

Daxing Industrial District, Beijing, China

www.bjhygkcable.com Tel: +86-010-80261008 Fax: +86-010-89233216

Combustion-retardant Wire & Cable Serial Products

Product Standard

Enterprise standard. At the same time, apart from implementing IEC60332 or GB/T18380-2001 or the GA306-2007 the Public Safety Industrial Standard for combustion retardant characteristics, products also adopt state standard (GB) for non-combustion-resisting type equivalent to the products.

■ Usage

This product is suitable for use in all places using non-combustion-retardant type power cable, electrical equipment-use wire and cable and all corresponding products and at the same time requires combustion-retardant environment and conditions.

■ Property for Use

- 1. Rated voltage (U₀/U, from 300/300V to 26/35kV according to different kinds of product series.
- 2. The max.work temperature of cable for a long period is: 70° C, 90° C and 105° C.
- 3. For short circuit (5s), the max.work temperature of conductor does not exceed 160° C for 70° C; 250° C for 90° C
- 4. The temperature for laying cable is not less than 0° C.
- 5. Cable bend radius implements corresponding non-combustion-retardant cable standard stipulation.
- 6. Combustion-retardant characteristics can be divided into categories A and C (category B is not recommended).
 - a. ZC-type combustion-retardant cable is used in general combustion-retardant places requiring IEC60332-3C category.
 - b. ZA-type combustion-retardant cable is used in combustion-retardant places requiring relatively harsh IEC60332-3A category.
 - c. Single cable should reach the requirement of IEC60332-1(2) non- burning, that is, self-extinguishing nature. Multi-cable or a bundle of cable will only burn in a certain scope after reaching the IEC60332-3 standard and will extinguish itself.

■ Type of Cable

Type	Rated Voltage	Designation	Scope of Application	
ZA(C)-VV		Copper core PVC insulated		
	0.6/1kV	combustion-retardant power cable	Nuclear power station, underground	
	U.O/1KV	Aluminum core PVC insulated	railway, telecommunications station,	
$ZA(C)$ - VLV_{22}		combustion-retardant power cable	high rises, petroleum, metallurgy, power	
ZA(C)-YJY		Copper XLPE insulated PE sheathed	plant, military installations, tunnel, etc	
	0.6/1~8.7/10kV	combustion-retardant power cable	piant, mintary histaliations, tuiller, etc.	
		Aluminum core XLPE insulated PVC		



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ZA(C)-YJLV ₂₂		sheathed, armored			
_===(=)=======		combustion-retardant power cable			
ZA(C)-KVV		Como action rotal and post of cases			
		Copper core PVC insulated			
		combustion-retardant control cable			
		Copper core PVC insulated			
ZA(C)-KVVR	450/750V	combustion-retardant control soft cable			
		Copper core PVC insulated, metal			
		screened, armored			
		combustion-retardant control cable			
ZA(C)-KVVP ₂₂					
ZA(C)-BV	450/750V	g pyg: 1, 1			
	300/500V	Copper core PVC insulated			
		combustion-retardant wire			
ZA(C)-BVV		Copper core PVC insulated	Fixed or movable laying in power		
		combustion-retardant cable	installation, instrument & meters, etc.		
		Copper core PVC insulated			
ZA(C)-RVB	300/300V	combustion-retardant flat soft wire			
		Copper core PE insulated, PVC			
ZA(C)-PYV	250V	sheathed combustion-retardant signal	Railway automatic installations		
		cable			
		Copper core PE insulated, PVC			
ZA(C)-PUYVR	250V	sheathed combustion-retardant mine	Mine transmission		
		signal soft cable			
ZA(C)-JYV		Copper core PE insulated, PVC	Commutan woods also tries 1 1: 0		
	300/500V	sheathed combustion-retardant	Computer weak electrical appliances &		
		computer cable	equipment		

■ Name Type and Use Scope of Products

Name	Type	Class	Use Scope
Flame-retarding series	ZR	IVA IVB IVC	A.D. rated voltage 35kV or less plastic insulating and flame retarding power ca A.D. rated voltage 450/750V or less plastic insulating and flame retarding con
		IB IC IIA IIB	cable and A.D. rated voltage 450/750V or less plastic insulating and flame retarding cable.



