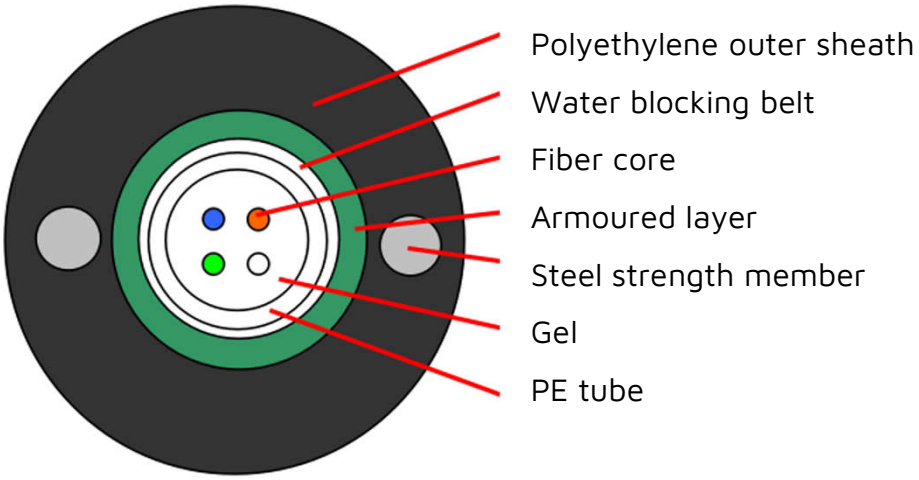
Bandweaver

DATASHEET

DAS Cable
FenceLine Cable

The Bandweaver FenceLine cable is optimised for fence or wall mounted Perimeter Intrusion Detection Systems (PIDS) applications. The rugged but lightweight design provides the optimum balance between mechanical protection and prevention of fluid ingress, while maintaining flexibility and ease of installation.

With a protective tube construction for water ingress protection and a steel protective layer for impact resistance and strength members to enhance longitudinal strength. The cable contains single mode sensing fibers which are optimised for use with Bandweaver DAS systems.



Features

- Gel filled tube providing waterproof protection to fibers and also coupling vibration to increase sensitivity
- Small outer diameter, simple structure flexible yet robust
- PE outer sheath, provides additional waterproof layer, UV resistant, anti-aging with excellent electrical insulation performance.
- Stainless steel strength members for tensile and lateral compression protection
- Design life of greater than 25 years

Technical Specifications

PHYSICAL			
Number of fibers	2 to 8	10-12	14-24
Outer Diameter	7.7 mm	7.9 mm	8.5 mm
Colour	Black		
Standard reel length	2000m Contact Bandweaver representative for other reel lengths		
MATERIAL			
Fiber	250 micron acrylate		
Tube filling	Hydrogen absorbing gel		
Tube material	Steel PE composite 0.2 mm thickness		
Reinforcement components	2 steel rods 0.8 mm thickness		
Outer sheath	MDPE 2mm thickness		
Tube dimensions **OD** **Thickness**	 1.8 mm 0.28 mm	 2.0 mm 0.3 mm	 2.8 mm 0.4 mm
FIBER OPTIC			
Fiber Type	9/125 (G.652 or similar)		
Attenuation	0.21 dB/km (@ 1550 nm)		
MECHANICAL PROPERTIES			
MinimumBend Radius			
Static	10 x Diameter		
Dynamic	20 x Diameter		
Tensile Strength	Short Term 1500N Long Term 600N		
Crush Resistance	Short Term 1000 N/100m Long Term 300 N/100m		
Temperature operating range	-40 to 70 deg. C		
Weight	49 kg/km	51 kg/km	59 kg/km
Packing Material	Wood shaft		
STANDARDS & APPROVALS			
	Tensile IEC7941-1-E1 Abrasion IEC794-1-E3 Crush Resistance IEC794-1-E3 Impact Resistance IEC794-1-E4 Bending IEC794-1-E6 Torsion IEC794-1-E7 Kink IEC794-1-E10 Bending IEC794-1-E11 Flexing IEC794-1-E2		
Part Number	*4 fiber: CAB-SM9-FEN-04* *8 fiber: CAB-SM9-FEN-08* *12 fiber: CAB-SM9-FEN-12* *16 fiber: CAB-SM9-FEN-16*	*(internal ref: GYXTW)* *(internal ref: GYXTW)* *(internal ref: GYXTW)* *(internal ref: GYXTW)*	