

CERTIFIED TO PROTECT. BUILT TO ENDURE.



CONNECT HEAT TRACE CABLES

Safely and Securely in Harsh and Hazardous Locations.

Nelson AX Connection Kits provide robust, weatherproof, corrosion-resistant connections for heat trace cables in ordinary, rugged industrial environments and hazardous locations.

- Fiberglass-reinforced polyester construction withstands rugged conditions
- Nonmetallic enclosures are suitable for use in extreme weather and corrosive environments (IP66, NEMA 4X)
- Large, modular enclosures and DIN-rail mounted terminal blocks provide for easy installation and service
- Spring-clamp terminals simplify wiring and ensure a dependable connection, with no need to tighten screws
- Use with all wattages of Nelson Self-Regulating heating cables (LT, HLT, QLT and CLT)

These new universal connection kits join our PLT and ALT kits for commercial and light industrial use – giving specifying engineers a complete selection of connection kits for any heat trace application.



KITS AND OPTIONS FOR EVERY APPLICATION

Our AX series includes all the kits you need to connect heating cables in any configuration and verify operation of heating cable circuits. We also offer power, splice and tee splice connection kits without enclosures and terminals for maintaining your existing infrastructure.



SPLICE CONNECTION KIT



POWER CONNECTION KIT



TEE SPLICE CONNECTION KIT



END-OF-CIRCUIT TERMINATION KIT

CERTIFICATIONS

NEC® 2005; NFPA 70: National Electrical Code®, International Electrical Code Series IEEE Std 515TM - 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°C ≤ Tamb ≤ 55°C

*For temperature code, see heating cable or design information

Built Tough

Nelson AX Connection Kits deliver the ultimate in resilience and durability for rugged, harsh and hazardous locations.

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



INDUSTRIES AND APPLICATIONS

- Oil & gas production, transportation and refining
- Petrochemical plants
- Power generation facilities
- Food & beverage manufacturing
- Any heavy-duty or hazardous industry that requires reliable heat-trace connections for freeze protection, viscosity control and process temperature maintenance

SPECIFICATIONS

- Minimum Installation Temperature: -40°C
- Ambient Temperature Use Range: -50°C to 55°C
- Acceptable Conductor Size: 1mm^2 (18 AWG) to 6mm^2 (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

CONNECTION KIT CONTENTS

Every AX Connection Kit includes all the accessories you need to create safe, reliable, protected connections. These accessories vary by type of kit, and may include:

1. Junction box
2. Lid with captive screws
3. Terminal block
4. Standoff
5. 6" guide tubes
6. Enclosure adapter
7. End cap
8. Silicone adhesive
9. Locknut
10. Termination components
11. Pipe clamp
12. Ground wire tubing
13. Cable clamp
14. Cable grommet
15. Cable tie



ORDERING INFORMATION

Step 1: Choose Connection*	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

* 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

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

Nelson Heat Trace provides a full range of products and expertise for powering, controlling and monitoring pipeline temperatures. Our tailored, trouble-free, efficient and cost-effective systems are used around the globe, from frozen tundras to arid deserts.

Appleton Group is a worldwide manufacturer of electrical products for virtually every type of environment. For over 150 years, our brands have been providing a rich tradition of long-term, practical, high quality solutions.

Distributors, contractors, engineers, electricians and site maintenance professionals around the world trust Appleton Group brands to make electrical installations safer, more productive and more reliable.

Appleton Group is organized into three focused businesses that provide distributors and end-users expert knowledge and excellent service.

Electrical Construction Materials

This group manufactures a broad range of electrical products including conduit and cable fittings, plugs and receptacles, enclosures and controls, conduit bodies and industrial lighting. Whether the application is hazardous location, industrial or commercial, the electrical construction materials group has the products to meet your needs.

Power Quality Solutions

This group offers the broadest power quality line, including uninterruptible power supplies, power conditioners, voltage regulators, shielded transformers, surge suppression devices and power supplies.

Heating Cable Systems

This group offers a broad range of electrical heating cable products for residential, commercial and industrial applications.

Electrical Construction Materials

 **Appleton**

OZGEDNEY

 **Nutsteel**

Power Quality Solutions

SOLAHD

Heating Cable Systems

EASYHEAT

NELSON

Appleton Grp LLC
9377 W. Higgins Road
Rosemont, IL 60018
1.800.406.9618
www.nelsonheaters.com

Asia/Pacific
+ 65.6891.7600

Australia
+ 61.3.9721.0348

Brazil – São Paulo/SP
+ 55.11.2122.5777

Brazil – Camaçari/BA
+ 55.71.3623.2028

Canada
+ 1.888.765.2226

China
+ 86.21.3418.3888

Europe
+ 33.3.2254.2759

Mexico/Latin America
+ 52.55.5809.5049

Middle East/Africa/India
+ 971.4.881.8100