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IIIA	
IIIB	
IIIC	

■ For specifications

Ty	ype	Voltage	Class	Cross-section mm ²		
ZA(C)-VV	ZA(C)-YJY		1	1.5-800		
$ZA(C)$ - VLV_{22}	$ZA(C)$ - $YJLV_{22}$	0.6/1~1.8/3kV	1	10-800		
ZA(C)-VV	ZA(C)-YJY		2	1.5-185		
$ZA(C)$ - VLV_{22}	$ZA(C)$ - $YJLV_{22}$			4-185		
ZA(C)-VV	ZA(C)-YJY		3	1.5-400		
$ZA(C)$ - VLV_{22}	$ZA(C)$ - $YJLV_{22}$			4-400		
ZA(C)-VV	ZA(C)-YJY		3+1 3+2	4-300		
$ZA(C)$ - VLV_{22}	$ZA(C)$ - $YJLV_{22}$		4+1	4-300		
ZA(C)-VV	ZA(C)-YJY			1.5-300		
$ZA(C)$ - VLV_{22}	$ZA(C)$ - $YJLV_{22}$		5	4-300		
ZA(C)-YJY	ZA(C)-YJLV ₂₂	3.6/6~8.7/10kV	1	25-800		
ZA(C)-YJY	$ZA(C)$ - $YJLV_{22}$	3.0/0~8.7/10KV	3	25-400		
ZA(C)-KVV			2-14	4,6,10		
ZA(C)-K V V		2-61	0.75,1.0,1.5,2.5		
ZA(C)-KVVP ₂₂		450/750V	4-14	4,6,10		
ZA(C)-	-K V V F 22		6-61	0.75,1.0,1.5,2.5		
ZA(C)	-KVVR	6-61 4-61 450/750V 1		0.75,1.0,1.5,2.5		
ZA(C	C)-BV	450/750V	1	1.5-400		
74(0) DVV	300/500V	1	0.75-10		
ZA(C)-BVV	300/300 V	2,3,4,5	1.5-35		
ZA(C	C)-RVB	300/300V	2	0.3-2.5		
ZA(C)-PYV	250V	2-48	1.0mm		
ZA(C)-	PUYVR	250V	4	0.5,.1.5		
ZA(C)-JYV			2.4,6,19	1.0 2, 3, 4, 5, 6, 10		
		300/500V	3	1.5 3		
		300/300 V	3	1.5		
			3	2.5		

- Technical property, conditions and others, except combustion-retardant characteristics, are all the same as corresponding non-combustion-retardant type cable in the sample book.
- Flame-Retarding Property, Class and Technical Requirements



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Infinite Power



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		Height of Carbonization					Density of
Item		Test Conditions				Toxic	Smoke (the
Flame-Retarding Class		Non-Metal Weight for Sampling L/m	Fired Temperature °C	Time for Firing min	Technical Requirement m	Property of Smoke (Thickness) mg/L	Smallest Light Penetrating Rate) %
Flame-Retarding	I A	7.0	>815	40	≤2.5	≥12.4	≥80
Class- I	IΒ	3.5		-10			
	I C	1.5		20			
Element Describer	II A	7.0		40			
Flame-Retarding Class- II	IIΒ	2.5					≥60
C1005 11	ΙΙC	1.5		20			
Flame-Retarding Class-III	IIIA	7.0		40		≥6.15	≥20
	IIIB	3.5					
	IIIC	1.5		20			
Flame-Retarding Class-IV	IVA	7.0		40		_	
	IVB	3.5		40			_
	IVC	1.5		20			

Note: "IVA, IVB and IVC" shows respectively the "A, B and C" .