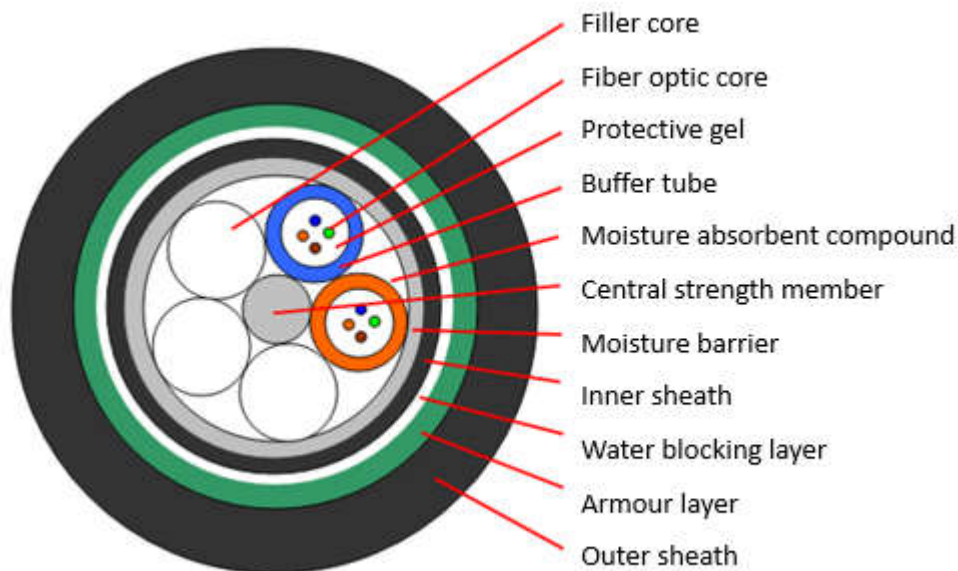




## CovertLine™ - Distributed Acoustic Sensing Cable

The CovertLine™ sensing cable is optimised to work with Bandweaver's Horizon Distributed Acoustic Sensing (DAS) systems. Optimised for direct burial applications such as pipeline, perimeter and border monitoring where a buried approach is optimal. It has been designed to achieve the balance to provide sufficient robustness to work in a harsh field environment but to provide the sensitivity to detect intrusion events.



At standard the CovertLine™ sensing cable contains standard single mode fiber based on the G.652D standard which is the sensing fiber utilised by Bandweaver's DAS systems. On request additional multi-mode fiber optic cores can be included which are also suitable for use with Bandweaver's Distributed Temperature Sensing System (DTS). Typical sensing applications include:

- Pipeline protection – both intrusion detection and leak detection
- Buried power cable monitoring – fault detection and protection from construction damage
- Covert buried perimeter intrusion detection
- Border security
- Smart city and transport solutions



## Specifications

	No. of cores	8
	Fiber type	G.652D
Central Strength Member	Material	Steel Wire
	Diameter ( $\pm 0.05$ ) mm	1.4
Loose Tube	Material	PBT
	Diameter ( $\pm 0.06$ ) mm	1.72
	Thickness ( $\pm 0.03$ ) mm	0.30
	The Max.Core NO./Tube	4
Filler Core	Material	LDPE
	Diameter ( $\pm 0.06$ ) mm	1.7
	NO.	3
Moisture Barrier	Material	Polymer Coated Aluminum Tape
	Thickness ( $\pm 0.03$ ) mm	0.20
Inner Sheath	Material	MDPE
	Thickness ( $\pm 0.1$ ) mm	0.9
Armoring	Material	Polymer Coated Steel Tape
	Thickness ( $\pm 0.05$ ) mm	0.25
Water Blocking Layer	Material	Filling Compound
Outer Sheath	Material	MDPE
	Thickness ( $\pm 0.2$ ) mm	1.8
	Cable Diameter ( $\pm 0.2$ ) mm	12.3
	Cable Weight ( $\pm 10$ ) kg/km	152
Attenuation	1310nm	0.35dB/ km
	1550nm	0.21dB/ km
Min. bending radius	Without Tension	12.5 $\times$ O.D
	Under Maximum Tension	25 $\times$ O.D
Temperature range (°C)	Installation	-20~+60 °C
	Transportation & Storage	-40~+70 °C
	Operation	-40~+70 °C

Standards

- IEC 794-1-2-E1 - Tensile Strength
- IEC 60794-1-2-E3 Crush Test
- IEC 60794-1-2-E4 – Impact Test
- YD/T901-2001-4.4.4.1 – Temperature Cycling