

**BUILT TO ENDURE
CERTIFIED TO PROTECT**



AX AND EX HEAT TRACE CONNECTION KITS

TRUSTED PROTECTION.



Connect heat trace cables safely and securely in harsh and hazardous locations.

Nelson AX and EX 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, XLT and CLT), system safety approvals required for cable selection.

DESIGNED TO LAST.



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

AX and EX universal connection kits for commercial and light industrial use – giving specifying engineers a complete selection of connection kits for any heat trace application.

- 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



RELIABLE PERFORMANCE.

SPECIFICATIONS

- Minimum Installation Temperature: -40°C (-40°F)
- Ambient Temperature Use Range: -50°C to 55°C (-58°F to 131°F)
- Acceptable Conductor Size: 1mm^2 (18 AWG) to 6mm^2 (8 AWG)
- Operating Voltage Range: 108 Vac to 300 Vac
- 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

ORDINARY LOCATION 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



- Class I, Division 2, Groups B, C, D
- Class II, Groups E, F, G (Canada Only)
- Class III (Canada Only)
- Enclosure Type 4X, Temperature Code T6 – T3 ①
- Usages - General and Wet Locations
- Class 1 Zone 1; Ex e II; T6 – T3 ①



- Class I, Division 2, Groups B, C, D
- Class II, Groups E, F, G; Class III
- Enclosure Type 4X, IP66, Temperature Code T ①
- Class 1 Zone 1; AEx e IIC T
- $-40^{\circ}\text{C} \leq T_{\text{amb}} \leq 55^{\circ}\text{C}$



- II 2 G Ex e IIC T5 Gb
- II 2 D Ex tb IIIC T95° C
- $-40^{\circ}\text{C} \leq T_{\text{amb}} \leq +55^{\circ}\text{C}$

① For temperature code, see heating cable or design information

INDUSTRIES AND APPLICATIONS



PETROCHEMICAL MANUFACTURING



REFINERIES



FOOD AND BEVERAGE MANUFACTURING



POWER GENERATION FACILITIES

VERSATILE AND DEPENDABLE.

Our AX and EX 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



POWERED SPLICE CONNECTION KIT



**END-OF-CIRCUIT
TERMINATION KIT**



**END OF CIRCUIT LIGHT
TERMINATION KIT**

CONNECTS IN ANY ENVIRONMENT.



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

KITS AND OPTIONS FOR EVERY APPLICATION.

ORDERING INFORMATION

Step 1: Choose Connection	SKU	
	NEC	IEC
Power Connection Kit	AXPC100	EXPC100
Splice Connection Kit	AXSC100	EXSC100
Tee Splice Connection Kit	AXTC125	EXTC125
Powered Slice Connection Kit	AXPTC125	EXPTC125
End-of-Circuit Termination Kit	HEC100	
End of Circuit Light Termination Kit	HEL100	
Power Connection Kit Without Enclosure	HPC100	
Splice Connection Kit Without Enclosure	HSC100	
Tee Connection Kit Without Enclosure	HTC125	

Step 2: Select Clamp Each kit contains a clamp, but must be selected separately	SUFFIX
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

CONNECT SAFELY AND SECURELY

Visit nelsonheaters.com or contact your local Nelson Heat Trace representative to learn more about our AX and EX connection kits.

Emerson brings integrated manufacturing solutions to diverse industries worldwide. Our comprehensive product line, extensive experience, world-class engineering and global presence enable us to implement solutions that give our customers the competitive edge. Nelson Heat Trace is our industrial line of heating cables solution. They provide a full line of products and expertise for the powering, controlling and monitoring of pipeline temperatures.

For over 150 years, our electrical product brands have been providing a rich tradition of long-term, practical, high quality solutions with applications ranging from the construction and safe operation of petrochemical and process plants to providing quality power that precisely controls automotive robotic production.

Engineers, distributors, contractors, electricians and site maintenance professionals around the world trust Emerson brands to make electrical installations safer, more productive and more reliable.

The Appleton Group business unit of Emerson is organized into three focused groups that provide distributors and end users expert knowledge and excellent service.

Electrical Construction Materials

This group is made up of the Appleton and O-Z/Gedney brands. They manufacture a broad range of electrical products including conduit and cable fittings, plugs and receptacles, enclosures and controls, conduit bodies and industrial and hazardous 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

The SolaHD brand offers the broadest power quality line, including uninterruptible power supplies, power conditioners, voltage regulators, shielded transformers, surge protection devices and power supplies.

Heating Cable Systems

This group is made up of the EasyHeat and Nelson brands. They offer a broad range of electrical heating cable products for residential, commercial and industrial applications.

Asia/Pacific
+ 65.6556.1100

Australia
+ 61.3.9721.0348

Canada
+ 1.888.765.2226

China
+ 86.21.3338.7000

Europe
+ 33.3.22.54.13.90

Mexico/Latin America
+ 52.55.5809.5049

Middle East/Africa/India
+ 971.4.881.8100

United States
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**NELSON
HEAT TRACE**



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