HIGH PERFORMANCE
HIGH RELIABILITY
HIGH SECURITY

Fiber SenSys

Fiber-Optic Sensor Cable

Specification Sheet

When connected to a Fiber SenSys alarm processing unit (APU), SC-3 and SC-4 sensor cables detect potential intruders through the use of fiber-optic technology that senses cable movement, interference, or tampering. These proprietary cables are designed to monitor the optical signal properties and detect the effects of movement, vibration and pressure. Together with an APU, these sensor cables form complete intrusion detection systems. The sensor cables are immune to EMI, magnetic fields, radio frequency transmissions and lightning. Rugged, durable construction ensures the cable survives exposure to the elements and weather conditions making them ideal for harsh environments.

SC-3 sensor cable (left) and **SC-4** sensor cable (right)

Two versions of sensor cable are available, SC-3, a 3-millimeter diameter cable used for both fence line and indoor applications, and SC-4, ideally suited for direct fence applications. The SC-3 sensor cable is installed in flexible conduit prior to deployment for fence line applications. The SC-4 sensor cable is typically installed directly without a conduit for optimal performance. Sections of a fence or other barrier can be made more sensitive by adding extra lengths of sensor cable (usually by deploying the cable in a "loop" in the affected section). Fiber SenSys APUs support sensor cable lengths up to 5km providing uniform and consistent sensitivity throughout the entire length.

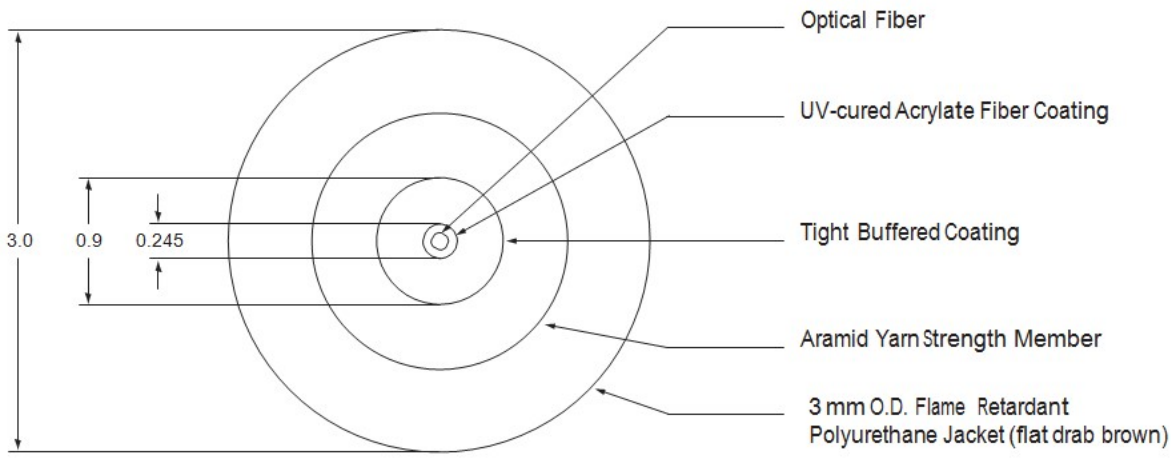
PARAMETER		SPECIFICATIONS SC-3	SPECIFICATIONS SC-4
Cable Type		Proprietary Multi-Mode Optical Fiber	
Cable Weight Cable Diameter Jacket Color		7.5 kg/km 3mm Brown	13.5 kg/km 4mm Olive
Operational Data:	Impact Resistance Crush Resistance Operating Temperature Maximum Pull Minimum Bend	1000 impacts 1000 N/cm -40°C to +85°C Tensile Load 300 N (67 lbs.) Radius 3 cm (1.2 inches)	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 5 cm (2 inches)	Tensile Load 500 N (112 lbs.) Radius 8 cm (3.2 inches)
Performance Data:	Cable Sensitivity	Uniformly consistent over the entire length	

Fiber SenSys

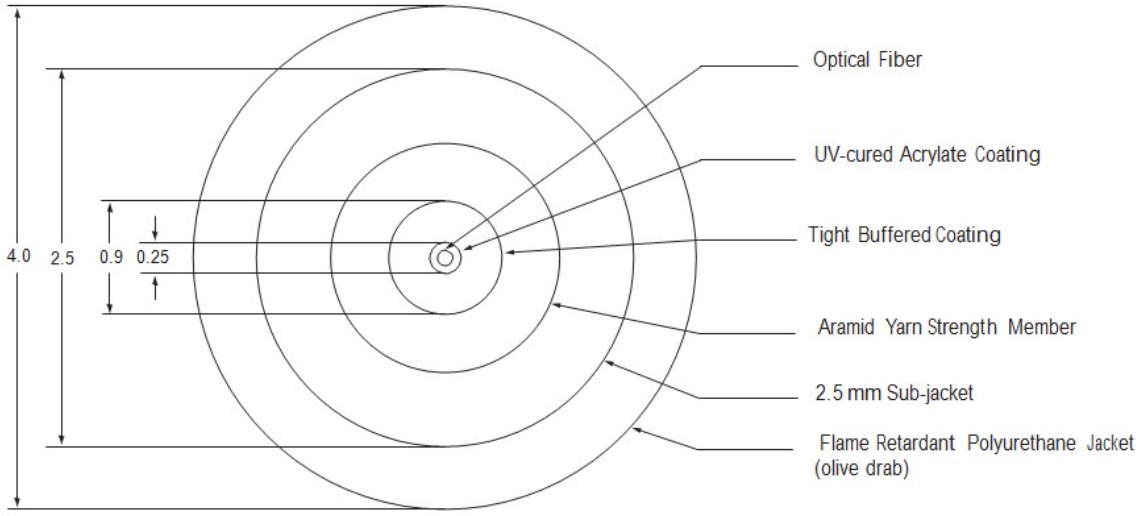
2925 NW Aloclek Drive, #120
Hillsboro, Oregon 97124, USA
Tel: +1(503)692-4430 • Toll free (US) +1(888)736-7971
www.fibersensys.com

FIBER-OPTIC SENSOR CABLE CROSS SECTION END VIEW

SC-3



SC-4



Note: Drawings are not to scale. All dimensions in mm unless noted otherwise.

For more information, contact us at
info@fibersensys.com
Tel: +1(503)692-4430
Toll free (US) +1(888)736-7971

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