

## SC, SC-C & NSC

Highly Flexible, Resists Bends and Kinks, Abrasion Resistant



Sensing and non-sensing cables are designed for use with Zone and Distance Read panels. The sensing cables detect the presence of detectable liquid, and send a signal to the panel. The panel generates an alarm and pinpoints the location of the leak or spill along the cable's length. Sensing cables are designed for high accuracy and maximum reliability.

SC water detection cable senses the presence of water or other conductive fluid. SC-C chemical sensing cable detects the presence of chemicals (see Specifications for list).

NSC non-sensing cable is used to extend the control panel's leader cable to an area where SC detection cable is needed. It also bridges lengths of SC detection cable in areas where sensing is not required. Invisible to the control panel, the non-sensing cable does not affect the accuracy of readings or limit the amount of detection cable that can be connected to a control panel. NSC cables are only compatible with systems using SC water detection cables.

All cables are highly flexible, durable, and kink-resistant. They lie flat after installation, and are abrasion resistant. The cables are plenum rated and UL Listed, making them ideal for use under raised floors and areas where plenum rated cable is required. Choose a pre-specified cable length or a custom length for your convenience and installation flexibility.

### SPECIFICATIONS

|                                           |                                                                                                  |
|-------------------------------------------|--------------------------------------------------------------------------------------------------|
| Plenum Rating:<br>SC<br>NSC               | CL2P/CMP C(UL)<br>CL3P/CMP C(UL)<br>California State Fire Marshall approved                      |
| Shear Strength:<br>SC/NSC<br>SC-C         | >180 lbs (>81.65 kg)<br>160 lbs (72.6 kg)                                                        |
| Cut Through Resistance:<br>SC/NSC<br>SC-C | >40 lbs (>18.2 kg) with 0.005" (0.13 mm) blade<br>>50 lbs (>22.7 kg) with 0.005" (0.13 mm) blade |
| Abrasion Resistance:<br>SC/NSC<br>SC-C    | 60 cycles per UL 719<br>>65 cycles per UL719                                                     |
| Connector:<br>SC/NSC<br>SC-C              | 4-pin, 1" (25.4 mm) dia., circular, locking, 4-pin<br>0.5" (13 mm) diameter                      |

### Strong

Strong, durable, and abrasion resistant

### Easy installation

Expansion with mating end connectors...easy installation

### Installation flexibility

Available in pre-measured and custom lengths with pre-installed end connectors

### Plenum rated

Plenum rated and UL Listed

### Accurate

Highly accurate alarm notification...fewer false alarms

### Application versatility

SC and SC-C cables detect the presence of specific fluids

#### OPERATING ENVIRONMENT

|                                |                                                  |
|--------------------------------|--------------------------------------------------|
| Temperature:<br>SC/NSC<br>SC-C | 0 to 75 °C (32 to 167 °F)<br>90 °C (194 °F) max. |
| Humidity:<br>SC/NSC            | 5 to 95% RH non-condensing                       |
| Altitude:<br>SC/NSC            | 15,000 ft. (4,572 m) max.                        |

#### STANDARD LENGTHS

|                     |                              |
|---------------------|------------------------------|
| SC-10/NSC-10        | 10 ft. (3.1 m)               |
| SC-17               | 17 ft. (5.1 m)               |
| SC-25/NSC-25        | 25 ft. (7.7 m)               |
| SC-50/NSC-50        | 50 ft. (15.3 m)              |
| SC-100/NSC-100      | 100 ft. (30.5 m)             |
| Storage Environment | -30 to 85 °C (-22 to 185 °F) |
| Weight              | 0.02 lbs/ft (29.7 g/m)       |

|                                                      |                                                                                                                                                                                                                                                                               |
|------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Detectable Liquids/<br>Chemical Resistance:<br>SC-C* | In accordance with ASTM D543, cable functions normally after seven days exposure to the following: fresh deionized water, tap water, sulfuric acid (98%), sulfuric acid (50%), hydrochloric acid (37%), sodium hydroxide (10%), aqua regia, ethylene glycol (60% in DI water) |
| Agency Approvals:<br>SC<br>NSC                       | CE; UL; RoHS compliant<br>UL E118871; UL 13, power limited circuit cable; UL 444, communication cables; NFPA 262; plenum flame test (UL 910); NEC Articles 725 and 800; RoHS compliant                                                                                        |

