



Specification Sheet

SC-3 and SC-4 Fiber Optic Sensor Cable

Description

Immune to the effects of EMI, magnetic fields, radio frequency transmissions, and lightning, the fiber optic sensor cable is a proprietary multimode cable designed to optimize the effects that vibration and pressure have on the conductance of light. A rugged, durable construction ensures the cable survives exposure to the harsh elements and weather conditions associated with outdoor deployment. Used together with an Alarm Processing Unit, the sensor cable forms a complete intrusion detection system.

Two versions of sensor cable are available: SC-3, a 3 millimeter diameter cable for fence line and indoor applications, and SC-4, for buried applications. The SC-3 sensor cable requires insertion in flexible conduit prior to deployment for fence line applications. The SC-4 sensor cable can be buried directly without the use of conduit, however.

The sensor cable has *uniform sensitivity*, meaning the sensitivity is uniform throughout the entire length. Sections of a fence, buried zone, or other barrier can be made more sensitive by adding extra lengths of



SC-3 sensor cable (left) and SC-4 sensor cable (right) shown on 2 km continuous reels

sensor cable (usually by deploying the cable in a "loop" in the affected section). Used with an Alarm Processing Unit, the maximum zone length for each version of sensor cable is 5 kilometers (16,400 feet/ 3.1 miles).

Both SC-3 and SC-4 can be used with the FD-208, FD-331/FD-332, and the FD-341/FD-342 Alarm Processing Units.

Product Specifications

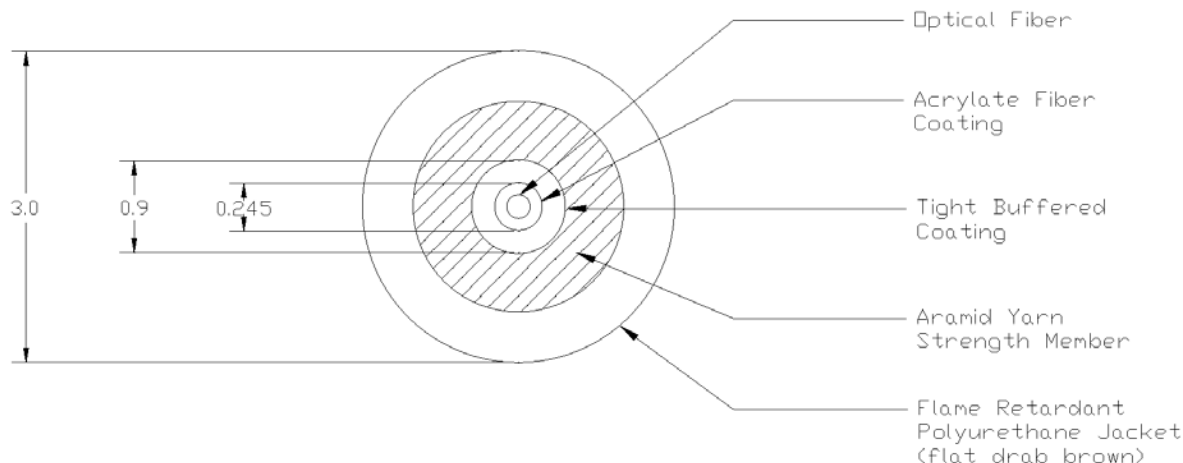
SC-3 and SC-4 Sensor Cable

Optical Fiber Type	Proprietary-construction multimode
Cable Weight	10.0 kg/km
Cable Diameter	3mm (SC-3) or 4mm (SC-4)
Cable Jacket Color	Brown (SC-3) or olive drab green (SC-4)
Operational Data	
Impact Resistance	1000 impacts
Crush Resistance	750 N/cm
Operating Temperature	-40°C to +85°C
Installation Data	
Maximum Pull Tensile Load	300 N (60 lb)
Minimum Bend Radius	5 cm (2 inches)
Performance Data	
Cable Sensitivity	Uniform over the entire length
Maximum Sensor Cable Length/zone	5 km (3.1 miles/16,400 feet)

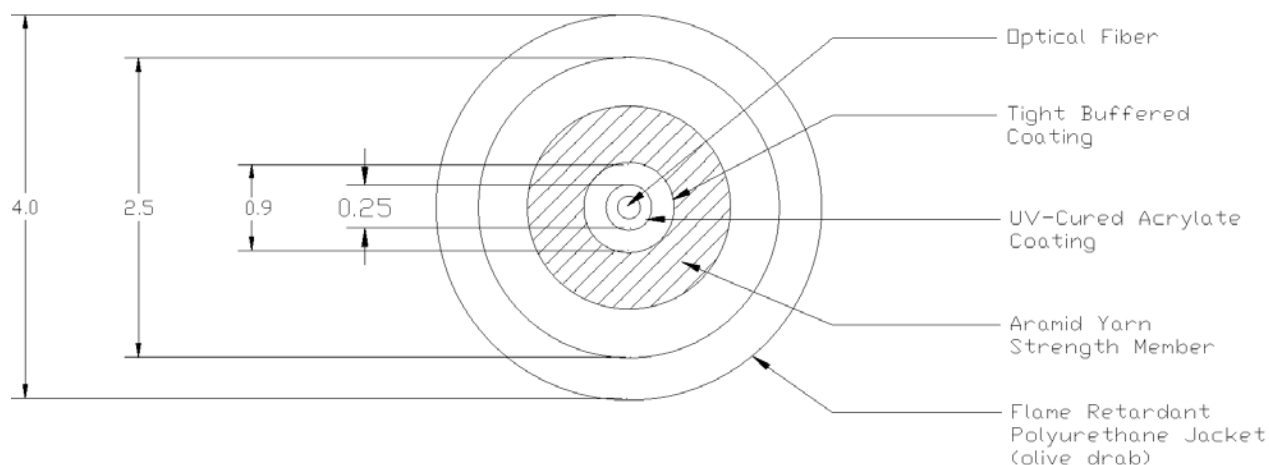
Sensor Cable End Profile

SC-3 and SC-4

SC-3



SC-4



Notes:

1. All dimensions in mm unless otherwise noted
2. Drawing not to scale