Fiber SenSys
AN OPTEX GROUP COMPANY

SC-4D Fiber-Optic Sensor Cable

Specification Sheet

When used with Fiber SenSys Fiber Defender® Alarm Processing Units (APUs), **SC-4D** duplex sensor cable detects potential intruders through the use of fiber-optic technology that senses cable movement, interference, or tampering. This proprietary cable is designed to monitor the optical signal properties and detect the effects of movement, vibration, and pressure. Together with an APU, this sensor cable forms a complete intrusion detection system. Fiber SenSys sensor cables are immune to electromagnetic interference, radio frequency interference, and lightning. Rugged, durable construction ensures the cable survives exposure to the elements and weather conditions making it ideal for harsh environments.

For optimal performance, the **SC-4D** sensor cable is typically installed directly on the fence fabric without conduit. With similar specifications to our **SC-4** simplex sensor cables, the duplex version provides the same superior performance without the need for deploying a loopback. Fiber SenSys fiber-optic sensor cables provide uniform and consistent sensitivity throughout the entire length.

PARAMETER		SPECIFICATIONS SC-4D
Cable type		Proprietary multi-mode optical fiber
Cable weight **Cable diameter** **Jacket color**		14 kg/km 4mm Gray
Operational data:	**Impact resistance** **Crush resistance** **Operating temperature** **Maximum pull** **Minimum bend**	1000 impacts 750 N/cm -40°C to +85°C Tensile Load 300 N (67 lbs.) Radius 4 cm (1.6 inches)
Installation data:	**Maximum pull** **Minimum bend**	Tensile Load 500 N (112 lbs.) Radius 8 cm (3.2 inches)
Performance data:	**Cable sensitivity**	Uniformly consistent over the entire length

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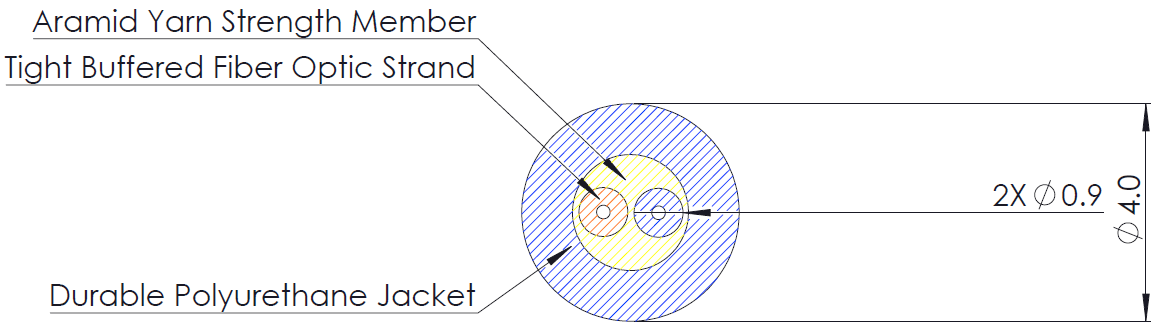
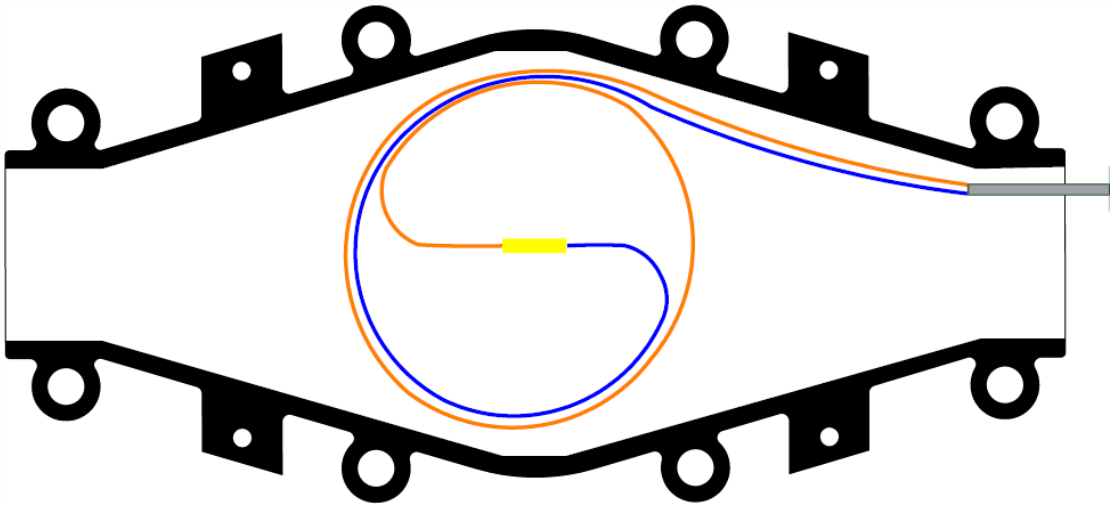
FIBER-OPTIC SENSOR CABLE CROSS SECTION END VIEW



SC-4D



Note: Drawings are not to scale

End of duplex cable using sensor splice enclosure

When using duplex sensor cable with Fiber SenSys 300 Series products, it is necessary to connect the two cable ends together at the end of the zone. The above examples using a sensor splice enclosure (PN 974-43557) demonstrate this. The ends can be fusion spliced, as illustrated, or joined with connectors and a feed-through coupler.

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