



PT VOKSEL ELECTRIC Tbk.

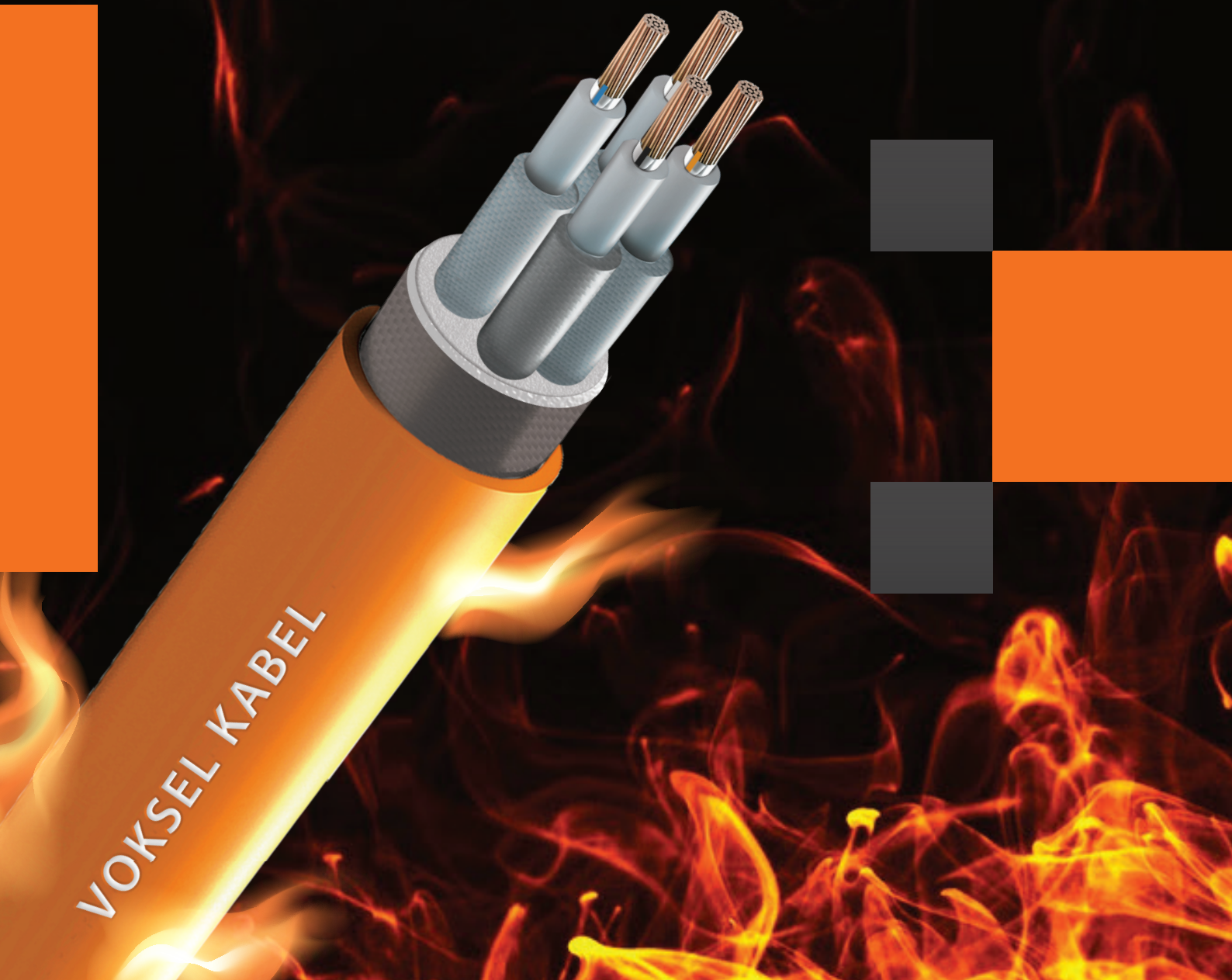
— A MEMBER OF HENGTONG GROUP —



HIGH FIRE PROTECTION CABLE

0.6/1 (1.2) kV, Cu/MGT/LSZH-XLPE/GFT/LSZH

VOKSEL KABEL



0.6/1 (1.2) kV, Cu/MGT/LSZH-XLPE/GFT/LSZH

Designed for better protection. Crucial for maintaining the functionality of vital systems during a fire, ensuring safety and emergency response.

Construction



STANDARD REFERENCES

IEC 60331-21
BS 6387 ; BS 8491
GB/T 19666-2019

PRODUCT TYPE & SIZE

TYPE	RATED	NO. OF CORES	CROSS-SECTION OF CONDUCTOR
Cu-MGT-LSZHXLPE-GFT-LSZH	0.6/1kV	1	1.5 - 630 mm ²
		2	1.5 - 400 mm ²
		3	1.5 - 400 mm ²
		3+1	2.5 - 400 mm ²
		4	1.5 - 400 mm ²
		3+2	2.5 - 400 mm ²
		4+1	2.5 - 400 mm ²
		5	1.5 - 400 mm ²

