

# Cables

## SC, SC-C, SC-H, & NSC

## SPECIFICATIONS



**Highly Flexible, Resists Bends & Kinks, Abrasion Resistant**

### FEATURES

- Strong, durable, and abrasion resistant
- Expansion with mating end connectors...easy installation
- Available in pre-measured and custom lengths with pre-installed end connectors...installation flexibility
- Plenum rated and UL Listed
- Highly accurate alarm notification...reduced false alarms
- SC, SC-C, and SC-H cables detect the presence of specific fluids...application versatility

### DESCRIPTION

Sensing and non-sensing cables are designed for use with Zone and Distance Read panels. The sensing cables detect the presence of liquid, and send a signal to the panel. The panel generates an alarm and pinpoints the exact location of the leak or spill along the cable's length. Sensing cables are designed for the highest 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). SC-H hydrocarbon sensing cable locates hydrocarbons within 1 foot (0.33 m) of the actual leak, with as little as 2 inches (51 mm) of wetted cable, and is impervious to the presence of water.

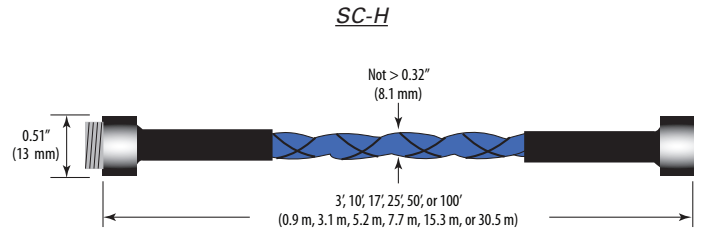
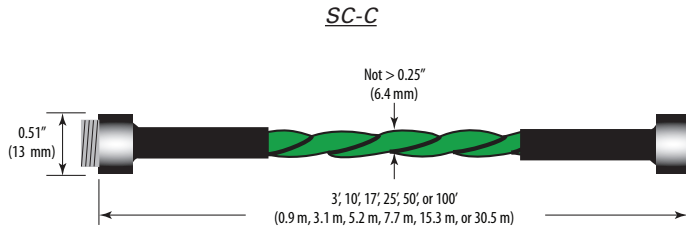
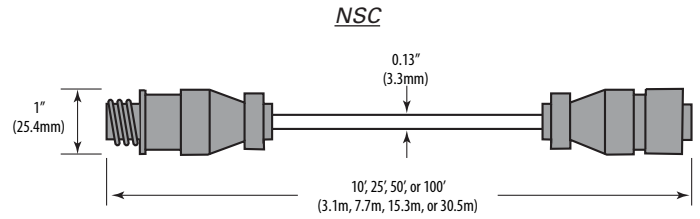
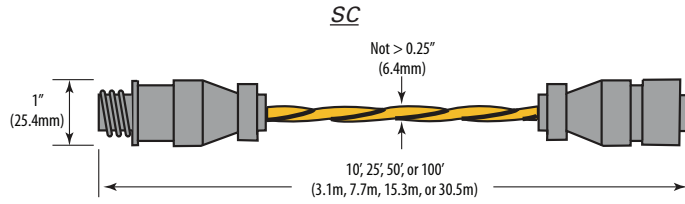
NSC non-sensing cable is used to extend the control panel's leader cable to an area where SC detection cable is needed. It also bridges lengths of SC detection cable in areas where sensing is not required. Invisible to the control panel, the non-sensing cable does not affect the accuracy of readings 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, & kink-resistant. They lie flat after installation, & they are abrasion resistant. The cables are plenum rated & UL Listed making them ideal for use under raised floors & areas where plenum rated cable is required. Choose a pre-specified cable length or a custom length for your convenience and installation flexibility.

<b>Plenum Rating</b> SC NSC	CL2P/CMP C(UL) CL3P/CMP C(UL) California State Fire Marshall approved
<b>Shear Strength</b> SC/NSC SC-C	>180 lbs (>81.65 kg) 160 lb (72.6 kg)
<b>Cut Through Resistance</b> SC/NSC SC-C	>40 lbs (>18.2 kg) with 0.005" (0.13 mm) blade >50 lbs (>27.7 kg) with 0.005" (0.13 mm) blade
<b>Abrasion Resistance</b> SC/NSC SC-C	60 cycles per UL 719 >65 cycles per UL719
<b>Connector</b> SC/NSC SC-C	4 pin, 1" (25.4 mm) dia., circular, locking, 4 pin 0.5" (13 mm) diameter
<b>OPERATING ENVIRONMENT:</b>	
<b>Temperature</b> SC/NSC SC-C SC-H	0° to 75°C (32° to 167°F) 90°C (194°F) max. -20° to 90°C (-4° to 140°F)
<b>Humidity</b> SC/NSC	5% to 95% RH non-condensing
<b>Altitude</b> SC/NSC	10,000 ft. (3,048 m) max.
<b>STANDARD LENGTHS</b>	
<b>SC-10/NSC-10</b>	10 ft. (3.1 m)
<b>SC-17</b>	17 ft. (5.1 m)
<b>SC-25/NSC-25</b>	25 ft. (7.7 m)
<b>SC-50/NSC-50</b>	50 ft. (15.3 m)
<b>SC-100/NSC-100</b>	100 ft. (30.5 m)
<b>Storage Environment</b> SC NSC	-30° to 85°C (-22° to 185°F) 0° to 75°C (32° to 167°F)
<b>Weight</b>	0.02 lbs/ft (29.7 g/m)
<b>Chemical Resistance</b> 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)
<b>Chemical Resistance</b> SC-H*	In accordance with ASTM D543, cable functions normally after seven days exposure to the following: Unleaded gasoline, #1 diesel fuel, #2 diesel fuel, JP5 jet fuel, JP8 jet fuel, Jet-A jet fuel, xylene, kerosene, cigarette lighter fuel (completely water resistant)
<b>Agency Approvals</b> SC NSC	CE; UL E162948; RoHS compliant 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

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

**DIMENSIONAL DRAWINGS**



**ORDERING INFORMATION**



*Sensing Cable*

*Non-sensing Cable*

MODEL	MANUF. PART #	DESCRIPTION
U006-0009	SC-10	Sensing Cable, Water, 10 feet
U001-0048	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
U006-0055	SC-H-3	Sensing Cable, Hydrocarbons, 3 ft
U006-0056	SC-H-10	Sensing Cable, Hydrocarbons, 10 ft
U006-0057	SC-H-17	Sensing Cable, Hydrocarbons, 17 ft
U006-0058	SC-H-25	Sensing Cable, Hydrocarbons, 25 ft
U006-0059	SC-H-50	Sensing Cable, Hydrocarbons, 50 ft
U006-0060	SC-H-100	Sensing Cable, Hydrocarbons, 100 ft

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), SPSP (U006-0040), and SCCS (U006-0041) tools are required for installation. LCDE (U006-0029) is highly recommended.