

Nelson™ AX and EX Heat Trace Connection Kits

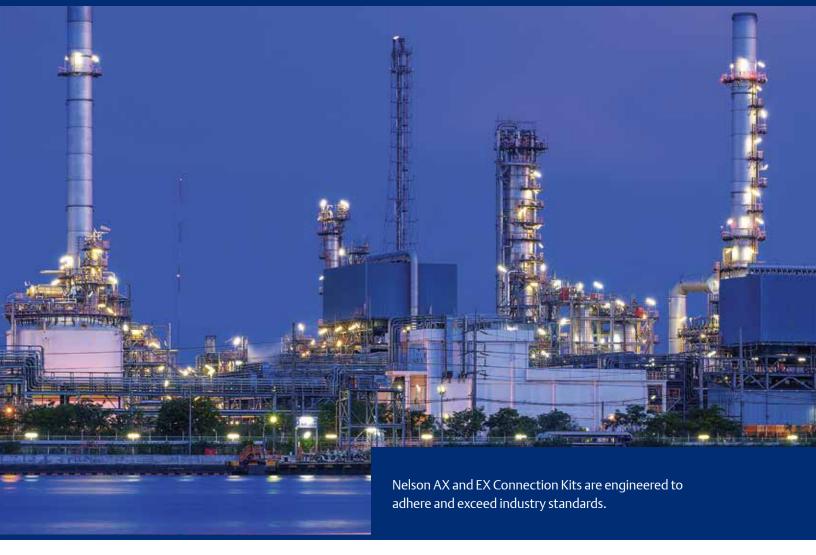


Connect heat trace cables safely and securely in harsh and hazardous locations.



Nelson[™] AX and EX Connection Kits by Emerson, 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.



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: 1mm² (18 AWG) to 6mm² (8 AWG)
- Operating Voltage Range: 108 Vac to 300 Vac
- Max Continuous Current: Up to 25A in standard configurations, 38A for -LLT options
- 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

Certifications

NEC® 2017; NFPA 70: National Electrical Code®, International: Electrical Code, IEEE Std 515TM - 2011 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
- Class I, Zone 1; Ex e II; T6 − T3 ①



- Class I, Division 2, Groups B, C, D
- Class II, Groups E, F, G; Class IIIEnclosure Type 4X, IP66,
- Temperature Code T ①
- Class I Zone 1; AEx e IIC T
- -40°C ≤ Tamb ≤ 55°C



- 😉 II 2 G Ex e IIC T6-T3 ① Gb
- ऒ II 2 D Ex tb IIIC T80°-T195° C
- Ѿ -40° C ≤ Tamb ≤ +55° C

① For temperature code, see heating cable or design information

Delivering ultimate resilience and durability for rugged, harsh and hazardous locations.



AX and EX universal connection kits for 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

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.

Versatile and Dependable

Power Connection Kit



 Power connection kits are designed for terminating one heater cable to customer supplied power wiring.

Splice Connection Kit



- Connection kits are used to connect two heater cables to each other in a splice configuration.
- It may be used to extend cable length, connect different wattage cables together or to provide access to service removable equipment.

Tee Splice Connection Kit



- Tee splice connection kits are used to connect up to three heater cables.
- It may be used to connect multiple heater segments, connect different wattage cables together or to provide access to service removable equipment.

Powered Splice Connection Kit



 Powered splice connection kits are used to connect up to three heater cables to customer supplied power wiring.

End-of-Circuit Termination Kit



 Our end of circuit termination kit is designed for terminating one heater cable while allowing access for periodic maintenance and/or trouble-shooting.

End of Circuit Light Termination Kit



 Our lighted end of circuit termination kit is designed for terminating one heater cable with a non-directional lens assembly and long life LED output.





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
- 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

Select Kits and Options for Every Application

Step 1: Choose Connection

		SKU	
	NEC	IEC	
Power Connection Kit ①	AXPC100	EXPC100	
Splice Connection Kit ①	AXSC100	EXSC100	
Tee Splice Connection Kit	AXTC125	EXTC125	
Powered Slice Connection Kit	AXPTC125	EXPTC125	
End-of-Circuit Termination Kit	HI	HEC100	
End of Circuit Light Termination Kit	Н	HEL100	
Power Connection Kit Without Enclosure	HI	HPC100	
Splice Connection Kit Without Enclosure	H	HSC100	
Tee Connection Kit Without Enclosure	H.	HTC125	
① Use suffix -LLT for use with LLT Long Line Self-Regulating heaters			

Step 2: Select Clamp [©]

	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
(2) Each kit contains a clamp, but must be selected separately	

Step 3: Select Optional Accessories

	SUFFIX
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





Innovative and reliable heat trace solutions for demanding environments.



Nelson is the cornerstone of Emerson's Electrical and Light business; providing worldwide heat trace solutions that ensure optimum control and cost-efficient operations.

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