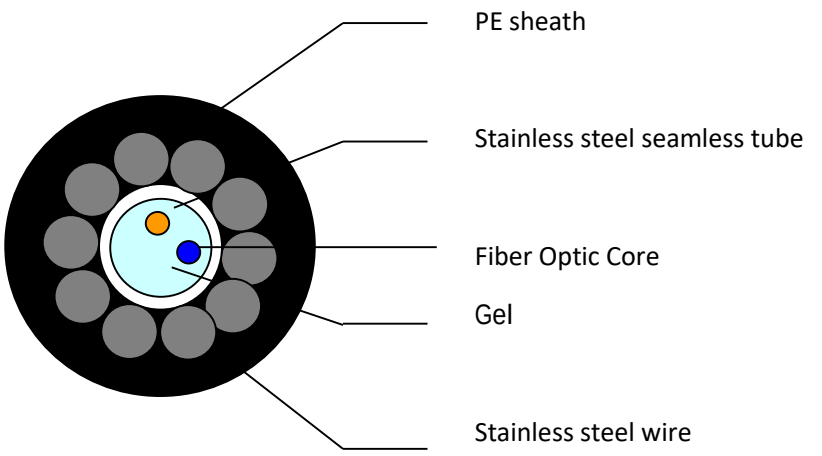
Bandweaver

DATASHEET

DTS Cable
Borehole Monitoring Cable

The Bandweaver borehole monitoring cable provides the optimum balance between mechanical protection and prevention of fluid ingress, while maintaining flexibility and ease of installation.

With a stainless steel tube construction for water ingress protection and stainless steel wire strands for both impact resistance and longitudinal strength. The cable contains multimode sensing fibers which are optimised for use with Bandweaver DTS systems.



Features

- Waterproof, rugged, shockproof design
- Small outer diameter, simple structure, rapid thermal response
- PE outer sheath, provides additional waterproof layer, UV resistant, anti-aging with excellent electrical insulation performance.
- Steel wire stranding providing tensile strength and flexibility. Often used in oilfield wireline operations
- Stainless steel tube for ultimate protective layer for the sensing fibers

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SPECIFICATIONS	
Outer Diameter	4.5mm +/- 0.2mm
Standard Length	2000m Longer lengths available on request
Colour	Black
MATERIALS	
Tube construction	Stainless Steel 304 Water blocking gel
Strength members	Stainless steel 201 strands
Spatial Resolution	Polyethylene outer sheath
OPTICAL	
Fiber type	Multimode 62.5 / 125 graded index
Number of cores	2
Attenuation	< 3.0 dB / km (850 nm) < 1.0 dB / km (1300 nm)
Refractive Index	1.496 (850 nm) 1.491 (1300 nm)
MECHANICAL & ENVIRONMENTAL PROPERTIES	
Tensile Strength	Long term 1500 N Short Term 3000 N
Crush Resistance	Long term 4000 N / 10cm Short term 8000 N /10cm
Bending Radius	Static = 15 x D (D= cable diameter) Dynamic = 25 x D
Operating Temperature	-40 °C to 85 °C
OTHER	
Weight	40 kg / km
Standards	IEC 60794-1-2:2003 (GB/T 7424.2-2008) – Optical fiber specifications and test procedures IEC 60794-2-11 (YD/T 1258.3:) – Detailed specification for simplex and duplex cablesGB16280-2014:
Packing Material	Wooden reel