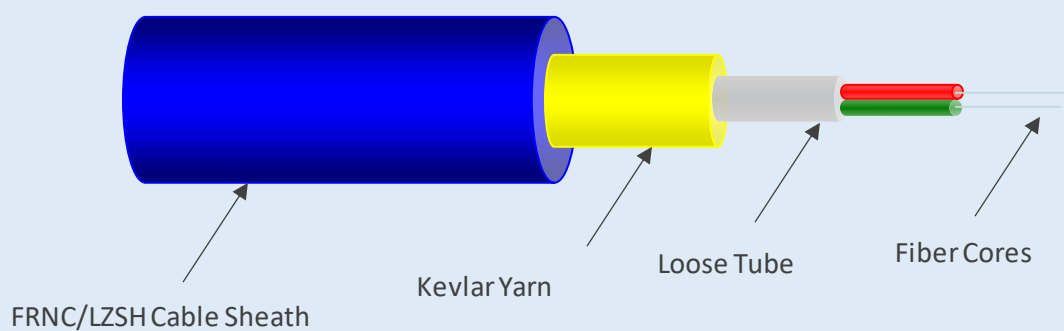
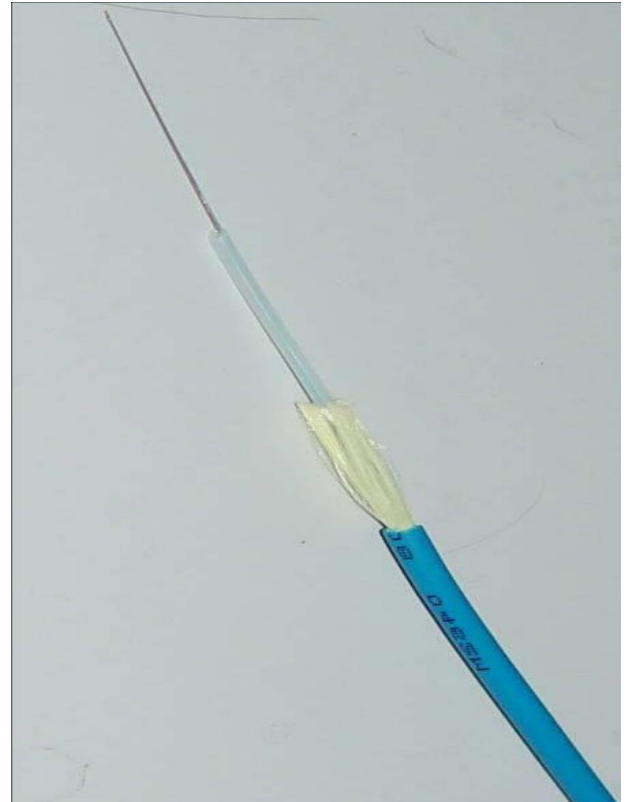


FireFiber TT (Thermoplastic Tube) Sensing Cable

The FireFiber Thermoplastic Tube (TT) sensing cable is a Flame Retardant Non-Corrosive (FRNC) and Low Smoke Zero Halogen (LSZH) sensing cable which is widely used in application such as Linear Heat Detection, and used in a wide variety of scenarios and is optimised to work with Bandweaver'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 member of the cable consists of a gel filled thermoplastic loose tube construction. Kevlar (aramid) strength members surround the loose tube. The outer jacket of flexible thermoplastic ensure the cable is protected and completely electrically insulated.



Technical Information

Fiber Type	Multi mode, Graded Index, 62.5/125 acrylate coated multimode fiber as standard (50/125 fiber also available on request)	
Number of Cores	2 fibers as standard	
Effective Refractive Index	1.496 (850nm), 1.491 (1300nm)	
Attenuation	<3.0dB/Km@850nm, <1.0dB/Km@1300nm	
Bandwidth	>600MHz-km	
Material Construction	1 Outer Protection 2 Longitudinal Strength member 3 Pressure resistance	Polyolefin LSZH FRNC Kevlar/aramid strands Thermoplastic gel filled tube
Weight	30 kg/km	
Outer Diameter	LSZH sheath: 5.0 mm +/- 0.2mm (High strength version 5.0mm*)	
IP Rating	IP68	
Tensile Resistance	Long Term: 400N (High strength 500N*)	Short Term: 800N (High strength 1000N*)
Pressure Resistance	Long Term: 300N/100mm	Short Term: 1000N/100mm
Permitted Bend Radius	Static: 50mm	Dynamic: 100mm
Temperature Range	Long Term: -40°C to 85°C	Short Term: -40°C to 750°C (120 minutes according to IEC60331-25 conditions)
Standards and Certifications	RoHS (GB/T 7424.2-2008) – FO spec & test procedures EN 187000-1994 /GB16280-2014 IEC60754-1:1994 & IEC60754-2:1991 (JB/T 10707-2007) – Low smoke, zero halogen testing IEC61304-2:1997 (GB/T 17651.2) – Measurement of smoke density	
Packaging	Wooden reel as standard	
Reel Length	Minimum 1km / Maximum reel length 2km as standard Longer reel lengths available on request but will incur additional cost and lead times	
Part number	CAB-MM625-TT-02	(Internal ref: SCTKXH-2A1b-5.0-B)

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