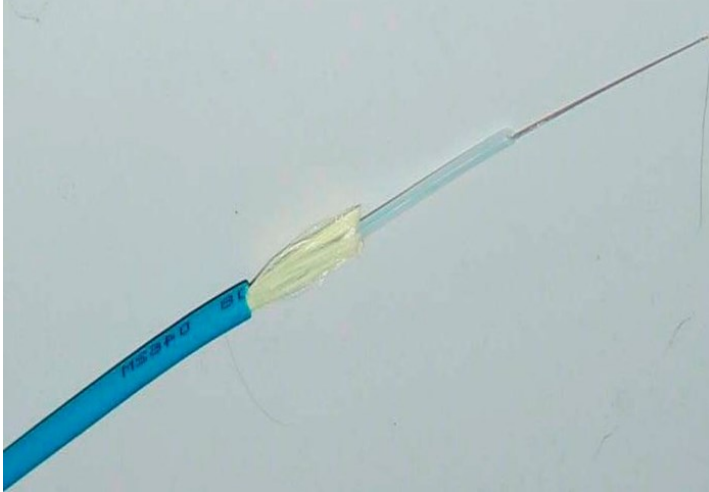


# Fibre Optic - Linear Heat Detection Sensing Cable

## FibreSense TT (Thermoplastic Tube)



Thermoplastic tube cable is typically deployed in applications requiring a non-metal cable, for example where there is a high level of electromagnetic (EMC) activity

The FibreSense Thermoplastic Tube (TT) Sensing Cable is a Flame Retardant Non-Corrosive (FRNC) and Low Smoke Zero Halogen (LSOH) 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.

This cable is typically deployed in areas where a Non-metal Cable is required (e.g. high levels of EMC activity)

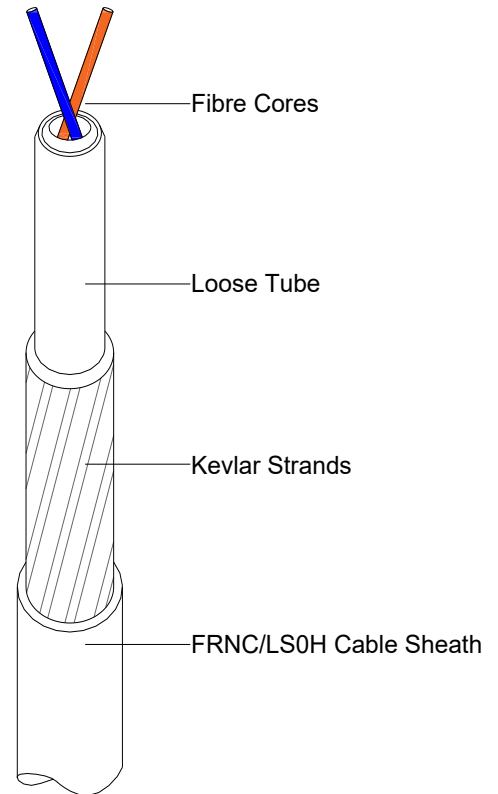
The central structure of the cable consists of a gel filled thermoplastic loose tube construction. A Kevlar strength layer surrounds the loose tube. The outer jacket of flexible thermoplastic ensures the cable is protected and completely electrically insulated.

# Fibre Optic - Linear Heat Detection Sensing Cable

## Specification

<b>Fibre Type</b>	Multimode, Grade Index, 62.5/125 acrylate coated multimode fibre as standard (50/125 fibre available on request)	
<b>Number of Cores</b>	2 fibres as standard	
<b>Effective Refractive Index</b>	1.496 (850nm), 1.491 (1300nm)	
<b>Attenuation</b>	<3.0dB/Km@850nm, <1.0dB/Km@1300nm	
<b>Bandwidth</b>	>600MHz-km	
<b>Material Construction</b>	1.Outer Protection	Polyolefin LS0H FRNC
	2.Longitudinal Strength	Kevlar strands
	3.Pressure Resistance	Thermoplastic gel filled tube
<b>Weight</b>	30kg/km	
<b>Outer Diameter</b>	LS0H sheath: 5.0 mm +/- 0.2mm (High strength version 5.0mm*)	
<b>IP Rating</b>	IP68	
<b>Tensile Resistance</b>	Long Term: 400N (High strength 500N*)	Short Term: 800N (High strength 1000N*)
<b>Pressure Resistance</b>	Long Term: 300N/100mm	Short Term: 400N/100mm
<b>Permitted Bend Radius</b>	Static: 50mm	Dynamic: 100mm
<b>Temperature Range</b>	Long Term: -40°C to 85°C	Short Term: -40°C to 150°C
<b>Standards and Certifications</b>	RoHS (GB/T 7424.2-2008) – FO Spec & Test Procedures EN 187000-1994 / GB16280-2014	
<b>Packaging</b>	Wooden reel as standard	
<b>Reel Length</b>	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 layer which increases tensile strength to 1000N



## Ordering Information

Description	Part Number
FibreSense Line	103-625-TT
Thermoplastic Tube	