110407	3×1.5	30/0.25	1/0.80	7.4	
7110408	3×2.5	49/0.25	1/0.80	8.65	
7110409	3×4.0	56/0.3	1/0.80	10.1	
7110410	4×1.0	30/0.2	1/0.80	7.1	
7110411	4×1.5	30/0.25	1/0.80	8.2	
7110412	4×2.5	49/0.25	1/0.80	9.75	
7110413	4×4.0	56/0.3	1/0.80	11.4	
7110414	7×1.0	30/0.2	1/0.80	10.0	
7110415	7×1.5	30/0.25	1/0.80	11.3	
7110416	12×1.0	30/0.2	1/0.80	12.5	
7110417	12×1.5	30/0.25	1/0.80	14.5	
7110418	19×1.0	30/0.2	1/0.80	15.0	
7110419	19×1.5	30/0.25	1/0.80	17.0	

Application

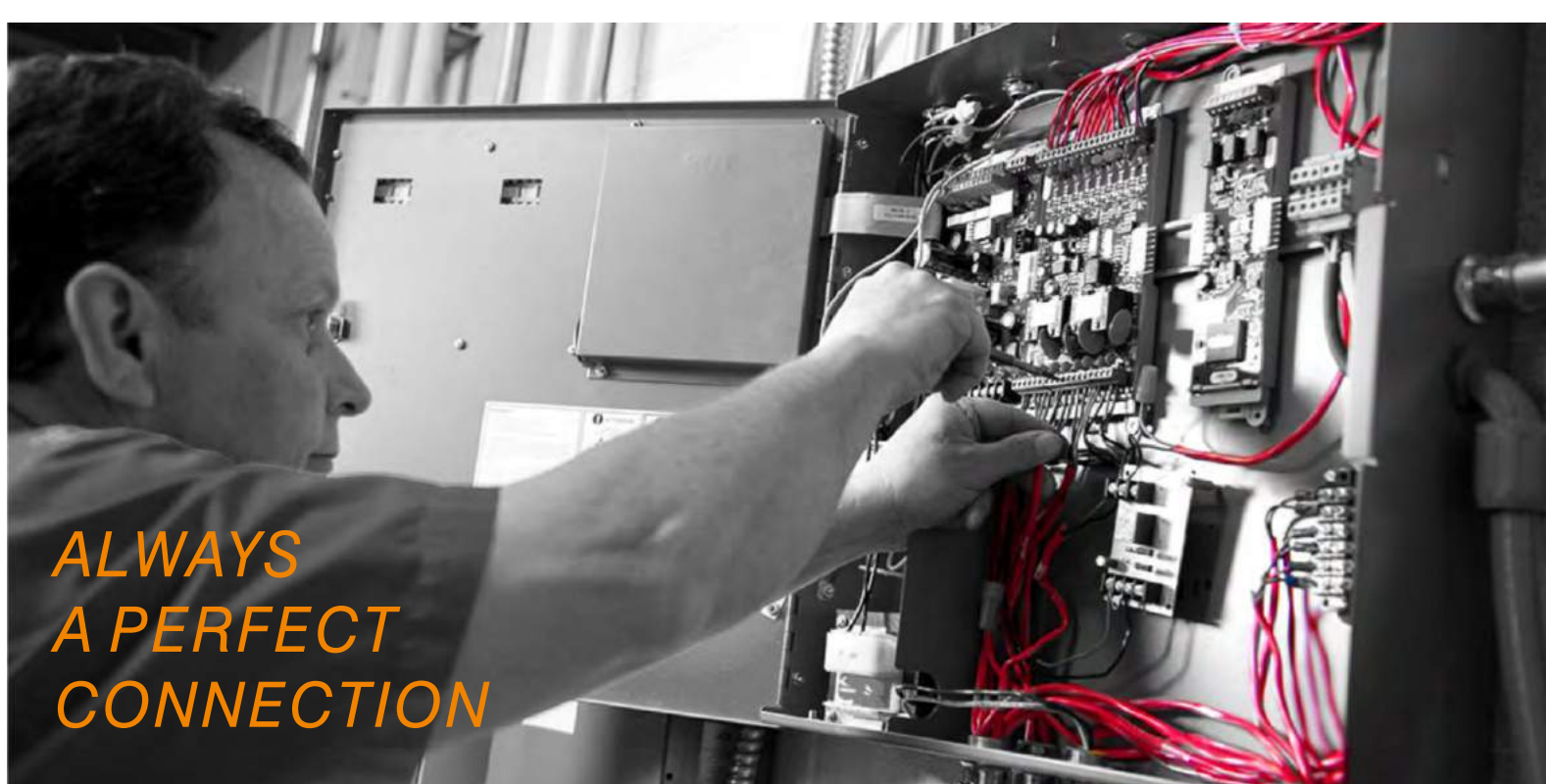




FIRE ALARMCABLEPH 30 & PH 120

PH 120 Physical Information

Code	Nom. Cond.Cross-Sect.(mm ²)	Conductor Size (no./mm)	Drain Wire Size (no./mm)	Cable Diameter mm (±5 %)	Weight (Kg/km)
7110451	2×1.0	30/0.2	1/0.80	6.1	
7110452	2×1.5	30/0.25	1/0.80	7.5	
7110453	2×2.5	49/0.25	1/0.80	8.5	
7110454	2×4.0	56/0.3	1/0.80	9.6	
7110455	2×6.0	85/0.3	1/0.80	11.7	
7110456	3×1.0	30/0.2	1/0.80	6.5	
7110457	3×1.5	30/0.25	1/0.80	7.4	
7110458	3×2.5	49/0.25	1/0.80	8.65	
7110459	3×4.0	56/0.3	1/0.80	10.1	
7110460	4×1.0	30/0.2	1/0.80	7.1	