#### WARRANTY

|                  |         |
|------------------|---------|
| Limited Warranty | 2 years |
|------------------|---------|

#### AGENCY APPROVALS

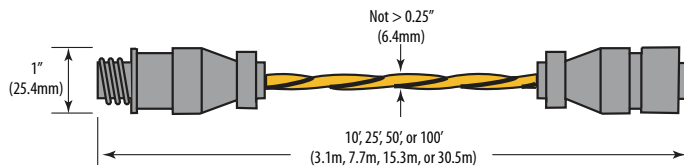


\* Prolonged exposure to concentrated ketones may cause temporary reduction of sensitivity; call for details.

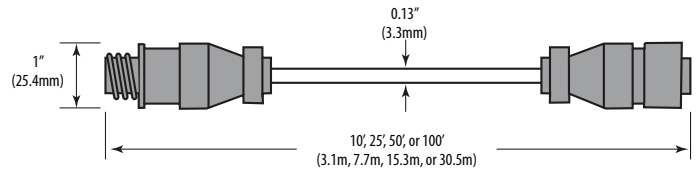
\*\* The CE mark indicates RoHS2 compliance. Please refer to the CE Declaration of Conformity for additional details.

**SC**

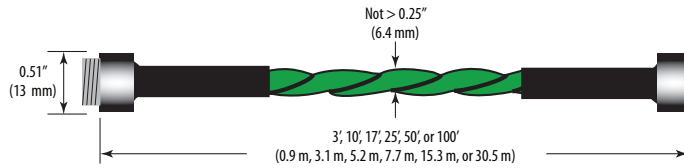
## Dimensional Drawing

**NSC**

## Dimensional Drawing

**SC-C**

## Dimensional Drawing

**ORDERING INFORMATION**

## Sensing Cable

| MODEL      | MANUF. PART # | DESCRIPTION                           |
|------------|---------------|---------------------------------------|
| U006-0009  | SC-10         | Sensing Cable, Water, 10 feet         |
| U006-0048  | SC-17         | Sensing Cable, Water, 17 ft           |
| U006-0013  | SC-25         | Sensing Cable, Water, 25 feet         |
| U006-0014  | SC-50         | Sensing Cable, Water, 50 feet         |
| U006-0010  | SC-100        | Sensing Cable, Water, 100 feet        |
| U006-0011* | SC-1000       | Sensing Cable, Water, 1000 feet, bulk |
| U006-0012* | SC-2000       | Sensing Cable, Water, 2000 feet, bulk |
| U006-0049  | SC-C-3        | Sensing Cable, Chemical, 3 ft         |
| U006-0050  | SC-C-10       | Sensing Cable, Chemical, 10 ft        |
| U006-0051  | SC-C-17       | Sensing Cable, Chemical, 17 ft        |
| U006-0052  | SC-C-25       | Sensing Cable, Chemical, 25 ft        |
| U006-0053  | SC-C-50       | Sensing Cable, Chemical, 50 ft        |
| U006-0054  | SC-C-100      | Sensing Cable, Chemical, 100 ft       |

\*CPCE (U006-0039), SPCL (U006-0040), and SCCS (U006-0041) tools are required for installation. LCDE (U006-0029) is highly recommended.

**ORDERING INFORMATION**

## Non-sensing Cable

| MODEL      | MANUF. PART # | DESCRIPTION                        |
|------------|---------------|------------------------------------|
| U006-0017  | NSC-10        | Non-Sensing Cable, 10 feet         |
| U006-0021  | NSC-25        | Non-Sensing Cable, 25 feet         |
| U006-0022  | NSC-50        | Non-Sensing Cable, 50 feet         |
| U006-0018  | NSC-100       | Non-Sensing Cable, 100 feet        |
| U006-0019* | NSC-1000      | Non-Sensing Cable, 1000 feet, bulk |
| U006-0020* | NSC-2000      | Non-Sensing Cable, 2000 feet, bulk |

\*CPCE (U006-0039), SPCL (U006-0040), and SCCS (U006-0041) tools are required for installation. LCDE (U006-0029) is highly recommended.