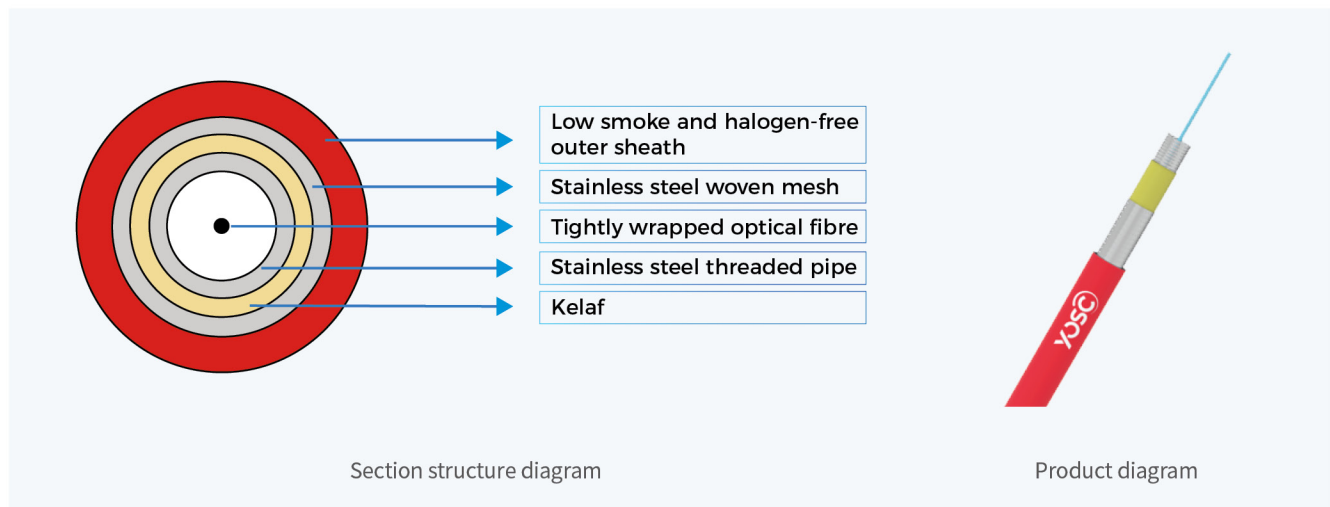


Armored Fibre Optic Cable for Distributed Temperature Sensing System

The temperature sensing optical cable is placed inside a stainless steel threaded tube, with Kevlar tightly wrapped and stainless steel wire tightly woven outside the threaded tube for reinforcement; The outer layer is protected by a flame-retardant LSZH sheath. The sensing fibre is a multimode fibre that meets international standards and has excellent Raman scattering characteristics.

+ Product mix

Structure



+ Features

- Fibre optic cable armor protection with excellent mechanical properties
- Small outer diameter, simple structure, fast thermal penetration, fast temperature measurement response
- Flame retardant LSZH outer sheath, good electrical insulation performance
- Fibre optic cables are soft and have good toughness, making them easy to lay out during construction

+ Applications

- Temperature measurement of urban underground pipe gallery
- Temperature measurement of cables and busbars

Parameters

Items	Description
Size and appearance	Cable diameter 3.0mm±0.1mm
Material	Fibre optic 0.6mm tightly wrapped optical fibre
	Stainless steel spiral tube SUS200CU
	Reinforcement Aramid
	Stainless steel weaving SUS304
	Outer sheath Flame retardant LSZH
Fibre optic	Fibre type GI50/62.5 multimode fibre
	Number of fibre optic cores 1
Optical characteristics	Attenuation ≤3.0dB/km(850nm)
	≤1.0dB/km(1300nm)
Mechanical properties	Allow for tensile strength Long term 200N Short term 400N
	Allow squash Force Long term 2000N Short term 3000N
	Minimum bending radius Static 30mm Dynamic 60mm
Environmental characteristics	Applicable temperature -40~85°C
Weight	Net weight of optical cable 18kg/km
Printing	ContePnt Customizable