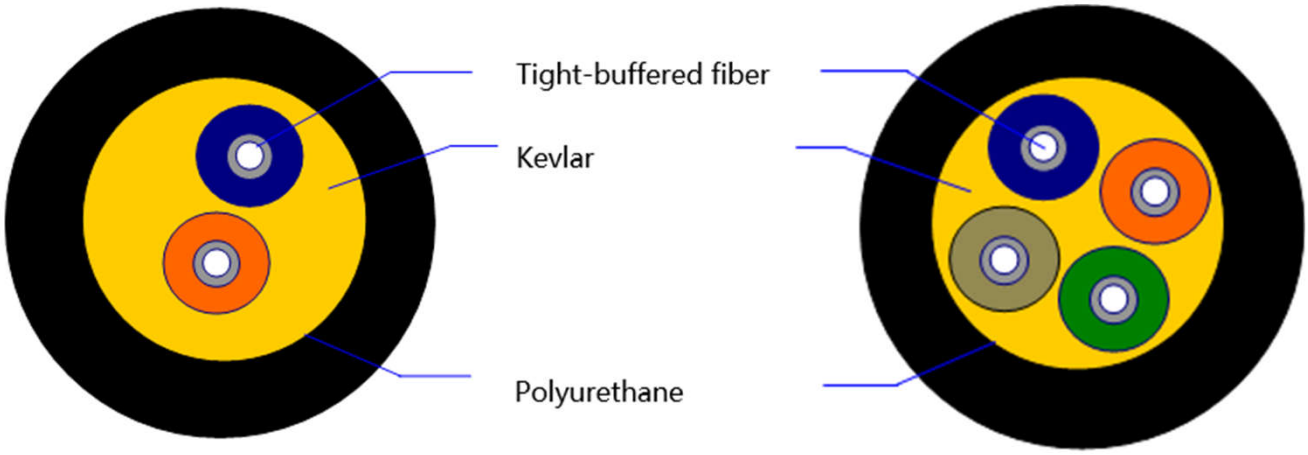
Bandweaver

DATASHEET

DTS & DAS Cable
Tactical Deployment Cable

Based on military design, the Bandweaver Tactical Deployment cable is an extremely versatile, flexible, high-strength cable which can be used in multiple applications.

Based on a tight buffered fiber configuration with Kevlar stranding and a PU outer layer this cable is designed to withstand impact from heavy vehicles yet be easily manageable to deploy and redeploy in the field. The cable can be configured with singlemode and/or multimode sensing fibers which are optimised for use with Bandweaver DAS and DTS systems.



Features

- Flameproof, water resistant, rugged, shockproof design
- Tight buffered Hytrel layer, surrounded by Kevlar/aramid provides excellent transmission of vibration while providing excellent protection. Can even be used for direct burial
- Small outer diameter, simple structure, rapid thermal response
- PE outer sheath, provides additional waterproof layer, UV resistant, anti-aging with excellent electrical insulation performance.
- Applications include: Military applications, conveyor belt monitoring, dam monitoring, industrial linear heat detection, perimeter intrusion detections systems (PIDS)

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Technical Information

SPECIFICATIONS		
Outer Diameter	2 Fiber: 4.0mm 4 Fiber: 5.0mm (+/- 0.2mm)	
Standard Length	2000m Longer lengths available on request	
Colour	Black	
MATERIALS		
Fiber Optic Protection	900 micron, Hytrel tight buffered	
Strength members	Kevlar/ aramid yarn	
Spatial Resolution	Polyether flame retardant polyurethane sheath	
OPTICAL		
Fiber type	Multimode or Single Mode available	
Number of cores	2 or 4	
Attenuation	Multimode < 3.0 dB / km (850 nm) < 1.0 dB / km (1300 nm)	Single Mode < 0..4 dB / km (1310nm) < 0.3 dB / km (1550nm)
MECHANICAL & ENVIRONMENTAL PROPERTIES		
Tensile Strength	Long term 600 N Short Term 1500 N	
Crush Resistance	Long term 6000 N / 10cm Short term 2000 N /10cm	
Bending Radius	Static = 10 x D (D= cable diameter) Dynamic = 20 x D	
Operating Temperature	-50 °C to 85 °C	
OTHER		
Weight	2 Fiber: 14 kg / km 4 Fiber: 22 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 1258.4) – GJB 1428B-2009 GJB 5655-2006 (partial)	
Packing Material	Wooden reel	
Part number	CAB-SM9-TAC-02 (single mode 2 cores) CAB-MM625-TAC-02 (multi mode 62.5 -2 cores) CAB-MM625/SM9-TAC-02/02 (mixed 2 x SM 2 x MM 62.5)	*(Internal ref: GMJKU-2B6-4.0-BL)* *(internal ref: GMJKU-2A1b-4.0-BL)* *(internal ref: GMJKU-(2B6+2A1b)-5.0-BL)*