

## IntelliTrace

Ambient Sensing

**ITAS** Base Panel

**ITAS-EXT** Extender Panel

Line Sensing

**ITLS** Base Panel

**ITLS-EXT** Extender Panel

Heat Tracing Control Panel  
for Ordinary Areas



- 10" or 7" Touch Screen HMI
- 40 Amps/Circuit @ 100 – 600 VAC
- 2 Circuits to 72 Circuits
- NEMA 4 or NEMA 4X Enclosure
- SCR Control
- Optional Wireless Temperature Sensing
- Integral Circuit Panel with Circuit Breakers
- Optional Main Breaker
- Soft Start Feature
- Full Communications
- Full Alarm and Monitoring Capabilities on GFEP, Temperature, Sensor, Current Load & Communications
- Customizable Sensor Mapping
- Optional Enclosure Heater
- UL, cUL
- Optional CE

The 10" or 7" Touch Screen Computer provides real time display of process variable, set point, load current, load demand (%), operation mode type, alarm status and alarm type for any 2 or 6 circuits at time as well as alarm status for all other circuits.

The Quick Launch buttons take you to any other 2 or 6-circuit real time display screen as well as the Setup, Fault, Log or Communication Screen. All set point, alarm, security, time, circuit identification, sensor mapping, tuning, communications and control type mode settings are easily accomplished through the intuitive & familiar Windows based menu screens. All of these functions are achievable locally or remotely via wired or wireless communications.

### Description

The IntelliTRACE ITAS and ITLS Series is a micro-processor based Control/Monitoring and Power Management system for Ambient Sensing, Line Sensing or a combination of Line and Ambient Sensing Heat Trace Applications and is suitable for use in ordinary areas.

The base panels will handle 2 - 48 circuits and may be increased up to 72 circuits with the Extension Panels. A 2 to 4 circuit extension panel may be added to a 6-48 circuit panel but not vice versa. Each circuit has a 40 Amperage capacity and accepts 100 to 600 VAC service. The SCR Control may be set to Automatic, which includes PID or On/Off control or to Manual, which spans a 0% to 100% control output.

The HMI is a 10" (25 cm) or 7" (17cm) user friendly touch screen computer. It displays the process variable, temperature setpoint, alarm status, current load, control mode, sensor failure manual override output for any 2 or 6 circuits at a time as well as the alarm status for all other circuits.

The standard enclosure is rated for NEMA 4 environments and an optional NEMA 4X 304 SS enclosure is available.

The ITAS / ITLS Control Panel Series provide alarms for high and low temperatures, current load, communications, sensor faults and ground fault leakage. There are several output/control behavior scenarios for the ground fault (GFEP) alarm condition. Choices include Trip and/or Latch options in which both, either or none may be enabled. Trip sets the output to zero %, while Latch requires a manual reset. Alarm events are automatically logged and stored for easy access.

Advanced standard features include a proprietary soft start function, off duty Auto Cycle maintenance program and either Modbus RTU/RS485 or Ethernet communications. Optional features include an industry leading Sensor Mapping\*\* function, remote monitoring and wireless communications.

HEAT TRACING  
PRODUCTS

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### Heat Tracing Control Panel for Ordinary Areas

#### Advanced Features

##### Soft Start Feature

Certain heating cables exhibit inherent current inrush in colder temperatures. This inrush can cause nuisance breaker tripping. To limit inrush current on the overall system, a proprietary Soft Start algorithm is applied during system start-up. This will ONLY occur while the operation mode is set to AUTO. After the Soft Start program completes its cycle, the Control Mode of the system will either be PID or ON/OFF Control Mode, depending what was selected by the user. The default setting of the Soft Start Feature for each circuit is "enabled". However, the Soft Start Feature may be disabled if so desired by the owner. The owner has the option to independently manage the Soft Start Feature on each circuit.

##### Auto Cycle Feature

During prolonged down time periods, typically during the summer months, it is advisable to intermittently exercise the system circuits. This exercising of the circuits is accomplished via the Autocycle feature. On a sequential circuit basis, the Autocycle feature periodically monitors system performance between 1-999 hours. This provides a certain level of predictive maintenance of the system as Faults (Alarms) will present themselves accordingly. Problem areas may be addressed during non-essential operating periods. The owner has the option to engage or disengage the Autocycle feature at any time.