7110461	4×1.5	30/0.25	1/0.80	8.2	
7110462	4×2.5	49/0.25	1/0.80	9.75	
7110463	4×4.0	56/0.3	1/0.80	11.4	
7110464	7×1.0	30/0.2	1/0.80	10.0	
7110465	7×1.5	30/0.25	1/0.80	11.3	
7110466	12×1.0	30/0.2	1/0.80	12.5	
7110467	12×1.5	30/0.25	1/0.80	14.5	
7110468	19×1.0	30/0.2	1/0.80	15.0	
7110469	19×1.5	30/0.25	1/0.80	17.0	



**ALWAYS
A PERFECT
CONNECTION**



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.
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- 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

IEC 60754-1-99

IEC 61034-2-2005

BS EN 61034-2:2005

IEC 60754-2-99

IEC 60331-21:1999

BS EN 50267-2-1:1999

IEC 60331-23-2003

IEC 60332-22-2005

Cable Construction

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



FIRE ALARM CABLE

Electrical & Mechanical Characteristics

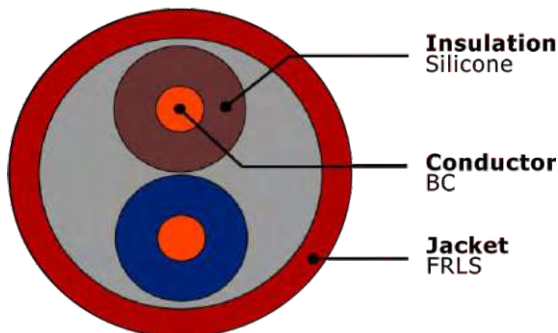
Characterisc	Value
Min. Insulation Resistant	200 MΩ/km
Max. Operating Voltage	300/500 V
Test Voltage	1000 V
Temperature Rating	.-15°C to + 90°C
Min. Bend Radius	8 × D

