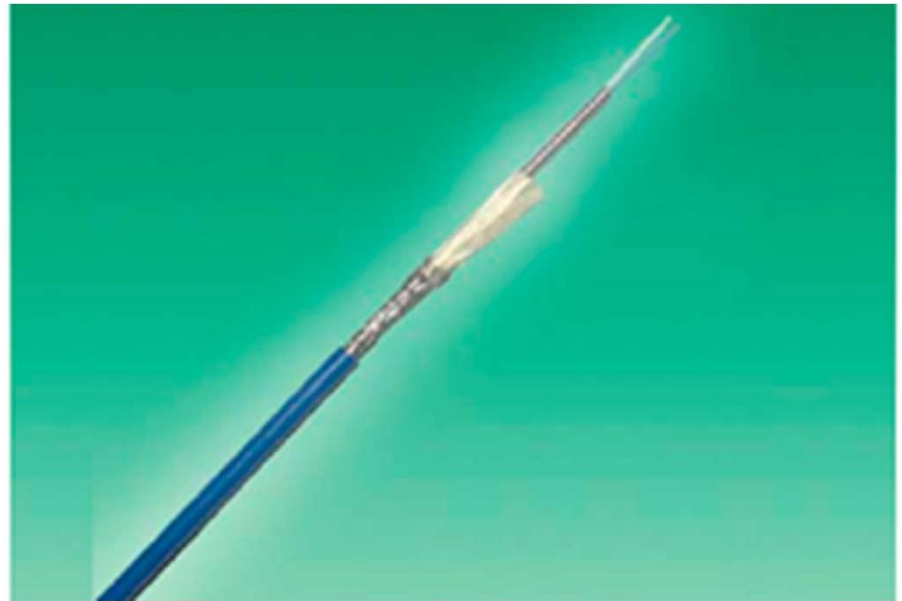
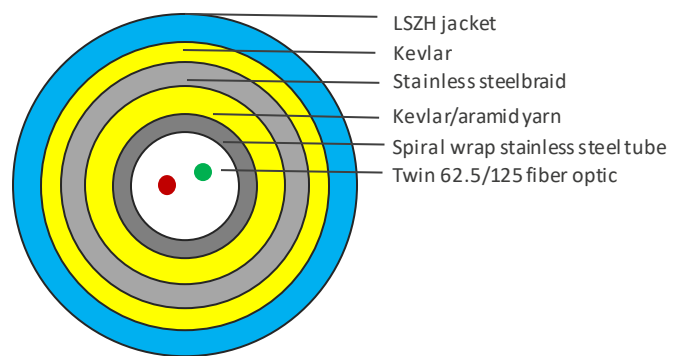


# FireFiber AT-HS (Armoured Tube) Sensing Cable

The FireFiber armoured tube (AT) high strength 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 (LHD) 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/aramid yarn protective layers provide excellent mechanical, tensile and pressure resistance (IP68 waterproofing). It is a very similar construction to the standard FireFiber AT but with an additional layer of Kevlar.



## Technical Information

<b>Fiber Type</b>	Multi mode, Graded Index, 62.5/125 acrylate coated multimode fiber as standard	
<b>Number of Cores</b>	2 fibers as standard	
<b>Effective Refractive Index</b>	1.496 (850nm), 1.491 (1300nm)	
<b>Attenuation</b>	<2.8dB/Km@850nm, <0.8dB/Km@1300nm	
<b>Bandwidth</b>	50/125: 500Mhz @ 1300nm/850nm 62.5/125: 500 Mhz @1300nm, 200Mhz @ 850nm	
<b>Material Construction</b>	1 Outer protection 2 Longitudinal strength member 3 Mechanical protection 4 Longitudinal Strength member 5 Pressure resistance	Polyolefin LSZH FRNC* Kevlar/aramid yarn Stainless steel braid (SUS200CU) Kevlar Stainless steel spring tube (SUS304)
<b>Weight</b>	27kg/km	
<b>Outer Diameter</b>	LSZH sheath: 4.0 mm +/- 0.2mm Stainless steel tube 2.1 mm	
<b>IP Rating</b>	IP68	
<b>Tensile Resistance</b>	Long Term: 600N	Short Term: 1500N
<b>Pressure Resistance</b>	Long Term: 2000N/10cm	Short Term: 5000N/10cm
<b>Permitted Bend Radius</b>	Static: 40 mm	Dynamic: 80mm
<b>Temperature Range</b>	Long Term: -40°C to 85°C	Short Term: -40°C to 75°C <i>(120 minutes according to IEC60331-25 conditions)</i>
<b>Standards and Certifications</b>	RoHS 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)	
<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>Part number</b>	CAB-MM625-AT-HS-02 <i>(internal ref: SCJKBH-2A1b-4.0-B)</i>	

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