

Fire-retardant optical cable for utility tunnel



Overview

These cables ensure circuit integrity during fire events and are ideal for subway, tunnel, and underground commercial installations. To meet the growing demand in urban infrastructure, UG CABLE has launched a new series of fire-resistant cables compliant with IEC 60331 and EN 50200 standards. Our fire resistant/fire survival cables feature a steel wire/steel wire braiding/corrugated steel tape armour to provide mechanical strength. Optical cables used in vital communication and emergency systems need to be operational during fires. Certified to B2ca CPR and FE180 fire-resistance standards, these cables maintain optical integrity under extreme. 2Key Laboratory of Gas and Fire Control for Coal Mines, China University of Mining and Technology, Ministry of Education, Xuzhou, China Correspondence Weiguang An, Jiangsu Key Laboratory of Fire Safety in Urban Underground Space, China University of Mining and Technology, Xuzhou 221116, China. Offered in OM1, OM3 and OM4 multimode and OS2 singlemode, in 4, 8, 12 or 24 core fibre configurations.

Article Content

Utility Tunnel Fire Simulation Study | PDF | Fires | Smoke

The document describes a numerical simulation study of fires in the cable cabin of an underground utility tunnel with different longitudinal locations of the fire

Experimental study on fire characteristics in cable

Through experimental tests, the fire characteristics of placing the fire source on the near wall side 3.0 m away from the shaft of the utility tunnel cable

Comparative Analysis on Performance of Different Fire

In order to compare performance of different fire detection systems commonly used in urban utility tunnel, several types of fire detectors were

Cable tunnel fire experiment study based on linear optical fiber fire ...

According to the technical characteristics of the three detectors, the engineering suitability of the typical linear heat detectors in cable tunnels early fire detection is analyzed, which provide ...

A fire detection system using optical fibres for utility tunnels ...

In this paper we examine a fire detection system for utility tunnels on the basis of the fact that temperature distribution along an optical fibre can be determined through measurement of the

An Experimental Study for Deriving Fire Risk

In this study, we performed three tests to measure the fire-retardant performance of power cables installed in utility tunnels. The standards we

Research on Temperature Distribution of Cable Fire in

In this study, a full-scale fire experiment was conducted to investigate the temperature distribution characteristics of cable fires in utility

Combustion characteristics and thermal decomposition mechanism of

What's more, the pyrolysis characteristics and reaction mechanism of cables under different thermal environments were revealed. The work provides the necessary support for the

Experimental study on fire performance of optical

Optical cable is an important part of modern telecommunications infrastructure. In this study, cone calorimeter experiments are conducted on the

Experimental study on fire performance of optical cables used in ...

Optical cable is an important part of modern telecommunications infrastructure. In this study, cone calorimeter experiments are conducted on the optical cables which are widely being...

Mine Fire-Retardant Optical Cable (MGTS)

The application of this cable is a circumstance in which a high degree of fire safety is required, since the cable will operate during a fire, has limited spread of fire, has a limited generation of smoke and has

Draka FireTuf Fire Resistant Fibre Optic Cable

This FireTuf fibre range is fully compliant with fire resistant standards IEC 60331-25 and flame retardant standards IEC 60332-2-3-24C, guaranteeing the cables

Experimental study on the flame spread behavior and smoke flow ...

In this study, 110 kV flame-retardant cables were selected as experimental materials, and full-scale fire experiments were conducted in a real-scale utility tunnel, where the flame spread

An experimental study on the combustion characteristics of YJV and

Cable fires in utility tunnels can result in significant economic losses and potentially cause citywide disruptions. Therefore, a comprehensive study on cable combustion characteristics under

An Experimental Study for Deriving Fire Risk Evaluation Factors for ...

In this study, we performed three tests to measure the fire-retardant performance of power cables installed in utility tunnels. The standards we applied for testing are ISO 5660-1, NES 713, and ...

OCIFLAM FIRE SURVIVAL CABLES AND WIRES

EC approved and LPCB-certified cables. Our products are tested at leading laboratories and approved by many utility compa Our fire resistant cable range is designed as fire resistant cables or flame

Combustion characteristics and flame morphological evolution of

Abstract Utility tunnels serve as critical infrastructure for urban energy and electricity transport systems, housing multi-layered cable arrangements that pose significant fire hazards. This

Effects of Fire Compartmentation and Smoke Exhaust Measures on

Taking utility tunnel as the research background, this paper builds a simulation calculation model for fire smoke prevention and control in the utility tunnel using PyroSim numerical

Fire Resistant Fiber Optic Cables CPR B2ca | ETK Kablo

Certified to B2ca CPR and FE180 fire-resistance standards, these cables maintain optical integrity under extreme heat and flame exposure—ideal for tunnels, hospitals, airports, industrial plants, data

Effects of interlayer distance and cable spacing on flame ...

Abstract Fire safety of utility tunnel, which is significantly affected with cables, has arouse public concern. This work experimentally investigated influences of interlayer distance (d) and cable

Fire resistant/survival cables

APAR offers 2F to 512 F optical fibre cables, in armoured and unarmoured designs. The cable ensures operation for 3 hours in fires up to 750°C. The cable is

Fire Resistant Cables for Metro & Tunnel Projects | BS 6387 CWZ ...

If you are working on a metro or tunnel project and need reliable fire resistant cable solutions: Contact us to request technical specifications, test reports, and project-based quotations.

Effects of interlayer distance and cable spacing on flame ...

This work experimentally investigated influences of interlayer distance (d) and cable spacing (s) on flame characteristics and fire hazard of multilayer cables in utility tunnel.

Evaluating the combustion and flame extension characteristics of cable ...

Abstract A cable fire in a utility tunnel can cause severe damage to the electric power supply in cities. This study aims to understand the combustion and flame spread characteristics of

Combustion characteristics and thermal decomposition mechanism of

Therefore, it is of great theoretical significance and engineering value to study the pyrolysis kinetics, product characteristics and pyrolysis reaction mechanism of high-voltage flame retardant

Fire-Resistant Cables for Metro and Tunnel Projects | UG CABLE

To meet the growing demand in urban infrastructure, UG CABLE has launched a new series of fire-resistant cables compliant with IEC 60331 and EN 50200 standards. These cables ensure circuit

Contact Us

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