

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)

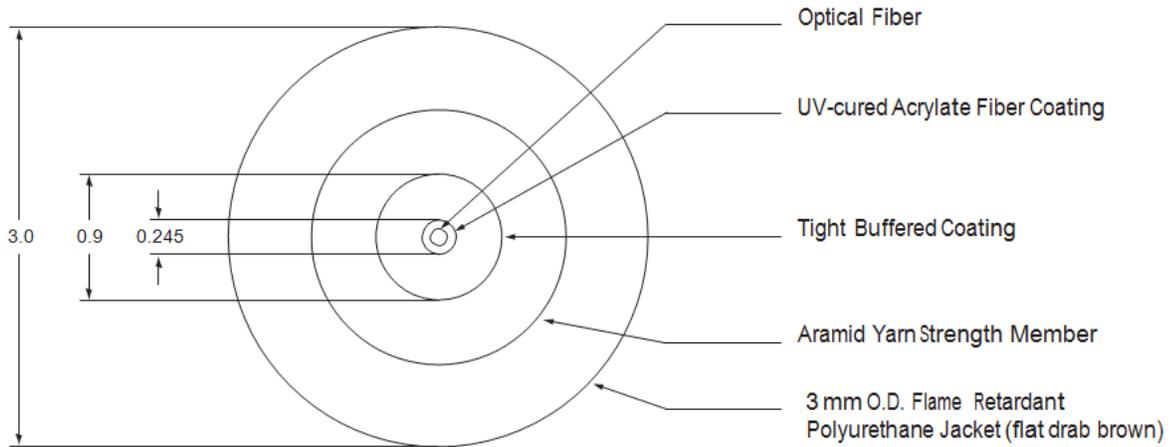
Two versions of sensor cable are available, **SC-3**, a 3-millimeter diameter cable used for both fence line and indoor applications, and **SC-4**, ideally suited for direct fence applications. The **SC-3** sensor cable is installed in flexible conduit prior to deployment for fence line applications. 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	7.5 kg/km	13.5 kg/km
Cable diameter	3mm	4mm
Jacket color	Brown	Olive
Operational data:		
Impact resistance	1000 impacts	1000 impacts
Crush resistance	1000 N/cm	750 N/cm
Operating temperature	-40°C to +85°C	-40°C to +85°C
Maximum pull	Tensile Load 300 N (67 lbs.)	Tensile Load 300 N (67 lbs.)
Minimum bend	Radius 3 cm (1.2 inches)	Radius 4 cm (1.6 inches)
Installation data:		
Maximum pull	Tensile Load 500 N (112 lbs.)	Tensile Load 500 N (112 lbs.)
Minimum bend	Radius 5 cm (2 inches)	Radius 8 cm (3.2 inches)
Performance data:	Cable sensitivity Uniformly consistent over the entire length	

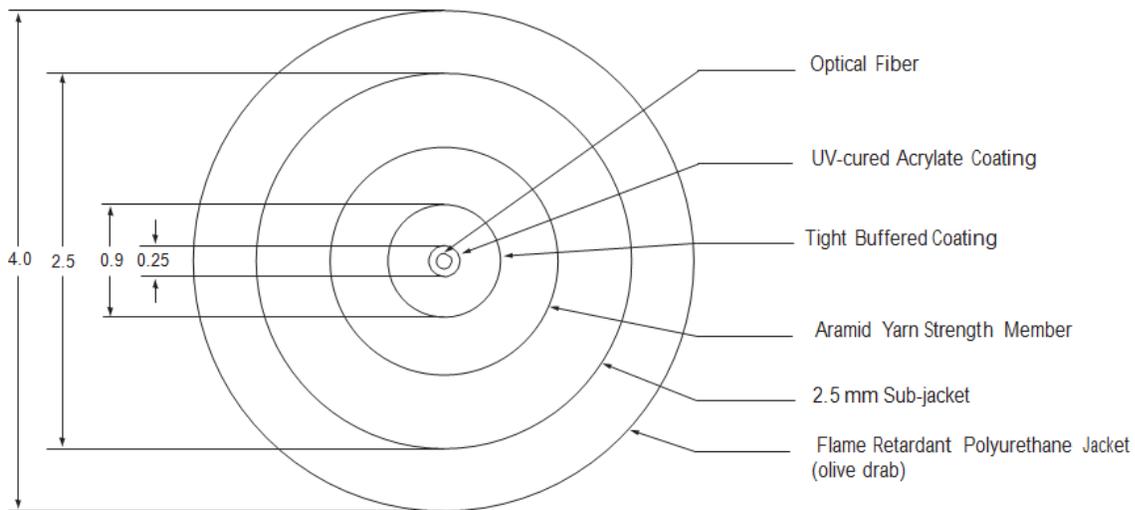
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FIBER-OPTIC SENSOR CABLE CROSS SECTION END VIEW

SC-3

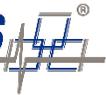


SC-4



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

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