##### Sensor Mapping\*\*

When factory enabled, the ITLS & ITLSC1D2 Models provide the owner with customizable Sensor Mapping. This becomes a very powerful and desirable feature when the owner needs added flexibility in controlling the circuit outputs beyond the standard single sensor input.

Sensor Mapping is the assignment of one or more Sensor Inputs to one or more output circuits.

##### More on Sensor Mapping

###### Ambient or Line Sensing - Single Sensor:

A single sensor (RTD) may be mapped (or linked) to multiple Output Circuits. This allows several circuits to be controlled by a single sensor.

###### Minimum, Maximum, Averaging

Several sensors may be mapped to a single output circuit. This allows a single circuit to be controlled by the Minimum or the Maximum or the Average temperature of all of the sensors mapped to that output circuit. This may be desirable on long runs or zones which realize varying temperatures or weather conditions at different times of the day.

###### Multiple Sensor Mapping

A single sensor may be used independently or combined with other sensors to control more than one circuit.

##### Combining Sensing Types

The owner may need to have multiple Line and/or Ambient Sensing control scenarios occurring simultaneously.

\*\* Available only on ITLS & ITLS-EXT

##### Touch Screen Computer:

- 2 or 6 Circuit displayed / screen
- Quick launch to any 2 or 6 circuit group, Setup Menu or System Screens
- Full User Setting Capabilities - Specific Circuit Naming/Identification, Baud rate, set points, units, alarms, etc.
- Remote Desktop Monitoring

##### Optional Features:

- NEMA 4X 304 SS Enclosure
- Fully Customizable Sensor Mapping\*\*
- Enclosure Heater



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Safe Energy SpA

www.safe-energy.cl

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### Technical Specifications

#### Panel Specifications

Supply Voltage:	100 - 600 VAC, 3 phase
Operating Environment:	-40 to +104°F (-40 to +40°C)* Enclosure heater required for Ambient Temperatures below 32°F (0°C)
Enclosure:	NEMA 4 or Optional NEMA 4X 304 SS
Enclosure Size:	See Model Description Tables
Communications:	Modbus RTU/RS-485, Ethernet
Alarms:	Hi/Lo Temp, GFEP – 20 mA to 150 mA, Hi/Lo Current – 0.1 to 50A or off
Input:	100Ω Platinum 3-wire RTD
Output:	SCR, Zero cross fired
Current Maximum:	40 Amps/Circuit at 104°F (40°C)
Auto-Cycle:	1-999 hours/off
Failed Sensor Output Setting:	0 – 100%
Control Mode:	Auto, Manual (Hand), Off Auto: PID or ON/OFF with adjustable dead band Manual: 0% - 100% output, 1% increment
Load Management:	DOT (Demand On Transfer) timing, with Soft Start
Approvals:	UL, cUL Listed. Optional CE Certification
Area Classifications:	Ordinary Areas
Temperature Rating:	T4A (UL) (Derate to T3 & Groups B, C, D when using enclosure heater)



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# Heating Cable

## IntelliTrace

Ambient Sensing

## ITAS/ITLS Base Panel

### Heat Tracing Control Panel for Ordinary Areas

#### Technical Notes:

1. Refer to PK497 for Installation and Operation details
2. Our standard SCCR is 5 kA. Consult sales if a different SCCR is needed.
3. For CID2 Panels 120-264V customer supplied instrument power supply
4. See ITLS/ITAS-EXT to increase circuits up to 8 circuits for 2-4 Circuit Panels & up to 72 Circuits for 6-48 Circuit Panels.
5. 6-48 Circuit Extension Panels can not be added to 2-4 Circuit Panels but 2-4 circuit extension panels can be added to 6-8 Circuit Panels (up to 72 circuits)

#### Ordering Information

To Order — Complete the Model Number using the Matrix provided.