KEY PERFORMANCE

ITEM	STANDARD TEST VALUE
ELECTRICAL TEST Conductor DC resistance (20°C) Insulation core withstand voltage test (AC2.4kV, 4h) Insulation resistance constant (20°C) Insulation resistance constant (90°C)	Maximum 0.727Ω/km No breakdown Minimum 734MΩ/km Minimum 0.734MΩ/km
INSULATION PHYSICAL AND MECHANICAL PROPERTIES TEST Before Aging After air oven aging (158°C, 168h)	Tensile strength minimum 5.0N/mm ² ; Elongation at break minimum 150% Tensile strength change rate ≤ ±40%; Elongation change rate ≤ ±60%
INTERLOCKING SHEATH LAYER Flexibility test (bend the sample once at 8 times the diameter) Tension test (136kg, 1min) Elongation test (440N, 1min)	The interlocking part of the sheath does not show the wire core The interlocking part of the sheath does not crack Max. permanent extension of the cable: 75mm
COMBUSTION PERFORMANCE Determination of smoke density when cables burn under specific conditions (GB/T17651.2) - minimum light transmittance LINE INTEGRITY TEST Test of cable maintaining line integrity under flame - simple fire supply with flame temperature not less than 950 - 960°C (test voltage: 1000V; fire supply time: 90min; cooling time: 15min) Line integrity (simple fire resistant) BS6387: Appendix D.2 Line integrity (fire and water resistant) BS6387: Appendix D.3 Line integrity (fire resistance and impact resistance Z) BS6387: Appendix D.4	Minimum 60% 1) Voltage is maintained (2A fuse does not blow) 2) Conductor does not blow (indicator light does not go out) The line remained intact 180 minutes after the fire 15 minutes of fire, water spraying and continued fire for 15 minutes, the line maintained integrity 15 minutes of fire and impact, the line maintained integrity

PRODUCT APPLICATION AREAS



HIGH-RISE BUILDINGS

Emergency lines and fire alarm prompt lines in high-rise buildings are the most important lines in a fire and must be kept intact to extend and determine the fire-fighting time.



MILITARY SCIENCE

Its unique small size and flexibility can meet the narrow cable space in military equipment, and can provide unique solutions in line sealing, radiation protection, and explosion protection.



PETROCHEMICAL INDUSTRY

This cable can withstand high temperatures of 1100°C. In a fire environment, it can ensure the integrity of all energy sources, control valve control lines and emergency equipment lines to prevent the expansion of the disaster.



ELECTRIC POWER AND METALLURGICAL APPLICATIONS

Super-flexible fire-resistant cables are insulated with fire-resistant insulators, which can avoid the aging, embrittlement and overload damage of ordinary cables in sustained high-temperature environments, ensuring the integrity of the system. The expansion of the disaster.



SHOPPING MALLS, THEATERS, HOTELS

This cable can be used in general lighting, emergency lighting, power systems, security systems, main lines, etc.



AIRPORT APPLICATIONS

This cable can be used in fire pump delivery circuits, emergency equipment, general lighting, emergency lighting, fire alarm systems, power systems, CCTV, etc.



TUNNEL

This cable can be used in general lighting, emergency lighting, smoke extraction system, security duty room



ANCIENT BUILDINGS

Fire protection is the primary consideration for ancient buildings. Super flexible fireproof cables can ensure the power supply of emergency lines before, during and after fires and provide unique solutions.

PRODUCT ADVANTAGES COMPARED TO SIMILAR PRODUCTS

THE LATEST GENERATION OF FIRE-RESISTANT CABLE TYPE, WITH LEVEL UP PROTECTION THAN EXISTING FIRE-RESISTANT PRODUCTS.

THE LINE MAINTAIN INTEGRITY UP TO 3 HOURS DURING THE FIRE.

GLASS MATERIAL WITH ACCEPTABLE THICKNESS TO MAINTAIN FLEXIBILITY OF CABLE, NO NEED TO CHANGE THE TOOLS AND ACCESSORIES.

EXCELLENT FIRE PERFORMANCE: THE USE OF FIRE RESISTANT MINERAL INDEPENDENT FORMULA MATERIAL, DOUBLE LAYER INSULATION PROTECTION.

GO GREEN PRODUCT, GOOD FOR ENVIRONMENT AND WORKER.

COMPARE TO YTTW TYPE, MORE FLEXIBLE, EASY TO INSTALL AND CUT ANYWHERE REFER TO YOUR INSTALLATION CONDITION.



CABLE FIRE RESISTANCE TESTING UNDER BUILDING FIRE HEATING CONDITIONS

Cable fire resistance tests under building fire heating conditions are more intense than conventional fire resistance tests (simulating medium-sized fire conditions on site). The test is conducted using a combustion furnace that tests the fire resistance of load-bearing walls and steel beams to simulate the heating and enclosed spaces of real fire conditions. In high heat conditions, it is difficult for conventional fireproof cables to continuously supply power in this environment.



IEC 60331-21



BS 6387



BS 6387

PRODUCT EXPERIENCES

China National Stadium Bird's Nest Renovation and Expansion Project:

The renovation, refurbishment and expansion projects have been implemented in succession since 2020. In March 2021, Hengtong completed the supply of fireproof cables for the renovation and expansion project. Hengtong fireproof cables, with convenient installation and laying methods and excellent safety performance, timely and effectively cooperated with the construction of the National Stadium renovation and expansion project, and also provided important power guarantees for the use of large-scale events such as the 100th anniversary of the founding of the Communist Party of China and the opening and closing ceremonies of the 2022 Winter Olympics.



Huawei Songshan Lake Terminal Headquarters:

Songshan Lake Huawei Terminal Headquarters Project: Mainly engaged in the communications equipment industry, mainly including communications power supply, new energy, energy storage, intelligent management, etc. This project has high requirements for cables. Hengtong provides medium and low voltage fireproof cables and supporting intermediate joint accessories, which fully meet the project design requirements.





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