Fiber SenSys®

IC–3 and IC–4 Insensitive Fiber Optic Cable
Specification Sheet

Relatively impervious to the effects of vibration and movement, the **IC–3** and **IC–4** insensitive fiber optic cable provides a way to extend the distance between the deployed sensor cable and the Alarm Processor Unit (APU) at distances up to 20 kilometers (12.4 miles).

Insensitive cable is available in two versions, depending upon the application:

- **IC–3** for fence and network applications
- **IC–4** for buried perimeter applications

IC-3 insensitive cable (left) and IC-4 insensitive cable (right) shown on continuous reels

The **IC–3** insensitive cable is a 3 millimeter diameter cable, and requires insertion into protective conduit prior to deployment for above-ground applications.

The **IC–4** insensitive cable can be buried directly without the use of conduit.

Both the FD34x and FD5xx series intrusion detection systems require the use of insensitive lead-in cable.

Insensitive lead-in cable is not compatible with the FD322 or FD33x series Alarm Processing Units.

The insensitive cable consists of a standard 9 µm /125 µm single-mode optical fiber protected by a UV-resistant rugged jacket which enables it to survive in harsh, outdoor conditions. The **IC–4** insensitive cable has an additional layer of jacket material for direct burial.

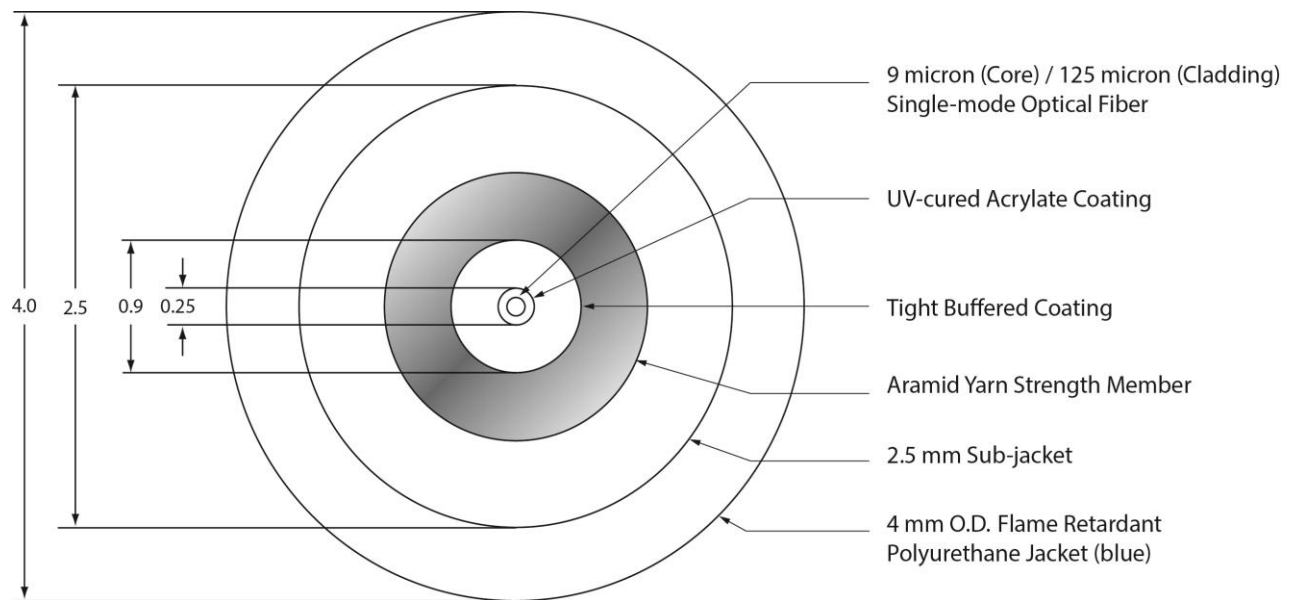| FEATURES	APPLICATIONS
Lead-in cable designed for remote APU deployment	Commercial facility perimeters
Significant distance specifications (up to 20 km)	Government & military perimeters
UV-resistant jacketing	Airport perimeters
Buried application deployments	Military secure networks
Provides maximum design flexibility	Electric power utilities

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INSENSITIVE CABLE END PROFILE IC–3

3.0   0.9   0.245

9 micron (Core) / 125 micron (Cladding)
Single-mode Optical Fiber

UV-cured Acrylate Fiber Coating

Tight Buffered Coating

Aramid Yarn Strength Member

3 mm O.D. Flame Retardant
Polyurethane Jacket (gray)

INSENSITIVE CABLE END PROFILE IC–4

4.0   2.5   0.9   0.25

9 micron (Core) / 125 micron (Cladding)
Single-mode Optical Fiber

UV-cured Acrylate Coating

Tight Buffered Coating

Aramid Yarn Strength Member

2.5 mm Sub-jacket

4 mm O.D. Flame Retardant
Polyurethane Jacket (blue)
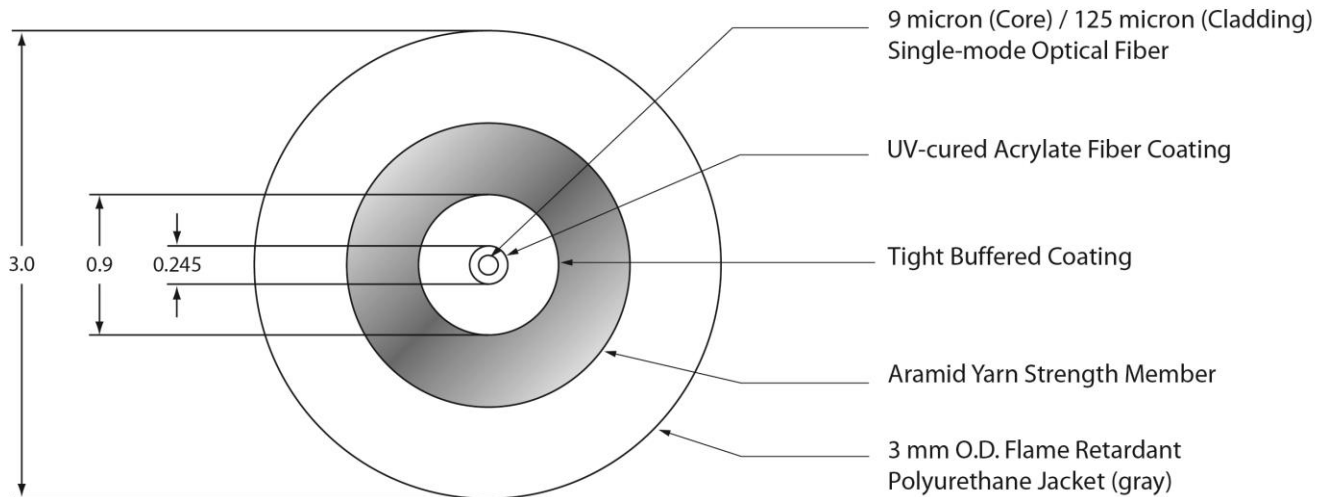
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Fiber SenSys ®

High Performance – High Reliability – High Security