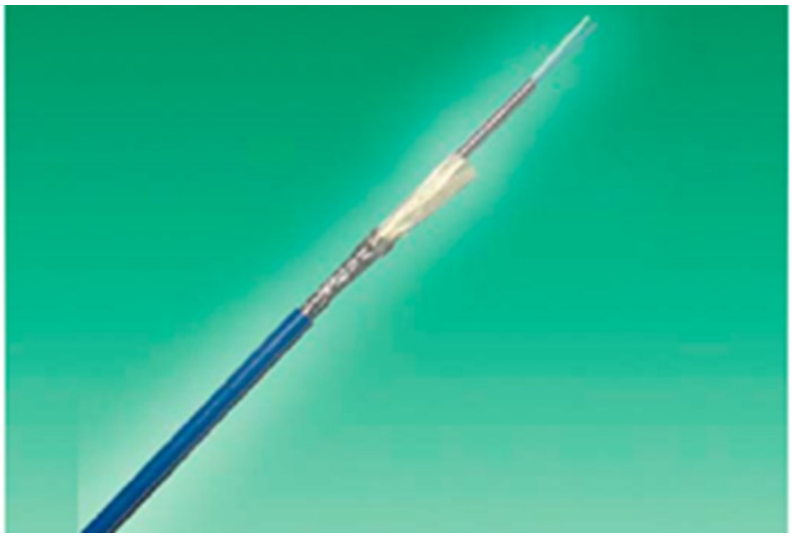
Fibre Optic - Linear Heat Detection Sensing Cable

PATOL
FIRE DETECTION SOLUTIONS

FibreSense AT (Armoured Tube)



Armoured Tube cable is widely used in a variety of linear heat applications and is optimised to work with Patol's range of DTS systems

The FibreSense Armoured Tube (AT) Sensing Cable is a Flame Retardant Non-Corrosive (FRNC) and Low Smoke Zero Halogen (LS0H) Sensing Cable which is widely used in applications such as Linear Heat Detection, and used in a wide variety of scenarios and is optimised to work with Patol Ltd's range of Distributed Temperature Sensing (DTS) Systems.

The FibreSense AT Cable is designed to be lightweight and flexible making it easy to handle and install and with a very fast thermal response time. In addition, the dual stainless steel and Kevlar protective layers provide excellent mechanical, tensile and pressure resistance (IP68 waterproof rating).

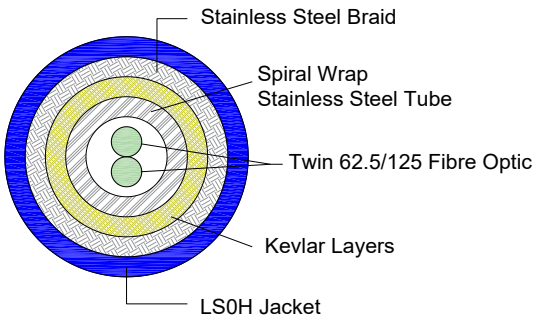
FIBRESENSE
FIBRE OPTIC LINEAR HEAT DETECTION

Fibre Optic - Linear Heat Detection Sensing Cable

Specification

Fibre Type	Multimode, Grade Index, 62.5/125 acrylate coated multimode fibre as standard (50/125 fibre available on request)	
No. of Cores	1 or 2 fibres as standard	
Effective Refractive Index	1.496 (850nm), 1.491 (1300nm)	
Attenuation	<2.8dB/Km@850nm, <0.8dB/Km@1300nm	
Bandwidth	>600MHz-km	
Material Construction	1. Outer Protection 2. Mechanical Protection 3. Longitudinal Strength 4. Pressure Resistance	Polyolefin LSZH FRNC Stainless Steel braid (304) Kevlar St. Steel spring tube (304)
Weight	21kg/km	
Outer Diameter	LS0H sheath: 3.3 mm +/- 0.2mm (High strength version 4.0mm*) Stainless steel tube 2.1 mm	
IP Rating	IP68	
Tensile Resistance	Long Term: 200N (High strength 500N*)	Short Term: 300N (High strength 1000N*)
Pressure Resistance	Long Term: 300N	Short Term: 400N
Permitted Bend Radius	Static: 33mm	Dynamic: 66mm
Temperature Range	Long Term: -40°C to 85°C	Short Term: -40°C to 150°C
Standards and Certifications	RoHS VDS EN54 part 22 IEC 60332-1-2:2004 – Testing cable under fire conditions IEC 60794-1-2:2003 / IEC 60793 (GB/T 7424.2-2008) – FO Spec & Test Procedures IEC 60794-2-11 (YD/T 1258.3:) – Detailed spec for simplex and duplex cables EN 187000-1994/GB16280-2014: Infrared Resistance: ANSI/UL 1581-2015 Corrosion resistance testing include SO2 (GB16280), high salt levels (GB16280)	
Packaging	Wooden Reel as standard	
Reel Length	Min. 1km / Max. reel length 2.5km as standard Longer reel lengths available on request but will incur additional cost and lead times	

* High strength version of cable incorporates additional Kevlar strength members which increases tensile strength to 1000N



Ordering Information

Description	Part Number
FibreSense Line Steel Tube	103-625-AT

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