#### Model Product Description

**ITAS or ITLS** IntelliTRACE Line/Ambient Sensing Heat Trace Panels are Designed for Industrial applications in Non-Hazardous Areas. ITLS/ITAS series offers the following standard features: NEMA 4 enclosure, Industrial 10" (7" for 2 and 4 Loop Models) Digital CE Computer Touchscreen Controller Rated at 40A Per Circuit at 104°F (40°C) Ambient, Two to Forty-Eight Circuits (Expandable to Seventy-Two Circuits\*), Common Alarm Output, Operator Interface, PID SCR Power, Hand/Off/Auto Operation Breaker for Instrument Power Included, Current Monitoring, 30 mA Ground Fault Equipment Protection, ModBus RTU/RS485 or TCP/Ethernet Communications, Lockout Capable Breakers, UL & cUL Third Party Compliance. Options Include: NEMA 4XSS Enclosure, Copper Ground Bar (Standard is Aluminum), Remote Monitoring Capability, Thermostat Controlled Enclosure Heater, Heater Power and RTD Terminal Blocks, Wireless Ethernet Communications, CE Third Party Compliance.

#### Code Circuits

02	2 Circuits	24	24 Circuits
04	4 Circuits	30	30 Circuits
06	6 Circuits	36	36 Circuits
12	12 Circuits	42	42 Circuits
18	18 Circuits	48	48 Circuits

#### Code Line Voltage Cable Voltage

1	208/120 VAC, 3 Phase 4 Wire	120 V- 1 Pole or 208 V - 2 Pole
2	240/120 VAC, Single Phase 3 Wire	120 V- 1 Pole or 240 V - 2 Pole
3	480/277 VAC, 3 Phase 4 Wire	277 V- 1 Pole or 480 V - 2 Pole

#### Code Cable Load Circuit Breaker Rating (Select Breaker Amperage and \*1P/2P to Select Breaker Voltage 1(P)=15A, 120V Breakers)

0(*)	None	3(*)	30A Thermal Magnetic
1(*)	15A Thermal Magnetic	4(*)	40A Thermal Magnetic
2(*)	20A Thermal Magnetic	5(*)	50A Thermal Magnetic

#### Code Main Disconnect / Circuit Breaker

0	None	Applicable Voltage
1	30A Thermal Magnetic	None
2	50A Thermal Magnetic	277/480V 3P
3	70A Thermal Magnetic	120/208V 3P, 120/240V 1P, 277/480V 3P
4	80A Thermal Magnetic	277/480V 3P
5	100A Thermal Magnetic	120/240V 1P
6	125A Thermal Magnetic	120/208V 3P, 120/240V 1P
7	150A Thermal Magnetic	277/480V 3P
8	175A Thermal Magnetic	120/208V 3P
9	225A Thermal Magnetic	120/240V 1P, 277/480V 3P
X	Other (If Main Disconnect is needed Contact Factory for Assistance)	120/208V 3P, 120/240V 1P, 277/480V 3P

#### Code Enclosure Heater (Anti-Condensation Heater Recommended at a Minimum)

0	No Enclosure Heater
1	Thermostat Controlled Enclosure Heater (Anti-Condensation Heater)
2	Thermostat Controlled Enclosure Heater (Needed for 0°F, -18°C Minimum Ambient Temperature)
3	Thermostat Controlled Enclosure Heater (Needed for -40°F/C Minimum Ambient Temperature)

#### Code Panel Options

1	HMI Sunshield (Req'd. if Panel is to be outdoors)	7	Copper Ground Bar
2	Panel Weathershield	A	Floor Stands for 10" Deep Panel
3	Heater Power and RTD Terminal Blocks	B	Floor Stands for 12" Deep Panel
4	Z-purge system	C	Floor Stands for 16" Deep Panel
5	Panel Light (on separate breaker)	X	Other (If multiple options needed contact factory)
6	Powered Recepticle (on separate breaker)		

#### Code Number of 100 Ohm RTD Sensor Inputs

(must be multiple of 6, up to 48 inputs, MAXIMUM 3 RTD's per heater circuit)			
1	6 (Select if Ambient Sensing ITAS panel)	6	36
2	12	7	42
3	18	8	48
4	24	9	Other (Call Factory for Assistance)
5	30		

#### Code Communications

1	Standard: ModBus RTU/RS485 or Modbus TCP/Ethernet
2	ModBus TCP/Wireless
3	BacNet
9	Other

#### Code Temperature Sensing Solutions

1	Standard Wired Sensing
2	Wireless Sensing
3	Dry Contact Closure for Ambient Sensing Thermostat
4	Remote Snow Sensor Input (For ITAS ONLY i.e. SIT, GIT & CIT type sensors)