КПС нг(A) Physical Information

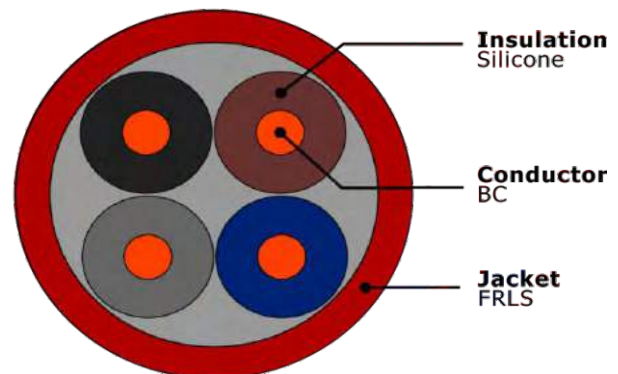
Code	Nom. Cond.Cross-Sect.(mm ²)	Conductor Size (no./mm)	Insulation/ Thickness(mm)	Cable Diameter mm (±5 %)	Level of twisting
7110501	2×0.22	BC 1/0.5	Silicone/0.45	3.90	38.00
7110502	2×0.5	BC 1/0.78	Silicone/0.53	4.80	58.00
7110503	2×0.75	BC 1/0.96	Silicone/0.64	5.70	74.80
7110504	2×1.0	BC 1/1.13	Silicone/0.58	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





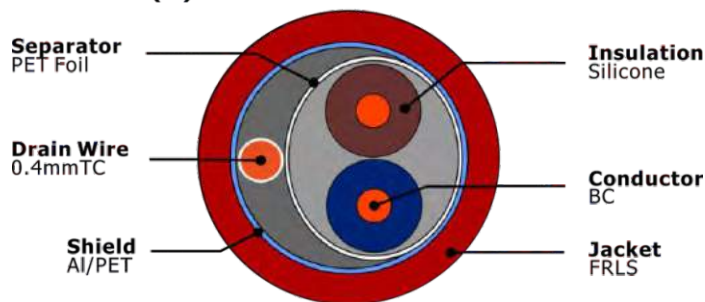
FIRE RESISTANT CABLE

КПСЭ нр(A) Physical Information

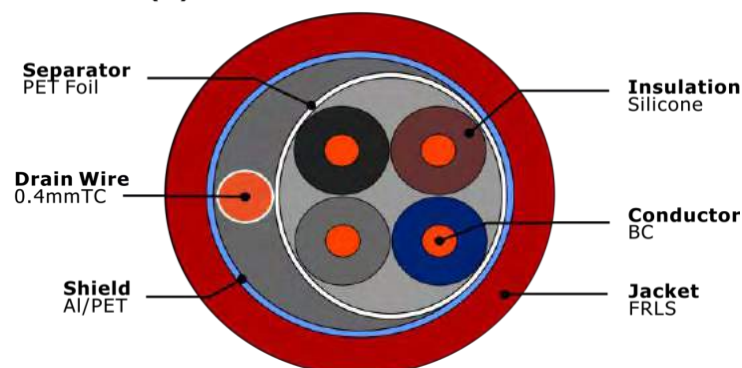
Code	Type (mm ²)	Conduct or Size (no./mm)	Insulation/ Thickness(mm)	Shielded1/ Drian Wire/ Shielded2	Cable Diameter mm (±5 %)	Level of twisting
7110541	2×0.22	BC 1/0.5	Silicone/0.45	PET/TC/AL-Foil	4.10	38.00
7110542	2×0.5	BC 1/0.78	Silicone/0.53	PET/TC/AL-Foil	5.00	58.00
7110543	2×0.75	BC 1/0.96	Silicone/0.64	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.

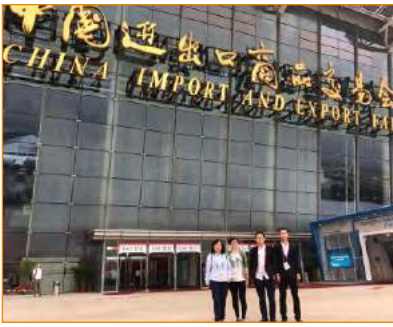


Quality

Professional

Safety





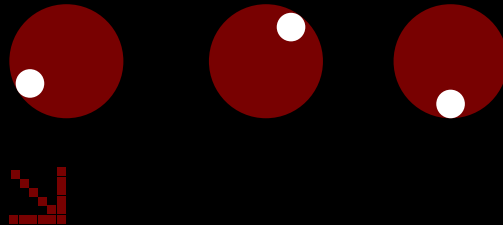
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provide competitive signal transmission products and services,
continue to create maximum value for customers!*

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