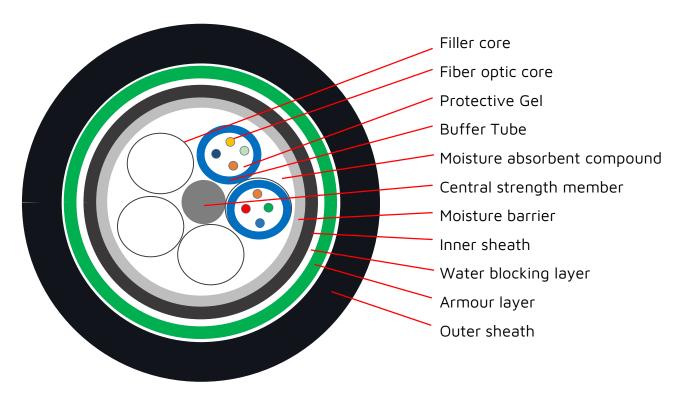


DAS Cable CovertLine Buried Cable

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 multimode 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



PHYSICAL	
Number of fibers	8 as standard
Outer Diameter	12.3 (±0.2) mm
Colour	Black
Standard reel length	2000m Contact Bandweaver representative for other reel lengths
MATERIAL	
Fiber	250 micron acrylate
Central strength member	Steel wire Diameter 1.4mm (±0.05)
Loose tube	PBT Diameter 1.7mm (±0.06) 0.3 mm thickness (max 4 fibers/ core)
Filler core	3 LDPE members 1.7 mm diameter (±0.06)
Moisture barrier	Polymer coated aluminium tape 0.2mm thickness (±0.03)
Inner sheath	MDPE 0.9mm thickness (±0.1)
Armour	Polymer coated steel tape 2mm thickness
Water blocking layer	Filling compound
Outer sheath	MDPE 1.8mm thickness (±0.2)
FIBER OPTIC	
Fiber Type	9/125 (G.652D or similar)
Attenuation	0.21 dB/km (@ 1550 nm)
MECHANICAL PROPERTIES	
MinimumBend Radius	
Static	12.5 x Diameter
Dynamic	25 x Diameter
Tensile Strength	Short Term 3000N Long Term 1000N
Crush Resistance	Short Term 3000 N/100m Long Term 1000 N/100m
Temperature operating range	Installation -20 to 60 °C Transportation & storage -40 to 70 °C Operation -40 to 70 °C
Weight	152 kg/km (±10)
Packing Material	Wood shaft
STANDARDS & APPROVALS	
	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
Part Number	4 fiber: CAB-SM9-BUR-04 (internal ref: GYXTA 53) 8 fiber: CAB-SM9-BUR-08 (internal ref: GYXTW) 12 fiber: CAB-SM9-BUR-12 (internal ref: GYXTW)