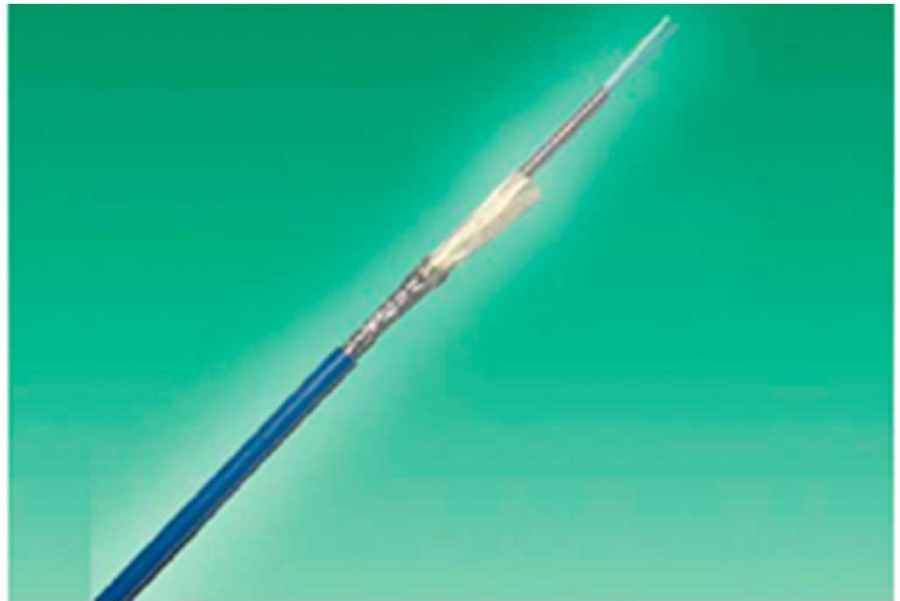
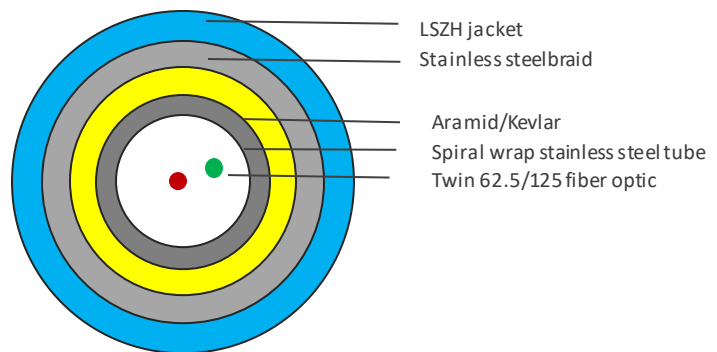


## FireFiber AT (Armoured Tube) – Sensing Cable

The FireFiber Armoured Tube (AT) sensing cable is a Flame Retardant Non-Corrosive (FRNC) and Low Smoke Zero Halogen (LSZH) 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 Bandweaver's range of Distributed Temperature Sensing (DTS) systems.



The 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 waterproofing). The steel spring tube construction provides both effective crush resistance and also flexibility which reduces probability of kinking.



## Technical Information

<b>Fiber Type</b>	Multimode, Graded Index, 62.5/125 acrylate coated multimode fiber as standard - 0.6mm OD	
<b>Number of Cores</b>	2 fibers 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>	62.5/125: 500 Mhz @1300nm, 200Mhz @ 850nm	
<b>Material Construction</b>	1 Outer Protection 2 Mechanical Protection 3 Longitudinal Strength member 4 Pressure resistance	Polyolefin LSZH FRNC* Stainless steel braid (SUS304) Kevlar/aramid yarn Stainless steel spring tube (SUS200CU)
<b>Weight</b>	22kg/km	
<b>Outer Diameter</b>	LSZH sheath: 3.3 mm +/- 0.2mm Stainless steel tube 2.1mm	
<b>IP Rating</b>	IP68	
<b>Tensile Resistance</b>	Long Term: 200N (High strength 600N**)	Short Term: 300N (High strength 1500N**)
<b>Pressure Resistance</b>	Long Term: 2000N/10cm	Short Term: 4000N/10cm
<b>Permitted Bend Radius</b>	Static: 33mm	Dynamic: 66mm
<b>Temperature Range</b>	Long Term: -40°C to 85°C	Short Term: -40°C to 750°C (120 minutes according to IEC60331-25 conditions)
<b>Standards and Certifications</b>	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 UV Resistance: ASTM G154-2016 (black outersheath) Corrosion resistance testing: SO2 (GB16280), high salt levels (GB16280) 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	
<b>Packaging</b>	Wooden reel as standard	
<b>Reel Length</b>	Minimum 1km / Maximum reel length 2km as standard Longer reel lengths available on request but will incur additional cost and lead times	
<b>Shipping weight and dimensions</b>	1km reel: 26kg / 0.3 x 0.38 x 0.3 m (0.034 m <sup>3</sup> ) 2km reel: 45kg / 0.4 x 0.38 x 0.4 m (0.061 m <sup>3</sup> )	
<b>Part Number</b>	CAB-MM625-AT-02 <i>(Internal ref: SCJKBH-2A1b-3.3-B)</i>	

\* Outersheath available in other materials (e.g. FEP for greater chemical resistance)

\*\*See separate datasheet for high strength version and survival cable