#### Code Enclosure (Size determined by Table 1)

1	NEMA 4 Single-Door Wall-Mount Steel Enclosure	24 X 20 X 10
2	NEMA 4 Single-Door Wall-Mount Steel Enclosure	30 X 30 X 10
3	NEMA 4 Single-Door Wall-Mount Steel Enclosure	42 X 36 X 12
4	NEMA 4 Single-Door Wall-Mount Steel Enclosure	42 X 36 X 16
5	NEMA 4 Single-Door Wall-Mount Steel Enclosure	60 X 36 X 12
6	NEMA 4 Single-Door Wall-Mount Steel Enclosure	60 X 36 X 16
7	NEMA 4X 304 Stainless Steel Wall-Mount Enclosure	24 X 20 X 10
8	NEMA 4X 304 Stainless Steel Wall-Mount Enclosure	30 X 30 X 10
A	NEMA 4X 304 Stainless Steel Wall-Mount Enclosure	42 X 36 X 12
B	NEMA 4X 304 Stainless Steel Wall-Mount Enclosure	42 X 36 X 16
C	NEMA 4X 304 Stainless Steel Wall-Mount Enclosure	60 X 36 X 12
D	NEMA 4X 304 Stainless Steel Wall-Mount Enclosure	60 X 36 X 16

ITAS/ITLS 06 3 3(1P) 5 1 3 1 1 1 5 Typical Model Number

# Heating Cable

## IntelliTrace

Ambient Sensing

### ITAS/ITLS-EXT Extender Panel

### Heat Tracing Control Extension Panel for Ordinary Areas

#### Ordering Information

To Order — Complete the Model Number using the Matrix provided.

