

Disposable Optical Fiber Spool

Land version



Description:

Fiber optic tether can be used to remotely control different sort of vehicles bringing back video signal or other sensor information as well as transmitting command.

This disposable spool offers in a very compact and light package a precision wound untwisted optical fiber for long distance pay out avoiding heavy bulky and expensive cable tether.

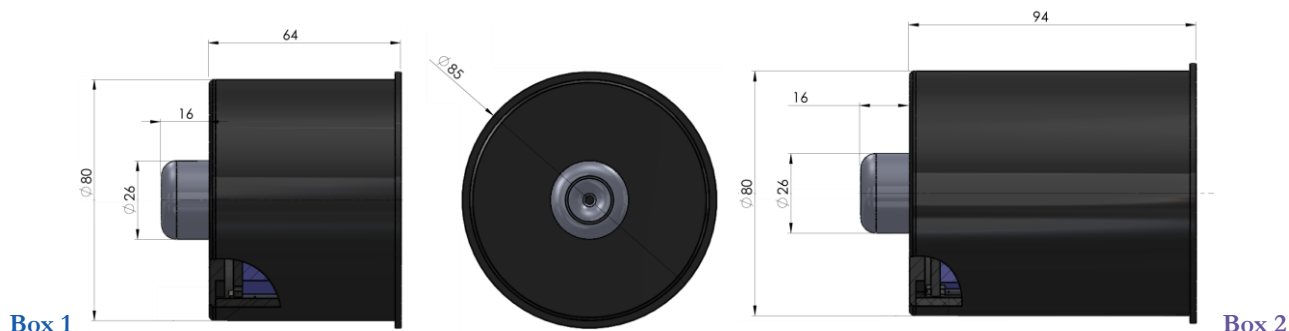
The deployable side of the spool is equipped with a connector directly mounted on the extruded overcoating fiber to be connected to the control equipment. The opposite fiber end is pigtailed with a 1.8mm standard jacket to be connected to the vehicle.

After deployment, no possibility to re-used the fiber.



Technical Specifications:

Box dimensions	Box 1 : ø 85mm, height 80mm ; Box 2 : ø 85mm, height 110mm	
Length	Box 1 : max. 500m	
	Box 2 : max. 1000m	
Output 1	Connector on extruded overcoating fiber	
Output 2	pigtailed with jacket 1.8 mm (0.3 to 1 m) and connectorized	
Outside ø of the enforced fiber	350µm	
Fiber color	grey	
Tensile strength	> 34N	
Breaking strength	60N	
Deployment force	< 0,05N	
Singlemode version	1310/1550nm	
Bend Radius	< 5mm	
Insertion Loss (without connector)	1,2 dB/km @ 1310nm	
	3,5 dB/km @ 1550nm	
Multimode version	GI50/125-OM2-BI	GI62,5/125
Bend Radius	25mm	25 mm
Insertion Loss (without connector)	4 dB/km @ 850nm	4 dB/km @ 850nm
	2 dB/km @ 1300nm	2 dB/km @ 1300nm



Applications:

- Unmanned Ground Vehicles (UGV)
- Video transmission
- Demining Robot