

Linear Heat Detection Fiber Optic Cable with Armoured Tube



Heat resisting armored temperature sensing FO cable is composed by the built-in 2 core sensing cable of the spiral stainless steel soft pipe, Aramid yarn strengthening member, stainless steel braiding, and LSZH outer sheath which meets flame retardant environmental protection requirements and has a temperature range of -40°C~+85°C. This kind of cable is widely used in distributed temperature sensing systems where fire safety is at a high priority.

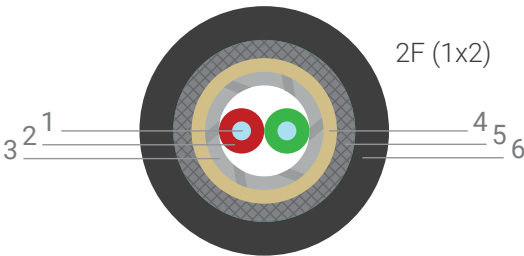


Application

DTS (Temperature Measurement System)

Properties

- High tensile, high compressive, bending resistance and mechanical properties to ensure excellent optical characteristics of the cable.
- Simple structure, small outer diameter, excellent thermal conductivity, to improve the performance of the entire system.
- The use of flame retardant environmental protection materials, can meet the requirements of fire rating.
- The cable is soft and tough, which is convenient for installation and maintenance in the future.



Cable Construction

1	Fiber	62.5/125μ, multi-mode fiber
2	Buffer	Tight (600μ)
3	Steel Tube	SUS spring tube
4	Strength Member	Aramid Yarn
5	Armoured Material	Braided Steel
6	Outer Jacket	LSZH

Technical Details

Test	Conditions	Specified Value (According to Core Count)
		2 Fibers
Tensile Force	Short Term	400 N
	Long Term	200 N
Crush Resistance	Short Term	3000 N
	Long Term	2000 N
Bending Radius	Dynamic	33 mm
	Static	66 mm
Temperature	Short Term	-40 to +120 °C
	Long Term	-40 to +85 °C
Cable Loss	MM @850nm	≤ 3.5 db/km
	MM @1300nm	≤ 1.5 db/km
Cable Diameter	-	3.3 mm ±0.1
Cable Weight	-	21 kg / km