Model	Product Description									
ITAS-EXT or ITLS-EXT	ITLS/ITAS-EXT series Intelligent Line/Ambient Sensing Heat Trace Extension Panel. Designed for Industrial applications in Non-Hazardous Areas. Intended To Be Used with ITLS/ITAS Heat TraceLine/ Ambient Sensing Panel to increase circuit service. ITLS-EXT series offers the following standard features: NEMA 4 enclosure, PID SCR Power Controller Rated at 40A Per Circuit at 104°F (40°C) Ambient, Two to Forty-Eight Circuits, Common Alarm Output, Hand/Off/Auto Operation, Current Monitoring, 30 mA Ground Fault Equipment protection, ModBus RTU/RS485 or TCP/Ethernet Communications, UL & cUL Third Party Compliance. Options Include: NEMA 4XSS Enclosure, Copper Ground Bar (Standard is Aluminum), Remote Monitoring Capability, Thermostat Controlled Enclosure Heater, Heater Power and RTD Terminal Blocks, Wireless Ethernet Communications, CE Third Party Compliance.									
<b>Code</b>	<b>Circuits</b>									
02	2 Circuits	24	24 Circuits							
04	4 Circuits	30	30 Circuits							
06	6 Circuits	36	36 Circuits							
12	12 Circuits	42	42 Circuits							
18	18 Circuits	48	48 Circuits							
<b>Code</b>	<b>Line Voltage</b>					<b>Cable Voltage</b>				
1	208/120 VAC, 3 Phase 4 Wire					120 V- 1 Pole or 208 V - 2 Pole				
2	240/120 VAC, Single Phase 3 Wire					120 V- 1 Pole or 240 V - 2 Pole				
3	480/277 VAC, 3 Phase 4 Wire					277 V- 1 Pole or 480 V - 2 Pole				
<b>Code</b>	<b>Cable Load Circuit Breaker Rating (Select Breaker Amperage and *1P/2P to Select Breaker Voltage 1(1P)=15A, 120V Breakers)</b>									
0(*)	None		3(*)			30A Thermal Magnetic				
1(*)	15A Thermal Magnetic		4(*)			40A Thermal Magnetic				
2(*)	20A Thermal Magnetic		5(*)			50A Thermal Magnetic				
<b>Code</b>	<b>Main Disconnect / Circuit Breaker</b>					<b>Applicable Voltage</b>				
0	None					None				
1	30A Thermal Magnetic					277/480V 3P				
2	50A Thermal Magnetic					120/208V 3P, 120/240V 1P, 277/480V 3P				
3	70A Thermal Magnetic					277/480V 3P				
4	80A Thermal Magnetic					120/240V 1P				
5	100A Thermal Magnetic					120/208V 3P, 120/240V 1P				
6	125A Thermal Magnetic					277/480V 3P				
7	150A Thermal Magnetic					120/208V 3P				
8	175A Thermal Magnetic					120/240V 1P, 277/480V 3P				
9	225A Thermal Magnetic					120/208V 3P, 120/240V 1P, 277/480V 3P				
X	Other (If Main Disconnect is needed Contact Factory for Assistance)									
<b>Code</b>	<b>Enclosure Heater (Anti-Condensation Heater Recommended at a Minimum)</b>									
0	No Enclosure Heater									
1	Thermostat Controlled Enclosure Heater (Anti-Condensation Heater)									
2	Thermostat Controlled Enclosure Heater (Needed for 0°F, -18°C Minimum Ambient Temperature)									
3	Thermostat Controlled Enclosure Heater (Needed for -40°F/°C Minimum Ambient Temperature)									
<b>Code</b>	<b>Panel Options</b>					<b>Panel Options</b>				
2	Panel Weathershield					8 Loss of Power Relay				
3	Heater Power and RTD Terminal Blocks					A Floor Stands for 10" Deep Panel				
4	Z-purge system					B Floor Stands for 12" Deep Panel				
5	Panel Light (on separate breaker)					C Floor Stands for 16" Deep Panel				
6	Powered Receptacle (on separate breaker)					X Other (If multiple options needed contact factory)				
7	Copper Ground Bar									
<b>Code</b>	<b>Number of 100 Ohm RTD Sensor Inputs (must be multiple of 6, up to 48 inputs, MAX. 3 RTD's/heater ckt.)</b>									
1	6 (Select if Ambient Sensing ITAS panel)					6 36				
2	12					7 42				
3	18					8 48				
4	24					9 Other (Call Factory for Assistance)				
5	30									
<b>Code</b>	<b>Communications</b>									
1	Standard: ModBus RTU/RS485 or Modbus TCP/Ethernet									
2	ModBus TCP/Wireless									
3	BacNet									
9	Other									
<b>Code</b>	<b>Temperature Sensing Solutions</b>									
1	Standard Wired Sensing									
2	Wireless Sensing									
3	Dry Contact Closure for Ambient Sensing Thermostat									
4	Remote Snow Sensor Input (For ITAS ONLY i.e. SIT, GIT & CIT type sensors)									
<b>Code</b>	<b>Enclosure (size determined by table 1)</b>									
1	NEMA 4 Single-Door Wall-Mount Steel Enclosure 24 X 20 X 10									
2	NEMA 4 Single-Door Wall-Mount Steel Enclosure 30 X 30 X 10									
3	NEMA 4 Single-Door Wall-Mount Steel Enclosure 42 X 36 X 12									
4	NEMA 4 Single-Door Wall-Mount Steel Enclosure 42 X 36 X 16									
5	NEMA 4 Single-Door Wall-Mount Steel Enclosure 60 X 36 X 12									
6	NEMA 4 Single-Door Wall-Mount Steel Enclosure 60 X 36 X 16									
7	NEMA 4X 304 Stainless Steel Wall-Mount Enclosure 24 X 20 X 10									
8	NEMA 4X 304 Stainless Steel Wall-Mount Enclosure 30 X 30 X 10									
A	NEMA 4X 304 Stainless Steel Wall-Mount Enclosure 42 X 36 X 12									
B	NEMA 4X 304 Stainless Steel Wall-Mount Enclosure 42 X 36 X 16									
C	NEMA 4X 304 Stainless Steel Wall-Mount Enclosure 60 X 36 X 12									
D	NEMA 4X 304 Stainless Steel Wall-Mount Enclosure 60 X 36 X 16									
ITAS/ITLS-EXT- 06	3	3(1P)	5	1	3	1	1	1	5	<b>Typical Model Number</b>

\*Designed to be paired with an ITAS Panel



## IntelliTrace

Ambient Sensing

**ITAS/ITLS** Base Panel

**ITAS/ITLS-EXT** Extender Panel

Heat Tracing Control Panel  
for Ordinary Areas

### Model Number Note

-XXXX Indicates that the design has varied from the order table parameters. This could include one or more of the following non-standard considerations: Special Software or Configuration, Private Branding, Remote Monitoring/Touch-Screen Computer, Sunshield or other Protective Covering, Third Party Approval, Floor Stands, Mounting Options, Special Materials (316 SS) or Coatings, Additional Venting or Cooling, Special Indication or Alarms.

