

Nelson Heat Trace Connection Kits

CERTIFIED TO PROTECT, BUILT TO ENDURE

**NELSON
HEAT TRACE**



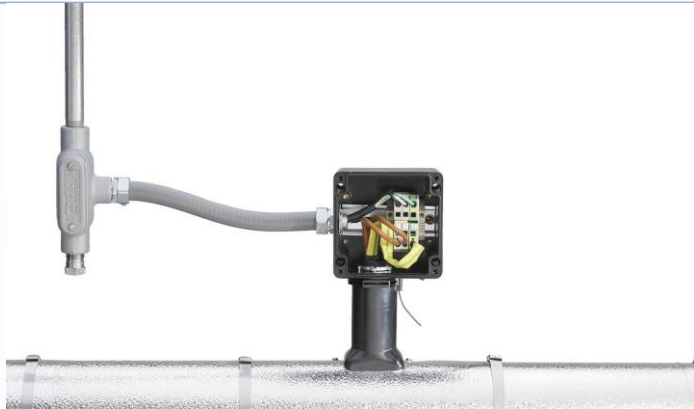
CONNECT HEAT TRACE CABLE IN RUGGED, HARSH & HAZARDOUS LOCATIONS

Nelson AX Connection Kits provide robust, weatherproof, corrosion-resistant connections in industrial and hazardous locations.

- NEC certified for use in ordinary and hazardous locations
- Rugged non-metallic enclosures, rated IP66 and NEMA 4X against weather and corrosion
- Designed for easy cable entry and connection, using DIN-rail mounted terminal blocks
- Fits all wattages of Nelson Self-Regulating heating cables (LT, HLT, QLT, and CLT)



KITS AND OPTIONS FOR EVERY APPLICATION



Power Connection Kit



Splice Connection Kit



Tee Connection Kit



End-of-Circuit Termination Kit

CONNECTION KIT CONTENTS

Every kit includes all the accessories you need to create safe, reliable, protected connections.



CONNECTION KIT CONTENTS



Power Connection Kit



Splice Connection Kit



End-of-Circuit Termination Kit



Tee Connection Kit

NEW KITS SPECIFICALLY FOR HEAVY INDUSTRIAL & HAZARDOUS LOCATIONS

Nelson AX Connection Kits are designed for heavy-duty industrial customers who require the highest level of protection.

Our PLT and ALT Connection Kits will still be available for light industrial and commercial customers.

Heavy Industrial/Hazardous Locations

AX Connection Kits

Light Industrial/Commercial

ALT & PLT Connection Kits

NEC KIT REPLACEMENT OPTIONS

Nelson's AX Connection Kits will replace the existing Nelson Connection Kits for heavy industrial and hazardous locations.

Existing for NEC: ALT & PLT Connection Kits	Replacement for NEC: AX Connection Kits
ALTBCPCT	AXPC100
ALTBSPCT	AXSC100
ALTBYPCT	AXTC125
ALTLP	HPC100
ALTLPM	HPC100
PLTBCPCT	AXPC100
PLTBSPCT	AXSC100
PLTBYPCT	AXTC125
PLTLP	HPC100
PLTLPM	HPC100
PLTLPS	HPC100

Our new AX Connection Kits are NEC certified, so customers can rely on Nelson for their heavy industrial and hazardous operations.

NEC® 2005; NFPA 70: National Electrical Code®, International Electrical Code Series

IEEE Std 515™ - 2004 Standard for Testing, Design, Installation, and Maintenance of Electrical Resistance Heat Tracing for Industrial Applications



- Ordinary Locations
- Class I, Division 2, Groups BCD
- Class II, Groups EFG; (Canada Only)
- Class III; (Canada Only)
- Encl. Type 4X, Temp. Code T6 – T3*
- Usages – General and Wet locations
- Class 1 Zone 1; Ex e II; T6 – T3*



- Ordinary Locations
- Class I, Division 2, Groups BCD
- Class II, Groups EFG; Class III
- Encl. Type 4X, IP66, Temp. Code T*
- Class 1 Zone 1; AEx e IIC T*
- $-40^{\circ}\text{C} \leq T_{\text{amb}} \leq 55^{\circ}\text{C}$

*For temperature code, see heating cable or design information.

HEAVY-DUTY MATERIALS

Nelson AX Connection Kits have a new design that delivers superior resilience in rugged industrial applications.

- Tough, lightweight, corrosion-resistant polyester
- Reinforced standoffs to prevent cracking in rugged environments
- Fiberglass-reinforced for exceptional durability and impact-resistance
- Carbon-impregnated to prevent buildup of static charge
- Specially treated to resist UV degradation



EASIER TO USE

Our new design simplifies installation in any environment.

- Easy-to-access, modular enclosures provide more room for installation and service
- DIN rail-mounted terminal blocks simplify wiring and provide a more secure connection
- Spring-clamp terminals simplify connections, with no need to tighten screws



INDUSTRIES AND APPLICATIONS



Any heavy-duty or hazardous industry that requires reliable heat-trace connections for:

- Freeze protection
- Process temperature maintenance
- Viscosity control
- Vessel and tank heating

The following specifications apply when using Nelson Self-Regulated heater cable, including Nelson LT, HLT, QLT and CLT.

- Minimum Installation Temperature: **-40°C**
- Ambient Temperature Use Range: **-50°C to 55°C**
- Acceptable Conductor Size: **1mm² (18 AWG) to 6mm² (8 AWG)**
- Operating Voltage Range: **108Vac to 300Vac**
- Max Continuous Current: **18A**
- Enclosure Material: **Fiberglass-reinforced, carbon-impregnated, UV resistant polymer, black**
- Weight: **Splice and Power Connection Kits 1 kg (2.2 lbs)**
- Weight: **Tee Connection Kit 2 kg (4.4 lbs)**
- Ingress Protection: **NEMA 4X, IP66**
- Terminals: **Spring-type terminals**
- Lid Screws: **Stainless steel captive screws**

*Nelson LLT Self-Regulating heating cable and NC Constant Wattage heating cables to be used with existing PLT and ALT connection kits until further notice

ORDERING INFORMATION



Step 1: Choose Connection Kit*	SKU
NEC Power Connection Kit	AXPC100
NEC Splice Connection Kit	AXSC100
NEC Tee Splice Connection Kit	AXTC125
End-of-Circuit Termination Kit	HEC100
Power Connection Kit Without Enclosure	HPC100
Splice Connection Kit Without Enclosure	HSC100
Tee Connection Kit Without Enclosure	HTC125

Step 2: Select Clamp	SUFFIX
Each kit contains a clamp but must be selected separately	
Pipe Clamp for 3" or smaller pipe diameter	-3
Pipe Clamp for 3" to 12" pipe diameter	-12
Pipe Clamp for 12" to 20" pipe diameter	-20

Step 3: Select Optional Accessories	SKU
Pipe Adaptor for 1" or smaller pipe diameter	HC-SPA
Fiberglass Tape – ½" x 60 yards	GT-60
Fiberglass Tape – ½" x 20 yards	GT-6
Aluminum Tape – 2" x 50 yards	AT-50
Warning Sign	WS100

Step 4: Place your order for the new Nelson AX Connection Kits

WHY NELSON?

Nelson Heat Trace offers the industry's broadest line of heat trace cables, controls, monitors and accessories.

From process temperature maintenance to freeze protection, hot water supply, tank and vessel heating, frost heave prevention and more, Nelson Heat Trace offers a right fit solution for any heating requirement.



Thank you!

Nelson Heat Trace
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