### Technical Notes

1. Refer to PK497 for Installation and Operation details
2. Our standard SCCR is 5 kA. Consult sales if a different SCCR is needed.
3. For CID2 Panels 120-264V customer supplied instrument power supply
4. See ITLS/ITAS-EXT to increase circuits up to 8 loops for 2-4 Circuit Panels and up to 72 Circuits for 6-48 Circuit Panels.
5. 6-48 Circuit Extension Panels can not be added to 2-4 Circuit Panels but 2-4 circuit extension panels can be added to 6-8 Circuit Panels (up to 72 circuits)

**Table 1: Enclosure Size Selection**

Circuits - Poles	Enclosure Size - H x W x D In (cm)	
	2 Inputs / Output	3 Inputs / Output
2 Loop 1P	24x20x10	24x20x10
2 Loop 2P	24x20x10	24x20x10
4 Loop 1P	24x20x10	24x20x10
4 Loop 2P	24x20x10	24x20x10
6 Loop 1P	24x20x12	24x20x12
6 Loop 2P	30x30x10	30x30x10
12 Loop 1P	30x30x10	30x30x10
12 Loop 2P	42x36x12	42x36x12
18 Loop 1P	42x36x12	42x36x12
18 Loop 2P	60x36x12	60x36x12
24 Loop 1P	42x36x12	42x36x12
24 Loop 2P	42x36x16	42x36x16
30 Loop 1P	60x36x12	60x36x12
30 Loop 2P	60x36x16	60x36x16
36 Loop 1P	60x36x12	60x36x12
36 Loop 2P	60x36x16	60x36x16
42 Loop 1P	60x36x16	60x36x16
42 Loop 2P	Consult factory	Consult factory
48 Loop 1P	60x36x16	60x36x16
48 Loop 2P	Consult factory	Consult factory

### Spare/Replacement Parts for ITAS & ITAS-EXT

Part Number	Description
N/A	SSR/GFI Power Control Assy, with Heat Sink
0135-02273	Control Module Board Assembly
0135-02262	RTD Sensor Input Board Assembly
0135-02263	Digital Distribution Comm Board Assembly (-EXT panels only)
0002-60054	SSR, 40 Amp rated
0029-00640	SSR Thermstrate Material
0025-05312	Common Alarm Relay
0025-05309	Common Alarm Relay (CID2 Panels Only)
0081-10063	Power Supply 5VDC 6A 30W DIN Rail Mount
0081-10047	Power Supply 24VDC 2.5A 60W DIN Rail Mount
0108-70509	ITLS/ITAS-10" Display
0108-70507	ITLS/ITAS-7" Display
0017-43753	15A 1P Circuit Breaker (120V or 277V)
0017-43754	20A 1P Circuit Breaker (120V or 277V)
0017-43755	30A 1P Circuit Breaker (120V or 277V)
0017-43756	40A 1P Circuit Breaker (120V)
0017-43757	50A 1P Circuit Breaker (120V)
0017-43758	15A 2P Circuit Breaker (208/240V or 480V)
0017-43759	20A 2P Circuit Breaker (208/240V or 480V)
0017-43760	30A 2P Circuit Breaker (208/240V or 480V)
0017-43761	40A 2P Circuit Breaker (208/240V)
0017-43762	50A 2P Circuit Breaker (208/240V)
0023-15097-0001	6" (15 cm) Ribbon Cable with Connectors
0023-15097-0002	72" (180 cm) Ribbon Cable with Connectors

### Accessories for ITAS & ITAS-EXT

Part Number	Description
N/A	Power Transformers
PCN 317315	RTD, Aluminum, NEMA 4
PCN 317340	RTD, Expl. Resist., Cast Iron/Alum., NEMA 4
PCN 308144	RTD Ext Wire, 3-wire, 16 ga, Cu, shielded, 50 FT
PCN 308152	RTD Ext Wire, 3-wire, 16 ga, Cu, shielded, 200 FT



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